Joint Meeting of The 45th Annual Meeting of the Japanese Society of Developmental Biologists & The 64th Annual Meeting of the Japan Society for Cell Biology

Program & Abstracts

Outline

◆ Name

Joint Meeting of The 45th Annual Meeting of the Japanese Society of Developmental Biologists &
The 64th Annual Meeting of the Japan Society for Cell Biology

◆ Date

May 28 (Mon) − May 31 (Thu), 2012
*May 28 (Mon) Joint Young Scientist Session (in Japanese)

◆ Venue

Kobe International Conference Center
(6-9-1 Minatojima-nakamachi, Chuo-ku, Kobe 650-0046, Japan / TEL: 078-302-5200)
The Kobe Chamber of Commerce and Industry
(6-1 Minatojima-nakamachi, Chuo-ku, Kobe 650-8543, Japan / TEL: 078-303-5804)

◆ President

Yoshiko Takahashi (Kyoto Univ.)

◆ Organizers

The Japanese Society of Developmental Biologists (JSDB)
Japan Society for Cell Biology (JSCB)

◆ Organizing Committee

Secretary General Aide	Erina Kuranaga (RIKEN, CDB)
Program Committee	
JSDB	Hiroyuki Takeda (The Univ. of Tokyo)
	Kunimasa Ohta (Kumamoto Univ.)
JSCB	Mikio Furuse (Kobe Univ.)
	Kazuo Emoto (OBI)

◆ Society program

DGD Editorial Meeting & JSDB Board Meeting: May 28 (Mon) 13:00-17:00 Room 5 (501)
JSCB CSF Editorial Board Meeting: May 29 (Tue) 12:10-13:00 Room 503-504
JSDB General Assembly: May 30 (Wed) 13:00-13:50 Room 2 (International Conference Room)
JSCB Board of Council Members / General Assembly: May 30 (Wed) 12:00-13:50 Room 3 (401+402)

◆ Inquiries to

Joint Meeting of The 45th JSDB & The 64th JSCB Secretariat
9th Fl, Shin-osaka Chiyoda Bldg. (Annex), 4-4-63 Miyahara, Yodogawa-ku, Osaka 532-0003, Japan
(c/o A & E Planning, Co., Ltd.)
TEL: 06-6350-7163 FAX: 06-6350-7164
E-mail: jsdb-jscb2012@aeplan.co.jp
URL: http://www.aeplan.co.jp/jsdb-jscb2012/index.html

Greetings

It only matters if you are understood

Perhaps some of you may have had the following experience: Day after day spent reading through countless numbers of journals and papers. One day you decide to attend a symposium in a different area from your own in high spirits, motivated to learn something interesting, but walk away afterward, disappointed at not having understood anything that was going on.

Along with the flourishing of the life sciences, we have also seen a move toward further specialization and subdivisions of various research areas, leading to the present prevalence of talks on narrowly focused topics. The close relationship we have built with living organisms and cells, in our quest to uncover the nature of life, has of late become a more business-like association. In face of these times, I have attempted to create a program that contemplates, "What makes life science interesting?" out of the belief that developmental biologists and cell biologists should be able to understand each other.

The JSDB-JSCB joint meetings began in 2002, the idea of which was proposed by then society presidents Dr. Masatoshi Takeichi (JSDB) and Dr. Nobutaka Hirokawa (JSCB). Since then, our joint meeting has been held every five years, and the 2012 meeting is our third such event. Until the last meeting, the programs were organized by the two appointed meeting chairs, one from each society, who organized the programs from the standpoint of their respective societies. This time, however, there is only one organizing chairperson, who has been tasked with setting out a clear concept for the joint meeting.

For this JSDB-JSCB meeting, I placed top priority on organizing a program that can only be put together in a joint meeting setting. As a result, the program has been set up in a way that sessions of developmental biology are intermingled with those of cell biology, and all of the participants have no choice but to listen to talks of both areas. Therefore, to the speakers (and poster presenters), the aim of this meeting is not about how much you can talk about your research, but rather, how well you can get your audience to understand your research.

As the chair of this joint meeting, it would give me great pleasure if this meeting serves as a springboard to inspire new ideas and lead to innovative developments in your research.

Joint Meeting of The 45th Annual Meeting of the Japanese Society of
Developmental Biologists & The 64th Annual Meeting of the Japan Society for Cell Biology
President: Yoshiko Takahashi (Kyoto Univ.)

「わかってもらってナンボ！」～大会長からのメッセージ～

おびただしい数のジャーナルや論文チェックに追われる日々。「学会でオモロイこと見つけたろぉ！」と、普段は勉強しない分野のシンポジウムに意気揚々と参加したものの、悲しいかな、なんのことやらさっぱりわからん・・・という経験をした人は私だけではないでしょう。

生命科学の隆盛と共に、各分野の専門化と細分化が進み、なにかとマニアックな発表が幅をきかせる時代。生命の本質を問うために生き物や細胞と付き合っていたつもりが、いつのまにやら「ビジネス的」な空気に翻弄されている感もあります。このような時代において、今回の合同大会では、発生生物学者と細胞生物学者はお互い理解し合えるはずという信念の元に、「生命科学のおもしろさを問う」企画に挑戦しました。

JSDB-JSCB 合同大会は、当時の学会長竹市雅俊先生（JSDB）と廣川信隆先生（JSCB）による発案のもと、2002 年に始まりました。以来５年ごとに開催されており、今回が３回目です。前回までは２名の大会長が、それぞれの学会を代表する立場で企画されましたが、今回の大会長は１人であり、合同大会のコンセプトを明確に打ち出すことが求められています。

今大会では、「合同大会でなければ出来ないこと」を最優先に考えました。結果、“コテコテ”の発生生物学と細胞生物学をランダムに組合せ、会場にいる聴衆はそのどちらも聞かざるを得ない状況をセットアップしました。発表者の方々は（ポスター発表も含めて）、自分の研究を「喋ってナンボ」でなく、「相手にわかってもらってナンボ」ですので、よろしくお願いします。

この合同大会が、皆様に新しいアイデアをひらめかせ、新たな研究の発展に繋がるきっかけになれば、大会長として大きな喜びです。

第 45 回日本発生生物学会・第 64 回日本細胞生物学会
合同大会大会長
高橋 淑子（京大・院理・生命科学）

Program at a Glance

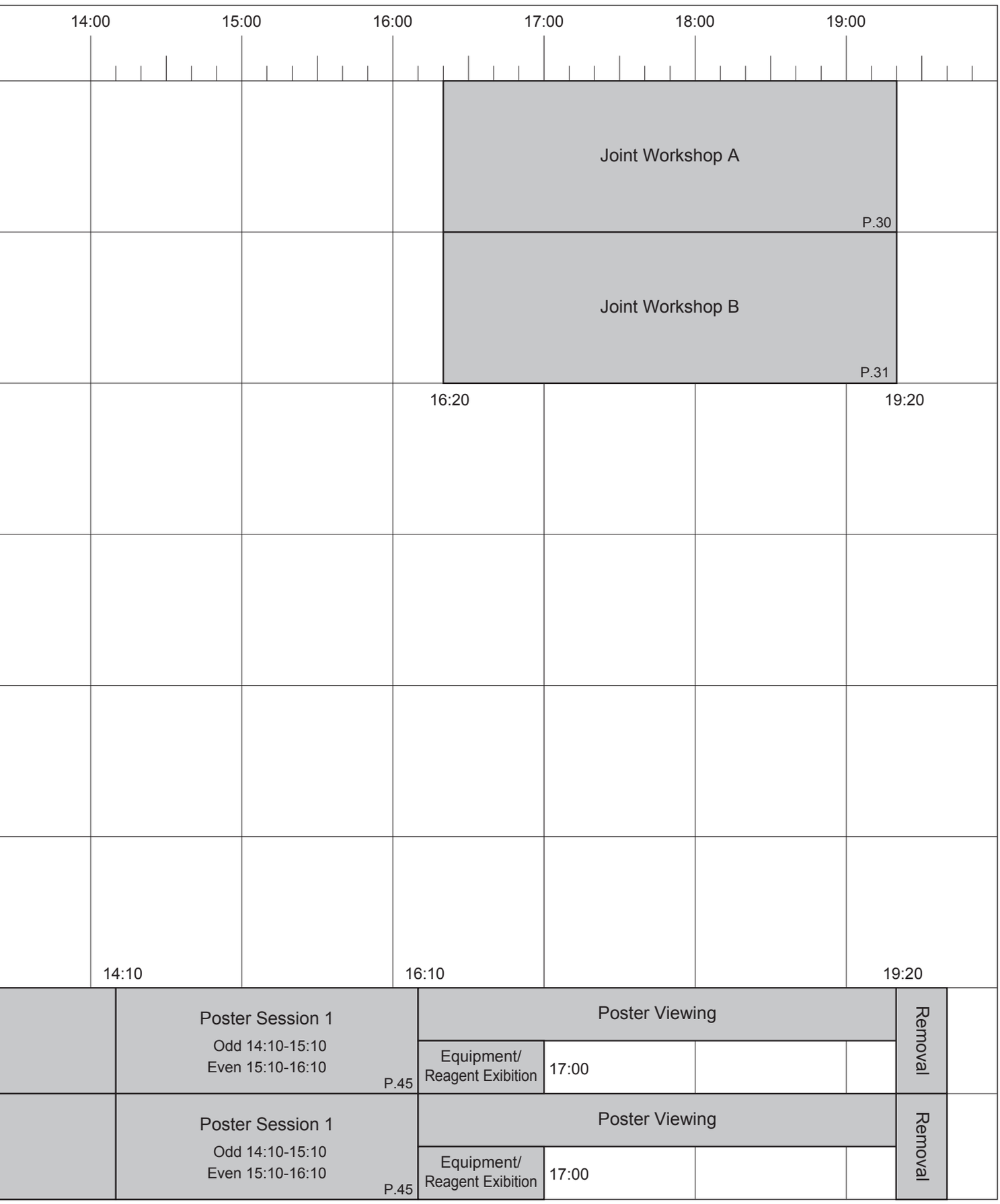
Day 0 (May 28 (Mon)) *Only Japanese Sessions

Bldg.	Room		Floor	15:00	16:00	17:00	18:00
Kobe International Conference Center	Room 1	Main Hall	1F	異分野供宴！若手ジョイントセッション 1 Joint Young Scientist Session 1 P.84			
	Room 2	International Conference Room	3F	異分野供宴！若手ジョイントセッション 2 Joint Young Scientist Session 2 P.85			
	Room 3	401+402	4F	異分野供宴！若手ジョイントセッション 3 Joint Young Scientist Session 3 P.87			
	Room 4	403					18:20
	Room 5	501	5F				
	Room 6	502					
The Kobe Chamber of Commerce and Industry	Poster & Exhibition	Event Hall	2F				
		Shinsho Hall	3F				

Program at a Glance

Day 1 (May 29 (Tue))

Bldg.	Room		Floor	9:00 – 14:00
Kobe International Conference Center	Room 1	Main Hall	1F	Joint Keynote Symposium P.25 (9:00–11:00); Poster Flash Talk P.33 (11:00–11:50); Plenary Lecture 1 Nobutaka Hirokawa P.25 (13:15–14:00)
	Room 2	International Conference Room	3F	Broad casting (Joint Keynote Symposium) (9:00–11:00); Luncheon Seminer 1 Leica Microsystems P.90 (12:10–13:10); Broad casting (Plenary Lecture 1) (13:15–14:00)
	Room 3	401+402	4F	Workshop on Gender Equality and nurture of young scientist P.23 (12:10–13:10)
	Room 4	403		
	Room 5	501	5F	Luncheon Seminer 2 Yokogawa Electric Corporation P.90 (12:10–13:10)
	Room 6	502		Luncheon Seminer 3 PerkinElmer Japan P.90 (12:10–13:10)
The Kobe Chamber of Commerce and Industry	Poster & Exhibition	Event Hall	2F	Set up (9:00–10:00); Poster Viewing & Equipment/Reagent Exhibition (10:00–14:00)
		Shinsho Hall	3F	Set up (9:00–10:00); Poster Viewing & Equipment/Reagent Exhibition (10:00–14:00)


14:00
15:00
16:00
17:00
18:00
19:00
Joint Workshop A
P.30
Joint Workshop B
P.31
16:20
19:20
14:10
16:10
19:20
Poster Session 1
Odd 14:10-15:10
Even 15:10-16:10
P.45
Poster Viewing
Equipment/
Reagent Exibition
17:00
Removal
Poster Session 1
Odd 14:10-15:10
Even 15:10-16:10
P.45
Poster Viewing
Equipment/
Reagent Exibition
17:00
Removal

Program at a Glance

Day 2 (May 30 (Wed))

Bldg.	Room		Floor	9:00 – 14:00
Kobe International Conference Center	Room 1	Main Hall	1F	Workshop 1a Intracellular trafficking / Organelles / Life of Proteins P.34
	Room 2	International Conference Room	3F	Workshop 2a Cell polarity / Cytoskeletons / Cell migration / Cell motility P.35
	Room 3	401+402	4F	Workshop 3a Cell-Cell interaction / Cell adhesion / Extracellular matrix P.36
	Room 4	403		Workshop 4a Systems biology P.36
	Room 5	501	5F	Workshop 5a Organogenesis / Body axis formation P.37
	Room 6	502		Workshop 6a Neural function and development P.38
The Kobe Chamber of Commerce and Industry	Poster & Exhibition	Event Hall	2F	Set up / Poster Viewing & Equipment/Reagent Exhibition
		Shinsho Hall	3F	Set up / Poster Viewing & Equipment/Reagent Exhibition

11:15

12:50 Luncheon Seminer 4 Olympus P.90

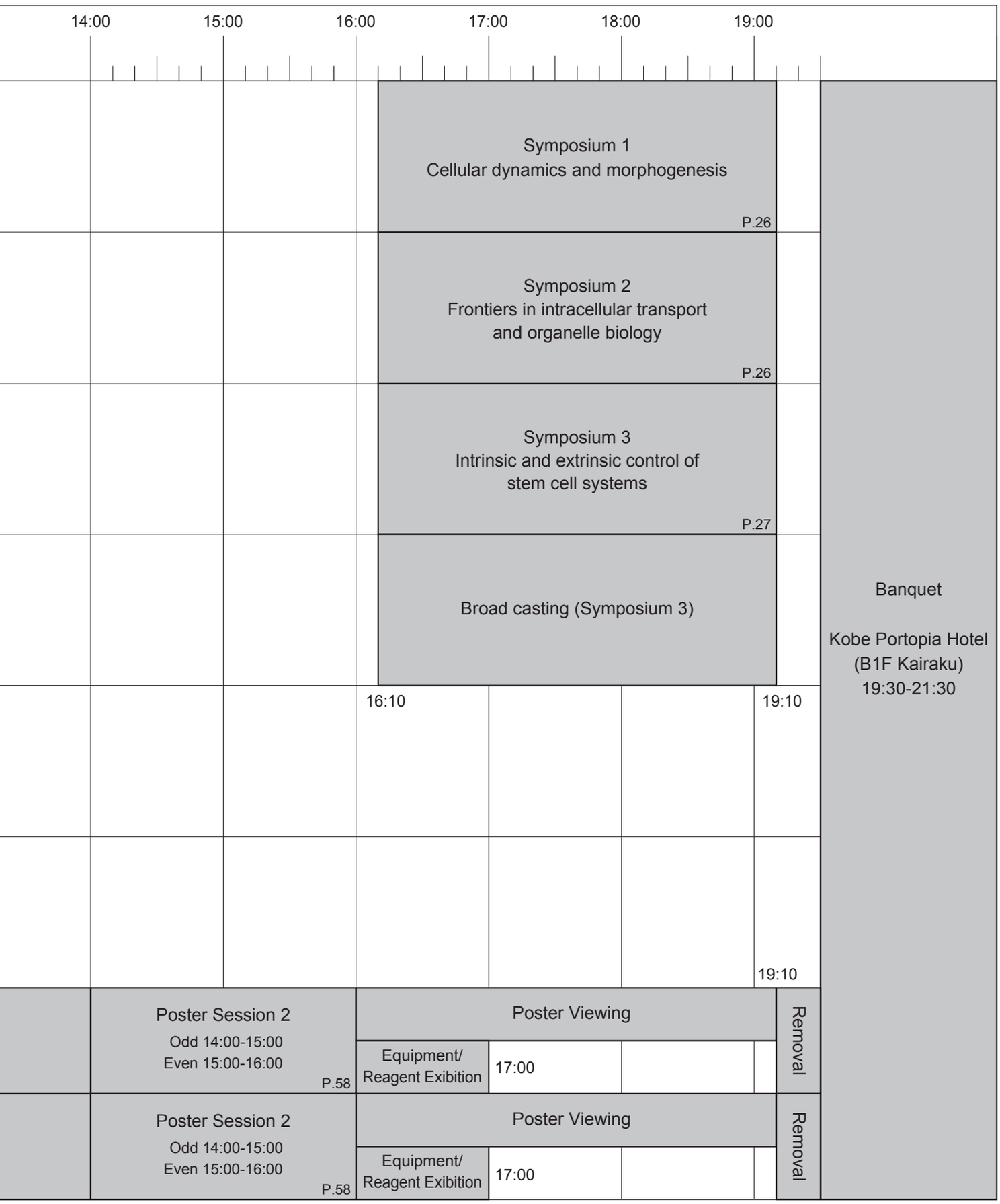
13:50 General Assembly (JSDB)

Broad of Council Members General Assembly (JSCB)

有志セミナー 1 P.89

Luncheon Seminer 5 OPTO-LINE P.91

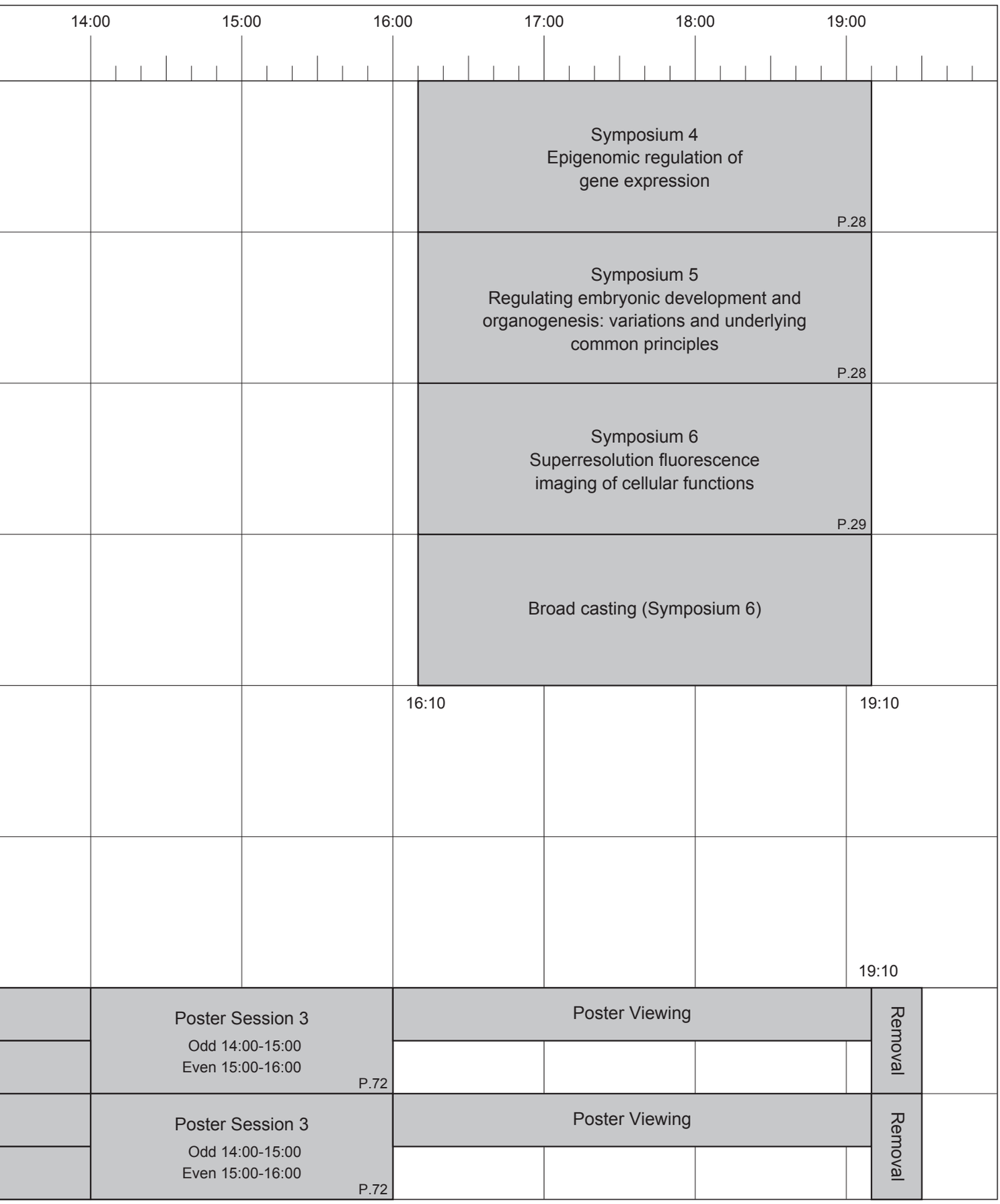
Luncheon Seminer 6 Carl Zeiss Microscopy P.91


14:00
15:00
16:00
17:00
18:00
19:00
Symposium 1
Cellular dynamics and morphogenesis
P.26
Symposium 2
Frontiers in intracellular transport
and organelle biology
P.26
Symposium 3
Intrinsic and extrinsic control of
stem cell systems
P.27
Broad casting (Symposium 3)
16:10
19:10
19:10
Banquet
Kobe Portopia Hotel
(B1F Kairaku)
19:30-21:30
Poster Session 2
Odd 14:00-15:00
Even 15:00-16:00
P.58
Poster Viewing
Equipment/
Reagent Exibition
17:00
Removal
Poster Session 2
Odd 14:00-15:00
Even 15:00-16:00
P.58
Poster Viewing
Equipment/
Reagent Exibition
17:00
Removal

Program at a Glance

Day 3 (May 31 (Thu))

Bldg.	Room		Floor	9:00	10:00	11:00	12:00	13:00	14:00
Kobe International Conference Center	Room 1	Main Hall	1F		Workshop 1b Signal transduction / Cell proliferation / Differentiation / Cell death / Cell nucleus / Chromosome P.39			Plenary Lecture 2 Masatoshi Takeichi P.25	
	Room 2	International Conference Room	3F		Workshop 2b Regeneration / Gametogenesis Stem cells P.40		12:50	Broad casting (Plenary Lecture 2)	
	Room 3	401+402	4F		Workshop 3b Gene expression and Epigenetics P.41	11:15	Luncheon Seminer 7 NIKON INSTECH P.91	13:45	
	Room 4	403			Workshop 4b High-technology and Bioimaging P.42				
	Room 5	501	5F		Workshop 5b Evolution / Diversity / Early development / Morphogen P.43		Luncheon Seminer 8 Life Technologies Japan P.91		
	Room 6	502			Workshop 6b Multicellular construction and Morphogenesis P.43	11:15	有志セミナー 2 P.89		
The Kobe Chamber of Commerce and Industry	Poster & Exhibition	Event Hall	2F	Set up	Poster Viewing Equipment/Reagent Exhibition 9:00-16:00				
		Shinsho Hall	3F	Set up	Poster Viewing Equipment/Reagent Exhibition 9:00-16:00				


14:00
15:00
16:00
17:00
18:00
19:00
Symposium 4
Epigenomic regulation of
gene expression
P.28
Symposium 5
Regulating embryonic development and
organogenesis: variations and underlying
common principles
P.28
Symposium 6
Superresolution fluorescence
imaging of cellular functions
P.29
Broad casting (Symposium 6)
16:10
19:10
19:10
Poster Session 3
Odd 14:00-15:00
Even 15:00-16:00
P.72
Poster Viewing
Removal
Poster Session 3
Odd 14:00-15:00
Even 15:00-16:00
P.72
Poster Viewing
Removal

Poster Sessions at a glance

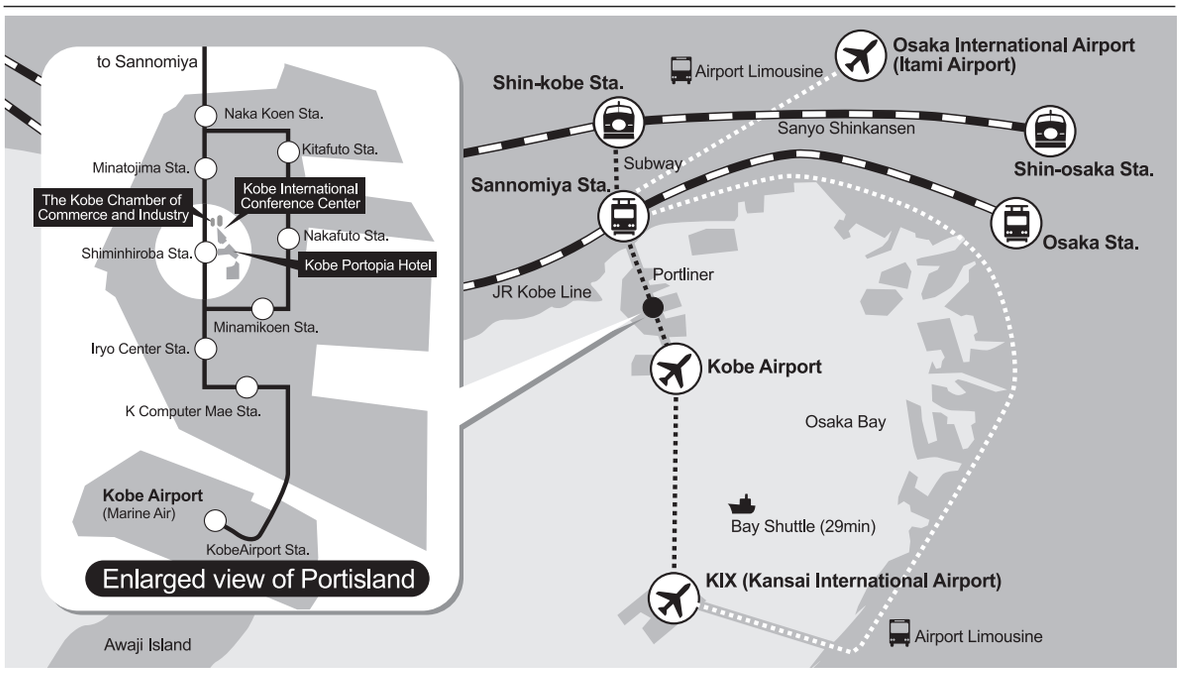
Place: The Kobe Chamber of Commerce and Industry (See page 16 for panel layout)
2F Event Hall: P-001 - P-096
3F Shinsho Hall: P-097 - P-204
Time for Discussion: Odd numbers 14:00-15:00 (14:10-15:10 on May 29)
Even numbers 15:00-16:00 (15:10-16:10 on May 29)

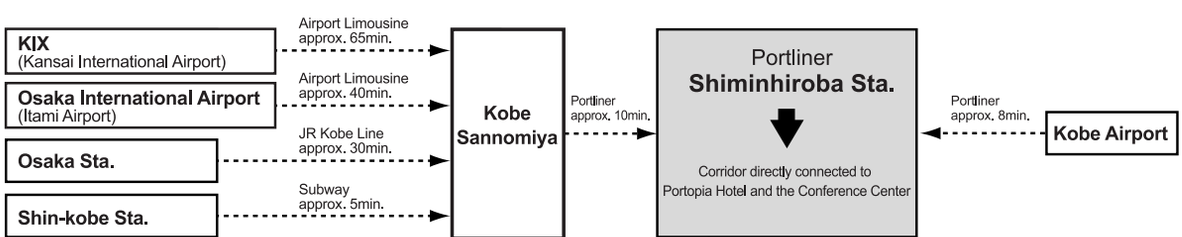
Category	May 29 (Tue)		May 30 (Wed)		May 31 (Thu)	
	Presentation Number	Page	Presentation Number	Page	Presentation Number	Page
Joint Poster Session	P1-001 ～ P1-190	P.45				
Intracellular trafficking / Organelles / Life of Proteins			P2-001 ～ P2-055	P.58		
Cell polarity / Cytoskeletons / Cell migration / Cell motility			P2-056 ～ P2-100	P.61		
Cell-Cell interaction / Cell adhesion / Extracellular matrix			P2-101 ～ P2-121	P.64		
Systems biology			P2-122 ～ P2-132	P.65		
Organogenesis / Body axis formation			P2-133 ～ P2-173	P.66		
Neural function and development			P2-174 ～ P2-204	P.69		
Signal transduction / Cell proliferation / Differentiation / Cell death / Cell nucleus / Chromosome					P3-001 ～ P3-058	P.72
Regeneration / Gametogenesis / Stem cells					P3-059 ～ P3-095	P.75
Gene expression and Epigenetics					P3-096 ～ P3-113	P.78
High-technology and Bioimaging					P3-114 ～ P3-126	P.79
Evolution / Diversity / Early development / Morphogen					P3-127 ～ P3-154	P.80
Multicellular construction and Morphogenesis					P3-155 ～ P3-182	P.82

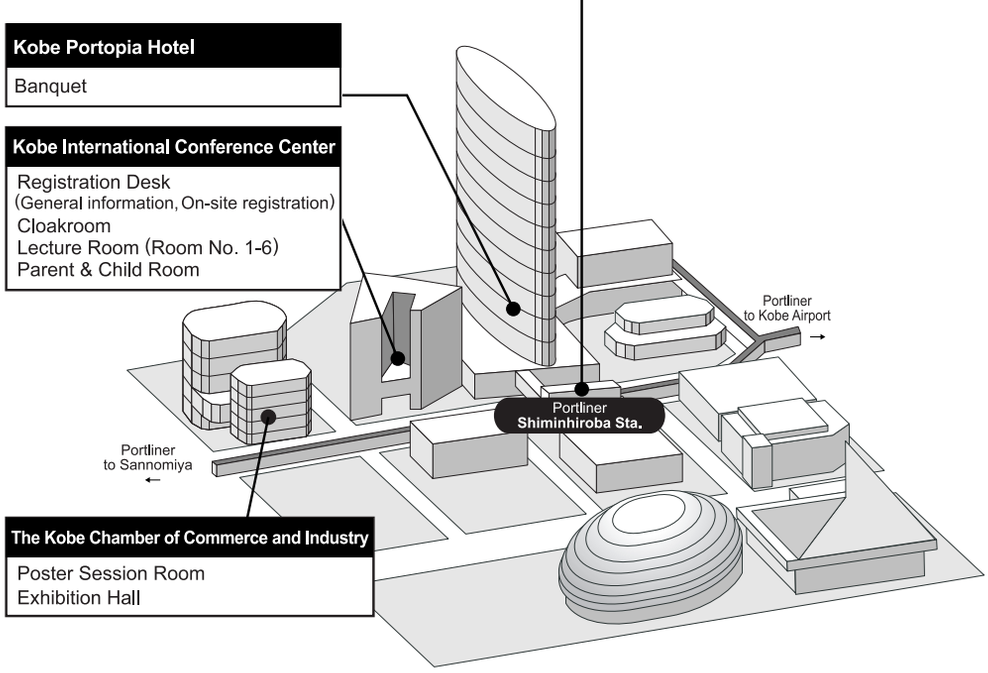
Access & Floor plan

Kobe International Conference Center（6-9-1 Minatojima-nakamachi, Chuo-ku, Kobe 650-0046, Japan）
The Kobe Chamber of Commerce and Industry（6-1 Minatojima-nakamachi, Chuo-ku Kobe 650-8543, Japan）

Access

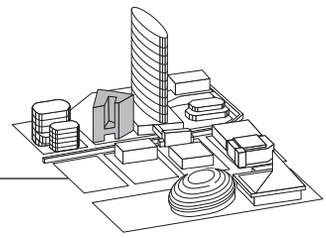


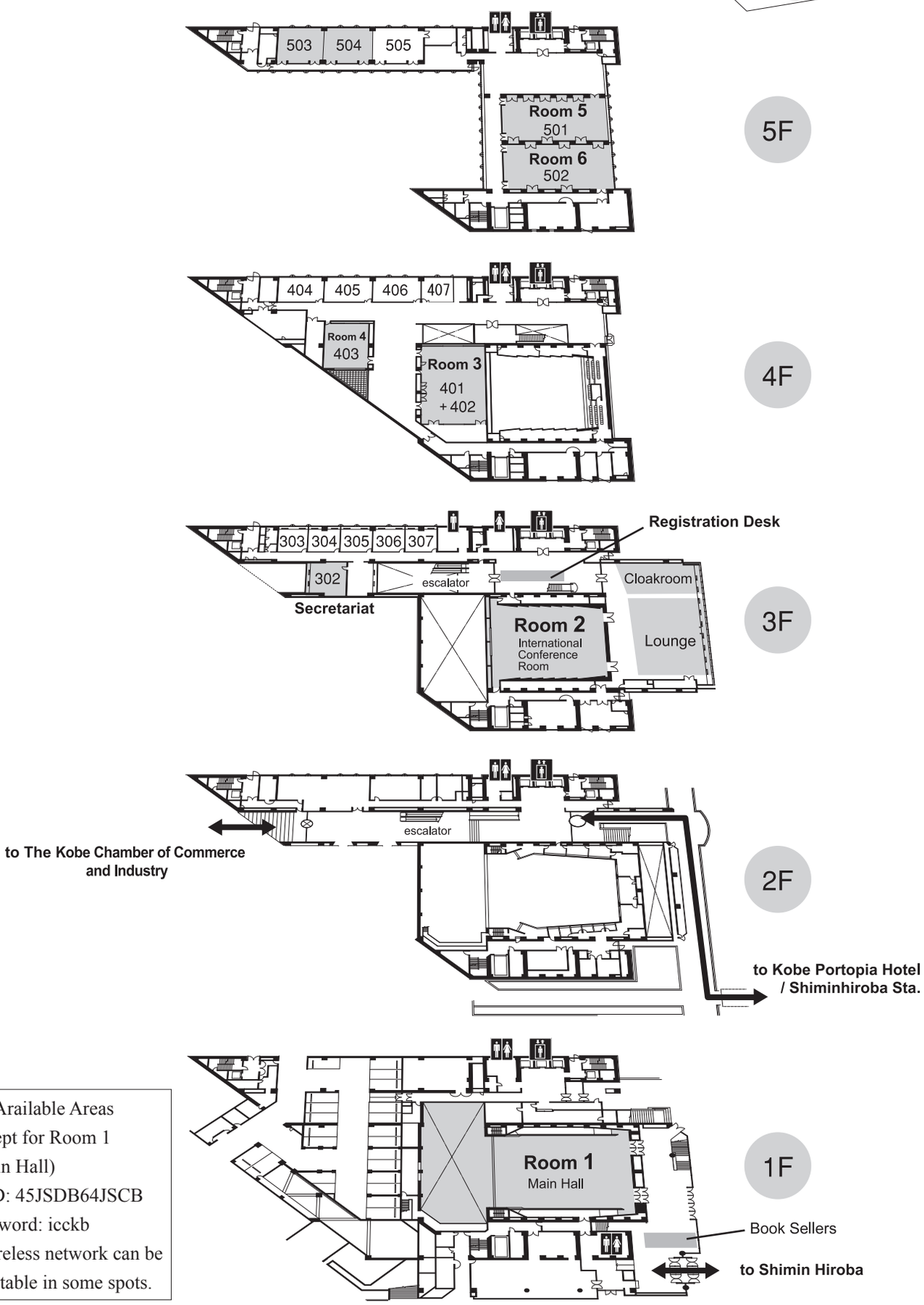




Floor plan

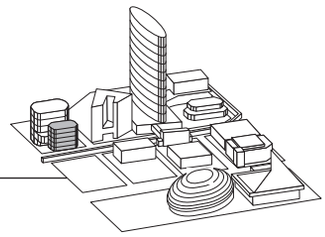
Kobe International Conference Center





Wi-Fi Arailable Areas
- Except for Room 1
  (Main Hall)
  SSID: 45JSDB64JSCB
  Password: icckb
  *Wireless network can be
  unstable in some spots.

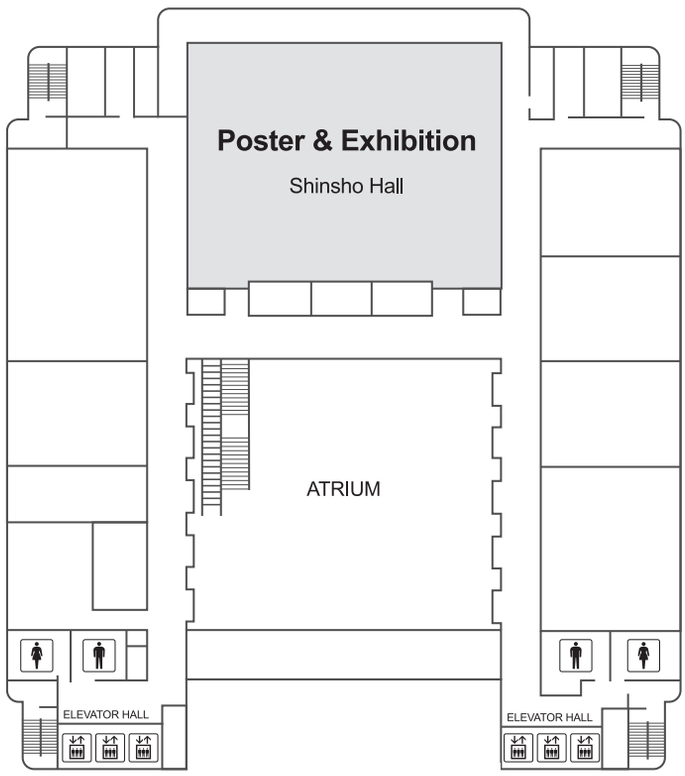
The Kobe Chamber of Commerce and Industry



3F

Shinsho Hall

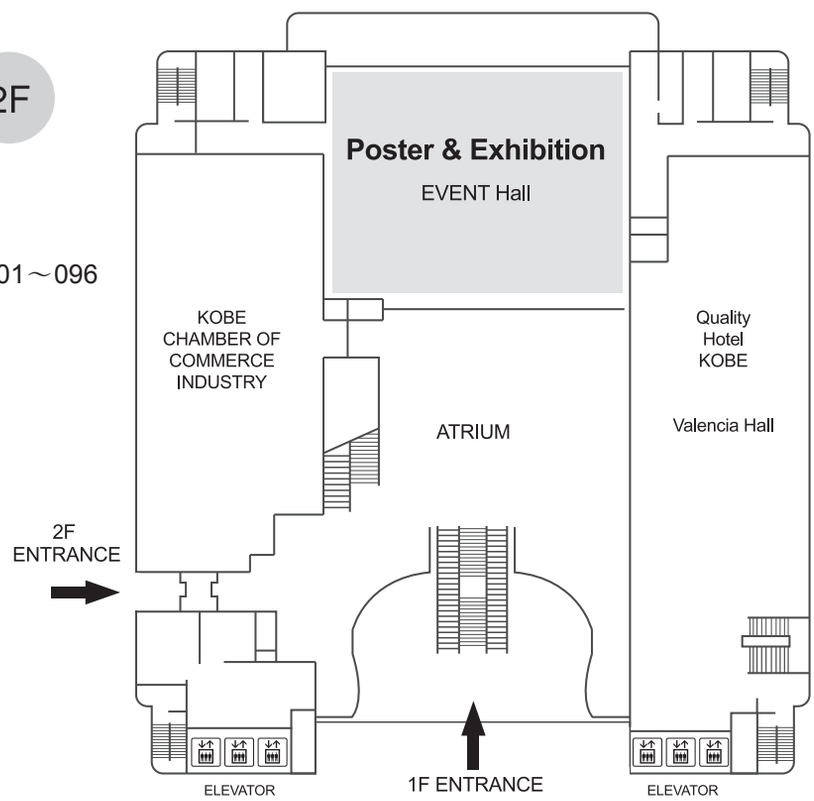
Poster No.：097～204



2F

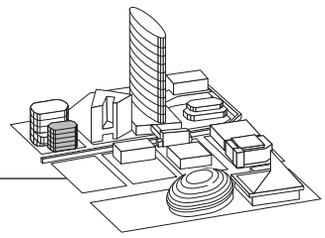
Event Hall

Poster No.：001～096

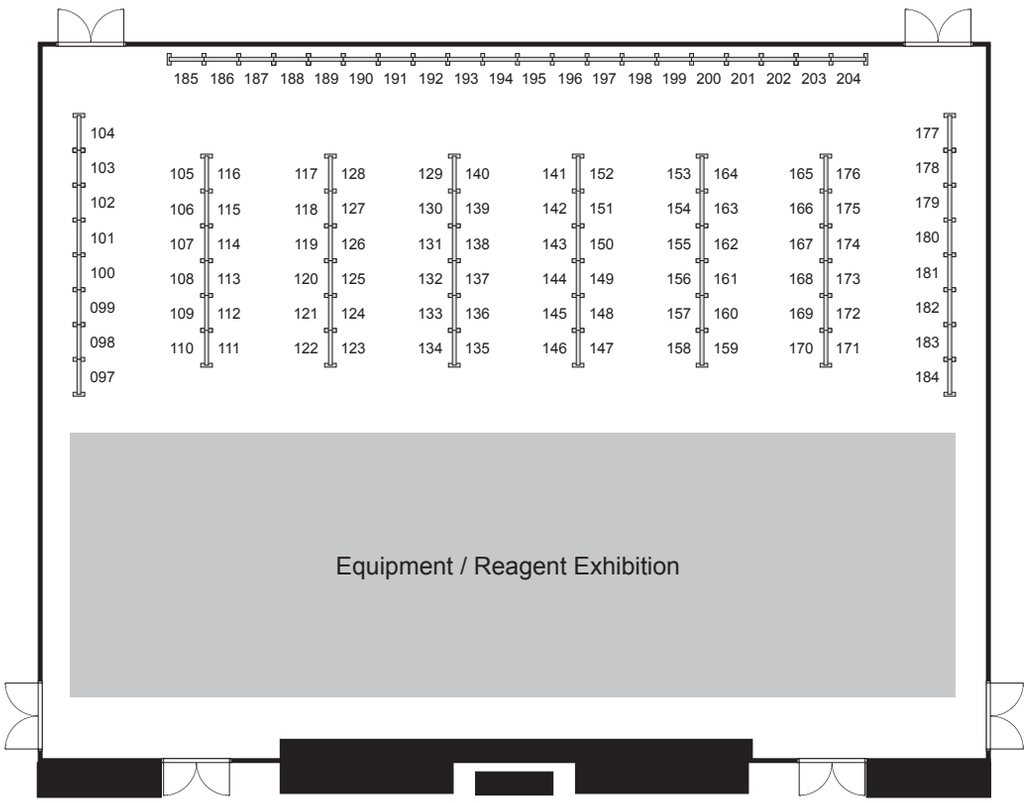


Poster & Exhibition

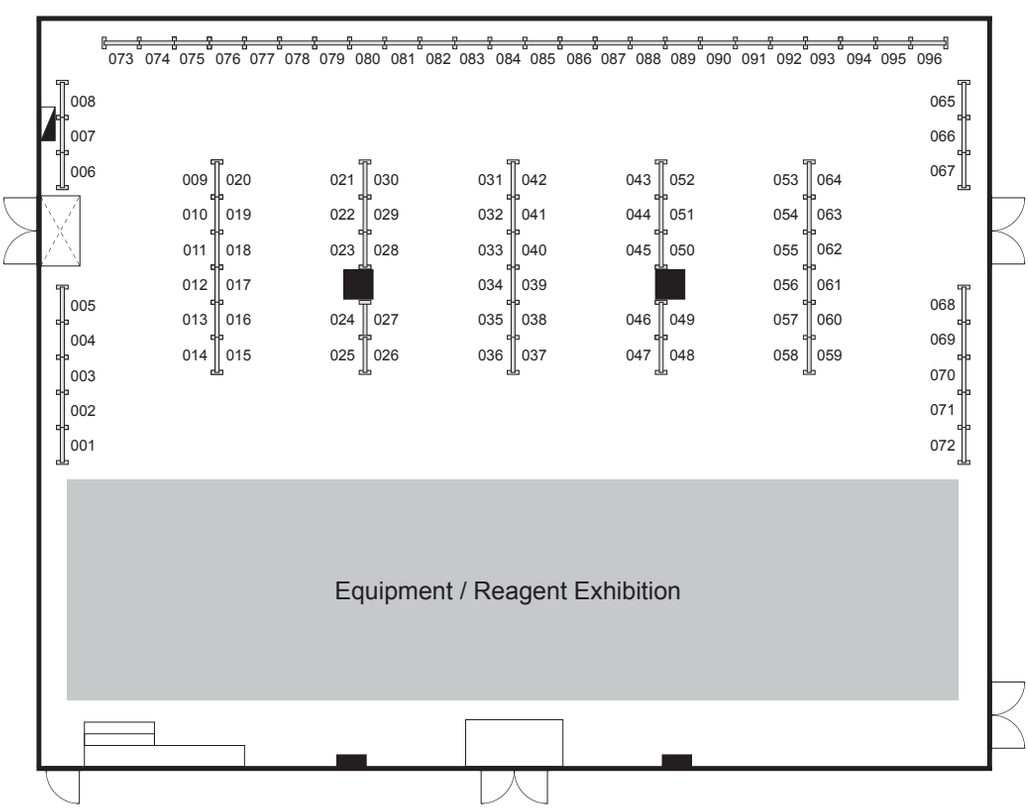
The Kobe Chamber of Commerce and Industry



3F Shinsho Hall



2F Event Hall



Information for Participants

1. Registration Procedure

◆ Registration

On-site registration is available at Entrance Hall in Kobe international Conference Center 3F from 14:30 on May 28th (Mon).

Participants who have already completed advance registration with a full payment of the registration fee by the due date will receive a name badge in advance, thus do not need to stop by at the Registration Desk. Please be sure to wear your name badge when entering the meeting site.

As advance registration was canceled automatically in case you did not pay by the due date, please register as on-site registration at the meeting site.

*Participants from Overseas & Foreign residents in Japan who have completed advance registration: Please receive your name badge at the Registration Desk.

◆ Registration Desk

Location: Entrance Hall at Kobe international Conference Center 3F

Open Hours: 8:30-17:00 (14:00-17:30 on May 28th)

Service: On-site registration, General information, JSDB membership registration, JSCB membership registration

◆ On-site registration fee・Banquet fee

Category		Registration fee	Banquet fee	Program & Abstracts booklet
Member	Regular	JPY 8,000	JPY 8,000	Included in annual membership fee
	Student	JPY 5,000	JPY 4,000	
Non-member	Regular	JPY 10,000	JPY 8,000	JPY 3,000
	Student	JPY 6,000	JPY 5,000	
Student (Undergraduate)		Free (Student ID required)	JPY 4,000	

※ Cash payment only.

※ Registration fee will be waived for student(undergraduate). Please show your student ID at the Registration Desk.

◆ Name badge

Please be sure to wear your name badge showing your name and affiliation while you are at the meeting site.

No entry without name badge is acceptable.

◆ Banquet

Banquet will be held as follows. On-site registration will be welcomed.

Date & time: May 30th (Wed) [Day 2] 19:30-21:30

Venue: The Kobe Portopia Hotel　B1F　Kairaku

Capacity: 400 persons

◆ Program & Abstracts Booklet

Program & Abstracts booklet have been sent to JSDB・JSCB members in advance.

If you wish to purchase it, it is available for JPY3,000/booklet at the Registration Desk.

2. Luncheon Seminar

Lunch tickets will be needed to receive lunch service at Luncheon seminars due to the limited number of lunch. Please exchange the exchange tickets attached to the name badge for a lunch ticket of the seminar you wish to attend.
The lunch tickets will be distributed at the luncheon Seminar Desk below.

Luncheon Seminar Desk
Place: Entrance Hall at Kobe International Conference Center 3F
Date & Time: May 29 (Tue), 30 (Wed), 31(Thu) 8:30-11:00
*Tickets for the seminars held on the day only.

*Lunch at the seminar is provided by cosponsoring companies and groups.
Please note that the number of lunch differs depending on the seminars and distribution of lunch tickets will be finished as all the tickets are distributed.

◆ Attention

The lunch tickets are invalid after the starting time of the seminars (12:10 on 29 (Tue), 12:00 on 30 (Wed) and 31(Thu)). Please arrive at the seminar room before the starting time of the seminars. Please be advised that if you do not show up by then, lunch will be provided to those who are attending the seminar without lunch tickets.

◆ Attending luncheon Seminar after the lunch ticket distribution

Please bring the exchange ticket directly to the seminar room. Please note that there will be no lunch provided in this case. (Lunch will be provided if there is any left.)

3. Commercial Exhibition - Exhibition of Machineries, Reagents, Publications

Exhibition will be held as follows.
Date: Day 1 (May 29th (Tue)) - Day 3 (May 31st (Thu))
Time: 9:00-17:00 (9:00-16:00 on May 31st)
Place: Exhibition Hall (The Kobe Chamber of Commerce and Industry, Event Hall(2F) & Shinsho Hall (3F))

4. Services & Facilities

◆ Paging service・Bulletin board

No paging service is available except for an emergency. Please use bulletin board located around the Registration Desk in order to communicate with the other participants.

◆ Cloakrooms

Cloakrooms are available at the following location. No valuable or computer can be checked in to the cloak since the meeting does not hold any responsibility for any loss or damage of your items.
Open Hours: 8:00-19:30 (14:00-19:30 on May 28th)
Location: Kobe International Conference Center 3F, Lounge

◆ Internet

Wi-Fi is available at the meeting site for you to use your own laptop.
Please see page 14 for Wi-Fi available area at the meeting site.
・Kobe International Conference Center
SSID: 45JSDB64JSCB Password: icckb

◆ **Parking**

Participants are encouraged to use public transportation due to heavy traffic and limited number of the parking lots during the meeting.

5. Participants with children

Day nursery by a babysitting company will be located at the meeting site. (charged service, advance application needed)

For further information, please refer to the following website.

http://www.aeplan.co.jp/jsdb-jscb2012/nursery.html

6. Prohibitions

◆ **Photography・Recording**

No photography and recording with camera, video, cellphone or any devise is allowed at the lecture, presentation and poster rooms.

◆ **Cellphone**

Talking on the cellphone in the lecture and presentation rooms is not allowed. Please set your cellphone on the silent mode and make sure it will not make a noise during the lecture/presentation.

◆ **Smoking**

Smoking is prohibited in all area except for the separate smoking spots. The smoking spots are prepared at each building.

Instruction to Chairs and Presenters

1. For Organizers/Chairs

◆ Arrival

Please come to the "Time keeper's desk" at the right-front of the room and let the staff know by 15 minutes before the starting time.

◆ Process and Timing

The organizers/ Chairs are expected to ensure that all presentations start and finish punctually as scheduled.

＜ Plenary Lecture/ Joint Keynote Symposium/ Symposium/ Workshop ＞

Please note that presentation time and discussion time vary depending on presentations.

＜ Joint Workshop/ Poster Flash Talk/ Joint Young Scientist Session ＞

Time allocation for each presentation is as follows. Staff will assist with timing by bell signal.

	Total	Presentation	Discussion	1 ring (2 min. left to the end of presentation)	2 rings (End of presentation)	3 rings (End of discussion)
Joint Workshop	15	12	3	10 min. passed	12 min. passed	15 min. passed
Poster Flash Talk	5	5	0	4 min. passed	5 min. passed	–
Joint Young Scientist Session	10	7	3	5 min. passed	7 min. passed	10 min. passed

2. For Oral Presenters

◆ Language of presentation

All the program will be in English. Please prepare your slides (Power Point) and posters in English.

However, only oral presentation at Joint Young Scientist Session will be in Japanese. *Poster presentation will be in English.

◆ Presentation time

＜ Plenary Lecture/ Joint Keynote Symposium/ Symposium/ Workshop ＞

Please note that presentation time and discussion time vary depending on presentations.

＜ Joint Workshop/ Poster Flash Talk/ Joint Young Scientist Session ＞

Time allocation for each presentation is as above chart. Staff will assist with timing by bell signal.

◆ Presentation Method

Projector (connected to a laptop) will be used for presentations. Please note that no slides or OHP are prepared. Your own laptop and data (USB flash memory or CD-R) are available.

If you bring your own laptop, please see the following "Technical Requirements for your laptop".

◆ **Preview**

Please come to the “Preview desk” at the left-front of the room with your laptop or data (USB flash memory or CD-R).

【Technical Requirements for your laptop】

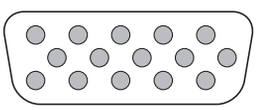
① Ensure that your computer is equipped with the proper monitor connector (mini D-sub 15 pin) as shown below. If your computer does not have this connection, please bring an appropriate converter with you.

② Be sure to bring an AC adaptor. Please note that voltage in Japan is 100V and the frequency ranges 50-60 Hz depending on the area (60 Hz in Kobe). The socket is type A, which has two flat plug holes. If your laptop is not convertible, transformers and/or plug adaptors are necessary.

③ **Set up your laptop not to show screensaver or be on the power saving mode.**

④ Adjust screen resolution to 1024 × 768 pixel (XGA).

⑤ Monitor, computer mouse, and slide operating switch will be prepared on the podium for you to operate by yourself.



Mini D-sub 15 pins

Monitor Connector

3. For Poster Presenters

◆ **Poster session room**

The Kobe Chamber of Commerce and Industry, Event Hall (2F) & Shinsho Hall (3F)

◆ **Periods of poster displayed**

Each poster will be posted for one day. Please set up your poster in the morning of your presentation day and also remove it by yourself. The secretariat will not remove, store or return.

◆ **Posting, presentation, discussion, removal**

Please stand by your poster and respond to questions and discuss during the presentation and discussion time. Please wear a yellow ribbon indicating a poster presenter on your chest.

Date		May 29 (Tue) [Day 1]	May 30 (Wed) [Day 2] / 31 (Thu) [Day 3]
Posting		8：00 ～ 9：00	
Presentation & Discussion	Odd Number	14：10 ～ 15：10	14：00 ～ 15：00
	Even Number	15：10 ～ 16：10	15：00 ～ 16：00
Removal		19：20 ～ 19：30	19：10 ～ 19：30

◆ **Posting information**

① Location

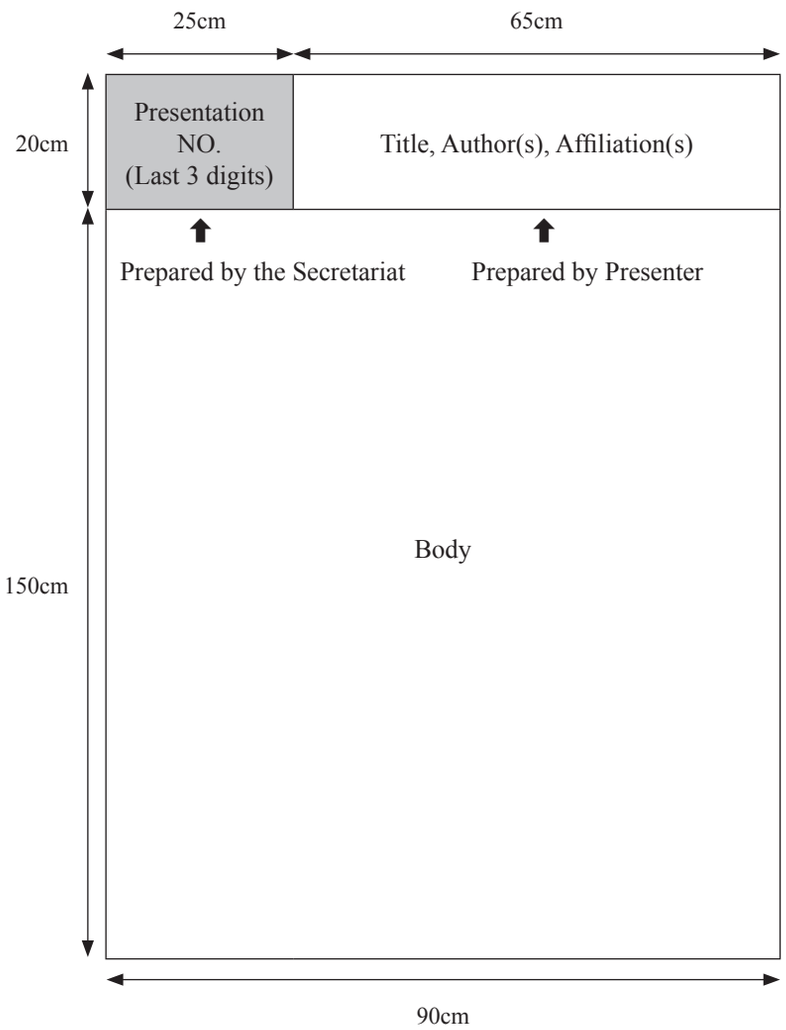
The last 3-digit presentation number is on the upper left of each panel. Please use the panel that matches your presentation number. Push pins are prepared at each panel. Please refer to the Poster session room layout (on page 16) to find your panel.

② Panel size

Each panel space available is 90cm wide x 150cm high. Please indicate your presentation title, author(s), and affiliation(s) on top of the poster.

③ Language

Poster must be made in English. Presentation and discussion will be in English as well.



Luncheon Workshop on Gender Equality and nurture of young scientist

日本発生生物学会第４５回大会・日本細胞生物学会第６４回大会合同大会

男女共同参画・若手研究者育成ランチョンワークショップ

The 45th JSDB & The 64th JSCB Joint Meeting

Gender equality and nurture of young scientist workshop

５月２９日（火）12:10-13:00 第３会場（神戸国際会議場４階 401+402）

「研究者のキャリアパス」

話題提供：

工樂　樹洋（理研 CDB）

「ドイツで見た桜－キャリアを創っていくということ」

玉井　馨子（第一三共株式会社）

「Academia or Industry?（Planned Happenstance のすすめ）」

司会：斉藤典子（熊本大学・発生研）・小柴―竹内　和子（東京大学・分生研）

生命科学分野の若手研究者における就職活動は、依然として厳しい状況にあり、学位を取り、留学してもポジションが見つからないために帰国することができない、またそのために若手研究者は留学することをためらうというような負の連鎖が生じています。しかし、留学に限らず、研究生活で得られた経験は、アカデミックだけでなく企業や海外でも活かせるのではないでしょうか。海外で独立することはチャレンジングで、言葉や習慣の違いなどの障壁もありますが、多くのメリットも存在するはずで、実際、最近は海外で研究室を主宰（PI）し、活躍している日本人研究者が増えています。本ワークショップではドイツで PI を経験されたのちに理研の PI になられた工樂博士と、アメリカで PI を経験されたのち企業に就職された玉井博士をお招きし、アメリカとヨーロッパのラボ運営が日本とどう違うか、また玉井博士には企業とアカデミックとの違いなどについてお話いただく予定です。これから留学や就職を考えている若手研究者、その指導教官の方々にはぜひ参加していただき、将来を考える際の参考になればと思っております。ランチ付き、日本語ですので、多くの方々のご参加をお待ちしております。

主催：日本細胞生物学会男女共同参画推進・若手研究者育成委員会
　　日本発生生物学会男女共同参画 WG

Program

Plenary Lectures

Plenary Lecture 1

May 29 (Tue) 13:15-14:00 Room 1 (Main Hall)
Organizer : Akihiro Harada (Osaka Univ.)

13:15 **PL1** **Intracellular Transport and Kinesin Superfamily Proteins: Key Regulators for Neuronal Function and Development**
○Nobutaka Hirokawa (Dept. of Cell Biol. and Anat., Grad. Sch. of Med., Univ. of Tokyo)
P.93

Plenary Lecture 2

May 31 (Thu) 13:00-13:45 Room 1 (Main Hall)
Organizer : Yoshiko Takahashi (Kyoto Univ.)

13:00 **PL2** **Cell-cell adhesion: an interface between cell and developmental biology**
○Masatoshi Takeichi (RIKEN Center for Developmental Biology)
P.93

Joint Keynote Symposium

Joint Keynote Symposium

May 29 (Tue) 9:00-11:00 Room 1 (Main Hall)
Organizers : Yoshiko Takahashi (Kyoto Univ.), Tamotsu Yoshimori (Osaka Univ.)

9:00 **JKS-1** **Navigating the cellular landscape with new optical probes, imaging strategies and technical innovations**
○Jennifer Lippincott-Schwartz (Cell Biology and Metabolism Program, NICHD, NIH, Bethesda, MD)
P.94

9:30 **JKS-2** **Developmental patterning of the vertebrate body axis.**
○Olivier Pourquié (Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC), CNRS (UMR 7104), Inserm U964, Université de Strasbourg, Illkirch. F-67400, France)
P.94

10:00 **JKS-3** **Exposure of phosphatidylserine to the cell surface**
○Shigekazu Nagata (Dept. Medical Chemistry, Grad. School Med., Kyoto Univ.)
P.95

10:30 **JKS-4** **Alveolar Stem Cells in Lung Development, Maintenance, and Cancer**
Tushar Desai[1], ○Mark A. Krasnow[2] ([1]Department of Biochemistry & Department of Medicine, Stanford University School of Medicine, [2]Department of Biochemistry and Howard Hughes Medical Institute, Stanford University School of Medicine, Stanford CA 94305-5307 USA)
P.95

Symposia

Symposium 1　Cellular dynamics and Morphogenesis

Dynamic morphogenesis of various organisms can ultimately be attributed to the behavior of individual cells. To understand complex behaviors of cells that changes their shape and function drastically and migrate distantly during development, we need to consider extracellular environments surrounding cells including force field, in addition to cell polarity control and cytoskeltal regulation that are included within cells. Furthermore, the logic behind the higher order event collective cell behavior in which a group of cells is highly coordinated to achieve complex morphogenesis also needs to be considered. We organize this symposium inviting two leading scientists in the field from abroad and six young Japanese scholars who use various model systems and organisms and aim to expand this emerging filed bridging cell biology and developmental biology.

May 30 (Wed)　16:10-19:10　Room 1 (Main Hall)

Organizers :　Naoto Ueno (Natl. Inst. for Basic Biol.),　Shigenobu Yonemura (RIKEN, CDB)

16:10 **S1-1** **Emerging modes of collective cell behaviors under physical contraints**
○Benoit Ladoux[1], Ester Anon[2,3], Xavier Trepat[3], SRK Vedula[4], Man Chun Leong[4], Chwee Teck Lim[4] ([1]Mechanobiology Institute (Singapore) and University Paris Diderot (France), [2]Universite Paris Diderot, France, [3]IBEC, Spain, [4]Mechanobiology Institute, NUS, Singapore) P.96

16:40 **S1-2** **Regulation of actin filament-binding ability of α-catenin is crucial for remodeling of adherens junctions.**
○Hanako Hayashi, Shigenobu Yonemura (Inst. of Dev. Biol., RIKEN) P.96

17:00 **S1-3** **Role of somitic filopodia in the collective morphogenesis of paraxial tissues**
○Yuki Sato, Kei Nagatoshi (Priority Organization for Innovation and Excellence, Kumamoto Univ.) P.96

17:20 **S1-4** **Mitochondria-driven cell elongation mechanism for sperm morphogenesis**
○Tatsuhiko Noguchi[1], Michiko Koizumi[2], Shigeo Hayashi[3] ([1]Nat. Def. Med. Col., [2]Inst. of Med. Sci., Univ. of Tokyo, [3]Riken, CDB) P.96

17:40 **S1-5** **Ca^{2+} signaling and membrane trafficking mediate neuronal growth cone guidance**
○Takuro Tojima[1,2], Rurika Itofusa[1], Hiroyuki Kamiguchi[1] ([1]Lab. for Neuronal Growth Mechanisms, RIKEN Brain Science Institute, [2]PRESTO, Japan Science and Technology Agency) P.97

18:00 **S1-6** **The role of intracellular calcium signaling in apical constriction during *Xenopus* neural tube closure**
○Makoto Suzuki[1], Yusuke Hara[1], Masanao Sato[2], Takeharu Nagai[3], Robert E. Campbell[4], Naoto Ueno[1] ([1]Div. of Morpho., NIBB, [2]Div. of Dev. Genet., NIBB, [3]Hokkaido Univ., [4]Uni. of Alberta) P.97

18:20 **S1-7** **Role and mode of action of nectins in the mosaic cellular patterning in sensory organs.**
○Hideru Togashi, Yoshimi Takai (Div. Mol. Cell. Biol., Dept. Biochem. and Mol. Biol., Kobe Univ. Grad. Sch. Med.) P.97

18:40 **S1-8** **Cell and tissue mechanics in zebrafish gastrulation**
○Carl-Philipp Heisenberg (Institute of Science and Technology Austria, Klosterneuburg, Austria) P.97

Symposium 2　Frontiers in intracellular transport and organelle biology

Eukaryotic cells contain many different intracellular compartments termed organelles, each of which plays specific and essential roles in the cellular function. In order to perform and maintain specific cellular functions, each organelle imports its own distinct molecules and exports a variety of molecules to the other compartment through various intracellular transport systems. Organelles should be correctly reproduced during the cell proliferation to maintain cellular homeostasis. Thus intracellular transport and organelle biogenesis are closely related and intimately connected with each other. Furthermore, recent studies have shown that they are important for some developmental or differentiation processes of living organisms. In this symposium, we will invite leading scientists to present and share the new findings about intracellular transport, proteostasis, and organelle biogenesis, and will discuss the recent progress and the future directions of this field.

May 30 (Wed) 16:10-19:10 Room 2 (International Conference Room)
Organizers : Kenji Kohno (NAIST), Mitsunori Fukuda (Tohoku Univ.)

16:10 **Introduction**
Kenji Kohno (NAIST)

16:13 **S2-1** **Membrane aberrancy and unfolded proteins activate the endoplasmic reticulum-stress sensor Ire1 by different manners.**
Yuki Kimata-Ishiwata, Kenji Kohno, ○Yukio Kimata (Grad. Schl. Biol. Sci, Nara Inst. Schi. Tech.) P.98

16:35 **S2-2** **Protein homeostasis through quality control pathways in mammalian cells**
○Kazuhiro Nagata (Faculty of Life Sciences, Kyoto Sangyo University) P.98

17:00 **S2-3** **ER homeostasis and vesicle trafficking for the olfactory wiring specificity in *Drosophila***
○Takahiro Chihara[1,2], Sayaka Sekine[1], Chisako Sakuma[1], Liqun Luo[4], Masayuki Miura[1,3] ([1]Dept Genetics, Grad Sch Pharm Sci, Univ of Tokyo, [2]PRESTO, JST, [3]CREST, JST, [4]HHMI and Dept Biol, Stanford, USA) P.98

17:25 **S2-4** **Rab small GTPases regulate neurite outgrowth and dendritic morphogenesis**
○Mitsunori Fukuda (Dept. of Dev. Biol. and Neurosci., Grad. Sch. of Life Sci., Tohoku Univ.) P.98

17:50 **S2-5** **An ARF6 / Rab35 GTPase cascade for endocytic recycling and successful cytokinesis**
Laurent Chesneau[1], Daphne Dambournet[1], Mickael Machicoane[1], Ilektra Kouranti[1], Mitsunori Fukuda[2], Bruno Goud[3], ○Arnaud Echard[1] ([1]Institut PASTEUR, Membrane Traffic and Cell Division Lab. CNRS URA2582, [2]Laboratory of Membrane Trafficking Mechanisms, Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University, Japan., [3]Institut Curie, Molecular Mechanisms of Intracellular Transport Lab, Paris, France) P.99

18:20 **S2-6** **Molecular mechanism of autophagosome formation and maturation**
○Noboru Mizushima (Dep. of Physiol. Cell Biol., Tokyo Med. & Dent. Univ.) P.99

18:45 **S2-7** **Degradation of paternal mitochondria by fertilization-triggered autophagy in *C. elegans* embryos**
○Miyuki Sato, Ken Sato (IMCR, Gunma University) P.99

Symposium 3 Intrinsic and extrinsic control of stem cell systems

Over the last decade, stem biology has made substantial progress in many aspects. In particular, differentiation control by transcription factor networks has been advanced both in differentiation and dedifferentiation directions. As an extension of this trend, more and more types of cells are generated by forced expression (or inactivation) of a defined set of genes, Transdifferentiation may be further extended towards in vivo conversion of cell lineages in the near future. In addition to these studies on intrinsic controls, a growing body of intriguing studies reveals the dynamic nature of environmental interactions of stem cell systems. In this symposium, we invite several experts in this field and discuss the future directions of cross-talks between intrinsic and extrinsic controls in dynamic stem cell systems. The topics includes stem cell niche, extrinsic signals, local dynamism of stem cell localization, mathematical analysis, self-organization and transdifferentiation.

May 30 (Wed) 16:10-19:10 Room 3 (401+402)
Organizers : Yoshiki Sasai (RIKEN, CDB), Shosei Yoshida (Natl. Inst. for Basic Biol.)

16:10 **S3-1** **Spermatogenic Stem cells: their behavior and functionality in the mouse testis**
○Shosei Yoshida[1,2], Kenshiro Hara[1,2], Yu Kitadate[1,2] ([1]Div. Germ Cell Biology, National Institute for Basic Biology, [2]SOKENDAI) P.100

16:40 **S3-2** **Stem cell loss and replacement in adult tissue homeostasis**
○Allon M. Klein (Dept. of Systems Biology, Harvard Medical School) P.100

17:10 **S3-3** **Mechanism and reconstitution in vitro of germ cell specification in mice**
Mitinori Saitou[1,3,4,5], ○Katsuhiko Hayashi[1,2,5] ([1]Dept. of Anat. Cell Biol., Grad. Sch. of Med., Kyoto Univ., [2]JST, PRESTO, [3]JST, ERATO, [4]iCeMS, Kyoto Univ., [5]CiRA, Kyoto Univ.) P.100

17:40 **S3-4** **Directed cell fate reprogramming of fibroblasts to hepatocytes by defined factors**
○Atsushi Suzuki[1,2,3] ([1]Div. of Organogenesis and Regeneration, MIB, Kyushu Univ., [2]CREST, JST, [3]PRESTO, JST) P.100

18:10 **S3-5** **Development of Gut Stem Cell Culture**
○Toshiro Sato (Department of Gastroenterology, Keio University School of Medicine) P.101

18:40 **S3-6** **Self-organized formation of optic cup in vitro**
○Mototsugu Eiraku, Yoshiki Sasai (RIKEN, Center for Developmental Biology) P.101

Symposium 4 Epigenomic regulation of gene expression

A change in the state of gene expression that does not involve a mutation but is nevertheless inherited is referred to as an 'epigenetic' change. This often involves a change in the state of chromatin. Chromatin regulates gene expression by its ability to selectively expose or hide DNA sequences from trans-acting factors such as transcriptional activators and repressors. Chromatin can exist in two distinct states that have differential modes of histone and DNA modifications: euchromatin, which is active in transcription, and heterochromatin, which preferentially targets repetitive DNA elements in the genome and governs diverse processes including suppression of transcription and transposon silencing as well as suppression of illegitimate recombination. The mechanisms that define repetitive DNA sequences as preferred sites of heterochromatin formation involve the RNA interference (RNAi) machinery and/or sequence-specific DNA-binding proteins. The RNAi machinery also sets a stringent threshold for consequential transcriptional activity, which can help to quiet stochastic cell-to-cell noise during developmental fate decisions. The aim of this symposium is to bring together key researchers working on epigenetic changes in gene expression at multiple levels, with a specific goal of considering how epigenetic changes are passed to the next generation.

May 31 (Thu) 16:10-19:10 Room 1 (Main Hall)
Organizers : Hiroyuki Sasaki (Kyushu Univ.), Haruhiko Siomi (Keio Univ.)

16:10 **S4-1** **Small RNA-mediated silencing of transposable elements in the Drosophila ovary**
Opening Remark ○Haruhiko Siomi (Depertment of Molecular Biology Keio University School of Medicine) P.101

16:40 **S4-2** **Small RNA-mediated epigenetic regulation of DNA elimination in Tetrahymena**
○Kazufumi Mochizuki (Inst. Mol. Biotech. of the Austrian Academy of Sciences (IMBA)) P.101

17:10 **S4-3** **Role of ATF-2 family transcription factors in inheritance of epigenetic change induced by stress**
○Shunsuke Ishii (Lab. of Molec. Genet., RIKEN Tsukuba Inst.) P.102

17:40 **S4-4** **Developmental dynamics of X-chromosome inactivation in peri-implantation mouse embryos**
○Ikuhiro Okamoto, Edith Heard (Inst. Curie) P.102

18:10 **S4-5** **Allelic regulation of pluripotency-associated transcription factors**
Yusuke Miyanari, ○Maria-Elena Torres-Padilla (IGBMC, Strasbourg, France) P.102

18:40 **S4-6** **Genomic imprinting, DNA methylation and small RNA in mouse germ cells**
Closing Remark ○Hiroyuki Sasaki (Div. Epigenomics, Med. Inst. Bioreg., Kyushu Univ.) P.102

Symposium 5 Regulating embryonic development and organogenesis: variations and underlying common principles

Although embryonic development and tissue regeneration rely on basic principles common to animal species ranging from invertebrates to vertebrates, they adopt so variant strategies to realize the unique body plans of the species.
Speakers of this symposium will bring in subjects describing many interesting aspects of embryogenesis, organogenesis and tissue regeneration. The remarkable advances in developmental studies in the last decade no doubt depend on the most modern molecular and imaging technologies to manipulate live embryos and the gain of unprecedented new insights into active entities operating the cellular and tissue processes. The audience will witness how classical and fundamental problems are solved by using these modern tools.
This symposium also aims to refresh scientists' interest and admiration in the wonder and beauty of developmental processes. We also hope that the participants of this symposium, from students to PIs, will enjoy and learn modern theories and approaches to embryonic development and organogenesis.

May 31 (Thu) 16:10-19:10 Room 2 (International Conference Room)
Organizers : Hisato Kondoh (Osaka Univ.), Atsushi Kuroiwa (Nagoya Univ.)

16:10 **S5-1** **Elimination of unwanted neighbors by cell competition**
○Tatsushi Igaki[1,2] ([1]Div. of Cell Biol., G-COE, Kobe Univ. Grad. Sch. of Med., [2]PRESTO, JST) P.103

16:40 **S5-2** **Roles for maternally-localized PEM in ascidian germline development**
○Gaku Kumano, Takefumi Negishi, Naohito Takatori, Hiroki Nishida (Dept. of Biol. Sci., Grad. School of Sci., Osaka University) P.103

17:00 **S5-3** **Molecular basis of stem cell dynamics in animal regeneration: a lesson from the planarian *Dugesia japonica***
○Yoshihiko Umesono[1], Junichi Tasaki[2], Kazutaka Hosoda[2], Shigenobu Yazawa[2], Osamu Nishimura[2], Kiyokazu Agata[2] ([1]RIKEN CDB, [2]Grad. School of Science, Kyoto Univ.) P.103

17:20 **S5-4** **Regulation of axial stem cells deriving neural and mesodermal tissues**
○Tatsuya Takemoto, Hisato Kondoh (FBS, Osaka University) P.103

17:40 **S5-5** **Two modes of Notch signaling cooperate in epithelial patterning during lung organogenesis**
○Mitsuru Morimoto (Div. of Mam. Dev., Nat. Inst. of Gen) P.104

18:00 **S5-6** **Genetic control for neural circuit formation in teleost cerebellum**
○Masahiko Hibi[1,2], Miki Takeuchi[1], Ryo Kusuda[2], Chikako Inoue[1], Kouichi Shimizu[2], Kazuhide Asakawa[3], Koichi Kawakami[3], Shigenobu Yonemura[4], Takashi Shimizu[1,2] ([1]Biosci. Biotech. Ctr., Nagoya Univ., [2]Grad. Sch. Sci., Nagoya Univ., [3]Nat. Inst. Genet., [4]RIKEN CDB) P.104

18:20 **S5-7** **Apical fold morphogenesis and the origin of dermal bones in pectoral fin**
Tohru Yano, Hiroki Yoshihara, Hitoshi Yokoyama, ○Koji Tamura (Grad.e Sch. of Life Sci., Tohoku Univ.) P.104

18:40 **S5-8** **Evolution of the turtle shell from developmental perspectives**
○Shigeru Kuratani (RIKEN Center for Developmental Biology (CDB)) P.104

Symposium 6 Superresolution fluorescence imaging of cellular functions

The resolution of light microscope is theoretically limited to 200 nm by diffraction of the light. Recently, this diffraction limit has been overcome by utilizing the non-linear features of fluorescent molecules, and several different techniques have been shown to be applicable to the biological specimens. In this symposium, the experts for different superresolution techniques will present the basic principles of their techniques and the applications to cell biology.

May 31 (Thu) 16:10-19:10 Room 3 (401+402)
Organizers : Yasushi Okada (RIKEN, QBiC), Yoshie Harada (Kyoto Univ.)

16:10 **S6-1** **Superresolution Live Cell Imaging 2012**
Introduction ○Yasushi Okada (Lab Cell Polarity Regulation, Quantitative Biology Center (QBiC), RIKEN) P.105

16:35 **S6-2** **Pushing the Envelope in Biological Fluorescence Microscopy**
○Eric Betzig (Janelia Farm Research Campus) P.105

17:20 **S6-3** **Three-dimensional structured illumination imaging of chromosome structure in meiotic cells**
○Peter M. Carlton (iCeMS Institute, Kyoto University) P.105

17:45 **S6-4** **Three-Dimensional super-resolution measurement based on fusion technique using spectroscopy and optics**
○Yoshinori Iketaki[1,2], Nándor Bokor[2] ([1]PRESTO "Life Phenomena and Measurement Analysis", Japan Science and Technology Agency, [2]Olympus Co., Future Creation Laboratory, [3]Dept. Physics, Budapest University of Technology and Economics) P.105

18:10 **S6-5** **Resolution enhancement method focusing on usability and applicability for cell biology**
○Tomonobu Watanabe[1], Yoshikazu Tsukasaki[1], Hideaki Fujita[1], Taro Ichimura[1], Toshio Yanagida[1,2,3] ([1]RIKEN, QBiC, [2]Dev. of Frontier Biosci., Osaka Univ., [3]WPI, iFReC, Osaka Univ) P.106

18:35 **S6-6** **High-resolution confocal microscopy using saturated and nonlinear excitation**
○Katsumasa Fujita (Dept. of Appl. Phys., Osaka Univ.) P.106

19:00 **Discussion**
Yoshie Harada (Kyoto Univ.)

Joint Workshops

Joint Workshop A

May 29 (Tue) 16:20-19:20 Room 1 (Main Hall)
Organizers : Hiroyuki Takeda (The Univ. of Tokyo), Kazuo Emoto (OBI)

16:20 **JWS-A1** (P1-004)
D Tubule elongation and cell epithelialization are coordinately regulated by FGFs emanating from adjacent tissues
○Yuji Atsuta, Yoshiko Takahashi (Biosci., NAIST) P.107

16:35 **JWS-A2** (P1-016)
D Massively parallel regulation of head and non-head genes by Otx2, Lim1 and Gsc underlies the evolution of the head organizer in the chordate
○Yuuri Yasuoka[1], Yutaka Suzuki[2], Shuji Takahashi[3], Norihiro Sudou[1], Yoshikazu Haramoto[3,4], Yukiko Tandou[5], Kaoru Kubokawa[5,6], Ken W. Cho[7], Makoto Asashima[4], Sumio Sugano[2], Masanori Taira[1] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, [2]Dept. of Med. Gen. Sci., Grad. Sch. of Fro. Sci., Univ. of Tokyo, [3]CSLS, KOMEX, Univ. of Tokyo, [4]SCRC, AIST, [5]CAMR, ORI, Univ. of Tokyo, [6]MMBS, Grad. Sch. of Sci., Univ. of Tokyo, [7]Dept. of Dev. and Cell. Biol., and Dev. Biol. Center, UC Irvine) P.107

16:50 **JWS-A3** (P1-022)
D Heparan sulfate nanostructures regulate extracellular Wnt distribution and act as a core for Wnt/Dishevelled signalosome formation
○Yusuke Mii[1], Kenichi Nakazato[2], Chan-Gi Pack[3], Yasushi Sako[3], Atsushi Mochizuki[2], Masanori Taira[1] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, [2]Theor. Biol. Lab. RIKEN, [3]Cell. Inform. Lab. RIKEN) P.107

17:05 **JWS-A4** (P1-037)
C Tricellulin regulates epithelial cell shape by controlling actomyosin organization via a Cdc42GEF Tuba
○Yukako Oda[1], Tetsuhisa Otani[2], Junichi Ikenouchi[3], Mikio Furuse[1] ([1]Div. of Cell Biol., Grad. School of Med., Univ. of Kobe, [2]Lab. for Morphogenetic Signalling, RIKEN CDB, [3]Dept. of Synthetic Chem. and Biol. Chem., Grad. School of Engineering, Univ. of Kyoto) P.107

17:20 **JWS-A5** (P1-026)
D Transcriptional pulsing dynamics of genes with different functions
○Tetsuya Muramoto[1,2], Masahiro Ueda[1], Jonathan R Chubb[2,3] ([1]Laboratory for Cell Signaling Dynamics, Quantitative Biology Center, RIKEN, [2]Divisions of Cell and Developmental Biology, College of Life Sciences, University of Dundee, [3]Department of Cell and Developmental Biology and MRC Laboratory for Molecular Cell Biology, University College London) P.108

17:35 **JWS-A6** (P1-058)
C Mitochondrial dysfunction drives non-autonomous tumor progression in *Drosophila*
○Shizue Ohsawa[1], Yoshitaka Sato[1], Masato Enomoto[1], Mai Nakamura[1], Aya Betsumiya[1], Tatsushi Igaki[1,2] ([1]Dept. of Cell Biol., G-COE, Kobe Univ. Grad. Sch. of Med., [2]PRESTO, JST) P.108

17:50 **JWS-A7** (P1-076)
D Conserved role for the Dachshund protein with *Drosophila* Pax6 homolog Eyeless in insulin expression
○Naoki Okamoto, Takashi Nishimura (CDB, RIKEN Kobe Institute) P.108

18:05 **JWS-A8** (P1-079)
C Dynamic Organization of Paracrystalline Actin Bundles by IKKepsilon
○Tetsuhisa Otani[1], Takuya Maeda[1], Kazuyo Misaki[2], Shigenobu Yonemura[2], Shigeo Hayashi[1] ([1]RIKEN CDB, Lab for Morphogenetic Signaling, [2]RIKEN CDB, Electron microscope laboratory) P.108

18:20 **JWS-A9** (P1-082)
D Genome-wide view of transcriptional programs governing neuronal subtype-specific dendrite morphogenesis in vivo
○Yukako Hattori[1], Tadao Usui[1], Daisuke Satoh[1], Kohei Shimono[1], Takehiko Itoh[2], Katsuhiko Shirahige[3], Tadashi Uemura[1] ([1]Grad. Sch. of Biostudies, Kyoto Univ., [2]Grad. Sch. of Biosci. and Biotech., Tokyo Inst. of Tech., [3]Inst. of Mol. and Cell. Biosci., Univ. of Tokyo) P.109

18:35 **JWS-A10** (P1-084)
C Cortactin functions as a clutch molecule to promote axon outgrowth
○Yusuke Kubo[1], Michinori Toriyama[1], Tadao Sugiura[2], Naoyuki Inagaki[1] ([1]Grad. School of Biol. Sci., Nara Inst. of Sci. and Technol., [2]Grad. School of inform. Sci. , Nara Inst. of Sci. and Technol.) P.109

18:50 **JWS-A11** (P1-096)
D Nodal/Activin promotes sex differentiation of male germ cells through MAPK P38 signaling pathway
○Quan Wu[1,2], Rie Saba[1], Kohei Kanata[3], Hiroshi Hamada[3], Yumiko Saga[1] ([1]NIG, [2]SOKENDAI, [3]GSFB, Osaka University) P.109

19:05 **JWS-A12** (P1-103) **D A localized factor polarizes mesendoderm cells and separates mesoderm and endoderm fates in the ascidian embryo.**
○Naohito Takatori (Osaka University) P.109

Joint Workshop B

May 29 (Tue) 16:20-19:20 Room 2 (International Conference Room)
Organizers : Mikio Furuse (Kobe Univ.), Kunimasa Ohta (Kumamoto Univ.)

16:20 **JWS-B1** (P1-109) **C De-ubiquitinating enzyme for a moyamoya disease-susceptible protein, Mysterin**
○Yuri Kotani[1], Daisuke Morito[1], Shunichiro Iemura[2], Toru Natsume[2], Kazuhiro Nagata[1] ([1]Faculty of Biological Sciences, Kyoto Sangyo Univ., [2]AIST) P.110

16:35 **JWS-B2** (P1-160) **D Live imaging analyses of melanosome-transfer in the developing skin**
○Ryosuke Tadokoro, Hidetaka Murai, Kenichiro Sakai, Takahiro Okui, Yoshiko Takahashi (Grad. Sch. of Biol. Sci., NAIST) P.110

16:50 **JWS-B3** (P1-130) **D Apoptosis facilitates mammalian early brain development by eliminating morphogen-producing cells**
○Keiko Nonomura[1], Yoshifumi Yamaguchi[1,2], Misato Hamachi[1], Masato Koike[3], Yasuo Uchiyama[3], Hiroki Yoshida[4], Keisuke Kuida[5], Masayuki Miura[1,2] ([1]Dept. Genetics, Grad. Sch. Pharm. Sci., Univ. Tokyo, [2]CREST, JST, [3]Juntendo University, [4]Saga Univ. Med. Sch., [5]Millennium: The Takeda Oncology Company) P.110

17:05 **JWS-B4** (P1-126) **C Cell movement on cilia in the statolith formation of ctenophore**
○Naoki Noda (Marine Biological Laboratory) P.110

17:20 **JWS-B5** (P1-142) **D Regulation of hole size in basement membrane during cell invasion in *C. elegans***
○Shinji Ihara[1], David Sherwood[2], Hitoshi Sawa[1] ([1]Multicellular Organization Laboratory, National Institute of Genetics, [2]Duke University) P.111

17:35 **JWS-B6** (P1-147) **C Coordinated Ciliary Beating Requires Odf2-Mediated Polarization of Basal Bodies via Basal Feet**
○Koshi Kunimoto[1], Yuji Yamazaki[1], Tomoki Nishida[1], Kyosuke Shinohara[1], Hiroaki Ishikawa[2], Toshiaki Hasegawa[1], Takeshi Okanoue[3], Hiroshi Hamada[1], Tetsuo Noda[4], Atsushi Tamura[1], Shoichiro Tsukita[5], Sachiko Tsukita[1] ([1]Osaka Univ., [2]UCSF, [3]Saiseikai Suita Hosp., [4]Cancer Inst. of Japanese Foundation for Cancer Res., [5]Kyoto Univ.) P.111

17:50 **JWS-B7** (P1-153) **D The Regulation of FGF Signaling by MT1-MMP in Calvarial Osteogenesis**
H. L. X. Wong, K. M. Chan, ○Z. Zhou (Dep. of Biochemistry, Li Ka Shing Faculty of Med., Univ. of Hong Kong) P.111

18:05 **JWS-B8** (P1-162) **C Roles of mDia, a Rho effector and actin nucleator, in neuroepithelium integrity and neuroblast migration**
○Dean Thumkeo[1], Ryota Shinohara[1], Keisuke Watanabe[2], Hirohide Takebayashi[2], Naoko Kaneko[3], Kazunobu Sawamoto[3], Toshimasa Ishizaki[1], Tomoyuki Furuyashiki[1], Shuh Narumiya[1] ([1]Department of Pharmacology, Kyoto University Faculty of Medicine, [2]Division of Neurobiology and Anatomy, Niigata University, [3]Department of Developmental and Regenerative Biology, Nagoya City University School of Medical Sciences) P.111

18:20 **JWS-B9** (P1-121) **D Neurotransmitter receptors are essential for controlling developmental transition via steroid hormone biosynthesis in *Drosophila***
○Yuko Shimada-Niwa, Jevgenija Maramzina, Ryusuke Niwa (Grad. School of Life and Environmental Sciences, Univ. of Tsukuba) P.112

18:35 **JWS-B10** (P1-171) **D Different levels of the TRIM protein Asap confer distinct patterns of axonal connections in *Drosophila* sensory neurons**
○Rei K. Morikawa, Kazuo Emoto (Osaka Biosci. Inst.) P.112

18:50 **JWS-B11** (P1-117)

C Mammalian skin-specific retroviral-like aspartic protease, SASPase is a key modulator of skin mosturization

○Takeshi Matsui[1,2], Kenichi Miyamoto[3], Akiharu Kubo[4,5], Hiroshi Kawasaki[4], Tamotsu Ebihara[4], Kazuya Hata[6], Shizuko Ichinose[7], Issei Imoto[8,9], Johji Inazawa[8], Jun Kudoh[3], Masayuki Amagai[4] ([1]iCeMS, Kyoto Univ., [2]MTT, Med. Res. Inst., Tokyo Med. & Dent. Univ., [3]Lab. of Gene Med., Keio Univ. Sch. of Med., [4]Dept. of Dermatol., Keio Univ Sch. of Med., [5]Center for Integ. Med. Res., Keio Univ Sch. of Med., [6]Sunplanet Co. Ltd, [7]Res. Cent. for Med. & Dent. Sci., Tokyo Med. & Dent. Univ., [8]Dept. of Mol. Cytogenet., Med. Res. Inst. & Sch. of Biomed. Sci., Tokyo Med. & Dent. Univ., [9]Dept. of Human Genet. & Public Health, Inst. of Health Biosci., Univ. of Tokushima Grad. Sch.)

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19:05 **JWS-B12** (P1-179)

D Prickle and Spiny-legs ratio regulates global tissue coordination in planar cell polarity

○Tomonori Ayukawa[1], Juergen A. Knoblich[2], Takehiko Sasaki[3], Masakazu Yamazaki[1] ([1]Akita University Graduate School of Medicine, [2]Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA), [3]Department of Pathology and Immunology, Akita University School of Medicine)

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Poster Flash Talk

Poster Flash Talk

May 29 (Tue) 11:00-11:50 Room 1 (Main Hall)

Organizers : Yoshiko Takahashi (Kyoto Univ.), Hiroyuki Takeda (The Univ. of Tokyo)

11:00 **PFT-1** (P1-010)
D Transplantation of Mesenchymal Stem Cells Derived from ES Cells Promotes Re-innervation and Accelerates Functional Recovery of Injured Skeletal Muscle
○Nana Ninagawa[1], Eri Isobe[2], Yuri Hirayama[2], Yuka Kawabata[2], Mami Kobayashi[1], Shigeko Torihashi[1,2] ([1]Department of Health Sciences, Nagoya University Graduate School of Medicine, [2]Department of Physical Therapy, Nagoya University School of Health Sciences) P.113

11:05 **PFT-2** (P1-031)
C Proteins misfolded in the nucleus are degraded by a novel mechanism, nuclear export associated degradation (NEAD)
○Shoshiro Hirayama[1], Shun-ichiro Iemura[3], Kazutaka Araki[1], Daisuke Morito[1], Toru Natsume[2], Kazuhiro Nagata[1] ([1]Faculty of Life Sci., Kyoto Sangyo Univ., [2]National Institute of Advanced Industrial Science and Technology, Biomedicinal Information Research Center, [3]Fukushima Medical University School of Medicine) P.113

11:10 **PFT-3** (P1-049)
D Primordial germ cells transmigrate from blood stream to gonad in avian: novel behavior revealed by live-imaging analyses
○Daisuke Saito, Tomoaki Torii, Yoshiko Takahashi (NAIST) P.113

11:15 **PFT-4** (P1-071)
D Disruption of inter-epithelial signaling causes EMT
○Takashi Yoshino[1], Daisuke Saito[1], Chihiro Uchiyama[1], Kiyotoshi Sekiguchi[2], Yuji Atsuta[1], Yoshiko Takahashi[1] ([1]Bio., NAIST, [2]IPR, Osaka Univ.) P.113

11:20 **PFT-5** (P1-090)
C Biased assembly of the nuclear pore complex determines nuclear differentiation in the ciliate *Tetrahymena thermophila*
○Masaaki Iwamoto[1], Takako Koujin[1], Fumihide Bunai[1], Hiroko Osakada[1], Chie Mori[1], Haruhiko Asakawa[1,2], Yasushi Hiraoka[1,2,3], Tokuko Haraguchi[1,2,3] ([1]Advanced ICT Research Institute, NICT, [2]Grad. Sch. of Front. Biosci., Osaka Univ., [3]Grad. Sch. of Sci., Osaka Univ.) P.114

11:25 **PFT-6** (P1-115)
D Mitotic cell rounding accelerates invagination of the *Drosophila* tracheal placode
○Takefumi Kondo, Shigeo Hayashi (RIKEN CDB) P.114

11:30 **PFT-7** (P1-138)
D In vivo imaging of medaka fracture healing reveals that cyclooxygenase-2 plays an important role in inducing osteoclasts for bone remodeling.
○Kazuhiro Takeyama[1], Masahiro Chatani[1], Yoshiro Takano[2], Akira Kudo[1] ([1]Dept. of Biological Information, Tokyo Tech, [2]Sect. Biostructural Science, Grad. Sch. of TMDU) P.114

11:35 **PFT-8** (P1-156)
C PI3K-Akt pathway controls Polo-like kinase 1 (Plk1)
○Kousuke Kasahara[1,2], Hidemasa Goto[1,3], Ichiro Izawa[1], Nobumoto Watanabe[4], Tohru Kiyono[5], Masaki Inagaki[1,3] ([1]Div. of Biochem., Aichi Cancer Ctr. Res. Inst., [2]Dept. of Oncol., Grad. Sch. of Pharm. Sci., Nagoya City Univ., [3]Dept. of Cell. Oncol., Grad. Sch. of Med., Nagoya Univ., [4]Chem. Biol. Core Fac., Chem. Biol. Dept., RIKEN ASI, [5]Div. of Virol., Natl. Cancer Ctr. Res. Inst.) P.114

11:40 **PFT-9** (P1-174)
D Paralogous enhancers: a crossover point between developmental robustness and stress response
○Haruki Ochi, Akane Kawaguchi, Tomoko Tamai, Hajime Ogino (Nara Institute of Science and Technology) P.115

11:45 **PFT-10** (P1-186)
C Function of a neurogenic gene, *pecanex* in Notch signaling.
○Tomoko Yamakawa[1], Kenta Yamada[1], Takeshi Sasamura[1], Naotaka Nakazawa[1], Maiko Kanai[1], Emiko Suzuki[2], Mark E. Fortini[3], Kenji Matsuno[1] ([1]Dept. of Biol. Sci./Tec., Tokyo Univ. of Sci., [2]Gene Network Lab., NIG, [3]Dept. of Biochem./Mol. Biol., Thomas Jefferson Univ., [4]Gene Network Laboratory) P.115

Workshops

Workshop 1a Intracellular trafficking / Organelles / Life of Proteins

May 30 (Wed) 9:00-11:30 Room 1 (Main Hall)

Organizers : Hiderou Yoshida (Univ. of Hyogo), Naoko Imamoto (RIKEN, ASI)

9:00 **WS1a-1** (P2-025)
Live cell imaging of ER-to-Golgi protein transport system in S.cerevisiae
○Kazuo Kurokawa[1], Michiyo Okamoto[1], Akihiko Nakano[1,2] ([1]RIKEN Advanced Science Institute, [2]Department of Biological Sciences, Graduate School of Science, The University of Tokyo) P.116

9:15 **WS1a-2** (P2-050)
Glycosylation-independent ERAD pathway serves as a backup system under ER stress
○Ryo Ushioda[1], Jun Hoseki[1,2], Kazuhiro Nagata[1] ([1]Dept. of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo Univ., [2]Div. of Applied Life Sciences, Graduate School of Agriculture, Kyoto Univ.) P.116

9:30 **WS1a-3** (P2-035)
The molecular mechanism of dephosphorylation and nuclear translocation of TFE3, a key transcription factor regulating mammalian Golgi stress response.
Mai Taniguchi, Shogo Sawaguchi, Soichiro Tanakura, Shogo Yamaguchi, Yui Shimada, Yuki Nakamura, Yasuyo Matsumura, Ryota Komori, Keisuke Kubota, Sadao Wakabayashi, ○Hiderou Yoshida (Grad. Sch. Life Science, Univ. Hyogo) P.116

9:45 **WS1a-4** (P2-015)
Chromatin signaling relays to the Golgi structure via SUN/KASH protein
○Miki Hieda, Yu Nishioka, Yuhki Yokoyama, Nariaki Matsuura, Syuji Matsuura (Div. of Health Sci. Grad. Sch. of Med. Osaka Univ.) P.116

10:00 **WS1a-5** (P2-040)
Function of a t-SNARE protein SNAP23 in insulin secretion from pancreatic beta-cell.
○Masataka Kunii[1,2], Noriko Takahashi[3], Masaki Kobayashi[4], Mica Ohara-Imaizumi[5], Takashi Sato[2], Shin-ichiro Yoshimura[1], Ken Sato[2], Reiko Harada[1], Shinya Nagamatsu[5], Haruo Kasai[3], Tadahiro Kitamura[4], Akihiro Harada[1,2] ([1]Dept. of Cell Biol., Grad. Sch. of Med., Osaka Univ., [2]Lab. of Mol. Traffic., IMCR, Gunma Univ., [3]Lab. of Structural Phys., Grad. Sch. of Med., Univ. of Tokyo, [4]Metabolic Signal Research Center, IMCR, Gunma Univ., [5]Dept. of Biochem., Kyorin Univ. Sch. of Med.) P.117

Organizers : Akihiro Harada (Osaka Univ.), Koji Hase (RIKEN, RCAI)

10:15 **WS1a-6** (P2-020)
Genetic mutation of β-SNAP causes photoreceptor degeneration through the activation of the BH3-only SNARE, BNip1
○Yuko Nishiwaki, Asuka Yoshizawa, Yutaka Kojima, Eri Oguri, Shohei Nakamura, Shohei Suzuki, Junichi Yuasa-Kawada, Mariko Kinoshita-Kawada, Toshiaki Mochizuki, Ichiro Masai (Okinawa Institute of Science and Technology) P.117

10:30 **WS1a-7** (P2-010)
Quantification and mechanics of meiotic cytoplasmic streaming in *C. elegans* early embryos.
○Kenji Kimura, Ritsuya Niwayama, Akatsuki Kimura (Cell Arch. Lab., Natl. Inst. of Genet.) P.117

10:45 **WS1a-8** (P2-005)
The temporal analysis of recruitment of mammalian Atg proteins to the autophagosome formation site
○Ikuko Koyama-Honda[1,2], Eisuke Itakura[1,2], Takahiro Fujiwara[3], Noboru Mizushima[1] ([1]Dept. of Physiol. and Cell Biol., Tokyo Med. and Dent. Univ., [2]JSPS, [3]iCeMS, Kyoto Univ.) P.117

11:00 **WS1a-9** (P2-045)
TRAPPIII facilitates autophagy by tethering transport vesicles from early endosomes to the Golgi apparatus
Kanae Shirahama-Noda, Shintaro Kira, Tamotsu Yoshimori, ○Takeshi Noda (Div. Genetics, Osaka University, Grad Med, Grad Front. Bioscience) P.118

11:15 **WS1a-10** (P2-030)
Two proteases, trypsin domain-containing 1 (Tysnd1) and peroxisomal Lon protease (PsLon), cooperatively regulate fatty acid β-oxidation in peroxisomal matrix
○Kanji Okumoto[1], Yukari Kametani[2], Yukio Fujiki[1,2] ([1]Dept. of Biol., Fuc. of Sci., Kyushu Univ., [2]Grad. Sch. of Sys. Life Sci., Kyushu Univ.) P.118

Workshop 2a Cell polarity / Cytoskeletons / Cell migration / Cell motility

May 30 (Wed) 9:00-11:30 Room 2 (International Conference Room)
Organizers : Hiroaki Miki (Osaka Univ.), Mutsuki Amano (Nagoya Univ.)

9:00 **WS2a-1** (P2-100) **Actin-based chromosome transport in oocytes**
○Masashi Mori[1], Nilah Monnier[2], Mark Bathe[2], Jan Ellenberg[1], Peter Lenart[1] ([1]EMBL, [2]MIT) P.118

9:15 **WS2a-2** (P2-091) **Regulation of mitochondrial transport and inter-microtubule spacing by Tau phosphorylation at the sites hyperphosphorylated in Alzheimer disease**
Kourosh Shahpasand[1], Isao Uemura[1], Taro Saito[1], Tsunaki Asano[1], Kenji Hata[1], Keitaro Shibata[2], Yoko Toyoshima[2], Masato Hasegawa[3], ○Shin-ichi Hisanaga[1] ([1]Dept. of Biol. Sci., Tokyo Metro. Univ., [2]Dept. of Life Sci., Grad. Sch. of Art, The Univ. of Tokyo, [3]Dept. Neuropath. Cell Biol., Tokyo Metro. Insti. of Med. Sci.) P.118

9:30 **WS2a-3** (P2-095) **Protein complex required for the formation of microtubule square lattice in green tree frog sperm**
○Toshiki Yagi[1], Toshie Takahashi[2], Hiroshi Kubota[3], Masahide Kikkawa[1] ([1]Dep. of Cell Biol. Grad. Sch. of Med., Univ. of Tokyo, [2]Dep. of Biochem & Mol. Biol.. Grad. Sch. of Med., Univ. of Tokyo, [3]Dep. of Zool., Grad. Sch. of Sci., Kyoto Univ.) P.119

9:45 **WS2a-4** (P2-059) **A CRMP-2 isoform controls myosin II-mediated cell migration and matrix assembly by trapping ROCK II**
○Atsuko Yoneda[1,2], Marie Morgan-Fisher[2], Robin Wait[3], John R. Couchman[2], Ulla M. Wewer[2] ([1]Lab. of Genome and Biosignals, Tokyo Univ. of Pharm. and Life Sci., [2]Dept. of Biomed. Sci., Faculty of Health Sci., and BRIC, Univ. of Copenhagen, [3]Kennedy Inst. of Rheum., Univ. of Oxford) P.119

10:00 **WS2a-5** (P2-064) **Identification of Rho-GEFs involved in mechanosensing of vascular endothelial cells**
○Hiroshi Kondo[1], Kazumasa Ohashi[1], Hiyori Abiko[1], Ryuichi Hiatari[1], Naoya Sakamoto[2], Masaaki Sato[2,3], Kensaku Mizuno[1] ([1]Grad. Sch. of Life Sci., Tohoku Univ., [2]Grad. Sch. of Eng., Tohoku Univ., [3]Grad. Sch. of Biomed. Eng., Tohoku Univ.) P.119

Organizers : Masahiro Ueda (Osaka Univ.), Junichi Ikenouchi (Kyoto Univ.)

10:15 **WS2a-6** (P2-073) **Proper regulation of tubulin poly-glutamylation is essential for the maintenance of retinal photoreceptor cells**
○Alu Konno[1,2], Sayumi Hattori[1], Chizuru Matsuda[1], Mitsutoshi Setou[1], Koji Ikegami[1] ([1]Dept. Cell Biol. Anat., Hamamatsu Univ. Shool Med., [2]JSPS Res. Fellow) P.119

10:30 **WS2a-7** (P2-082) **Contributions of actin cytoskeleton and cell-substrate adhesion in control of cell motile behavior in micro-topographical environments**
○Hiromi Miyoshi[1], Taiji Adachi[1,2], Jungmyoung Ju[1], Sang Min Lee[3], Dong Jin Cho[3], Jong Soo Ko[3], Yutaka Yamagata[1] ([1]Ultra High Precision Fabrication Team, RIKEN, [2]Dept. of Biomechanics, Inst. for Frontier Medical Sciences, Kyoto Univ., [3]Graduate School of Mechanical Engineering, Pusan National Univ.) P.120

10:45 **WS2a-8** (P2-068) **Involvement of cell polarity in folding phenomena of epithelial sheets**
○Sumire Ishida, Ryosuke Tanaka, Takeomi Mizutani, Kazushige Kawabata, Hisashi Haga (Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ.) P.120

11:00 **WS2a-9** (P2-077) **FGF and small GTPase proteins control of basal and apical cytoskeletal activities during inner ear morphogenesis**
Xiao rei Sai, ○Raj Ladher (Riken CDB) P.120

11:15 **WS2a-10** (P2-086) **A transcription factor grainyhead-like 2 regulates epithelial morphogenesis by promoting the formation of the apical lumen**
○Naoki Tanimizu[1], Kazunori Senga[2], Keith E Mostov[3], Toshihiro Mitaka[1], Atsushi Miyajima[2] ([1]Inst. for Front. Med., Sapporo Med. Univ., [2]IMCB, Univ. of Tokyo, [3]Dep. Anat., and Biochem. and Biophys., Univ. California SF) P.120

Workshop 3a Cell-Cell interaction / Cell adhesion / Extracellular matrix

May 30 (Wed) 9:00-11:15 Room 3 (401+402)

Organizers : Akiharu Kubo (Keio Univ.), Kenji Shimamura (Kumamoto Univ.)

9:00 **WS3a-1** (P2-111)
Regulation of tight junctions and actin cytoskeletons by the osmotic gradient in two different renal cell lines
○Shinsaku Tokuda, Mikio Furuse (Division of Cell Biology, Department of Physiology and Cell Biology, Kobe University Graduate School of Medicine) P.121

9:15 **WS3a-2** (P2-112)
ILDR1 and ILDR2 recruit tricellulin to tricellular tight junctions.
○Tomohito Higashi[1], Shin-ichiro Kitajiri[2], Hiroki Nakamura[1], Mikio Furuse[1,2] ([1]Div. of Cell Biol., Grad. Sch. of Med., Kobe Univ., [2]Dept. of Otolaryngology Head and Neck Surgery, Grad. Sch of Med., Kyoto Univ.) P.121

9:30 **WS3a-3** (P2-107)
Electrical coupling in muscle enables compensation of sporadic neural outputs to coordinate robust and efficient behavior during motor development.
○Hiromi Hirata[1,2], Hua Wen[3], Yu Kawakami[4], Yuriko Naganawa[4], Kazutoyo Ogino[1], Kenta Yamada[1], Louis Saint-Amant[5], Sean E. Low[6], Wilson W. Cui[6], Weibin Zhou[6], Shawn M. Sprague[6], Kazuhide Asakawa[1], Akira Muto[1], Koichi Kawakami[1], John Y. Kuwada[6] ([1]National Institute of Genetics, [2]PREST, JST, [3]Oregon Health and Science University, [4]Nagoya University, [5]University of Montreal, [6]University of Michigan) P.121

9:45 **WS3a-4** (P2-115)
β-Catenin binding partner(s) other than E-cadherin support cell adhesion sites without Z0-1.
○Akira Nagafuchi, Satoshi Urayama, Chiyoko Kobayashi (Dep. of Biol., Sch. of Med., Nara Med. Univ.) P.121

10:00 **WS3a-5** (P2-119)
Regulation of Notch signaling through the adherens junction in neurogenesis and somitogenesis
○Jun Hatakeyama[1], Yoshio Wakamatsu[2], Ryuichi Shigemoto[3], Kenji Shimamura[1] ([1]IMEG, Kumamoto Univ., [2]Div. of Dev.Neurosci., Graduate school of Med., Tohoku Univ., [3]Div. of Cereb. Struc., NIPS) P.122

Organizers : Tatsushi Igaki (Kobe Univ.), Atsuko Sehara-Fujisawa (Kyoto Univ.)

10:15 **WS3a-6** (P2-116)
Tead activity links contact-mediated communication to cell competition by controlling Hippo signaling and Myc expression
Hiroshi Mamada[1,2], Mitsunori Ota[2], ○Hiroshi Sasaki[1,2] ([1]Dep. of Cell Fate Control., Inst. of Mol. Embryol. & Genet, Kumamoto Univ., [2]RIKEN Ctr. for Dev. Biol.) P.122

10:30 **WS3a-7** (P2-108)
Modulation of cell-cell adhesion in *Xenopus* mesendoderm cells by CXCR7 signaling
○Akimasa Fukui, Keita Masuda, Kazuya Fukusawa, Naoki Sasaki (Transd. Life Sci., Grad. Sch. Life Sci., Hokkaido Univ.) P.122

10:45 **WS3a-8** (P2-104)
CLASP-mediated microtubule anchoring promotes the cell-basement membrane interaction through dystroglycan in gastrulation EMT
○Yukiko Nakaya, Erike, W. Sukowati, Guojun Sheng (Center for Developmental Biology, RIKEN) P.122

11:00 **WS3a-9** (P2-103)
Cancer-associated fibroblasts mediate extracellular matrix remodeling and three-dimensional invasion of scirrhous gastric carcinoma cells
○Hideki Yamaguchi[1], Kazuyoshi Yanagihara[2], Masakazu Yashiro[3], Ryuichi Sakai[1] ([1]Div. of Metastasis and Invasion Signaling, National Cancer Center Research Institute, [2]Dept. of Life Sciences, Yasuda Women's University Faculty of Pharmacy, [3]Dept. of Surgical Oncology, Osaka City University, Graduate School of Medicine) P.123

Workshop 4a Systems biology

May 30 (Wed) 9:00-11:15 Room 4 (403)

Organizers : Takashi Miura (Kyoto Univ.), Kaoru Sugimura (Kyoto Univ.)

9:00 **WS4a-1** (P2-131)
Dynamics of complex biological systems determined from minimal subsets of molecules in regulatory networks
○Atsushi Mochizuki[1], Gen Kurosawa[1], Bernold Fiedler[2] ([1]Theoretical Biology Laboratory, RIKEN, [2]Institute for Mathematics, Free University Berlin) P.123

9:15 **WS4a-2** (P2-129)
A systematic quantification of the width-length relationship of mitotic spindle during the embryogenesis of Caenorhabditis elegans
○Akatsuki Kimura, Yuki Hara (Cell Arch. Lab., Nat. Inst. Genetics) P.123

9:30 **WS4a-3** (P2-126)
Mechanisms for temperature compensation at multiple scales
○Gen Kurosawa[1], Masashi Tachikawa[1], Atsushi Mochizuki[1,2] ([1]Theoretical Biology Laboratory, RIKEN, [2]Department of Computational Inteligence and Systems Science, Tokyo Institute of Technology) P.124

9:45 **WS4a-4** (P2-127)
Mechanical modeling of the cell-cell interaction on the self-organization of the tooth germ.
○Hisako Takigawa-Imamura[1], Ritsuko Morita[2], Takashi Tsuji[2], Kenichi Yoshikawa[1] ([1]Dept. of Phys., Grad. Sch. of Sci., Kyoto Univ., [2]Res. Inst. for Sci. & Tech., Tokyo Univ. of Sci.) P.124

10:00 **WS4a-5** (P2-123)
Understanding the post-mitotic Golgi reassembly with mathematical models based on elastic membrane theory
○Masashi Tachikawa, Atsushi Mochizuki (Theoretical Biology Laboratory, RIKEN) P.124

Organizers : Atsushi Mochizuki (RIKEN, ASI), Akatsuki Kimura (Natl. Inst. of Genetics)

10:15 **WS4a-6** (P2-132)
Temporal Coding of Insulin Action through Multiplexing of the AKT Pathway
○Hiroyuki Kubota[1], Rei Noguchi[1], Yu Toyoshima[1], Yu-ichi Ozaki[1], Shinsuke Uda[1], Kanako Watanabe[1], Wataru Ogawa[2], Shinya Kuroda[1] ([1]Department of Biophysics and Biochemistry, Graduate School of Science, University of Tokyo, [2]Department of Internal Medicine, Division of Diabetes, Metabolism, and Endocrinology, Kobe University Graduate School of Medicine) P.124

10:30 **WS4a-7** (P2-124)
Synchronized Onset of Quorum Sensing Transition.
○Koichi Fujimoto[1], Satoshi Sawai[2] ([1]Grad. Sch. of Sci., Osaka Univ., [2]Grad. Sch. Arts and Sci., Univ. of Tokyo.) P.125

10:45 **WS4a-8** (P2-128)
A novel mathematical model of angiogenic morphogenesis: importance of tip cell dynamics
○Kei Sugihara[1,2], Koichi Nishiyama[1], Takashi Miura[3], Satoshi Arima[1], Yuji Hakozaki[1], Yuichiro Arima[1], Ki-Sung Kim[1], Yasunobu Uchijima[1], Yukiko Kurihara[1], Hiroki Kurihara[1] ([1]Dept. of Physiol. Chem. and Metab., Grad. Sch. of Med., Univ. of Tokyo, [2]MD Scientist Training Program, Fac. of Med., Univ. of Tokyo, [3]Dept. of Anat. and Dev. Biol., Grad. Sch. of Med., Kyoto Univ.) P.125

11:00 **WS4a-9** (P2-122)
Estimating the Dynamics of Forces during Morphogenesis
○Kaoru Sugimura[1], Shuji Ishihara[2] ([1]Kyoto Univ., [2]Univ. of Tokyo) P.125

Workshop 5a Organogenesis / Body axis formation

May 30 (Wed) 9:00-11:30 Room 5 (501)

Organizers : Yumiko Saga (Natl. Inst. of Genetics), Yoshio Wakamatsu (Tohoku Univ.)

9:00 **WS5a-1** (P2-147)
Retromer and small GTPase-dependent recycling luminal protein controls apical ECM organization and epithelial tube size
○Bo Dong, Ken Kakihara, Kagayaki Kato, Hosei Wada, Shigeo Hayashi (RIKEN CDB) P.126

9:15 **WS5a-2** (P2-139)
Hemodynamics-dependent valvulogenesis of zebrafish heart mediated by miR-21
○Toshihiro Banjo[1], Minoru Omi[1], Kota Miyasaka[1], Yasuyuki Kida[2], Toshihiko Ogura[1] ([1]IDAC, Tohoku Univ., [2]Salk Institute) P.126

9:30 **WS5a-3** (P2-158)
Cadherin-7 enhances sonic hedgehog signal by inhibiting movement of Gli3 to primary cilium
○Rie Kawano[1,2,3], Kunimasa Ohta[1], Daisuke Niimori[1,4] ([1]Dept of Dev. Neurobio., Graduate School of Med. Sci., Univ. of Kumamoto, [2]Global COE Cell Fate Regulation Research and Education Unit, Univ. of Kumamoto, [3]Dep. of Internal Medicine 2, Faculty of Medicine, Univ. of Oita, [4]Dep. of Dermatology and Plastic Surgery, Graduate School of Life Sciences, Univ. of Kumamoto) P.126

9:45 **WS5a-4** (P2-155)
Profile of cell cycle, cell division, and cell shape in lens: possible determinants of lens morphology
○Toshiaki Mochizuki[1], Shohei Suzuki[1], Asako Sakaue-Sawano[2], Atsushi Miyawaki[2], Ichiro Masai[1] ([1]Developmental Neurobiology Unit, Okinawa Institute of Science and Technology Graduate School University, [2]RIKEN BSI) P.126

10:00 **WS5a-5** (P2-166)
The roles of mesogenin1 in zebrafish tail presomatic mesoderm differentiation
○Taijiro Yabe, Shinji Takada (National Institute for Basic Biology) P.127

Organizers : Kimiko Fukuda (Tokyo Metropolitan Univ.), Motoyuki Ito (Nogoya Univ.)

10:15 **WS5a-6** (P2-163) **Blood vessel remodeling in living embryos: a link between blood flow and migration of endothelial cells**
○Yuta Takase, Yoshiko Takahashi (Graduate School of Biological Sciences, Nara Institute of Science and Technology) P.127

10:30 **WS5a-7** (P2-150) **Dynein arms assembly and transport in mammal**
○Yasuko Asai, Tetsuya Nakamura, Kyosuke Shinohara, Hiroshi Hamada (Developmental Genetics Group Graduate School of Frotier Biosciences OSAKA UNIVERSITY) P.127

10:45 **WS5a-8** (P2-136) **Asymmetric Flow is Converted to a Degradation of Cerl2 and Amplified by Interlinked Feedbacks Robustly in a Left-Right Axis of the Mouse Embryo**
○Tetsuya Nakamura[1], Daisuke Saitoh[2], Kyosuke Shinohara[1], Dong Felang[1], Aiko Kawasumi[1], Atsuko Takamatsu[3], Jose Antonio Belo[4], Atsushi Mochizuki[2], Hiroshi Hamada[1] ([1]Dev. Gene., Front. Bio.,Osaka univ., [2]Theoretical Bio, RIKEN, Japan, [3]Faculty of Science and Engineering, Waseda univ., Japan, [4]Biomedical Sciences and Medicine, University of Algarve, Portugal) P.127

11:00 **WS5a-9** (P2-144) **Dynamical property of gene regulatory network generating left-right asymmetry in mice embryo**
○Daisuke Saito[1], Tetsuya Nakamura[2], Hiroshi Nakamura[2], Atsushi Mochizuki[1] ([1]Theoret. Biol. Lab. RIKEN, [2]Dev. Genet. Group, Grad. Sch. Frontier Biosci., Osaka Univ.) P.128

11:15 **WS5a-10** (P2-171) **Homeogenetic mechanism of sequential segmentation in polychaete**
Nao Niwa[1], Ai Akimoto-Kato[1], Masashi Sakuma[2], ○Shigeo Hayashi[1] ([1]RIKEN Center for Developmental Biology, [2]Institute of Biological Sciences, University of Tsukuba, Sugadaira Montane Research Center, University of Tsukuba, Sugadaira Kogen Ueda, Nagano 386-2204, Japan) P.128

Workshop 6a Neural function and development

May 30 (Wed) 9:00-11:30 Room 6 (502)

Organizers : Nobuyuki Shiina (Natl. Inst. for Basic Biol.), Tatsumi Hirata (Natl. Inst. of Genetics)

9:00 **WS6a-1** (P2-177) **Tre1 GPCR signaling orients stem cell divisions in the Drosophila central nervous system**
○Shigeki Yoshiura, Nao Ohta, Fumio Matsuzaki (RIKEN Center for Developmental Biology) P.128

9:15 **WS6a-2** (P2-186) **Phosphorylation control of Gogo receptor by Insulin signaling coordinates the developmental timing of the neuronal circuit wiring**
○Takashi Suzuki[1,2], K Mann[2], S Berger-Mueller[2], M Wang[2], S H Luu[2], S Ohler[2], S Hakeda-Suzuki[2] ([1]Core Div. Adv. Study, Dept. Bioscience, Tokyo Inst. Tech., [2]Max Planck Institute of Neurobiology) P.128

9:30 **WS6a-3** (P2-201) **drskIII regulates Drosophila NMJ development and function**
○Guoli Zhao (Institute of Genetics and Developmental Biology, Chinese Academy of Science) P.129

9:45 **WS6a-4** (P2-180) **The Seven-pass transmembrane Cadherin Flamingo Controls Dendritic Self-avoidance via its Binding to a LIM Domain Protein Espinas in Drosophila Sensory Neurons.**
○Daisuke Matsubara, Ikumi Ueda, Tadashi Uemura, Tadao Usui (Grad. scho. of Biostudies, Kyoto Univ.) P.129

10:00 **WS6a-5** (P2-183) **Neural activity regulates proper restitution of phototaxis via novel neuropeptide genes during head regeneration in planarian**
○Takeshi Inoue[1], Tomomi Takano[2], Yoshihiko Umesono[1], Kiyokazu Agata[1] ([1]Dep. of Biophys, Grad. Sch. of Sci., Kyoto Univ, [2]Center for Developmental Biology, RIKEN) P.129

Organizers : Naoyuki Inagaki (NAIST), Kazunobu Sawamoto (Nagoya City Univ.)

10:15 **WS6a-6** (P2-198) **Dickkopfs regulate organ growth during lateral line development in zebrafish**
○Hironori Wada[1], Koichi Kawakami[2] ([1]PRESTO, Japan Science and Technology Agency, [2]National Institute of Genetics; The Graduate University for Advanced Studies) P.129

10:30 **WS6a-7** (P2-195) **A path of growing blood vessels in the spinal cord is determined by an interface between differentiated and undifferentiated neurons**
○Teruaki Takahashi, Yuta Takase, Ryosuke Tadokoro, Yoshiko Takahashi (NAIST) P.130

10:45 **WS6a-8** (P2-174) **Genetic manipulation of Madagascar Ground Gecko unveils unique characteristics of reptilian cortical neural stem cells**
○Tadashi Nomura, Hitoshi Gotoh, Katsuhiko Ono (Dev.Neurobiol., Grad. Sch. of Med.Sci., Kyoto Pref. Univ. of Med.) P.130

11:00 **WS6a-9** (P2-189) **Involvement of En-2 in tectal laminar formation in chick embryos**
○Minoru Omi[1], Yuji Watanabe[1,2], Harukazu Nakamura[1,2] ([1]Dept. of Mol. Neurobiol., Grad. Sch. Life Sci., Tohoku Univ., [2]Dept. of Mol. Neurobiol., IDAC, Tohoku Univ.) P.130

11:15 **WS6a-10** (P2-192) **Cdk5 plays multiple roles in cortical neuronal migration and morphological changes**
○Takeshi Kawauchi[1,2], Yoshiaki V. Nishimura[1,3], Mima Shikanai[1], Koh-ichi Nagata[3], Kazunori Nakajima[1] ([1]Dept. of Anat., Keio Univ. Sch. of Med., [2]PRESTO, JST, [3]Dept. of Mol. Neurobiol., Inst. for Developmental Research, Aichi Human Service Center) P.130

Workshop 1b Signal transduction / Cell proliferation / Differentiation / Cell death / Cell nucleus / Chromosome

May 31 (Thu) 9:00-11:30 Room 1 (Main Hall)

Organizers : Tokuko Haraguchi (NICT), Fumiko Toyoshima (Kyoto Univ.)

9:00 **WS1b-1** (P3-040) **Correlation analysis of the molecular conformation and signal-responsiveness of RAF by FRET imaging in individual cells.**
○Kayo Hibino[1,2], Masahiro Ueda[1], Yasushi Sako[2] ([1]QBiC, RIKEN, [2]ASI, RIKEN) P.131

9:15 **WS1b-2** (P3-050) **Analysis of Rab5 in fission yeast**
○Yuta Tsukamoto[1], Chisako Katayama[1], Masaaki Miyamoto[1,2] ([1]Dep. of Biol., Grad. Sch. of Sci., Kobe Univ., [2]CSREA, Kobe Univ.) P.131

9:30 **WS1b-3** (P3-016) **Nucleoporin Nup358/RanBP2 associates with Karyopherin β1 to orchestrate accurate chromosome segregation in mitosis**
○Richard W. Wong, Chieko Hashizume (FSO, Kanazawa Univ.) P.131

9:45 **WS1b-4** (P3-045) **Serine/Threonine phosphatase PP5 regulates LRRK1 kinase activity during mitosis**
○Kazuhito Sai, Hiroshi Hanafusa, Kunihiro Matsumoto (Dept. Biol. Sci., Grad. Shc. Sci., Univ. of Nagoya) P.131

10:00 **WS1b-5** (P3-023) **P90 RSK arranges Chk1 in the nucleus for monitoring of genomic integrity during cell proliferation**
○Hidemasa Goto[1,2], Ping Li[1], Kousuke Kasahara[1,3], Makoto Matsuyama[1], Zhonghua Wang[1], Yasushi Yatabe[4], Tohru Kiyono[5], Masaki Inagaki[1,3] ([1]Div. of Biochem., Aichi Cancer Ctr. Res. Inst., [2]Dept. of Cell. Oncol., Nagoya Univ. Grad. Sch. of Med., [3]Dept. of Oncol., Grad. Sch. of Pharmaceutical Sci., Nagoya City Univ., [4]Dept. of Pathol. and Mol. Diagnostics, Aichi Cancer Center Hosp., [5]Div. of Virol., Natl. Cancer Ctr. Res. Inst.) P.132

Organizers : Kiyoko Fukami (Tokyo Univ. of Pharm. and Life Sci.), Shiro Suetsugu (The Univ. of Tokyo)

10:15 **WS1b-6** (P3-055) **Identification of integrin αPS3βv as a receptor for phagocytosis of apoptotic cells in *Drosophila* embryos**
○Kaz Nagaosa, Saori Nonaka, Ryo Okada, Yoshinobu Nakanishi (Grad. Sch. Med. Sci., Kanazawa Univ.) P.132

10:30 **WS1b-7** (P3-011) **Novel Roles of Glycosylation in *Drosophila* Innate Immunity**
○Miki Yamamoto-Hino[1,2], Takako Shibano[2], Wakae Awano[2], Masatoshi Muraoka[3], Hideyuki Okano[1], Satoshi Goto[1,2] ([1]Dept. of Physiol., School of Med., Keio Univ., [2]Mitsubishi-Kagaku Inst. Life Sc., [3]Tokyo Metropolitan Inst. of Med. Sci.) P.132

10:45 **WS1b-8** (P3-033) **A specific amino acid metabolic state of human ES/iPS cells and its significance**
○Nobuaki Shiraki[1], Yasuko Shiraki[3], Genta Nagae[4], Tomonori Tsuyama[1], Hiroyuki Aburatani[4], Kazuhiko Kume[1], Fumio Endo[3], Shoen Kume[1,2] ([1]Dep. of Stem Cell Biol., IMEG, Kumamoto Univ., [2]GCOE, Kumamoto Univ., [3]Dep. of Pediatrics, Graduate School of Med. Sci., Kumamoto Univ., [4]Genome Science Division, RCAST, Univ. of Tokyo) P.132

11:00 **WS1b-9** (P3-006) **A dual and opposite role of NLK-mediated Lef1 phosphorylation on the Wnt/β-catenin signaling.**
○Tohru Ishitani, Shizuka Ishitani (Div. of Cell Reg. Sys., M.I.B., Kyushu Univ.) P.133

11:15 **WS1b-10** (P3-028) **Epithelial cell-intrinsic Notch signaling plays an essential role in the maintenance of gut homeostasis**

○Yuuki Obata[1,2], Daisuke Takahashi[2], Kisa Kakiguchi[3], Shigenobu Yonemura[3], Takashi Kanaya[2], Koji Hase[4], Hiroshi Ohno[1,2] ([1]Grad. Sch. of Med., Univ. of Chiba, [2]Lab. for Epithelial Immunobiology, RCAI, RIKEN, [3]Lab. for Electron Microscope, CDB, RIKEN, [4]Lab. for Bioenvironmental Epigenetics, RCAI, RIKEN) P.133

Workshop 2b Regeneration / Gametogenesis / Stem cells

May 31 (Thu) 9:00-11:30 Room 2 (International Conference Room)

Organizers : Shoen Kume (Kumamoto Univ.), Koji Tamura (Tohoku Univ.)

9:00 **WS2b-1** (P3-067) **A putative somatic role of the germline-specific gene *piwi* in the central nervous system of *Ciona intestinalis***

○Kotaro Shimai[1], Aoi Ichinose[1], Takeo Horie[2], Yuki Miyamoto[1], Yasuko Terashima[1], Koki Nihitsuji[3], Maki Shirae-Kurabayashi[4], Akira Nakamura[4], Rie Kusakabe[5], Kunio Inoue[5], Takehiro G. Kusakabe[1] ([1]Dep. Bio., Fac. Sci. Eng., Konan Univ., [2]Shimoda Marine Research Center, University of Tsukuba, Japan, [3]Graduate School of Life Science, University of Hyogo, Japan, [4]RIKEN CDB, Japan, [5]Graduate School of Science, Kobe University, Japan) P.133

9:15 **WS2b-2** (P3-087) **Neural stem/progenitor cells in the iris tissues of the chick embryo**

○M Araki[1], T Ishikawa[1], A Fujihara[1], M Kosaka[2] ([1]Dev. Neurobiol. Lab., Nara Women's University, [2]Human Morphology, Faculty of Med., Okayama University) P.133

9:30 **WS2b-3** (P3-064) **Tsukushi maintains the growth and undifferentiated properties of stem/progenitor cells as a niche molecule**

Ayako Ito[1], Yohei Shinmyo[1], Nahoko Kaneko[2], Yuki Hirota[2], Jun Hatakeyama[1], Masahiro Yamaguchi[3], Kenji Shimamura[1], Kazunobu Sawamoto[2], Hideaki Tanaka[1], ○Kunimasa Ohta[1] ([1]Div. of Dev. Neurobiol., Kumamoto Univ., [2]Nagoya City University, Nagoya, Japan, [3]University of Tokyo, Tokyo, Japan) P.134

9:45 **WS2b-4** (P3-061) **Dynamics of cultured human epidermal keratinocyte stem cells**

○Daisuke Nanba[1], Fujio Toki[1], Natsuki Matsushita[1], Hiroshi Toki[2], Shigeki Higashiyama[1], Yann Barrandon[3] ([1]ProMRes, Ehime Univ., [2]RCNP, Osaka Univ., [3]LDCS, EPFL) P.134

10:00 **WS2b-5** (P3-079) **A high throughput screening system for molecules promoting pancreatic β-cell differentiation of ES cells.**

○Daisuke Sakano[1,2], Nobuaki Shiraki[1], Masateru Kataoka[1], Kazuhide Kikawa[1,3], Fumio Endo[3], Kazuhiko Kume[1], Motonari Uesugi[4], Shoen Kume[1,2] ([1]Div. of Stem Cell Biol., IMEG, Kumamoto Univ., [2]G-COE, Kumamoto Univ., [3]Dept. of Pediatrics, Graduate School of Medical Sciences, Kumamoto Univ, [4]iCeMS, Kyoto Univ.) P.134

Organizers : Satoru Kobayashi (Natl. Inst. for Basic Biol.), Miho Asaoka (Natl. Inst. of Genetics)

10:15 **WS2b-6** (P3-076) **Keeping the balance of differentiation within the stem cell precursor pool in the *Drosophila* ovary**

○Shinya Matsuoka[1,2], Miho Asaoka[1,2], Yasushi Hiromi[1,2] ([1]National Institute of Genetics, [2]SOKENDAI) P.134

10:30 **WS2b-7** (P3-082) **Pgc protects germ plasm RNAs from miRNA-mediated degradation in *Drosophila* primordial germ cells.**

○Kazuko Hanyu-Nakamura, Kazuki Matsuda, Akira Nakamura (Lab. for Germline Dev., RIKEN CDB) P.135

10:45 **WS2b-8** (P3-092) **The germ plasm-independent mechanism for the germ cell specification in *C. intestinalis***

○Maki Shirae-Kurabayashi[1], Yasunori Sasakura[2], Akira Nakamura[3], Takashi Yamamoto[1] ([1]Dept. of Math. and Life Sci., Hiroshima Univ., [2]Shimoda Mar. Res. Cent., Univ. Tsukuba, [3]RIKEN CDB) P.135

11:00 **WS2b-9** (P3-073) **Selective epigenetic gene regulation via DNA demethylation and bivalent histone modification in primordial germ cells.**

○Kentaro Mochizuki[1], Makoto Tachibana[2], Mitinori Saitou[3], Yuko Tokitake[1], Yasuhisa Matsui[1] ([1]Inst. of Development, Aging and Cancer, Tohoku Univ., [2]Inst. for Virus Res., Kyoto Univ., [3]Grad. Sch. of Med., Kyoto Univ.) P.135

11:15 **WS2b-10** (P3-070) **A toxic protein in cultured cells is functional only in mammalian mature sperm formation**
○Nobuyoshi Takasaki[1], Kouichi Tachibana[1], Satoshi Ogasawara[1], Hideki Matsuzaki[1], Jun Hagiuda[2], Hiromichi Ishikawa[2], Keiji Mochida[3], Kimiko Inoue[3], Narumi Ogonuki[3], Atsuo Ogura[3], Toshiaki Noce[4], Chizuru Ito[5], Kiyotaka Toshimori[5], Hisashi Narimatsu[1] ([1]Medical Glycoscience, AIST, [2]Tokyo Dental Collage, [3]Riken BRC, [4]Keio University, [5]Chiba University) P.135

Workshop 3b Gene expression and Epigenetics

May 31 (Thu) 9:00-11:15 Room 3 (401+402)

Organizers : Haruhiko Koseki (RIKEN, RCAI), Jun K. Takeuchi (The Univ. of Tokyo)

9:00 **WS3b-1** (P3-105) **PRDM14 promotes active DNA demethylation through base excision repair pathway in embryonic stem cells.**
○Yoshiyuki Seki[1], Yuichi Kumaki[2], Mitinori Saitou[3], Masaki Okano[2], Kuniaki Ebi[1] ([1]Dep. of Bio., Sch. of Sci. and Tech., K.G., Univ., [2]Lab. for Mam. Epi. Stud., RIKEN CDB, [3]Dep. of Anat. and Cell Biol., Grad. Sch. of Med., Kyoto Univ.) P.136

9:15 **WS3b-2** (P3-097) **A transcription factor Abf1 facilitates ORC binding onto the Saccharomyces cerevisiae replication origin via histone acetylase Gcn5.**
○Hidetsugu Kohzaki[1,2,3], Kaeko Kamei[2,4], Yota Murakami[1,5] ([1]Dept. Cell Biol., IVR, Kyoto Univ., [2]Venture Lab., Kyoto Inst. Tech, [3]Japan Leukaemia Research Fund, [4]Dept. Biomolecular Engineering, Kyoto Inst. Tech, [5]Dept. Chem., Faculty of Science, Hokkaido Univ.) P.136

9:30 **WS3b-3** (P3-098) **Roles of actin-related proteins in chromatin function and nuclear organization**
Yukako Oma[1], Hiroshi Kitamura[1], Tatsunori Konishi[1], Susan Gasser[2], Pavel Hozak[3], ○Masahiko Harata[1] ([1]Lab. of Mol. Biol., Grad. Sch. of Agri. Sci, Tohoku Univ., [2]Friedrich Miescher Institute for Biomedical Research, [3]Department of Biology of the Cell Nucleus, Institute of Molecular Genetics ASCR, v.v.i.) P.136

9:45 **WS3b-4** (P3-110) **Meta-cis-regulation of Meis2 transcription**
○Takashi Kondo, Haruhiko Koseki (RCAI, RIKEN) P.136

10:00 **WS3b-5** (P3-102) **Exportin 4 interacts with Sox9 through the HMG box and inhibits the DNA binding of Sox9**
○Hidesato Ogawa[1,2], Megumi Tsuchiya[2], Tokuko Haraguchi[1,2], Yasushi Hiraoka[1,2] ([1]Advanced ICT Research Institute Kobe, NICT, [2]Graduate School of Frontier Biosciences, Osaka Univ.) P.137

Organizers : Akira Nakamura (RIKEN, CDB), Yuji Kageyama (Kobe Univ.)

10:15 **WS3b-6** (P3-101) **HTZ-1/H2A.z maintains the fates of somatic gonadal cells through the repression of *ceh-22*/Hox in an H3K27me-independent manner**
○Yukimasa Shibata[1,2], Hitoshi Sawa[2,3], Kiyoji Nishiwaki[1] ([1]Dep. of Biosci., Sch. of Sci. and Tech., Kwansei Gakuin Univ., [2]RIKEN CDB, [3]NIG) P.137

10:30 **WS3b-7** (P3-109) **Histone demethylase LSD1 navigates hematopoietic commitment of the hemangioblast**
○Makoto Kobayashi, Mana Watanabe, Miki Takeuchi (Mol. Dev. Biol., Fac. of Med. Sci., Univ. of Tsukuba) P.137

10:45 **WS3b-8** (P3-106) **Post-translational modification of Charlatan, a Drosophila NREF/REST-like repressor, is required for neuron specific genes expression**
Young-Mi Lim, Yasutoyo Yamasaki, ○Leo Tsuda (National Center for Geriatrics and Gerontology) P.137

11:00 **WS3b-9** (P3-113) **Chk1 phosphorylates the tumor suppressor Mig-6, regulating the activation of EGF signaling**
○Masatoshi Kitagawa, Kyoko Kitagawa, Yojiro Kotake, Hiroyuki Niida, Ning Liu (Dep. of Biochemistry 1, Hamamatsu Univ. Sch. of Med.) P.138

Workshop 4b High-technology and Bioimaging

May 31 (Thu) 9:00-11:30 Room 4 (403)

Organizers : Shigetomo Fukuhara (NCVC), Mitsutoshi Setou (Hamamatsu Univ. Sch. Med.)

9:00 **WS4b-1** (P3-119) **Improving spinning disc confocal microscopy using two-photon excitation for live imaging of GFP-transgenic animals.**
○Togo Shimozawa[1], Kazuo Yamagata[2], Hiroshi Nakayama[3], Yasuhito Kosugi[3], Yuko Mimori-Kiyosue[1] ([1]Opt. Image Analysis Unit, RIKEN Cent. for Dev. Biol., [2]Dept. of Exp. Gen. Res., Gen. Inf. Res. Cent., Res. Inst. for Micro. Dis., Osaka Univ., [3]Life Sci. HQ., Prod. Mark. Sec., Yokogawa Electric Co.) P.138

9:15 **WS4b-2** (P3-124) **Kinetic analysis and live imaging of whole mouse embryo**
○Kenichi Nakazato[1], Atsushi Mochizuki[1], Takehiko Ichikawa[2], Shigenori Nonaka[2] ([1]Theoretical Biology Laboratory, RIKEN, [2]NIBB) P.138

9:30 **WS4b-3** (P3-114) **Live Imaging of Protein Kinase Activities in Transgenic Mice**
○Yuji Kamioka[1], Kenta Sumiyama[2], Rei Mizuno[1], Michiyuki Matsuda[1] ([1]Grad. Sch. of Med., Kyoto Univ., [2]National Institute of Genetics, Div. of Pop. Genet.) P.139

9:45 **WS4b-4** (P3-126) **Functions and spatiotemporal activation patterns of Rho family GTPases in living new neurons migrating in the postnatal mouse brain.**
○Takao Hikita[1], Akihisa Ohno[1], Masato Sawada[1], Haruko Ota[1], Michiyuki Matsuda[2], Kazunobu Sawamoto[1] ([1]Dept. of Dev. and Regene. Biol., Nagoya City Uni. Grad. Sch. of Med. Sci., [2]Lab. of Bioimag. and Cell Signal., Grad. Sch. of Biostudies, Kyoto Univ.) P.139

10:00 **WS4b-5** (P3-120) **Biomolecular imaging of *C. elegans* by MALDI-IMS**
○Saira Hameed[1], Yoshishige Kimura[1], Yuki Sugiura[2], Takahiro Hayasaka[1], Naok_Goto Inoue[3], Mitsutoshi Setou[1] ([1]Dept. of Cell Bio. and Anatomy, Hamamatsu Univ. School of Med., Japan, [2]Dept. of Medical Biochemistry, School of Med., Keio Univ., Japan, [3]Graduate School of Human Health Sci., Tokyo Metropolit. Univ., Japan) P.139

Organizers : Kazuki Horikawa (Natl. Inst. of Genetics), Naoki Watanabe (Tohoku Univ.)

10:15 **WS4b-6** (P3-116) **Parallel detection of changes in cytoplasmic dynamics at the cortical division site and cell division processes in a cell using global-local live imaging microscope (GLIM) system**
Daisuke Tamaoki, Toru Saruwatari, Tomonori Nakai, ○Yoshinobu Mineyuki (Dep. of Life Sci., Grad. Sch. of Life Sci., Univ. of Hyogo) P.139

10:30 **WS4b-7** (P3-118) **Microtubule flow in dividing plant cells as visualized by speckle microscopy**
○Takashi Murata[1,3], Shigenori Nonaka[2,3], Mitsuyasu Hasebe[1,3] ([1]Div. of Evol. Biol., Natl. Inst. for Basic Biol., [2]Lab. for Spatiotemporal Regul., Natl. Inst. for Basic Biol., [3]Dept. of Basic Biol., Sch. of Life Sci., Grad. Univ. for Advanced Studies) P.140

10:45 **WS4b-8** (P3-123) **Improved single-molecule speckle microscopy methods which enable to analyze dynamics of various actin structures.**
○Sawako Yamashiro[1], Hiroaki Mizuno[1], Matthew B. Smith[2], Gillian L. Ryan[2], Dimitrios Vavylonis[2], Naoki Watanabe[1] ([1]Tohoku University Graduate School of Life Sciences, [2]Dept. of Physics, Lehigh Univ., Bethlehem, PA, USA) P.140

11:00 **WS4b-9** (P3-115) **Label-free Raman observation of cytochrome c dynamics in apoptotic cells**
○Masaya Okada[1], Nicholas I. Smith[2], Almar F. Palonpon[3], Satoshi Kawata[1,4], Mikiko Sodeoka[3,4], Katsumasa Fujita[1,3] ([1]Dept. of Appl. Phys., Univ. of Osaka, [2]Immunol. Front. Res. Ctr., Univ. of Osaka, [3]JST, [4]RIKEN) P.140

11:15 **WS4b-10** (P3-122) **Fine mapping of autophagy-related proteins during autophagosome formation in *Saccharomyces cerevisiae***
○Kuninori Suzuki[1], Manami Akioka[2], Chika Kondo[2], Yoshinori Ohsumi[2] ([1]Bioimaging Center, Grad. School of Frontier Sciences, Univ. of Tokyo, [2]Frontier Research Center, TITECH) P.140

Workshop 5b Evolution / Diversity / Early development / Morphogen

May 31 (Thu) 9:00-11:15 Room 5 (501)

Organizers : Shinji Takada (Natl. Inst. for Basic Biol.), Naoyuki Fuse (Kyoto Univ.)

9:00 **WS5b-1** (P3-135) **Maternal mRNA recruitment is required for DNA replication in mouse zygote**
○Shin Murai[1], Yusuke Fukuda[2], Yukiko Katagiri[2], Mineto Morita[2], Shigeru Yamashita[1] ([1]Dept of Biochem, Toho Univ, Sch of Med, [2]Dept of Obst and Gyn, Toho Univ, Sch of Med) P.141

9:15 **WS5b-2** (P3-138) **The forkhead transcription factor FoxB1 mediates body axis coordination and developmental canalization during early *Xenopus* embryogenesis.**
○Kimiko Takebayashi-Suzuki, Hidenori Konishi, Atsushi Suzuki (Institute for Amphibian Biology, Hiroshima University Graduate School of Science) P.141

9:30 **WS5b-3** (P3-154) **Regulation of *orthodenticle* and Wnt/Cad signaling pathway in anterior-posterior axis patterning during cricket early embryogenesis**
○Taro Nakamura, Taro Mito, Hideyo Ohuchi, Sumihare Noji (Dept. of Life systems, Inst. of Tech. and Sci., The Univ. of Tokushima) P.141

9:45 **WS5b-4** (P3-153) **Antagonizing Retinoic Acid and FGF/MAPK pathways control posterior body patterning in the invertebrate chordate Ciona intestinalis.**
○Andrea Pasini[1], Raoul Manenti[2], Ute Rothbacher[1], Patrick Lemaire[3] ([1]IBDML Institut de Biologie du Developpement de Marseille-Luminy, CNRS, [2]Universita di Milano, Milan, Italy, [3]CRBM, Montpellier, France) P.141

WS5b-5 **Withdraw**

Organizers : Hiroshi Wada (Tsukuba Univ.), Hajime Ogino (NAIST)

10:00 **WS5b-6** (P3-132) **Comparative gene expression analysis of heterochronic development of marsupial cranial neural crest**
○Yoshio Wakamatsu[1], Noriko Osumi[1], Kunihiro Suzuki[2] ([1]Div. of Dev. Neurosci., Grad. Sch. of Med., Tohoku Univ., [2]Nihon Univ. Sch. Dentistry at Matsudo) P.142

10:15 **WS5b-7** (P3-144) **Development of a new culture method for a precursor to the neural crest and pre-placodal ectoderm**
○Yasuyo Shigetani, Masataka Okabe (Dep. of Anat., Jikei Univ. Sch. of Med.) P.142

10:30 **WS5b-8** (P3-150) **Conservation and diversity of *Six1* gene enhancers in chordates**
○Shigeru Sato[1], Keiko Ikeda[1], Go Shioi[2], Kazuki Nakao[2], Shinichi Aizawa[2], Hiroshi Yajima[1], Kiyoshi Kawakami[1] ([1]Div. of Biology, Ctr. for Mol. Med., Jichi Med. Univ., [2]LARGE, CDB) P.142

10:45 **WS5b-9** (P3-147) **Evolution of a tissue-specific silencer underlies divergence in the expression of paralogues**
○Hajime Ogino, Haruki Ochi, Tomoko Tamai, Hiroki Nagano, Akane Kawaguchi, Norihiro Sudou (Grad. Sch. of Biol. Sci., NAIST) P.143

11:00 **WS5b-10** (P3-129) **Reconsidering the mechanistic view of embryogenesis.**
○Naoki Irie, Shigeru Kuratani (RIKEN CDB) P.143

Workshop 6b Multicellular construction and Morphogenesis

May 31 (Thu) 9:00-11:15 Room 6 (502)

Organizers : Hitoshi Sawa (Natl. Inst. of Genetics), Hiroshi Sasaki (Kumamoto Univ.)

9:00 **WS6b-1** (P3-160) **Analysis of pattern formation in multicellular cyanobacteria by CA model**
○Jun-ichi Ishihara[1,2], Masashi Tachikawa[2], Hideo Iwasaki[1], Atsushi Mochizuki[2] ([1]Dept. of Electr. Engin. and Biosci., Waseda Univ., [2]Theoretical Biology Laboratory, RIKEN) P.143

9:15 **WS6b-2** (P3-172)
The relation of a periodic pattern formation to iterative protrusion structures in *Neobeckia* leaves.
○Akiko Nakamasu[1], Nobuhiko_J Suematsu[1,2], Seisuke Kimura[3] ([1]MIMS, Meiji Univ., [2]Graduate School of Advanced Mathematical Sciences, Meiji University, [3]Department of Bioresource and Environmental Sciences, Kyoto Sangyo University)
P.143

9:30 **WS6b-3** (P3-169)
Mathematical analysis for vascular and spot patterns by auxin and PIN dynamics in plant development
○Yoshinori Hayakawa[1,2], Atsushi Mochizuki[1,2] ([1]Dept Comput. Intelligence & Sys. Science, Tokyo Institute of Technology, [2]Theoretical Biology Laboratory, RIKEN)
P.144

9:45 **WS6b-4** (P3-178)
Building up the spiculous skeleton: the collaborative work of multiple types of cells in sponges
Yudai J Nakata[1], Kazushi Arima[1], Sohei Nakayama[1,2], Kiyokazu Agata[1], ○Noriko Funayama[1] ([1]Dept. of Biophysics, Graduate school of Science, Kyoto Univ., [2]Division of Multicellular organization, National Institute of Genetics)
P.144

10:00 **WS6b-5** (P3-175)
Regulation of the systemic growth by insulin-like peptides during Drosophila development
Naoki Okamoto, Tomoka Murai, ○Takashi Nishimura (Lab. of Growth Control Signaling, RIKEN CDB)
P.144

Organizers : Toshihiko Fujimori (Natl. Inst. for Basic Biol.), Etsuko Kiyokawa (Kanazawa Med. Univ.)

10:15 **WS6b-6** (P3-163)
Live cell imaging of collective migration in 3D morphogenesis of epithelial cells
○Misako Imai, Takeomi Mizutani, Kazushige Kawabata, Hisashi Haga (Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ.)
P.144

10:30 **WS6b-7** (P3-166)
Dynamic calcium signals in the node of mouse embryo during the time course of left-right axis formation
○Daisuke Takao[1], Rieko Kanda[1], Tomomi Nemoto[2], Hiroko Kajiura-Kobayashi[1], Takehiko Ichikawa[1], Shigenori Nonaka[1] ([1]Lab. for Spatiotemporal Regulations, NIBB, [2]Lab. of Mol. and Cell. Biophys., RIES, Hokkaido Univ.)
P.145

10:45 **WS6b-8** (P3-157)
Visualizing morphogen diffusion dynamics during lung branching morphogenesis in vitro.
○Takashi Miura (Kyoto University Graduate School of Medicine)
P.145

11:00 **WS6b-9** (P3-181)
Quantitative geometrical analysis of tissue deformation during vertebrate limb development
○Yoshihiro Morishita[1], Takayuki Suzuki[2] ([1]RIKEN CDB, [2]Graduate school of science, Nagoya University)
P.145

Poster Session 1

May 29 (Tue) 14:10-16:10

P1-001 (JYSS1-1) **D Secondary Neurulation: The tail-specific neural formation is supported by a novel type of neural stem cells**

○Teruaki Kawachi, Eisuke Shimokita, Yoshiko Takahashi (Graduate School of Biological Sciences, Nara Institute of Science and Technology)

P1-002 **Dynamic changes in GDNF distribution and their direct interaction with GFRa1-positive spermatogonia in hamster testes**

○Takeshi Sato[1,2], Yoshimi Aiyama[1], Mayuko Ishii-Inagaki[1], Naoki Tsunekawa[1], Kyoko Harikae[1], Mai Shinomura[1], Natsumi Ueki[1], Masami Kanai-Azuma[3], Michio Fujiwara[2], Yoichi Miyamae[2], Masamichi Kurohmaru[1], Yoshiakira Kanai[1] ([1]Dep. of Vet. Anat., Univ. of Tokyo, [2]Drug Safe. Res. Labs, Astellas Pharma Inc., [3]Cent. for Exp. Anim., Tokyo Med. and Dent. Univ.)

P1-003 (JYSS1-2) **C Pregnenolone is required for the centrosomal localization of sSgo1 to maintain the centriole engagement.**

○Mayumi Hamasaki[1,2], Shigeru Matsumura[1], Fumiko Toyoshima[1] ([1]Inst. for Virus Res., Kyoto Univ., [2]Grad. Sch. Biostudies, Kyoto Univ.)

P1-004 (JWS-A1) **D Tubule elongation and cell epithelialization are coordinately regulated by FGFs emanating from adjacent tissues**

○Yuji Atsuta, Yoshiko Takahashi (Biosci., NAIST)

P1-005 **C ATF6 is essential for induction of ER chaperones required for early development**

○Tokiro Ishikawa[1], Tetsuya Okada[1,5], Yoshihito Taniguchi[4], Tomoko Ishikawa[3], Takeshi Todo[3], Shunichi Takeda[2,5], Kazutoshi Mori[1,5] ([1]Dept. of Biophys., Grad.Sch. of Sci., Kyoto Univ., [2]Dept. of Radiat Genet., Grad.Sch. of Med., Kyoto Univ., [3]Dept. of Radiat Biol. and Med Genet., Grad.Sch. of Med., Osaka Univ., [4]Dept. of Prev Med. and Public Health, Sch. of Med., Keio Univ., [5]JST-CREST)

P1-006 (JYSS1-3) **D Molecular mechanism of the production of neuronal diversity in the Drosophila visual center**

○Takumi Suzuki[1], Masako Kaido[1], Rie Takayama[1], Makoto Sato[1,2] ([1]Brain/Liver Interface Medicine Research Center, Kanazawa Univ., [2]PRESTO)

P1-007 **C Chronological imaging of TPA-induced ERK activation in TG mice expressing a FRET biosensor.**

○Toru Hiratsuka[1], Taichiro Nonaka[2], Gyohei Egawa[3], Kenji Kabashima[3], Michiyuki Matsuda[1] ([1]Dept. of Pathol. and Dis., Grad. Sch. of Med., Kyoto Univ., [2]Dept. of Evol. Med., Shiga. Med. Cent. Res. Inst. Shiga, [3]Dept. of Dermatol., Grad. Sch. of Med. Kyoto Univ.)

P1-008 **Mechanism for morphological abnormalities induced by active Ras in MDCK cyst**

○Atsuro Sakurai[1], Michiyuki Matsuda[1,2], Etsuko Kiyokawa[3] ([1]Lab. Bioimaging and Cell Signal., Grad. Sch. Biostudies., Kyoto Univ., [2]Dept. Pathol Biol Dis., Grad. Sch. Med., Kyoto Univ., [3]Dept. Oncol Pathol., Kanazawa Med Univ.)

P1-009 (JYSS1-4) **C Identification of novel maternal neurogenic genes that are potential components of Notch signaling in Drosophila**

○Kenjiroo Matsumoto[1], Naoki Aoyama[1], Ryo Hatori[1], Takuma Gushiken[1], Akira Ishio[1], Takahiro Seto[1], Yu Atsumi[1], Tomoko Yamakawa[1], Takeshi Sasamura[1], Kenji Matsuno[1,2] ([1]Dept.of Biol. Sci.&Technol., Tokyo Univ. of Sci., [2]Res. Inst. Sci./Tec., Tokyo Univ of Science)

P1-010 (PFT-1) **D Transplantation of Mesenchymal Stem Cells Derived from ES Cells Promotes Re-innervation and Accelerates Functional Recovery of Injured Skeletal Muscle**

○Nana Ninagawa[1], Eri Isobe[2], Yuri Hirayama[2], Yuka Kawabata[2], Mami Kobayashi[1], Shigeko Torihashi[1,2] ([1]Department of Health Sciences, Nagoya University Graduate School of Medicine, [2]Department of Physical Therapy, Nagoya University School of Health Sciences)

P1-011 **Regulation of Na(+)/H(+) exchanger (NHE) 1 by 80kDa protein 4.1R in erythrocytes**

○Wataru Nunomura[1,2], Yuichi Takakuwa[3], Philippe Gascard[4] ([1]Cent. for Geo-Environment. Sci., Akita Univ., [2]Div. of Life Sci., Grad. Sch. of Eng. and Resource Sci., Akita Univ., [3]Dept.of Biochem., Tokyo Women's Med. Univ., [4]Dept. of Pthol., UCSF)

P1-012 (JYSS1-5) **D Expression timing of *Gdf11* and hindlimb position**

○Yoshiyuki Matsubara, Atsushi Kuroiwa, Takayuki Suzuki (Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.)

P1-013 **C A rab11-effector controls ciliary function by regulating cilium length**

○Hajime Fukui, Dai Shiba, Takahiko Yokoyama (Dept. of Anat. and Dev. Biol., Grad. Sch. of Med. Sci., Kyoto Pref. Univ. of Med., Kyoto)

P1-014 **HIV-1 Vpr causes premature sister chromatid separation**

○Mari Shimura[1], Yusuke Toyoda[2,3], Kenta Iijima[1], Kenzo Tokunaga[4], Kinya Yoda[5], Mitsuhiro Yanagida[3], Tetsutaro Sata[4], Yukihito Ishizaka[1] ([1]Dept. of Intractable Diseases, Res. Inst., Nat. Center for Global Health and Med., [2]Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany, [3]Dept. of Gene Mechanisms, Grad. Sch. of Biostudies, Kyoto Univ., [4]Dept. of Pathology, Nat. Inst. of Infectious Diseases, [5]Bioscience Biotech. Center, Nagoya Univ.)

P1-015 (JYSS1-6) **C Augmin plays a dominant role in phragmoplast microtubule generation.**

○Tomohiro Miki, Yuki Nakaoka, Gohta Goshima (Div. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ.)

P1-016 (JWS-A2) **D Massively parallel regulation of head and non-head genes by Otx2, Lim1 and Gsc underlies the evolution of the head organizer in the chordate**

○Yuuri Yasuoka[1], Yutaka Suzuki[2], Shuji Takahashi[3], Norihiro Sudou[1], Yoshikazu Haramoto[3,4], Yukiko Tandou[5], Kaoru Kubokawa[5,6], Ken W. Cho[7], Makoto Asashima[4], Sumio Sugano[2], Masanori Taira[1] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, [2]Dept. of Med. Gen. Sci., Grad. Sch. of Fro. Sci., Univ. of Tokyo, [3]CSLS, KOMEX, Univ. of Tokyo, [4]SCRC, AIST, [5]CAMR, ORI, Univ. of Tokyo, [6]MMBS, Grad. Sch. of Sci., Univ. of Tokyo, [7]Dept. of Dev. and Cell. Biol., and Dev. Biol. Center, UC Irvine)

P1-017 **C High-sensitive *in-vivo* detection of oxidative stress with OKD48 mice.**

○Daisuke Oikawa[1], Ryoko Akai[1,2], Mio Tokuda[2], Takao Iwawaki[1,2,3] ([1]Iwawaki lab, ASRLD Unit, Gunma Univ., [2]ASI, RIKEN, [3]PRESTO, JST)

P1-018 (JYSS1-7) **D Homeodomain-interacting protein kinase 2 promotes Wnt/β-catenin signaling thorough stabilization of Dishevelled in vertebrate posterior development.**

○Nobuyuki Shimimizu, Tohru Ishitani (Div. of Cell Reg. Sys., M.I.B., Univ. of Kyushu.)

P1-019 **C Insight into peroxisome degradation induced by overloading of peroxisome membrane protein in mammalian cells**

○Shun-ichi Yamashita, Yukio Fujiki (Dept. Biol., Fac. Sci., Kyushu Univ. Grad. Sch.)

P1-020 **D Investigation of the metabolic change and its relationship to neural tube closure during mouse development**

○Hidenobu Miyazawa[1], Yoshifumi Yamaguchi[1,2], Masayuki Miura[1,2] ([1]Dept. Genetics, Grad. Sch. Pharmaceutical Sci., Univ. of Tokyo, [2]JST, CREST)

P1-021 (JYSS1-8) **Essential role of p130Cas in cutaneous mechanotransduction**

○Mayumi Takeya[1], Keiichi Haketa[1], Shinya Kasamatsu[1], Akira Hachiya[1], Yuushi Okumura[2], Takeshi Nikawa[2], Takashi Kitahara[1] ([1]Biol. Sci. Lab., Kao Corp., [2]Inst of Health Biosci., Univ. of Tokushima. Grad. Schl.)

P1-022 (JWS-A3) **D Heparan sulfate nanostructures regulate extracellular Wnt distribution and act as a core for Wnt/Dishevelled signalosome formation**

○Yusuke Mii[1], Kenichi Nakazato[2], Chan-Gi Pack[3], Yasushi Sako[3], Atsushi Mochizuki[2], Masanori Taira[1] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, [2]Theor. Biol. Lab. RIKEN, [3]Cell. Inform. Lab. RIKEN)

P1-023 **C Nuclear protein quality control mechanism involves HSP90 to eliminate aberrant proteins from nucleus**

○Takeshi Mizuno[1], Miwa Higaki[1], Asami Shibuya[1], Fumio Hanaoka[2], Naoko Imamoto[1] ([1]Cell. Dynamics lab. ASI,RIKEN, [2]Faculty Sci., Gakushuin Univ)

P1-024 (JYSS1-9) **D Comparative analyses of expression patterns of genes involved in early development between Xenopus and Cynops.**

○Kenta Ito[1,2], Chikara Hashimoto[1,2] ([1]Dept. of Biol. Sci., Sch. of Sci, Osaka Univ., [2]JT Biohistory Research Hall)

P1-025 **C Diphosphorylated myosin II regulatory light chain localizes to the midzone without its heavy chain during cytokinesis**

○Tomo Kondo[1,3], Keiju Kamijo[2], Kozue Hamao[1], Hiroshi Hosoya[1] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci., Hiroshima Univ., [2]Dept. of Ana. and Ant., Grad. Sch. of Med., Tohoku Univ., [3]JSPS Research Fellow)

P1-026 (JWS-A5) **D Transcriptional pulsing dynamics of genes with different functions**

○Tetsuya Muramoto[1,2], Masahiro Ueda[1], Jonathan R Chubb[2,3] ([1]Laboratory for Cell Signaling Dynamics, Quantitative Biology Center, RIKEN, [2]Divisions of Cell and Developmental Biology, College of Life Sciences, University of Dundee, [3]Department of Cell and Developmental Biology and MRC Laboratory for Molecular Cell Biology, University College London)

P1-027 (JYSS1-10)
C The roles of the trans-Golgi network and RAB11 family on endocytosis of receptor kinase FLS2 in plant cells
○Seung-won Choi[1], Takayuki Tamaki[1], Tomohiro Uemura[1], Takashi Ueda[1], Akihiko Nakano[1,2] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci., Univ of Tokyo, [2]Mol. Membrane Biol. Lab, RIKEN Advanced Science Institute)

P1-028
D RNA interference method in the appendicularian, *Oikopleura dioica*
○Tatsuya Omotezako[1], Atsuo Nishino[2], Hiroki Nishida[1] ([1]Dept. of Biol. Sci., Osaka Univ., [2]Dept. of Bio., Faculty of Agric. and Life Sci., Hirosaki Univ.)

P1-029
C A genetic screen and analyses of mitotic cell rounding.
○Yusuke Toyoda[1,2], Martin Stewart[1,2], Cattin Cedric[2], Martina Augsburg[1], Michael Kuhn[1], Mirko Theis[1], Frank Buchholz[1], Daniel Muller[2], Anthony Hyman[1] ([1]Max Planck Institute of Mol. Cell. Biol. and Genet., [2]ETH Zurich, Biosystems Science and Engineering, Basel, Switzerland)

P1-030 (JYSS1-11)
D Promoter-associated noncoding RNAs mediate oocyte-activation-induced CpG and non-CpG demethylation in the early mouse embryo
○Nobuhiko Hamazaki, Takuya Imamura (gCOE., Div. of Biol. Sci., Grad. Sci., Univ. of Kyoto)

P1-031 (PFT-2)
C Proteins misfolded in the nucleus are degraded by a novel mechanism, nuclear export associated degradation (NEAD)
○Shoshiro Hirayama[1], Shun-ichiro Iemura[3], Kazutaka Araki[1], Daisuke Morito[1], Toru Natsume[2], Kazuhiro Nagata[1] ([1]Faculty of Life Sci., Kyoto Sangyo Univ., [2]National Institute of Advanced Industrial Science and Technology, Biomedicinal Information Research Center, [3]Fukushima Medical University School of Medicine)

P1-032
Xenopus *ES1* is expressed in the wound epidermis of regenerating tail and limb bud in tadpole.
○Shigehiro Yasukawa, Kaname Yoshioka, Akira Tazaki, Kenji Watanabe, Makoto Mochii (Grad School of Life Sci., Univ. of Hyogo)

P1-033 (JYSS1-12)
D Novel motif of FoxD3 to get involved in neural crest gene regulatory network.
○Hiroki Ono[1], Jr-Kai Yu[2,3], Hiroshi Wada[1] ([1]Graduate School of Life and Environmental Sciences, Univ. of Tsukuba, [2]Academia Sinica, [3]National Taiwan University)

P1-034
Unexpected Role of α-Fetoprotein in Spermatogenesis
○Futoshi Yazama, Akihiro Tai (Department of Life Sciences, Prefectural University of Hiroshima)

P1-035
D Role of PCP signal molecule Four-jointed in dendrite targeting of *Drosophila* olfactory projection neuron
○Misako Okumura[1], Masayuki Miura[1,3], Takahiro Chihara[1,2] ([1]Dept. Genetics, Grad. Sch. Pharm. Sci., Univ. Tokyo, [2]PRESTO, JST, [3]CREST, JST)

P1-036 (JYSS1-13)
Cereblon is a component of aggresome
○Satoru Wakabayashi[1], Haruka Yamada[1], Toru Asahi[1,2], Naoya Sawamura[1,2] ([1]Faculty of Science and Engineering., Waseda Univ., [2]Consolidated Research Institute for Advanced Science and Medical Care (ASMeW), Waseda Univ.)

P1-037 (JWS-A4)
C Tricellulin regulates epithelial cell shape by controlling actomyosin organization via a Cdc42GEF Tuba
○Yukako Oda[1], Tetsuhisa Otani[2], Junichi Ikenouchi[3], Mikio Furuse[1] ([1]Div. of Cell Biol., Grad. School of Med., Univ. of Kobe, [2]Lab. for Morphogenetic Signalling, RIKEN CDB, [3]Dept. of Synthetic Chem. and Biol. Chem., Grad. School of Engineering, Univ. of Kyoto)

P1-038
Roles of Drosophila homolog of Amyotrophic Lateral Sclerosis 2 (ALS2), a Rab5 GEF, in neuronal dendrite formation
○Yuta Takayama, Reina Ito, Tadashi Uemura (Graduate School of Biostudies, Kyoto University)

P1-039 (JYSS1-14)
D Medaka fused 4 mutant, which exhibits a fusion of vertebrae, encodes *her7* gene
○Shiho Tomizawa, Keiji Inohaya, Tohru Imatomi, Akira Kudo (Dep. of Biol. Info., Tokyo Tech)

P1-040
C An epithelial isoform of LMO7 interacts with actin cytoskeleton through a novel functional region at its N-terminus
○Tomoe Yamauchi[1], Katsushi Owaribe[1], Yuji Nishizawa[2], Yoshiaki Hirako[1] ([1]Division of Biological Science, Graduate School of Science, Nagoya University, [2]College of Life and Health Sciences, Chubu University)

P1-041
D Sox5 is involved in fate specification of pigment cell in medaka
○Yusuke Nagao[1], Tomoko Adachi[2,3], Atsushi Shimizu[4], Ryoko Seki[2], Chikako Inoue[2], Yasuhiro Kamei[5], Ikuyo Hara[6], Yoshihito Taniguchi[7], Kiyoshi Naruse[6], Robert N. Kelsh[3], Yuko Wakamatsu[2], Masahiko Hibi[2], Hisashi Hashimoto[2] ([1]Grad. Sch. of Sci., Nagoya Univ., [2]Biosci. Biotech. Ctr., Nagoya Univ., [3]Dept. of Biol. Biochem., Univ. of Bath, [4]Dept. of Mol. Biol., Sch. of Med., Keio Univ., [5]Spectrography and Bioimaging Facility, NIBB, [6]Lab. of Biores., NIBB, [7]Dept. of Preventive Medicine and Public Health, Sch. of Med., Keio Univ.)

P1-042 (JYSS1-15) **P7BP1 E3 ubiquitin ligase controls the quality of PTS2 receptor, Pex7p**
○Yasuhiro Miyauchi[1], Kosuke Kuroda[2], Satoru Mukai[1], Yukio Fujiki[1,2] ([1]Dept. of Biol., Fac. of Sci.,Kyushu Univ., [2]Grad. Sch. of Sys. Life Sci., Kyushu Univ.)

P1-043 **D** **Evolutionary background of molecular mechanisms of pluripotency seen from birds and reptiles**
○Shota Nakanoh, Kiyokazu Agata (Kyoto Univ. , Dept. of Biophys.)

P1-044 **C** **Cholesterol hops over the compartment boundaries in the plasma membrane an order of magnitude quickly than phospholipids**
○Nao Hiramoto-Yamaki, Takahiro_K. Fujiwara, Kenji_A.K. Tanaka, Kenichi_G.N. Suzuki, Manami_S.H. Miyahara, Koichiro Tanaka, Rinshi_S. Kasai, Akihiro Kusumi (WPI-iCeMS and Inst. for Frontier Med. Sci., Kyoto Univ.)

P1-045 (JYSS1-16) **The pronuclear formation from sperm nuclei in the cell-free system from mouse oocytes**
○Fukashi Inoue[1], Kaori Yamada[1], Tadashi Yamamoto[1], Takeo Kishimoto[2], Miho Ohsugi[1] ([1]Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo, [2]Dep. of Biol. Inform., Grad. Sch. of Biosci. and Biotech., Tokyo Tech)

P1-046 **D** **Prox1 postmitotically defines dentate gyrus cells by specifying the granule cell identity over the default CA3 pyramidal cell fate in the hippocampus**
○Tomohiko Iwano, Aki Masuda, Fumio Matsuzaki (RIKEN CDB)

P1-047 **The role of *Noggin*, a Bone Morphogenetic Protein antagonist, in regulating patterning and growth of craniofacial skeletogenesis.**
○Maiko Matsui, John Klingensmith (Department of Cell Biology, Duke University Medical Center)

P1-048 (JYSS1-17) **C** **The protective influence of syntaxin3 from the oxidative stress in HaCaT keratinocytes**
○Takafumi Miyazaki, Yohei Hirai (Dep.Biosience., Grad. Sch. Sci. Technol., Kwansei. Gakuin Univ.)

P1-049 (PFT-3) **D** **Primordial germ cells transmigrate from blood stream to gonad in avian: novel behavior revealed by live-imaging analyses**
○Daisuke Saito, Tomoaki Torii, Yoshiko Takahashi (NAIST)

P1-050 **C** **Qa-SNAREs localized to the trans-Golgi network regulate multiple transport pathways and extracellular disease resistance in plants**
○Tomohiro Uemura[1], Chieko Saito[2], Kazuo Ebine[1], Takashi Ueda[1], Paul Schulze-Lefert[3], Akihiko Nakano[1,2] ([1]Grad. Sch. Sci., Univ. of Tokyo, [2]RIKEN, ASI, [3]Max Planck Institute for Plant Breeding Research)

P1-051 (JYSS1-18) **Targeted disruption of EGFP transgene in *Xenopus laevis* using customized transcription activator-like effector nucleases (TALENs)**
○Ken-ichi T. Suzuki[1], Keiko Kashiwagi[2], Tetsushi Sakuma[2], Yukiko Isoyama[2], Hiroshi Ochiai[3], Akihiko Kashiwagi[2], Takashi Yamamoto[2] ([1]CMES, Ehime Univ. and Hiroshima Univ., [2]Graduate School of Science, Hiroshima University, [3]Research Institute for Radiation Biology and Medicine, Hiroshima University)

P1-052 **D** **Monomeric *O*-fucose modification of Notch is essential for its folding at high temperature**
○Akira Ishio[1], Tomonori Ayukawa[1], Naoki Aoyama[1], Takeshi Sasamura[1], Kenjiroo Matsumoto[1], Hiroyuki O. Ishikawa[1,2], Tetsuya Okajima[3], Kenji Matsuno[1] ([1]Department of Biological Science and Technology, Tokyo University of Science, [2]G&DRC, Tokyo University of Science, [3]Department of Biochemistry II, Graduate School of Medicine, Nagoya University)

P1-053 **Localization of the precursor cells of adult-type chromatophores in the ocular side precedes asymmetric body coloration in metamorphosing flounder larvae**
○Youhei Washio[1,4], Wu Xiaoming[1], Hayato Yokoi[1], Yuichiro Fujinami[2], Daisuke Shimizu[2], Susumu Uji[3], Tohru Suzuki[1] ([1]Grad.Sch.of Agri.Sci.,Tohoku Univ., [2]Tohoku Nati.Fis.Res.Inst., [3]Nati.Res.Inst. of Aqu., [4]JSPS Research Fellow)

P1-054 (JYSS1-19) **C** **A Novel Microtubule Binding Protein, MARKAP, plays essential roles for the Golgi-Ribbon Formation by Regulating Golgi-Nucleated Microtubules**
○Yoshinori Satoh[1], Kenji Hayashi[2], Yoshiko Amano[2], Takahisa Maki[3], Ikuko Hayashi[3], Shigeo Ohno[1], Atsushi Suzuki[2] ([1]Dep. Mol. Cel. Biol., Grad. Sch. of Med.,Yokohama City Univ., [2]Div. Med. Biosci.Dep.Mol.Cel.,Grad.Sch.of Med.,Yokohama City University., [3]Supramol. Biol, Inter. Grad. Sch. of Arts and Sci., Yokohama City University)

P1-055 **D** **Oocytes transplanted into seminiferous tubules in mice**
○Mai Shinomura, Kyouko Harikae, Ryouhei Nagai, Yoshimi Aiyama, Naoki Tsunekawa, Masamiti Kuroumaru, Yoshiakira Kanai (Dept. of Vet. Anatomy, Univ. of Tokyo)

P1-056 **C** **Dynamics of the Golgi Apparatus in Plant Cells**
○Yoko Ito[1], Tomohiro Uemura[1], Keiko Shoda[2], Masaru Fujimoto[1], Takashi Ueda[1], Akihiko Nakano[1,2] ([1]Grad. Sch. of Sci., Univ. of Tokyo, [2]RIKEN ASI)

P1-057 (JYSS1-20)
D Transgenic zebrafish reveals a novel *cis*-acting element responsible for the spatio-temporally regulated translational activation of cyclin B1 mRNA in oocytes.
○Kyota Yasuda[1], Tomoya Kotani[2], Masakane Yamashita[2] ([1]Grad. Sch. of Life Sci., Hokkaido Univ., [2]Dept. of Biol. Sci., Fac. of Sci., Hokkaido Univ.)

P1-058 (JWS-A6)
C Mitochondrial dysfunction drives non-autonomous tumor progression in *Drosophila*
○Shizue Ohsawa[1], Yoshitaka Sato[1], Masato Enomoto[1], Mai Nakamura[1], Aya Betsumiya[1], Tatsushi Igaki[1,2] ([1]Dept. of Cell Biol., G-COE, Kobe Univ. Grad. Sch. of Med., [2]PRESTO, JST)

P1-059
Identification of a novel ADAMTS9/GON-1 function for protein transport from the ER to the Golgi
○Sawako Yoshina[1,2,4], Kenjiro Sakaki[1], Aki Yonezumi-Hayashi[1,2,6], Keiko Gengyo-Ando[1,2,3], Hideshi Inoue[4], Yuichi Iino[5], Shohei Mitani[1,2,7] ([1]Tokyo Women's Medical Univ. Dept. Physiol., [2]CREST, JST, [3]Saitama Univ. Brain Science Institute, [4]Tokyo Univ. of Pharmacy and Life Sciences, [5]Dept. of Biochemistry and Biophysics, Univ. of Tokyo, [6]Dept. of Allergy and Rheumatology, Univ. of Tokyo, [7]TIIMS, Tokyo Women's Medical Univ.)

P1-060 (JYSS1-21)
C Dynamin affects cytokinesis in Dictyostelium cells
○A.Y.K. MD. MASUD RANA[1], Shinya Miyagishima[2], Shigehiko Yumura[1] ([1]Department of Functional Molecular Biology, Graduate School of Medicine, Yamaguchi University, [2]Symbiosis and Cell Evolution Lab, Center for Frontier Research, National Institute of Genetics, 1111 Yata, Mishima, Shizuoka 411-8540)

P1-061
Arsenite-induced downreguation of catalase via c-Met- and PI3K- dependent mechanisms in HepG2 cells
○Soohee Kim[1], Seung Heon Lee[1], Seungwoo Lee[1], Sukmo Kang[1], Jung-Duck Park[2], Doug-Young Ryu[1] ([1]College of Veterinary Medicine, Seoul National University, [2]College of Medicine, Chung-Ang University)

P1-062
C Movement of cortical actin cables is driven by type V myosins in interphase fission yeast cells.
○Jun Kashiwazaki, Issei Mabuchi (Dept. of Life Sci., Faclt. of Sci., Gakushuin Univ.)

P1-063 (JYSS1-22)
D Microtubule interacting protein Dogi is required for neurite branching and elongation in *Drosophila* olfactory projection neurons
○Chisako Sakuma[1], Vladimir I Gelfand[5], Liqun Luo[4], Masayuki Miura[1,3], Takahiro Chihara[1,2,4] ([1]Dept. Genetics, Grad. Sch. Pharm. Sci, Univ. Tokyo, [2]PRESTO, JST, Japan, [3]CREST, JST, Japan, [4]HHMI, Dept. Biol., Stanford Univ. USA, [5]Dept. Cell and Mol. Biol., Northwestern Univ. Feinberg Sch. Med., USA)

P1-064
D Soft substrates are effective in establishment of iPS cells without preparation of feeder cells.
○Sayaka Higuchi, Tomonobu Watanabe, Hideaki Fujita (Laboratory for Comprehensive Bioimaging, RIKEN, Quantitative Biology Center (QBiC))

P1-065
Preferential release of newly generated insulin assessed by a multi-labeling reporter system.
○Seiji Torii[1], Ni Hou[1], Hideo Mogami[2] ([1]Inst. of Mol. Cell. Reg., Gunma Univ., [2]Dpt. Helth Nutrition, Hamamatsu Univ.)

P1-066 (JYSS2-1)
D Extrinsic factor controls blastema proliferation and survival during fin fold regeneration
○Tomoya Hasegawa, Teruhiro Nakajima, Takashi Ishida, Atsushi Kawakami (Dept.Biol.Info.,Tokyo Inst.Tech)

P1-067
Adult and larval sensory neurons use different mechanisms to specify dendritic fields.
○Kei-ichiro Yasunaga, Kazuo Emoto (Dept. of Cell Biol., OBI)

P1-068
D LGR4 is required for the development of mammary gland in mice
○Kazunori Oyama[1], Yasuaki Mohri[1], Mizuki Sone[1], Akihiro Nawa[2], Katsuhiko Nishimori[1] ([1]Lab. of Mol. Biol. Grad. Sch. of Agric. Science, Tohoku University, [2]Dept. of ObGyn, Grad. Sch. of Med., Univ. of Ehime)

P1-069 (JYSS2-2)
D Live-imaging analysis of SCAT3 transgenic mice revealed the contribution of apoptosis and caspase-activation to the smooth progression of mouse cranial neural tube closure
○Naomi Shinotsuka[1], Yoshifumi Yamaguchi[1,2], Keiko Nonomura[1], Ayako Yoshida[1], Kiwamu Takemoto[3,4], Keisuke Kuida[5], Hiroki Yoshida[6], Masayuki Miura[1,2] ([1]Dep. of Genetics, Grad. of Pharm. Sci., Univ. of Tokyo, [2]CREST, [3]Grad. Sch. Med., Yokohama City Univ., [4]PREST, [5]Millennium, The Takeda Oncology Company, [6]Grad. Sch. Med., Saga Univ.)

P1-070
Establishment of the cancer cell line preferably forming a cell-in-cell structure
○Tomoaki Kahyo, Haruhiko Sugimura (Tumor Pathology, Hamamatsu Univ. Sch. Med.)

P1-071 (PFT-4)
D Disruption of inter-epithelial signaling causes EMT
○Takashi Yoshino[1], Daisuke Saito[1], Chihiro Uchiyama[1], Kiyotoshi Sekiguchi[2], Yuji Atsuta[1], Yoshiko Takahashi[1] ([1]Bio., NAIST, [2]IPR, Osaka Univ.)

P1-072 (JYSS2-3)
C Rab33a mediates anterograde vesicular transport for membrane exocytosis and axon outgrowth
○Hitomi Nakazawa[1], Tadayuki Sada[1], Michinori Toriyama[1], Kenji Tago[1], Tadao Sugiura[2], Mitsunori Fukuda[3], Naoyuki Inagaki[1] ([1]Grad. Sch. of Biol. Sci., Nara Inst. of Sci. and Technol., [2]Grad. Sch. of Inform. Sci., Nara Inst. of Sci. and Technol., [3]Grad. Sch. of Life Sci., Tohoku Univ.)

P1-073 **Phactr3, protein phosphatase 1 and actin regulatory protein, modulates the membrane-actin dynamics by interacting with acidic phospholipids through the N-terminal domain.**
○Atsushi Uchiyama, Masaomi Yamada, Junji Sagara (Dept. of Biomedical Lab Sci., Grad. Sch. of Med., Univ. of Shinshu)

P1-074 **D The developmental role of *Mab21l2*: neuronal specification in the neural tube**
○Gus C. M. Chan, Siva W.H. Tsang, King L. Chow (Division of Life Science, The Hong Kong University of Science and Technology)

P1-075 (JYSS2-4) **C Exophilin7 promotes fusion of undocked granule in pancreatic β cells**
○Ray Ishizaki, Hao Wang, Jun Xu, Kazuo Kasai, Hiroshi Gomi, Tetsuro Izumi (Dept. of Molecular Medicine, IMCR, Gunma Univ.)

P1-076 (JWS-A7) **D Conserved role for the Dachshund protein with *Drosophila* Pax6 homolog Eyeless in insulin expression**
○Naoki Okamoto, Takashi Nishimura (CDB, RIKEN Kobe Institute)

P1-077 **D *Hox* and *Lef1* directly regulate the enhancer of *Fgf10* in a limb bud initiation process**
○Taishi Ueta, Hiroaki Higuchi, Ayumi Tanaka, Hiroyuki Inaba, Takehiro Hitokoto, Daiki Isobe, Takayuki Suzuki, Atsushi Kuroiwa (Div. of Biol Sci., Grad Sch of Sci., Univ. of Nagoya)

P1-078 (JYSS2-5) **C The impact of extracellular syntaxin4 on HaCaT keratinocyte behavior**
○Nanako Kadono[1], Yoji Okugawa[1], Kiichiro Nakajima[2], Yohei Hirai[1] ([1]Dep. Bioscience., Grad. Sch. Sci. Technol. Kwansei Gakuin Univ., [2]KNC Laboratories, KNC bioresearch center)

P1-079 (JWS-A8) **C Dynamic Organization of Paracrystalline Actin Bundles by IKKepsilon**
○Tetsuhisa Otani[1], Takuya Maeda[1], Kazuyo Misaki[2], Shigenobu Yonemura[2], Shigeo Hayashi[1] ([1]RIKEN CDB, Lab for Morphogenetic Signaling, [2]RIKEN CDB, Electron microscope laboratory)

P1-080 (JYSS2-6) **D A Myelin Gene Regulatory Transcription Factor Regulates Cell Differentiation**
○Hiroshi Senoo[1], Tsuyoshi Araki[2], Masashi Fukuzawa[1], Jeffrey G. Williams[2] ([1]Department of Biology, Faculty of Agriculture and Life Science, University of Hirosaki, [2]College of Life Sciences, Welcome Trust Building, University of Dundee)

P1-081 **Phactr2 and phactr3, phosphatase-actin regulators: Immunohistochemical study indicates roles in neurons and epithelial cells.**
○Masaomi Yamada[1], Junji Sagara[1], Yukihiro Kobayashi[2], Atsushi Uchiyama[1], Kenji Sano[2] ([1]Dept. of Biomedical Lab Sci., Grad. Sch. of Med., Univ. of Shinshu, [2]Shinshu university hospital clinical laboratory)

P1-082 (JWS-A9) **D Genome-wide view of transcriptional programs governing neuronal subtype-specific dendrite morphogenesis in vivo**
○Yukako Hattori[1], Tadao Usui[1], Daisuke Satoh[1], Kohei Shimono[1], Takehiko Itoh[2], Katsuhiko Shirahige[3], Tadashi Uemura[1] ([1]Grad. Sch. of Biostudies, Kyoto Univ., [2]Grad. Sch. of Biosci. and Biotech., Tokyo Inst. of Tech., [3]Inst. of Mol. and Cell. Biosci., Univ. of Tokyo)

P1-083 (JYSS2-7) **Correction error of kinetochore-microtubule attachment induces mitotic centrosome disintegration**
○Kenji Iemura, Tadashi Yamamoto, Miho Ohsugi (Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo)

P1-084 (JWS-A10) **C Cortactin functions as a clutch molecule to promote axon outgrowth**
○Yusuke Kubo[1], Michinori Toriyama[1], Tadao Sugiura[2], Naoyuki Inagaki[1] ([1]Grad. School of Biol. Sci., Nara Inst. of Sci. and Technol., [2]Grad. School of inform. Sci. , Nara Inst. of Sci. and Technol.)

P1-085 **D Regulatory networks for robust lung branching patterning proposed by mathematical modeling**
○Tsuyoshi Hirashima (Fclty of Med., Kyoto Univ.)

P1-086 (JYSS2-8) **D Spatiotemporally controlled cell-cycle transitions coupled to anterior-posterior axis formation in a chordate.**
○Yosuke Ogura, Yasunori Sasakura (Shimoda Marine Res. Cen., Univ. of Tsukuba)

P1-087 **C Analysis of N-terminal motif suppressing ER-targeting**
○Haruka Sakaue, Shohei Iwashita, Yuichiro Kida, Masao Sakaguchi (Grad.Sch.Life Sci.Univ.Hyogo)

P1-088 **Combination of Gefitinib and Luteolin promotes cell death through inhibit of GAK in human prostate cancer cells PC-3.**
○Minami A. Sakurai[1], Yuki Ozaki[1], Yoko Naito[1], Akihiko Ito[2], Norikazu Yabuta[1], Hiroshi Nojima[1] ([1]Dept. of Mol. Genet., Res. Inst. for Microbial Diseases, Osaka Univ., [2]Dept. of Pathology, Kinki Univ. School of Medicine)

P1-089 (JYSS2-9) **D Mathematical analysis of growth control mechanisms in the Drosophila wing disc**
○Ken-ichi Hironaka[1], Yoshihiro Morishita[2] ([1]Math. Bio. Lab., Grad. Sch. of Sys. Life Sci., Kyushu Univ., [2]Lab. for Dev. Morphogeometry, RIKEN CDB)

P1-090 (PFT-5) **C Biased assembly of the nuclear pore complex determines nuclear differentiation in the ciliate *Tetrahymena thermophila***
○Masaaki Iwamoto[1], Takako Koujin[1], Fumihide Bunai[1], Hiroko Osakada[1], Chie Mori[1], Haruhiko Asakawa[1,2], Yasushi Hiraoka[1,2,3], Tokuko Haraguchi[1,2,3] ([1]Advanced ICT Research Institute, NICT, [2]Grad. Sch. of Front. Biosci., Osaka Univ., [3]Grad. Sch. of Sci., Osaka Univ.)

P1-091 **Coping With Stress in Hypertrophic Chondrocytes: The Role of PERK Pathway**
○WANG Cheng[1], Zhijian Tan[1], Kwok Yeung Tsang[1], Keith Leung[1], David Ron[2], Danny Chan[1], Kathyrn Cheah[1] ([1]Dept. of Biochemistry, The University of Hong Kong, [2]Kimmel Center for Biology and Medicine, Skirball Institute, New York University School of Medicine)

P1-092 (JYSS2-10) **D Establishment of a drug-inducible gene recombination system in the mouse germ cell lineage and its application to an analysis of the function of *Blimp1***
○Takayuki Hirota[1,2], Hiroshi Ohta[1,2], Mayo Shigeta[3], Hitoshi Niwa[3], Mitinori Saitou[1,2] ([1]Grad. Sch. Med., Kyoto Univ., [2]ERATO, JST, [3]RIKEN CDB)

P1-093 **C Evolutionary experiment with a pair of new mating types by manipulating the mating pheromone and its cognate receptor protein in fission yeast**
○Taisuke Seike, Taro Nakamura, Chikashi Shimoda (Dept. of Biol., Grad. Sch. of Science, Osaka City Univ.)

P1-094 **D *Ubx* in the visceral mesoderm of *Drosophila* midgut specifies developmental fate of the underneath endoderm by suppressing the fate of adjacent midgut regions through the action of Dpp**
○Masahiko Arishige[1], Yumiko Harada[2], Keita Fujimoto[1], Lily Shimooka[1], Ryutaro Murakami[1] ([1]Grad. Sch. Med., Yamaguchi Univ., [2]Grad. Sch. Sci. Eng., Yamaguchi Univ.)

P1-095 (JYSS2-11) **C Chemical screening of protein kinase affected mitochondrial ATP synthesis.**
○Kanako Sugawara[1,2], Makoto Fujikawa[1,3], Masasuke Yoshida[1,2] ([1]JST, ICORP, ATP-synthesis Regulation Project, [2]Faculty of Life Science, Kyoto Sangyo University, [3]Department of Biochemistry, Faculty of Pharmaceutical Sciences, Tokyo University of Science)

P1-096 (JWS-A11) **D Nodal/Activin promotes sex differentiation of male germ cells through MAPK P38 signaling pathway**
○Quan Wu[1,2], Rie Saba[1], Kohei Kanata[3], Hiroshi Hamada[3], Yumiko Saga[1] ([1]NIG, [2]SOKENDAI, [3]GSFB, Osaka University)

P1-097 **C The live imaging analysis of dynamin-2 dynamics on microtubules in the cell**
○Makiko Morita, Kozue Hamao, Hiroshi Hosoya (Dep. of Biol. Sci., Grad. Sch. of Sci., Hiroshima University)

P1-098 (JYSS2-12) **C Post-transcriptional regulation of gene expression by Khd1, Ccr4, and Pbp1.**
○Yuichi Kimura, Kenji Irie (Grad. Sch. of Comprehensive Human Sci., Univ. of Tsukuba)

P1-099 **D An essential role for type IIA procollagen in mouse inner ear development**
○Michael W.H. Kwong[1], Snadra YY Wong[1], Kathryn SE Cheah[1], Patrick P.L.Tam[2], Bernd Fritzsch[3] ([1]Department of Biochemistry, The University of Hong Kong, Li Ka Shing Faculty of Medicine, 21 Sassoon Rd, Hong Kong, China., [2]Embryology Unit, Children Medical Research Institute, Sydney, New South Wales, Australia, [3]Department of Biomedical Sciences, Creighton University, Omaha, NE 68178, USA)

P1-100 **Polyamines added in the culture medium inhibit Ca2+-dependent cell adhesion and induce cell dissociation at blastula stage in Xenopus embryos**
○Koichiro Shiokawa[1,2], Takeshi Kondo[2], Jun-Ichi Takai[2], Chikara Kaito[3], Senji Takahashi[2], Kazuei Igarashi[4] ([1]Department of Judo Therapy, Faculty of Medical Technology, Teikyo University, [2]Department of Biosciences, School of Science and Engineering, Teikyo University, [3]Graduate School of Pharmaceutical Sciences, University of Tokyo, [4]Graduate School of Pharmaceutical Sciences, Chiba University)

P1-101 (JYSS2-13) **D The LIM-homeodomain factors regulate early eye development in the chick**
○Junji Inoue[1], Takumi Kawaue[1], Satoshi Ishihara[1], Yuuki Ueda[1], Sumihare Noji[1], Hideyo Ohuchi[1,2] ([1]Department of Life Systems, Institute of Technology and Science, The University of Tokushima, [2]Department of Cytology and Histology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, 2-5-1 Shikata-cho, Okayama 700-8558, Japan)

P1-102 **Producing fgf24BAC:GFP transgenic fish by using Tol2 transposon mediated BAC transgenesis in zebrafish**
○Gembu Abe[1], Maximiliano L. Suster[1,2], Koichi Kawakami[1,3] ([1]Div. of Mol. and Dev. Biol., NIG, [2]SIC, Univ. of Bergen, Norway, [3]Dep. of Genetics, Grad. Univ. for Advanced Studies)

P1-103 (JWS-A12) **D A localized factor polarizes mesendoderm cells and separates mesoderm and endoderm fates in the ascidian embryo.**
○Naohito Takatori (Osaka University)

P1-104 (JYSS2-14) **D Shh-Fgf18 regulation is disrupted in tooth root development of Ptc mes mutants**
○Masato Ota, Shigeru Okuhara, Sachiko Iseki (Unit. of Mol. Craniofacial Emb., Tokyo Med. Dent. Univ.)

P1-105 **Dynamics of cell membrane during fast-cell migration**

○Takeomi Kikuchi, Shigehiko Yumura (Applied Molecular Bioscience, Graduate School of Medicine, Yamaguchi University)

P1-106 **D Meningeal cells regulate astrocytic differentiation in the embryonic mouse brain**

○Tsukasa Sanosaka, Masakazu Namihira, Kinichi Nakashima (Lab. of Mol. Neurosci., Grad. Sch. of Biol. Sci., Nara Inst. of Sci. Tech (NAIST))

P1-107 **NDR kinase is required for ciliogenesis through the phosphorylation of Rabin8**

(JYSS2-15)

○Yuta Homma[1], Shuhei Chiba[1], Yuta Amagai[1], Shinichiro Kanno[2], Akira Yasui[2], Mitsunori Fukuda[3], Kensaku Mizuno[1] ([1]Dept. Biomol. Sci., Grad. Sch. Life Sci., Tohoku Univ., [2]IDAC, Tohoku Univ., [3]Dept. Dev. Biol. & Neurosci., Grad. Sch. Life Sci., Tohoku Univ.)

P1-108 **D Spatiotemporal repression coordinates projection neuron production onset in the cerebral cortex**

○Takuma Kumamoto[1], Ken-ichi Toma[1,2], Gunadi Gunadi[1], Will McKenna[3], Takeya Kasukawa[4], Bin Chen[3], Carina Hanashima[1] ([1]Laboratory for Neocortical Development, RIKEN CDB, [2]Department of Biology, Graduate School of Science, Kobe University, [3]Department of Molecular, Cell and Developmental Biology, UCSC, [4]Functional Genomics Unit, RIKEN CDB)

P1-109 **C De-ubiquitinating enzyme for a moyamoya disease-susceptible protein, Mysterin**

(JWS-B1)

○Yuri Kotani[1], Daisuke Morito[1], Shunichiro Iemura[2], Toru Natsume[2], Kazuhiro Nagata[1] ([1]Faculty of Biological Sciences, Kyoto Sangyo Univ., [2]AIST)

P1-110 **D Metastatic behavior of human cancer cells in chicken embryos: site-specific exit from a blood vessel and attraction to peripheral ganglia**

(JYSS2-16)

○Taiji Yasue, Yoshiko Takahashi (NARA Institute of Science and Technology)

P1-111 **Regulation of Jagged1 expression in Sertoli cells of mouse testis.**

○Ryu Okada[1], Taro Hara[1], Megumi Ogino[1], Kohko Kumano[1], Yukio Nishina[2] ([1]Grad. of Nanobiosci., Yokohama City Univ., [2]Graduate School of Nanobioscience, Yokohama City University)

P1-112 **D Spatio and temporal regulation of notochord midline localization is dependent on β1 integrin mediated cell-matrix interactions**

○Shengzhen Guo[1], Tiffany Au[1], Sarah Wynn[1], Danny Chan[1], Attila Asodia[2], Reinhard Fassler[3], K.S.E Cheah[1] ([1]Dept. of Biochemistry, Univ. of Hong Kong, [2]Ludwig-Maximilians-University, Munich, [3]Max Planck Institute of Biochemistry, Martinsried, Germany)

P1-113 **C Vinexin alters properties of focal adhesion depending on extracellular matrix stiffness**

(JYSS2-17)

○Takafumi Ichikawa[1], Hiroshi Yamashita[1], Yasuhisa Kimura[1], Ichiro Harada[3], Kazumitsu Ueda[1,2], Noriyuki Kioka[1] ([1]Div. of Appl. Life Sci., Grad. Sch. of Agri., Kyoto Univ., [2]iCeMS, Kyoto Univ., [3]Dep. Biomol. Eng., Grad. Sch. of Biosci and Biotech., Tokyo Inst. of Tech.)

P1-114 **D Microtubule-dependent dorsal determination in zebrafish**

○Hiromu Hino[1], Ryoko Seki[2], Tran D. Long[3], Karuna Sampath[3], Takashi Shimizu[1,2], Masahiko Hibi[1,2] ([1]Univ. of Nagoya, [2]Bioscience and Biotechnology Center, Nagoya University, [3]Temasek Lifesciences Laboratory)

P1-115 **D Mitotic cell rounding accelerates invagination of the *Drosophila* tracheal placode**

(PFT-6)

○Takefumi Kondo, Shigeo Hayashi (RIKEN CDB)

P1-116 **D Analysis of cell movement in the multicellular tissue of *Dictyostelium discoideum* by 4D live-imaging.**

(JYSS2-18)

○Toru Uchikawa[1], Masato Yasui[1], Masahiro Ueda[1], Kei Inouye[2] ([1]Graduate School of Frontier Biosciences, Osaka Univ., [2]Department of Botany, Graduate School of Science, Kyoto Univ.)

P1-117 **C Mammalian skin-specific retroviral-like aspartic protease, SASPase is a key modulator of skin mosturization**

(JWS-B11)

○Takeshi Matsui[1,2], Kenichi Miyamoto[3], Akiharu Kubo[4,5], Hiroshi Kawasaki[4], Tamotsu Ebihara[4], Kazuya Hata[6], Shizuko Ichinose[7], Issei Imoto[8,9], Johji Inazawa[8], Jun Kudoh[3], Masayuki Amagai[4] ([1]iCeMS, Kyoto Univ., [2]MTT, Med. Res. Inst., Tokyo Med. & Dent. Univ., [3]Lab. of Gene Med., Keio Univ. Sch. of Med., [4]Dept. of Dermatol., Keio Univ Sch. of Med., [5]Center for Integ. Med. Res., Keio Univ Sch. of Med., [6]Sunplanet Co. Ltd, [7]Res. Cent. for Med. & Dent. Sci., Tokyo Med. & Dent. Univ., [8]Dept. of Mol. Cytogenet., Med. Res. Inst. & Sch. of Biomed. Sci., Tokyo Med. & Dent. Univ., [9]Dept. of Human Genet. & Public Health, Inst. of Health Biosci., Univ. of Tokushima Grad. Sch.)

P1-118 **D A novel Oct-3 downstream gene, ODG1 interact with HDAC1 and is required for organogenesis in mouse**

○Ryo Nabeshima[1], Takako Maeda[1], Mami Ohsugi[2], Chikara Meno[3], Yasuo Sakai[4], Kenta Yashiro[5], Hiroshi Hamada[1] ([1]Developmental Genetics Group Graduate School of Frontier Biosciences OSAKA UNIVERSITY, [2]Laboratory of Cellular and Developmental Biology, NIDDK, National Institutes of Health, [3]Department of Developmental Biology, Graduate School of Medical Sciences, Kyushu University, [4]Department of Plastic Surgery, Osaka University School of Medicine, [5]William Harvey Research Institute, Barts & The London School of Medicine & Dentistry, Queen Mary University of London)

P1-119 (JYSS2-19) **D Analysis of Notch signaling pathway in the water flea, Daphnia magna.**

○Masaki Uehara, Saori Ohmiawa, Shinichi Tokishita, Yasuhiro Shiga (Sch. of Life Sci., Tokyo Univ. of Pharm. & Life Sci.)

P1-120 **Role of RAREn-regulated Nodal expression in development**

○Kohei Kanata, Hidetada Shiratori, Hiroshi Hamada (Developmental Genetics Group Graduate School of Frontier Biosciences OSAKA UNIVERSITY)

P1-121 (JWS-B9) **D Neurotransmitter receptors are essential for controlling developmental transition via steroid hormone biosynthesis in *Drosophila***

○Yuko Shimada-Niwa, Jevgenija Maramzina, Ryusuke Niwa (Grad. School of Life and Environmental Sciences, Univ. of Tsukuba)

P1-122 (JYSS2-20) **C The functional and morphological control of B16 melanoma cells by syntaxin3**

○Michiko Shono, Ryosuke Yoshioka, Yohei Hirai (Dept.Life Sci., Univ. of Kwanseigakuin)

P1-123 **D Further simple method for in-tube whole-mount in situ hybridization in C.elegans embryos**

○Satoshi Takaoka, Isato Araki (Dept. of Chem. & Bioeng., Fac. of Eng., Iwate Univ.)

P1-124 **Embryonic morphogenesis and organization of vascular and nervous networks in mouse craniofacial region**

○Yuji Taya, Yoshihito Shimazu, Kazuya Fujita, Yuuichi Soeno, Kaori Sato, Takaaki Aoba (Dept. of Pathol., Nippon Dental Univ., Sch. of Life Dentistry at Tokyo)

P1-125 (JYSS2-21) **D Melanosome transfer during skin pigmentation: a novel method to study intercellular signaling between melanocytes and keratinocytes *in vivo***

○Hidetaka Murai, Ryosuke Tadokoro, Ken-ichiro Sakai, Yoshiko Takahashi (Nara Institute of Science and Technology)

P1-126 (JWS-B4) **C Cell movement on cilia in the statolith formation of ctenophore**

○Naoki Noda (Marine Biological Laboratory)

P1-127 **Translational control of *cyclin B1* mRNA by RNA granule formation in vertebrate oocytes**

○Tomoya Kotani[1], Kyota Yasuda[2], Ryoma Ota[1], Masakane Yamashita[1] ([1]Fac. of Sci., Hokkaido Univ., [2]Grad. Sch. of Life Sci., Hokkaido Univ.)

P1-128 (JYSS2-22) **D Advanced methods for the construction, evaluation and application of TALENs**

○Tetsushi Sakuma[1,2], Sayaka Hosoi[1], Hiroshi Ochiai[2,3], Tatsuya Miyamoto[3], Shinya Matsuura[3], Naoaki Sakamoto[3], Sumihare Noji[4], Takashi Yamamoto[1] ([1]Dept. of Math. and Life Sci., Grad. Sch. of Sci., Hiroshima Univ., [2]JSPS Research Fellow, [3]Dept. of Rad. Biol., Res. Inst. for Rad. Biol. and Med., Hiroshima Univ., [4]Dept. of Life Systems, Inst. of Tech. and Sci., The Univ. of Tokushima Grad. Sch.)

P1-129 **Effect of NRG1 and ATRA on the proliferation and differentiation of undifferetitated spermatogonia in mouse**

○Jidong Zhang[1], Satomi Yamada[1], Ko Eto[1], Kazuki Nakao[2], Hiroshi Kiyonari[2], Shin-ichi Abe[1] ([1]GSST, Kumamoto Univ, [2]CDB, RIKEN)

P1-130 (JWS-B3) **D Apoptosis facilitates mammalian early brain development by eliminating morphogen-producing cells**

○Keiko Nonomura[1], Yoshifumi Yamaguchi[1,2], Misato Hamachi[1], Masato Koike[3], Yasuo Uchiyama[3], Hiroki Yoshida[4], Keisuke Kuida[5], Masayuki Miura[1,2] ([1]Dept. Genetics, Grad. Sch. Pharm. Sci., Univ. Tokyo, [2]CREST, JST, [3]Juntendo University, [4]Saga Univ. Med. Sch., [5]Millennium: The Takeda Oncology Company)

P1-131 (JYSS3-1) **C Live-cell imaging of sperm cell delivery during double fertilization in *Arabidopsis thaliana***

○Yuki Hamamura[1], Tetsuya Higashiyama[2,3] ([1]Live-imaging center, Nagoya Univ., [2]Divi. Sci., Nagoya Univ., [3]JST, ERATO)

P1-132 **C Imaging of temperature distribution in living cells**

○Kohki Okabe[1], Seiichi Uchiyama[1], Noriko Inada[2], Yoshie Harada[3], Takashi Funatsu[1] ([1]Grad. Sch. of Parm. Sci., Univ. of Tokyo, [2]Grad. Sch. of Biol. Sci., NAIST, [3]Inst. of iCeMS, Kyoto Univ.)

P1-133 **D Functional analysis of scratch2 in developing tectum of chick embryos**
○Nozomi Onodera, Takuo Akitaya, Isato Araki (Dept. of Chem. & Bioeng., Fac. of Eng., Iwate Univ)

P1-134 (JYSS3-2) **C Role of Adf1 in the process of formation and contraction of the contractile ring in fission yeast cells.**
○Ei-ichi Uyeda, Jun Kashiwazaki, Issei Mabuchi (Dept. of Life Sci., Faclt. of Sci., Gakushuin Univ.)

P1-135 **D TAG1 shapes neural progenitor cells and regulates interkinetic nuclear migration and histogenesis in the developing neocortex**
○Mayumi Okamoto[1], Takashi Namba[2], Kozo Kaibuchi[2], Takaki Miyata[1] ([1]Dept. Anat. and Cell Biol., Nagoya Univ. Grad. Sch. of Med., [2]Dept. Cell Pharmacol., Nagoya Univ. Grad. Sch. of Med.)

P1-136 **Src family kinase regulates brown adipogenesis**
○Mai Usui, Kazunori Sunadome, Eisuke Nishida (Graduate School of Biostudies, Kyoto University)

P1-137 (JYSS3-3) **C Temperature dependency of Ca^{2+} dynamics in a migrant cell.**
○Hideki Itoh[1], Madoka Suzuki[2,3], Kotaro Oyama[1], Shin'ichi Ishiwata[1,2,3] ([1]Dept. of Pure and Appl. Phys., Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., [2]WABIOS, Waseda Univ., [3]Org. Univ. Res. Init., Waseda Univ.)

P1-138 (PFT-7) **D In vivo imaging of medaka fracture healing reveals that cyclooxygenase-2 plays an important role in inducing osteoclasts for bone remodeling.**
○Kazuhiro Takeyama[1], Masahiro Chatani[1], Yoshiro Takano[2], Akira Kudo[1] ([1]Dept. of Biological Information, Tokyo Tech, [2]Sect. Biostructural Science, Grad. Sch. of TMDU)

P1-139 **C Methotorexate induces E-cadherin expression in colon cancer cells**
○Tamaki Hirano, Masahiro Kawamura, Asami Kato, Mana Tamura, Reiko Satow, Kiyoko Fukami (Tokyo University of Pharmacy and Lifesciences)

P1-140 (JYSS3-4) **C Evolution of ER stress response -UPR in Ciona intestinalis-**
○Shogo Yamaguchi[1], Ryotarou Senoo[1], Daisuke Mimaki[1], Tokiro Ishikawa[1], Yutaka Satou[2], Kazutoshi Mori[1] ([1]Department of Biophysics, Graduate School of Science, Kyoto University, [2]Department of Zoology, Graduate School of Science, Kyoto University)

P1-141 **Protein localization and functional analysis of POU-V Oct60 transcription factor in *Xenopus laevis***
Yoshihisa Takaichi[1], Keigo Shimada[1], ○Misa Sugiura[1], Hideo Kubo[2], Keisuke Morichika[1], Tsutomu Kinoshita[1] ([1]Dept. Life Science, Univ. Rikkyo, [2]Tokyo Metro. Inst.)

P1-142 (JWS-B5) **D Regulation of hole size in basement membrane during cell invasion in *C. elegans***
○Shinji Ihara[1], David Sherwood[2], Hitoshi Sawa[1] ([1]Multicellular Organization Laboratory, National Institute of Genetics, [2]Duke University)

P1-143 (JYSS3-5) **D The active stem cell specific expression of sponge Musashi homolog *EflMsiA* suggests its involvement in maintaining the stem cell state**
○Kazuko Okamoto[1], Mikiko Nakatsukasa[2], Alexandre Alie[1], Kiyokazu Agata[1], Noriko Funayama[1] ([1]Dept. Biophys. Grad. Sch. Sci., Kyoto univ., [2]CDB, RIKEN)

P1-144 **C Analyses on the roles of two actin-binding domains of D411-2p protein involved in cytokinesis of *Dictyostelium***
○Hironori Inaba[1], Issei Mabuchi[2], Koji Yoda[1], Hiroyuki Adachi[1] ([1]Dep. of Biotech., Grad. of Agr. and Life Sci., Univ. of Tokyo, [2]Sch. of Sci., Dep. of Life Sci., Gakushuin Univ.)

P1-145 **Whole amputation of the tail is required for its regeneration in Xenopus**
○Akira Iimura, Toshiyasu Suzuki, Morioh Kusakabe, Eisuke Nishida (Department of Cell and Developmental Biology, Graduate School of Biostudies, Kyoto University)

P1-146 (JYSS3-6) **D Raldh2, an enzyme involved in retinoic acid (RA) biosynthesis, is essential for osteogenesis in the medaka vertebral column.**
○Mai Tasaki, Keiji Inohaya, Satoshi Ohisa, Akira Kudo (Dept. Biol. Info., Tokyo. Inst. Tech.)

P1-147 (JWS-B6) **C Coordinated Ciliary Beating Requires Odf2-Mediated Polarization of Basal Bodies via Basal Feet**
○Koshi Kunimoto[1], Yuji Yamazaki[1], Tomoki Nishida[1], Kyosuke Shinohara[1], Hiroaki Ishikawa[2], Toshiaki Hasegawa[1], Takeshi Okanoue[3], Hiroshi Hamada[1], Tetsuo Noda[4], Atsushi Tamura[1], Shoichiro Tsukita[5], Sachiko Tsukita[1] ([1]Osaka Univ., [2]UCSF, [3]Saiseikai Suita Hosp., [4]Cancer Inst. of Japanese Foundation for Cancer Res., [5]Kyoto Univ.)

P1-148 **D Immunoelectron microscopic studies of the ectopic β-subunit of ATP synthase in the ascidian egg**
○Hirokazu Ishii[1], Manabu Tanaka[2], Kyoko Hatano[2], Takahito Nishikata[1,3] ([1]FIRST, Konan Univ., [2]GSHES, Kyoto Univ., [3]FIBER, Konan Univ.)

P1-149 (JYSS3-7)
Modelling wave propagation dynamics in MDCK wound healing assay.
○Yusuke Sawabu[1], Masaharu Nagayama[2], Takashi Miura[3], Hiroyuki Kitahata[4] ([1]Div. of Math. and Phys. Sci., Inst. of Nat. Sci. and Tech., Kanazawa Univ., [2]Fac. of Math. and Phys., Inst. of Sci. and Eng., Kanazawa Univ., [3]Dept. of Anat. and Dev. Bio., Kyoto Univ. Grad. Sch. of Med., [4]Dept. of Phys., Chiba Univ., Grad. Sch. of Sci.)

P1-150
D Prenatal jaw movement affects molecular cascade in the mandibular condylar cartilage development
○Esrat Jahan[1], Matsumoto Akihiro[1], Ryuju Hashimoto[1], Ashiq Mahmood Rafiq[1], Jun Udagawa[3], Joji Sekine[2], Hiroki Otani[1] ([1]Department of Developmental Biology, Faculty of Medicine, Shimane University, [2]Department of Oral and Maxillofacial Surgery, Faculty of Medicine, Shimane University., [3]Department of Anatomy, Shiga University of Medical Science, Otsu, Japan.)

P1-151
Identification of nuclear localization signals to distinguish macronucleus and micronucleus in bi-nucleated *Tetrahymena thermophila*
○Tokuko Haraguchi[1,2,3], Masaaki Iwamoto[1], Hiroko Osakada[1], Chie Mori[1], Koji Nagao[4], Chikashi Obuse[4], Yasushi Hiraoka[1,2,3] ([1]Advanced ICT Res. Inst. Kobe, NICT, [2]Grad. Sch. of Sci., Osaka Univ., [3]Grad. Sch. of Frontier Biosci., Osaka Univ., [4]Grad. Sch. of Life Sci., Hokkaido Univ.)

P1-152
C Phosphorylation form of hormone-sensitive lipase responsible for shrinking of lipid droplets in adipocytes
○Masafumi Nagayama[1], Hiromu Watanabe[1], Kyoko Shimizu[2], Toshio Taira[2], Tsutomu Uchida[1], Kazutoshi Gohara[1] ([1]Div. of Appl. Phys., Fac. of Eng., Hokkaido Univ., [2]Primary Cell Co., Ltd.)

P1-153 (JWS-B7)
D The Regulation of FGF Signaling by MT1-MMP in Calvarial Osteogenesis
H. L. X. Wong, K. M. Chan, ○Z. Zhou (Dep. of Biochemistry, Li Ka Shing Faculty of Med., Univ. of Hong Kong)

P1-154
C Morphology-based Prediction of Differentiation Potential of Mesenchymal Stem Cells
○Hiroto Sasaki[1], Ichiro Takeuchi[2], Rumi Sawada[3], Hiroyuki Honda[1], Ryuji Kato[4] ([1]Graduate School of Engineering, Nagoya University, [2]Nagoya Institute of Technology, [3]Division of Medical Devices, National Institute of Health Sciences, [4]Graduate School of Pharmaceutical Sciences, Nagoya University)

P1-155 (JYSS3-9)
D Efficient production of knockout crickets using zinc-finger nucleases
○Takahito Watanabe[1], Hiroshi Ochiai[2], Tetsushi Sakuma[2], Taro Nakamura[1], Tetsuya Bando[1], Taro Mito[1], Hideyo Ohuchi[1], Takashi Yamamoto[2], Sumihare Noji[1] ([1]Dept. of Life Systems, Inst. of Tec. and Sci., Univ. of Tokushima, [2]Dept. of Math. and Life Sci., Grad. School of Sci., Hiroshima Univ.)

P1-156 (PFT-8)
C PI3K-Akt pathway controls Polo-like kinase 1 (Plk1)
○Kousuke Kasahara[1,2], Hidemasa Goto[1,3], Ichiro Izawa[1], Nobumoto Watanabe[4], Tohru Kiyono[5], Masaki Inagaki[1,3] ([1]Div. of Biochem., Aichi Cancer Ctr. Res. Inst., [2]Dept. of Oncol., Grad. Sch. of Pharm. Sci., Nagoya City Univ., [3]Dept. of Cell. Oncol., Grad. Sch. of Med., Nagoya Univ., [4]Chem. Biol. Core Fac., Chem. Biol. Dept., RIKEN ASI, [5]Div. of Virol., Natl. Cancer Ctr. Res. Inst.)

P1-157
D Epigenetic factors and the capacity for heart regeneration in mammals.
○Ryo Nakamura[1,2], Kazuko Koshiba Takeuchi[1,2], Yuko Tsukahara[1], Mizuyo Kojima[1], Jun K. Takeuchi[1,2,3] ([1]Cardiovas. Reg., IMCB, the University of Tokyo, [2]Graduate School of Sciences, the University of Tokyo, [3]JST, PRESTO)

P1-158 (JYSS3-10)
C Decrease of the nuclear pore complex density during human erythroid terminal differentiation
○Yasuhiro Hirano, Yasushi Hiraoka (Grad. Sch. of Front. Biosci., Osaka Univ.)

P1-159
Identification of a novel Golgi kinase that phosphorylates biomineralization proteins.
○Hiroyuki O. Ishikawa[1], Aiguo Xu[2], Eri Ogura[1], Gerard Manning[3], Kenneth D. Irvine[2] ([1]Grad Sch Sci, Chiba Univ, [2]HHMI/Waksman Inst, Rutgers Univ, USA, [3]Salk Inst, USA)

P1-160 (JWS-B2)
D Live imaging analyses of melanosome-transfer in the developing skin
○Ryosuke Tadokoro, Hidetaka Murai, Kenichiro Sakai, Takahiro Okui, Yoshiko Takahashi (Grad. Sch. of Biol. Sci., NAIST)

P1-161 (JYSS3-11)
D Cohesin Controls Planar Cell Polarity by Regulating the Level of the Seven-Pass Transmembrane Cadherin Flamingo
○Kousuke Mouri[1], Shin-ya Horiuchi[1], Tadashi Uemura[1,2] ([1]Kyoto Univ., [2]CREST, JST)

P1-162 (JWS-B8)
C Roles of mDia, a Rho effector and actin nucleator, in neuroepithelium integrity and neuroblast migration
○Dean Thumkeo[1], Ryota Shinohara[1], Keisuke Watanabe[2], Hirohide Takebayashi[2], Naoko Kaneko[3], Kazunobu Sawamoto[3], Toshimasa Ishizaki[1], Tomoyuki Furuyashiki[1], Shuh Narumiya[1] ([1]Department of Pharmacology, Kyoto University Faculty of Medicine, [2]Division of Neurobiology and Anatomy, Niigata University, [3]Department of Developmental and Regenerative Biology, Nagoya City University School of Medical Sciences)

P1-163
Tensegrity in the developing brain: how tensile and compressive forces are balanced and woven?
○Takaki Miyata (Anat. & Cell Biol., Nagoya Univ. Grad. Sch. Med.)

P1-164 (JYSS3-12) **D Characterization of the physical force generated by the leading edge mesoderm during Xenopus gastrulation**

○Yusuke Hara[1,2,3], Kazuaki Nagayama[4], Takeo Matsumoto[4], Makoto Suzuki[1,2], Naoto Ueno[1,2] ([1]Dept. of Basic Biol., School of Life Sci., SOKENDAI, [2]Div. of Morphogenesis, NIBB, [3]JSPS Research Fellow, [4]Biomechanics Lab., NITECH)

P1-165 **C Regulation of Cell Polarity by Myosin II**

○Koushirou Fujimoto, Shigehiko Yumura (Applied Molecular Bioscience, Graduate School of Medicine, Yamaguchi University)

P1-166 **Identification and developmental expression of leucine-rich repeat-containing G protein-coupled receptor 6 (lgr6) in the medaka fish, Oryzias latipes**

○Toshio Takahashi[1], Tomonori Deguchi[2], Takashi Kawasaki[2], Hiroe Oonishi[2], Shunsuke Yuba[2] ([1]Suntory Foun., for Life Sci., Bioorg., Res., Inst., [2]Natl., Inst., of Ad., Indus., Sci., and Tech.)

P1-167 (JYSS3-13) **D Stimulation of ectopic cell differentiation and organ formation by the histone demethylase, Jmjd3**

○Norihiro Sudou, Akane Kawaguchi, Haruki Ochi, Hajime Ogino (NAIST)

P1-168 **Cell density-dependent nuclear accumulation of ELK3**

○Shu Tanaka[1], Kazuyuki Nakao[1], Toshihiro Sekimoto[2], Yoshihiro Yoneda[1,2] ([1]Department of Frontier Biosciences, Graduate School of Frontier Biosciences, Osaka University, [2]Department of Biochemistry, Graduate School of Medicine, Osaka University)

P1-169 (JYSS3-14) **D The Gbx2 homeodomain protein functions as a transcriptional repressor in zebrafish embryos and embryonal carcinoma cells.**

○Yukiko Nakayama, Kimihito Yoshikawa, Zhe Wang, Maiko Kanai, Kyo Yamasu (Div. Life Sci., Grad. School Sci. Eng., Saitama Univ.)

P1-170 **C Analysis on Molecular Mechanism of Cellular Senescence Induced by Expression of A Mutant Lamin A Protein, Progerin**

○Kazuki Ochiai, Takuya Tominaga, Akira Matsuura (Graduate School of Advanced Integration Science, Chiba University)

P1-171 (JWS-B10) **D Different levels of the TRIM protein Asap confer distinct patterns of axonal connections in *Drosophila* sensory neurons**

○Rei K. Morikawa, Kazuo Emoto (Osaka Biosci. Inst.)

P1-172 (JYSS3-15) **D The role of cilia in hedgehog signaling in fish**

○Takayoshi Yamamoto[1], Keiichiro Kamura[1,2], Tatsuya Tsukahara[1], Atsuko Shimada[1], Sumito Koshida[1], Hiroyuki Takeda[1] ([1]Dept. of Biol. Scis., Grad. Sch. of Sci., Univ. of Tokyo, [2]IMEG, Univ. of Kumamoto)

P1-173 **C Dynamics of alpha B-crystallin and microtubules in beating cardiac myocytes**

○Eri Ohto-Fujita[1], Miho Shimizu[1], Yoriko Atomi[2] ([1]Grad. School of Inform. Sci. Tech., Univ. of Tokyo, [2]RI Center, Univ. of Tokyo)

P1-174 (PFT-9) **D Paralogous enhancers: a crossover point between developmental robustness and stress response**

○Haruki Ochi, Akane Kawaguchi, Tomoko Tamai, Hajime Ogino (Nara Institute of Science and Technology)

P1-175 (JYSS3-16) **DEAD-box protein Ddx46 is required for the maintenance of hematopoietic stem cells in zebrafish definitive hematopoiesis**

○Ryo Hirabayashi, Shunya Hozumi, Yutaka Kikuchi (Dep. of Bio. Sci., Grad. Sch. of Sci., Hiroshima Univ., Japan)

P1-176 **C Research on the reception mechanism for pollen tube attractants LUREs**

○Satohiro Okuda[1], Hiroaki Goto[1], Takamasa Suzuki[1,2], Hitoshi Mori[3], Narie Sasaki[1], Tetsuya Higashiyama[1,2] ([1]Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ., [2]JST, ERATO, Higashiyama Live-Holonics Project, [3]Dep. of Bioeng. Sci., Grad. Sch. of Bioagri. Sci., Nagoya Univ.)

P1-177 **Yeast cytoplasmic Hsp70, Ssa2p, is a novel tRNA-binding protein that is involved in tRNA import into the nucleus.**

Takuya Kajita[1], Akira Takano[1], Makoto Mochizuki[1], Toshiya Endo[1], ○Tohru Yoshihisa[1,2] ([1]Dept. of Chem., Grad. Sch. of Sci., Nagoya Univ., [2]Res. Ctr. for Materials Sci., Nagoya Univ.)

P1-178 (JYSS3-17) **C Endoplasmic reticulum (ER) calcium depletion is a cause of physiological ER stress in differentiating myoblast cells**

○Keiko Nakanishi[1], Kisa Kakiguchi[2], Shigenobu Yonemura[2], Akihiko Nakano[1,3], Nobuhiro Morishima[1] ([1]Mol. Membrane Biol. Lab., RIKEN ASI, [2]Electron Microscope Lab., RIKEN CDB, [3]Grad. School of Science, The Univ. of Tokyo)

P1-179 (JWS-B12)
D Prickle and Spiny-legs ratio regulates global tissue coordination in planar cell polarity
○Tomonori Ayukawa[1], Juergen A. Knoblich[2], Takehiko Sasaki[3], Masakazu Yamazaki[1] ([1]Akita University Graduate School of Medicine, [2]Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA), [3]Department of Pathology and Immunology, Akita University School of Medicine)

P1-180
Tongue and palate development in Shh-/+MFCS4+/-
○Shigeru Okuhara[1], Tomoko Sagai[2], Ryosuke Nagaoka[1], Takanori Amano[2], Toshihiko Shiroishi[2], Sachiko Iseki[1] ([1]Dept. of Mol. Craniofac. Emb., Grad. Sch. of Dent. and Med. Sci., Tokyo Medical and Dental Univ., [2]Mammal. Genet. Lab.,Nat'l Inst of Genet.)

P1-181 (JYSS3-18)
C Cdc42 promotes sprouting angiogenesis through formin-like 3-mediated formation of endothelial filopodia in zebrafish
○Yuki Wakayama[1], Shigetomo Fukuhara[1], Koji Ando[1,2], Michiyuki Matsuda[3], Naoki Mochizuki[1] ([1]Dept. of Cell Biol., Natl. Cereb. and Cardiovasc. Ctr. Res. Inst., [2]Dept. of Cell. Signal., Grad. Sch. Pharm. Sci., Tohoku Univ., [3]Dept. of Pathol. and Biol. of Dis., Grad. Sch. Med., Kyoto Univ.)

P1-182
D Genetic approaches to identify the mechanisms involved in cellular movement during the looping morphogenesis in *Drosophila*
○Emi Maekawa, Erina Kuranaga (Laboratory for Histogenetic Dynamics, RIKEN CDB)

P1-183
Cell morphology processing software designed for non-biased analysis: MorphIQ
○Ryuji Kato[1], Hiroto Sasaki[2], Yukio Uchida[3], Hiroyuki Honda[2] ([1]Graduate School of Pharmaceutical Sciences, Nagoya University, [2]Graduate School of Engineering, Nagoya University, [3]DITECT Corporation)

P1-184 (JYSS3-19)
D The role of Robo1 in the morphological development of cortical upper-layer pyramidal neurons.
○Yuko Gonda[1], William D. Andrews[2], Hidenori Tabata[3], Takashi Namba[4], John G. Parnavelas[2], Kazunori Nakajima[3], Shinichi Kohsaka[5], Shigeo Uchino[5], Carina Hanashima[1] ([1]Laboratory for Neocortical Development, RIKEN Center for Developmental Biology, [2]Dept. of Cell and Dev. Biol., UCL, London, [3]Dept. of Anat., Keio Univ. Sch. of Med., Tokyo, [4]Dept. of Cell Pharma., Nagoya Univ. Grad. Sch. of Med., Nagoya, [5]Dept. of Neurochem., Natl. Inst. Neurosci.,Tokyo)

P1-185
Withdraw

P1-186 (PFT-10)
C Function of a neurogenic gene, *pecanex* in Notch signaling.
○Tomoko Yamakawa[1], Kenta Yamada[1], Takeshi Sasamura[1], Naotaka Nakazawa[1], Maiko Kanai[1], Emiko Suzuki[2], Mark E. Fortini[3], Kenji Matsuno[1] ([1]Dept. of Biol. Sci./Tec., Tokyo Univ. of Sci., [2]Gene Network Lab., NIG, [3]Dept. of Biochem./ Mol. Biol., Thomas Jefferson Univ., [4]Gene Network Laboratory)

P1-187 (JYSS3-20)
D Functional analysis of epigenetic regulation during embryogenesis of the cricket, *Gryllus bimaculatus*
○Yuji Matsuoka (Dept. of Life System, Inst. of Tech. and Sci., Univ. of Tokushima)

P1-188
Mechanical stress induces muscle cell differentiation and adapts lipid metabolism to energy demand
○Kota Miyasaka, Maiko Ogawa, Toshihiko Ogura (Dev. Neuro. Biol., IDAC, Tohoku university)

P1-189
D Left-right polarization in the cell-shape of epithelium cells occurs cell autonomously during the left-handed rotation of the *Drosophila* gut.
○Ryo Hatori, Naotaka Nakazawa, Kenji Matsuno (Dept. of Tech. and Bio., Tokyo Univ. of Sci.)

P1-190 (JYSS3-21)
C Rab cascade for exocytosis plays a key role in the initiation of spore formation in fission yeast
○Kazuki Imada, Erika Teraguchi, Taro Nakamura (Dept. Biol., Grad. Sch. of Science, Osaka City Univ.)

Poster Session 2

May 30 (Wed) 14:00-16:00

Intracellular trafficking / Organelles / Life of Proteins

P2-001 **Inhibitory mechanism of Crm1-mediated nuclear export of myocardin**
○Ken'ichiro Hayashi, Tsuyoshi Morita (Dept. of Neurosci. Grad. Sch. of Med. Osaka Univ.)

P2-002 **Nuclear localization signal-independent nuclear import of fish germinal vesicle lamin B3 in Xenopus oocytes**
○Akihiko Yamaguchi (Department of Marine Biology, Faculty of Agriculture, Kyushu University)

P2-003 **Formation of the ternary complex of protein 4.1R, p55 and glycophorin C on the transport vesicles, as determined by fluorescence correlation spectroscopy**
○Shotaro Tanaka, Yuichi Takakuwa (Dept. Biochem., Grad. Sch. of Med., Tokyo Women's Med. Univ.)

P2-004 **An attempt to identify novel ciliary genes by database comparison**
○Daisuke Kobayashi, Dai Shiba, Takahiko Yokoyama (Dept. Anat. Dev. Biol., Grad. Sch. Med. Sci., Kyoto Pref. Univ. Med.)

P2-005 (WS1a-8) **The temporal analysis of recruitment of mammalian Atg proteins to the autophagosome formation site**
○Ikuko Koyama-Honda[1,2], Eisuke Itakura[1,2], Takahiro Fujiwara[3], Noboru Mizushima[1] ([1]Dept. of Physiol. and Cell Biol., Tokyo Med. and Dent. Univ., [2]JSPS, [3]iCeMS, Kyoto Univ.)

P2-006 **Isoform specific expression of URATv1/GLUT9 in the kidney and their trafficking in the polarized cells.**
○Toru Kimura, Hiroyuki Sakurai (Dept. Pharmacol., Kyorin Univ. Sch. Med.)

P2-007 **Rab11, the Exocyst complex and SNAREs regulate tethering/fusion of recycling endosomal vesicles with the plasma membrane.**
○Keiji Kubo, Senye Takahashi, Yohei Katoh, Kazuhisa Nakayama (Grad. Sch. Pharmaceut. Sci., Kyoto Univ.)

P2-008 **Functional analysis of Arf small GTPases during cytokinesis**
○Ayako Hanai, Tomoko Ueda, Minako Ohgi, Tomomi Takei, Kazuhisa Nakayama (Graduate School of Pharmaceutical Sciences, Kyoto University)

P2-009 **Sumoylation of RanGAP1 in HSV infection**
Akira Ashizawa[1], ○Tadashi Watanabe[2], Masahiro Fujimuro[2] ([1]Dept. of Mol.r Cell Biol., School of Med., Univ. of Yamanashi, [2]Dept. of Cell Biol., Kyoto Pharm. Univ.)

P2-010 (WS1a-7) **Quantification and mechanics of meiotic cytoplasmic streaming in *C. elegans* early embryos.**
○Kenji Kimura, Ritsuya Niwayama, Akatsuki Kimura (Cell Arch. Lab., Natl. Inst. of Genet.)

P2-011 **DJ-1 and mitochondrial fusion/fission factors are required for formation of a large mitochondrial derivative in Drosophila spermatids**
○Tatsuru Matsuo, Saori Oka, Tsubasa Ogata, Yoshihiro H. Inoue (Kyoto Institute of Technology, Insect Biomedical Research Center)

P2-012 **Invention and application of the super-pausing sequence for translation**
○Ashuei Sogawa, Kota Yanagitani, Koji Kadoi, Kenji Kohno (Dpt. of Biosci., Grd. Sch, of Biosci., NAIST)

P2-013 **Effect of NDGA on the Golgi structures in living cells**
○Toshiyuki Fujiwara, Tomomi Miyazaki, Yukimasa Iwamoto, Yuko Onohara, Sadaki Yokota (Dept. of Funct Anat, Faculty of Pharmaceut Sci., Nagasaki Internat. Univ.)

P2-014 **AP-1 dependent trafficking of Notch during eye development in Drosophila**
○Satoshi Kametaka[1], Ai Kametaka[2], Shinichi Yonekura[3], Satoshi Goto[4], Satoshi Waguri[1] ([1]Dept. of Anat. and Histol., Fukushima Med. Univ., [2]ASI, RIKEN, [3]Center of Project Research Promotion, Shinshu Univ., [4]Dept. of Physiol. Sch. of Med., Keio Univ.)

P2-015 (WS1a-4) **Chromatin signaling relays to the Golgi structure via SUN/KASH protein**
○Miki Hieda, Yu Nishioka, Yuhki Yokoyama, Nariaki Matsuura, Syuji Matsuura (Div. of Health Sci. Grad. Sch. of Med. Osaka Univ.)

P2-016 **Direct validation of the function of intracellular phosphatidylserine in retrograde membrane traffic**
○Shoken Lee[1], Yasunori Uchida[1], Kazuo Emoto[2], Masato Umeda[3], Osamu Kuge[4], Tomohiko Taguchi[1], Hiroyuki Arai[1] ([1]Grad. Sch. of Pharm. Sci., Univ. of Tokyo, [2]Dept. of Cell Biol., Osaka Biosci. Inst., [3]Inst. Chem. Res., Kyoto Univ., [4]Dept. of Chem., Fac. of Sci., Kyushu Univ.)

P2-017 **Distinct *cis*-acting determinants in the first cytoplasmic loop domain control apicobasal distribution of the ATP-binding cassette transporter family C isoforms**
○Yoshikazu Emi, Masao Sakaguchi (Grad. Sch. of Life Sci., Univ. of Hyogo)

P2-018 **USP19 deubiquitinating enzyme regulates stability of TEB4 ubiquitin ligase**
○Nobuhiro Nakamura, Yuki Ebisawa, Shigehisa Hirose (Dep. Biol. Sci., Tokyo Tech.)

P2-019 **Analysis of dendritic regression due to mitochondrial dysfunction using FRET-based ATP imaging in vivo**
○Taiichi Tsuyama, Asako Tsubouchi, Hiromi Imamura, Tadashi Uemura (Grad. Sch. of Biostudies, Kyoto Univ.)

P2-020 (WS1a-6) **Genetic mutation of β-SNAP causes photoreceptor degeneration through the activation of the BH3-only SNARE, BNip1**
○Yuko Nishiwaki, Asuka Yoshizawa, Yutaka Kojima, Eri Oguri, Shohei Nakamura, Shohei Suzuki, Junichi Yuasa-Kawada, Mariko Kinoshita-Kawada, Toshiaki Mochizuki, Ichiro Masai (Okinawa Institute of Science and Technology)

P2-021 **Membrane-cytoskeleton coupling in cytokinesis by a Drosophila F-BAR protein Syndapin**
○Tetsuya Takeda, David M. Glover (Department of Genetics, University of Cambridge)

P2-022 **Negative feedback by IRE1β optimizes mucin production in goblet cells**
○Akio Tsuru[1], Naoko Fujimoto[1], Satsuki Takahashi[1], Daisuke Nakamura[1], Michiko Saito[1], Rina Nagai[1], Megumi Iwano[1], Takao Iwawaki[2], David Ron[3], Kenji Kohno[1] ([1]Grad. Sch. of Biol. Sci., Nara Inst. of Sci. and Tech., [2]Iwawaki Lab., Adv. Sci. Res. Leaders Dev. Unit, Gunma Univ., [3]Inst. of Metabolic Sci., Univ. of Cambridge)

P2-023 **Autophagy is involved in turnover of damaged lysosomes**
○Ikuko Maejima[1], Hiroko Omori[3], Takeshi Noda[1,2], Tamotsu Yoshimori[1,2] ([1]Dept. of Genetics, Grad. Sch. of Med., Osaka Univ., [2]Lab. of Intracellular Membrane Dynamics, Grad. Sch. of Frontier Biosci., Osaka Univ., [3]Res.Inst. for Microbial Diseases, Osaka Univ.)

P2-024 **Identification of Rab GTPase regulators**
○Shin-ichiro Yoshimura (Dep.Cell. Biol., Grad. Sch. of Med., Osaka Univ.)

P2-025 (WS1a-1) **Live cell imaging of ER-to-Golgi protein transport system in S.cerevisiae**
○Kazuo Kurokawa[1], Michiyo Okamoto[1], Akihiko Nakano[1,2] ([1]RIKEN Advanced Science Institute, [2]Department of Biological Sciences, Graduate School of Science, The University of Tokyo)

P2-026 **Synaptotagmin 1 and Stonin 2 is required for efficient EGL-17/FGF secretion by epidermal cells in C. elegans**
○Hiroki Tanaka, Masaki Shimojou, Shin Takagi (Grad School of Sci., Nagoya Univ.)

P2-027 **Perilipin 2/ADRP and perilipin 3/TIP47 are involved in the formation of vitamin A-storing lipid droplets in hepatic stellate cells**
○Kiwamu Yoshikawa, Yoshihiro Mezaki, Noriko Yamaguchi, Mayako Morii, Mitsutaka Miura, Katsuyuki Imai, Haruki Senoo (Department of Cell Biology and Morphology, Akita University Graduate School of Medicine)

P2-028 **The Ankrd 13 family of UIM-bearing proteins regulates endocytosis of ubiquitinated cell surface proteins.**
○Hidetaka Tanno[1], Teppei Yamaguchi[1], Soichiro Tabata[1], Eiji Goto[2], Satoshi Ishido[2], Masayuki Komada[1] ([1]Dept. Biol. Sci. Tokyo Tech, [2]RCAI, RIKEN)

P2-029 **Regulation of Rab6 dynamics at the Golgi apparatus in *Saccharomyces cerevisiae*.**
○Yasuyuki Suda[1], Akihiko Nakano[1,2] ([1]MMBL, ASI, RIKEN, [2]Dept. Biol. Sci., Grad. Sch. of Sci., The Univ. of Tokyo)

P2-030 (WS1a-10) **Two proteases, trypsin domain-containing 1 (Tysnd1) and peroxisomal Lon protease (PsLon), cooperatively regulate fatty acid β-oxidation in peroxisomal matrix**
○Kanji Okumoto[1], Yukari Kametani[2], Yukio Fujiki[1,2] ([1]Dept. of Biol., Fuc. of Sci., Kyushu Univ., [2]Grad. Sch. of Sys. Life Sci., Kyushu Univ.)

P2-031 **Cdk5 phosphorylation of its activators p35 and p39 determines subcellular location of the holokinase in a phosphorylation site-specific manner**
○Akiko Asada, Taro Saito, Shin-ichi Hisanaga (Dept. Life Sci., Tokyo Metro Univ.)

P2-032 **A deubiquitinating enzyme family protein USP18 is implicated in elimination of misfolded proteins by the proteasome**
Hayato Kozawa[1], ○Tomoyuki Kobayashi[1], Akinori Endo[1], Hidetaka Tanno[1], Avliush Bolotbyek[1], Nobuhiro Nakamura[1], Akitsugu Yamamoto[2], Hiroyuki Kawahara[3], Masayuki Komada[1] ([1]Dept. Biol. Sci., Tokyo Tech, [2]Dept. Bio-sci., Nagahama Tech, [3]Dept. Biol. Sci., Tokyo Metropolitan Univ.)

P2-033 **The penta-EF-hand protein ALG-2 regulates ER-to-Golgi transport by recruiting annexin A11.**
○Takashi Kanadome, Takeru Yokoyama, Minami Yamamuro, Hirofumi Sugiura, Masatoshi Maki, Hideki Shibata (Dept. of Appl. Mol. Biosci., Grad. Sch. of Bioagric. Sci., Nagoya Univ.)

P2-034 **Intraflagellar transport is modulated by environmental stimuli through tubulin polyglutamylation**
○Yoshishige Kimura, Saira Hameed, Koji Tsutsumi, Mitsutoshi Setou (Dept. Cell Biol. Anat., Hamamatsu Univ. Sch. Med, Hamamatsu, Shizuoka, Japan)

P2-035 (WS1a-3) **The molecular mechanism of dephosphorylation and nuclear translocation of TFE3, a key transcription factor regulating mammalian Golgi stress response.**
Mai Taniguchi, Shogo Sawaguchi, Soichiro Tanakura, Shogo Yamaguchi, Yui Shimada, Yuki Nakamura, Yasuyo Matsumura, Ryota Komori, Keisuke Kubota, Sadao Wakabayashi, ○Hiderou Yoshida (Grad. Sch. Life Science, Univ. Hyogo)

P2-036 **Cellular localization and protein stability of mouse VHL**
○Asami Shibuya[1,2], Takeshi Mizuno[1], Motoyuki Shimonaka[2], Naoko Imamoto[1] ([1]Cell. Dynamics. Lab. ASI, RIKEN, [2]Facu.Sci., Tokyo Univ. Sci.)

P2-037 **XBP1u mRNA specifically localizes on the ER membrane but not other organelle membrane.**
○Kota Yanagitani, Yukiko Yokota, Yuta Esaki, Kenji Kohno (Grad. Sch. of Biol Sci., Nara Inst. of Sci. and Tech.)

P2-038 **Dephosphorylation of CCTβ is required for the efficient secretory cargo export from the endoplasmic reticulum**
○Seisuke Arai[1], Atsushi Yamashita[2], Ikuo Wada[1] ([1]Dep. Cell Sci., Fukushima Med. Univ., [2]Faculty Pharm. Sci., Teikyo Univ.)

P2-039 **Analysis of mitochondrial dynamics in ovarian folliculogenesis in mice.**
○Osamu Udagawa[1], Yui Matsunaga[2], Hiroshi Shitara[3], Kenji Miyado[4], Satoshi Tsukamoto[2,5], Katsuyoshi Mihara[1,6], Noboru Mizushima[2], Naotada Ishihara[1] ([1]Inst. of Life Sci., Kurume Univ., [2]Tokyo Medical and Dental University, [3]Tokyo Metropolitan Institute of Medical Science, [4]National Center for Child Health and Development, [5]National Institute of Radiological Sciences, [6]Kyushu University)

P2-040 (WS1a-5) **Function of a t-SNARE protein SNAP23 in insulin secretion from pancreatic beta-cell.**
○Masataka Kunii[1,2], Noriko Takahashi[3], Masaki Kobayashi[4], Mica Ohara-Imaizumi[5], Takashi Sato[2], Shin-ichiro Yoshimura[1], Ken Sato[2], Reiko Harada[1], Shinya Nagamatsu[5], Haruo Kasai[3], Tadahiro Kitamura[4], Akihiro Harada[1,2] ([1]Dept. of Cell Biol., Grad. Sch. of Med., Osaka Univ., [2]Lab. of Mol. Traffic., IMCR, Gunma Univ., [3]Lab. of Structural Phys., Grad. Sch. of Med., Univ. of Tokyo, [4]Metabolic Signal Research Center, IMCR, Gunma Univ., [5]Dept. of Biochem., Kyorin Univ. Sch. of Med.)

P2-041 **DNAJB12, an ER membrane-localized J-protein, maintains the cellular abundance of p62 at a proper level by promoting its degradation via the proteasome pathway**
○Yo-Hei Yamamoto, Shuku Momohara, Mika Matsumoto, Hiroshi Kadokura, Kenji Kohno (Grad. Sch. of Biol Sci., Nara Inst. of Sci. and Tech.)

P2-042 **Visualization of endocytic and recycling pathways using fluorescent protein-tagged Rab5, Rab4 and Rab11 in living cells**
○Natsuki Ono, Yohei Katoh, Senye Tkahashi, Kazuhisa Nakayama (Grad. Sch. Pharmaceut. Sci., Kyoto Univ)

P2-043 **Study of pH distribution in lens fiber cells**
○Kosuke Sugimoto, Kazuhiro Umezawa, Mikako Oka, Yosuke Nakazawa, Makoto Takehana (Department of Molecular Function and Physiology, Faculty of Pharmacy, Keio University)

P2-044 **A system to quantify the import ratio of peroxisomal matrix protein by measuring fluorescence intensity**
○Masafumi Noguchi[1], Yukio Fujiki[1,2] ([1]Grad. Sch. of Sys. Life Sci., Kyushu Univ., [2]Dep. of Biol., Fac. of Sci., Kyushu Univ.)

P2-045 (WS1a-9) **TRAPPIII facilitates autophagy by tethering transport vesicles from early endosomes to the Golgi apparatus**
Kanae Shirahama-Noda, Shintaro Kira, Tamotsu Yoshimori, ○Takeshi Noda (Div. Genetics, Osaka University, Grad Med, Grad Front. Bioscience)

P2-046 **Mutational analysis of Atg9L1, an essential protein for autophagy.**
○Kenta Imai, Naonobu Fujita, Yasuhiro Tsuji, Takeshi Noda, Tamotsu Yoshimori (Graduate school of Frontier Biosciences, Osaka University)

P2-047 **Functional identification of unknown genes localized at mitochondria using MASC assay**
○Makoto Fujikawa[1,2], Masako Mori[2], Kanako Sugawara[2,3], Masasuke Yoshida[2,3] ([1]Dep. of Biochem., Fac. of Pharm. Sci., Tokyo Univ. of Sci., [2]JST, ICORP, ATP-synthesis regulation project, [3]Fac. of Eng. Kyoto Sangyo Univ.)

P2-048 **Nucleocytoplasmic shuttling of estrogen receptor α**

○Tetsuji Moriyama[1], Masahiro Oka[1,2], Yoshihiro Yoneda[1,2] ([1]Dep. Frontier Biosciences, Grad. Sch. of Frontier Biosciences, Osaka Univers, [2]Dep. Biochemistry, Grad. Sch. of Med., Osaka University)

P2-049 **Failure of acrosome formation in SMAP2 Ko mouse**

○Tomo Funaki[1,2], Shunsuke Kon[2], Nobuyuki Tanaka[1], Masanobu Satake[2] ([1]Division of Cancer Biology and Therapeutics, Miyagi Cancer Center Research Institute, Natori 981-1293, Japan, [2]Institute of Development, Aging and Cancer, Graduate School of Life Sciences, Tohoku University,)

P2-050 (WS1a-2) **Glycosylation-independent ERAD pathway serves as a backup system under ER stress**

○Ryo Ushioda[1], Jun Hoseki[1,2], Kazuhiro Nagata[1] ([1]Dept. of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo Univ., [2]Div. of Applied Life Sciences, Graduate School of Agriculture, Kyoto Univ.)

P2-051 **Deficiency in selective autophagy leads to Streptococcus pyogenes multiplication in endothelial cells.**

○Shiou-Ling Lu[1,2], Yee-Shin Lin[2], Tamotsu Yoshimori[1,3] ([1]Laboratory of Intracellular Membrane Dynamics, Graduate School of Frontier Bioscience, Osaka University, Suita, Osaka, Japan, [2]Institute of Basic Medical Sciences, and Department of Microbiology and Immunology, National Cheng Kung University Medical College, Tainan, Taiwan, [3]Department of Genetics, Graduate School of Medicine, Osaka University, Suita, Osaka, Japan)

P2-052 **SMAP1 Small Arf GAP1 deficiency disrupts receptor trafficking and is a predisposing factor for myelodysplastic syndrome in mice**

○Shunsuke Kon[1], Naoko Minegishi[2], Kenji Tanabe[1], Toshio Watanabe[1], Tomo Funaki[1], Daisuke Sakamoto[1], Yudai Higuchi[1], Hiroshi Kiyonari[3], Katsutoshi Asano[4], Manabu Fukumoto[5], Masahi Sanada[6], Seishi Ogawa[6], Takuro Nakamura[7], Masanobu Satake[1] ([1]Department of Molecular Immunology, Institute of Development, Aging and Cancer, Tohoku University, [2]Miyagi University, Graduate School of Nursing, [3]Laboratory for Animal Resources and Genetic Engineering, RIKEN Center for Developmental Biology, [4]Nihon Gene Research Laboratories, [5]Department of Pathology, Institute of Development, Aging and Cancer, Tohoku University, [6]Cancer Genomics Project, Faculty of Medicine, The University of Tokyo, [7]Division of Carcinogenesis, The Cancer Institute, Japanese Foundation for Cancer Research)

P2-053 **The role of the kinase activity of LMTK1 in the recycling endosome pathway**

○Masatada Obata[1], Tetsuya Takano[1], Mineko Tomomura[2], Taro Saito[1], Akiko Asada[1], Mitsunori Fukuda[3], Shin-ichi Hisanaga[1] ([1]Department of Biological Sciences, Tokyo Metropolitan University, [2]MPL, Meikai University Schoool of Dentistry,, [3]Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University)

P2-054 **Protective role of the ubiquitin binding protein Tollip against the toxicity of polyglutamine-expansion proteins**

○Yoriko Atomi[1], Asami Oguro[2], Hiroshi Kubota[3], Miho Shimizu[4], Shoichi Ishiura[2] ([1]RI center, Univ. of Tokyo, [2]Dep. of Life Sci., Grad. School of Arts and Sciences, Univ. of Tokyo, [3]Dep. of Life Sci., Faculty and Graduate School of Eng. Resource Sci., Akita University, [4]Graduate School of Inform. Sci. Technol., Univ. of Tokyo)

P2-055 **Analysis of RAB11 GTPases in *Arabidopsis thaliana***

○Rin Asaoka[1], Tomohiro Uemura[1], Jun Ito[2,3], Masaru Fujimoto[1], Takashi Ueda[1], Akihiko Nakano[1,2] ([1]Graduate School of Science, The University of Tokyo, [2]RIKEN Advanced Science Institute, [3]Graduate School of Biological Sciences, Nara Institute of Science and Technology)

Cell polarity / Cytoskeletons / Cell migration / Cell motility

P2-056 **Functional analysis of N-terminal extension of the fission yeast kinesin-5, cut7**

○M Edamatsu[1], T Sakuma[1], K Furuta[2], Y Y Toyoshima[1] ([1]Dep. of Life Sci., Grad. School of Arts & Sci., Univ. of Tokyo, [2]NICT)

P2-057 **Progesterone enhanced sperm hyperactivation was regulated by PKA and PLC-IP3/DAG-PKC signals**

○Masakatsu Fujinoki (Dep. Physiol., Dokkyo Med. Univ.)

P2-058 **Caldesmon promotes axon extension through inhibition of myosin II activity**

○Tsuyoshi Morita[1], Taira Mayanagi[1,2], Kenji Sobue[1,2] ([1]Dept. of Neurosci., Osaka Univ. Grad. Sch. of Med., [2]Dept. of Neurosci., Inst. for Biomed. Sci., Iwate Med. Univ.)

P2-059 (WS2a-4) **A CRMP-2 isoform controls myosin II-mediated cell migration and matrix assembly by trapping ROCK II**

○Atsuko Yoneda[1,2], Marie Morgan-Fisher[2], Robin Wait[3], John R. Couchman[2], Ulla M. Wewer[2] ([1]Lab. of Genome and Biosignals, Tokyo Univ. of Pharm. and Life Sci., [2]Dept. of Biomed. Sci., Faculty of Health Sci., and BRIC, Univ. of Copenhagen, [3]Kennedy Inst. of Rheum., Univ. of Oxford)

P2-060 **Role of Annexin1 in the migration of primordial germ cells in chicken embryo**

Yasuna Higashiguchi, ○Daisuke Sakai, Taiji Yasue, Daisuke Saito, Yoshiko Takahashi (NAIST)

P2-061 **MARKAP1 cooperates with PAR-1/MARK for development of epithelial polarity by regulating microtubule organization**

Masashi Akitsu[1], Yoshinori Satoh[1], Yoshiko Amano[1], Shigeo Ohno[1], ○Atsushi Suzuki[2] ([1]Dep. of Molecular Cellular Biology, Yokohama City University, Graduate School of Medicine, [2]Div. Medical Bioscience, Yokohama City University, Graduate School of Medicine)

P2-062 **GBF1 is involved in regulation of Rac1 function in chemotaxis of HL-60 cells**

○Yuichi Mazaki, Ayaka Hirano (Pri. Org. for Inno. and Excel., Kumamoto Univ.)

P2-063 **EZH2 regulates breast cancer invasiveness through GEP100-Arf6-AMAP1 signaling pathway**

○Hirokazu Sugino, Shirageru Hashimoto, Ari Hashimoto, Ayumu Yoshikawa, Haruka Handa, Shizuka Mito, Hisataka Sabe (Dep. of Mol. Biol., Grad. Sch. of Med., Hokkaido Univ.)

P2-064 (WS2a-5) **Identification of Rho-GEFs involved in mechanosensing of vascular endothelial cells**

○Hiroshi Kondo[1], Kazumasa Ohashi[1], Hiyori Abiko[1], Ryuichi Hiatari[1], Naoya Sakamoto[2], Masaaki Sato[2,3], Kensaku Mizuno[1] ([1]Grad. Sch. of Life Sci., Tohoku Univ., [2]Grad. Sch. of Eng., Tohoku Univ., [3]Grad. Sch. of Biomed. Eng., Tohoku Univ.)

P2-065 **Trichoplein and Aurora A block aberrant primary cilia assembly in proliferating cells**

○Akinito Inoko[1], Makoto Matsuyama[1], Hidemasa Goto[1,2], Yuki Ohmuro-Matsuyama[1], Yuko Hayashi[1], Masato Enomoto[1], Miho Ibi[1], Takeshi Urano[3], Shigenobu Yonemura[4], Tohru Kiyono[5], Ichiro Izawa[1], Masaki Inagaki[1,2] ([1]Div. of Biochem., Aichi Cancer Ctr. Res. Inst., [2]Dpt. of Cell. Oncol., Nagoya Univ. Grad. Sch. of Med., [3]Dpt. of Biochem., Shimane Univ. Sch. of Med., [4]RIKEN CDB, [5]Virology Div., Natl. Cancer Ctr. Res. Inst.)

P2-066 **The essential role of mammalian formin FHOD3 in sarcomere organization during heart development**

○Ryu Takeya[1], Meikun Kan-o[1], Takaya Abe[2], Naoyuki Kitajima[3], Motohiro Nishida[3], Ryuji Tominaga[4], Hitoshi Kurose[3], Hideki Sumimoto[1] ([1]Dept. of Biochem., Kyushu Univ. Grad. Sch. of Med. Sci., [2]LARGE, CDB, RIKEN, [3]Dept. of Pharmacol. Toxicol., Kyushu Univ. Grad. Sch. of Pharm. Sci., [4]Dept. of Cardiovasc. Surg, Kyushu Univ. Grad. Sch. of Med. Sci.)

P2-067 **Mechanisms of the PFR that responds to only posterior interdigits in the chick limb**

○Takayuki Suzuki[1,3], Makoto Sano[2], Atsushi Kuroiwa[1] ([1]Div. of Biol. Sci., Grad. Sch. of Sci, Nagoya University, [2]Tohoku University, [3]JST PRESTO)

P2-068 (WS2a-8) **Involvement of cell polarity in folding phenomena of epithelial sheets**

○Sumire Ishida, Ryosuke Tanaka, Takeomi Mizutani, Kazushige Kawabata, Hisashi Haga (Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ.)

P2-069 **The domain analyses of Odf2 in its function to form appendages of centrioles and ciliary basal bodies**

○Kazuhiro Tateishi[1,3], Yuji Yamazaki[1,3], Shin Watanabe[1,3], Koshi Kunimoto[1,3], Tomoki Nishida[2], Sachiko Tsukita[1] ([1]Lab. of Biol. Sci., Grad. Sch. of Front. Biosci. and Grad. Sch. of Med., Osaka Univ., [2]Res. Center for UHVEM, Osaka Univ., [3]These are equally contributed)

P2-070 **Pob1 plays a triple role that localizes exocyst to cell tips for polarized cell growth**

○Kentaro Nakano (Dept. of Biosci., Grad. Sch. of Environment. Sci., Univ. of Tsukuba)

P2-071 **Orbit, a *Drosophila* ortholog of CLASP is required for centriole elongation in primary spermatocytes before meiotic division**

○Yuki Asano, Itaru Ando, Daishi Kitazawa, Yoshihiro H. Inoue (Insect Biomedical Research Center, Kyoto Institute of Technology)

P2-072 **CAS-1, a C. elegans cyclase-associated protein, is required for sarcomeric actin assembly in striated muscle**

Kazumi Nomura, Kanako Ono, ○Shoichiro Ono (Emory University)

P2-073 (WS2a-6) **Proper regulation of tubulin poly-glutamylation is essential for the maintenance of retinal photoreceptor cells**

○Alu Konno[1,2], Sayumi Hattori[1], Chizuru Matsuda[1], Mitsutoshi Setou[1], Koji Ikegami[1] ([1]Dept. Cell Biol. Anat., Hamamatsu Univ. Shool Med., [2]JSPS Res. Fellow)

P2-074 **Reexamination of substrate-attached materials in relation to rear retraction of migrating cells**

○Masashi Yamada[1], Gabriele Mugnai[2], Satoshi Serada[3], Tetsuji Naka[3], Kiyotoshi Sekiguchi[1] ([1]Inst. Protein Res., Osaka Univ., [2]Univ. Florence, [3]Natl. Inst. Biomed. Innovation)

P2-075 **Cloning and characterization of phosphoinositide-specific phospholipase C of a giant amoeba, Amoeba proteus.**

○Hitoshi Yagisawa, Ryoko Shinki, Kayoko Maeda-Akahane, Teruo Shimmen, Seiji Sonobe (Grad. Schl. Life Sci., Univ. of Hyogo)

P2-076 **Integrin α2 Dependent Increased Invasiveness of Lung Adenocarcinoma Cells That Survived 10 Gy Ionizing Radiation**

○Xue Li[1], Seiichiro Ishihara[1], Taishi Yamada[1], Motoaki Yasuda[2], Takeomi Mizutani[1], Kazushige Kawabata[1], Takeshi Nishioka[3], Hisashi Haga[1] ([1]Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ., [2]Dept. of Oral Pathobiology, Grad. Sch. of Dent. Med., Hokkaido Univ., [3]Dept. of Radiology, Grad. Sch. of Med., Hokkaido Univ.)

P2-077 (WS2a-9) **FGF and small GTPase proteins control of basal and apical cytoskeletal activities during inner ear morphogenesis**

Xiao rei Sai, ○Raj Ladher (Riken CDB)

P2-078 **The possible involvement of C/EBPβ in epithelial-mesenchymal transition (EMT) of mammary epithelial cells**

○Yuka Miura, Yohei Hirai (Div. of Oncol., Inst. of Sci., Univ. of Hyogo)

P2-079 **The effects of extracellularly presented syntaxin4 on the differentiation and survival of F9 teratocarcinoma cells.**

○Natsumi Hagiwara, Yohei Hirai (Div. of Divelopment, Inst. of SCI, Univ. of Hyogo)

P2-080 **Altered localization of a KAP protein Hacl-1 and its possible role for the hair differentiation**

○Shunsuke Fujimoto, Youhei Hirai (Inst. of Sci., Kwanseigakuin univ)

P2-081 **Lasp-2 in chicken DRG neurons**

○Asako Terasaki[1], Junpei Kaneko[1], Yuzo Otaki[1], Ayako Nakayama[1], Hiroki Akiyama[2], Hiroyuki Kamiguchi[2] ([1]Chiba Univ, [2]RIKEN BSI)

P2-082 (WS2a-7) **Contributions of actin cytoskeleton and cell-substrate adhesion in control of cell motile behavior in micro-topographical environments**

○Hiromi Miyoshi[1], Taiji Adachi[1,2], Jungmyoung Ju[1], Sang Min Lee[3], Dong Jin Cho[3], Jong Soo Ko[3], Yutaka Yamagata[1] ([1]Ultra High Precision Fabrication Team, RIKEN, [2]Dept. of Biomechanics, Inst. for Frontier Medical Sciences, Kyoto Univ., [3]Graduate School of Mechanical Engineering, Pusan National Univ.)

P2-083 **Lasp-2 in chicken astrocytes**

○Shihoko Nakata[1], Ayako Nakayama[1], Hiroyuki Yamazaki[2], Tomoaki Shirao[2] ([1]Chiba Univ, [2]Gunma Univ)

P2-084 **NFATc1 promotes cancer cell invasion via altered E-cadherin regulation**

Tsukasa Oikawa[1], ○Atsuko Nakamura[1], Koichi Matsuo[1], Hideyuki Saya[2] ([1]Lab. of Cell and Tissue Biology, Keio Univ., Sch. of Med., [2]Div. of Gene Regulation, Inst. for Adv. Med. Res., Keio Univ., Sch. of Med.)

P2-085 **ERK2 phosphorylates Par3 and controls its transport in axons**

○Yasuhiro Funahashi[1,2], Shinichi Nakamuta[1], Takashi Namba[1,2], Kozo Kaibuchi[1,2] ([1]Department of Cell Pharmacology Nagoya University, Graduate School of Medicine, [2]JST, CREST)

P2-086 (WS2a-10) **A transcription factor grainyhead-like 2 regulates epithelial morphogenesis by promoting the formation of the apical lumen**

○Naoki Tanimizu[1], Kazunori Senga[2], Keith E Mostov[3], Toshihiro Mitaka[1], Atsushi Miyajima[2] ([1]Inst. for Front. Med., Sapporo Med. Univ., [2]IMCB, Univ. of Tokyo, [3]Dep. Anat., and Biochem. and Biophys., Univ. California SF)

P2-087 **The study for regulatory mechanism of dynamin2 binding to microtubules**

○Keita Tanaka, Makiko Morita, Kozue Hamao, Hiroshi Hosoya (Dep. of Biol. Sci., Grad. Sch. of Sci., Hiroshima University)

P2-088 **Role of the folded conformation of nonmuscle myosin II**

○Takayuki Kiboku[1], Tsuyoshi Katoh[2], Akio Nakamura[3], Akira Kitamura[4], Masataka Kinjo[4], Yota Murakami[1], Masayuki Takahashi[1] ([1]Div. of Chem., Grad. Sch. of Sci., Hokkaido Univ., [2]Dept. of Biochem., Asahikawa Med. Col., [3]Dept. of Mol. and Cell. Pharmacol., Grad. Sch. of Med., Gunma Univ., [4]Fac. of Adv. Life Sci., Hokkaido Univ.)

P2-089 **Myosin II isoforms play distinct roles in maintenance of polarity for migration of normal fibroblast**

○Masahiro Kuragano, Yota Murakami, Masayuki Takahashi (Dept. of Chem., Fac. of Sci., Hokkaido Univ.)

P2-090 **Deletion in the pro-rich region of microtubule-associated protein 4 influences its distribution in neural growth cone**

○Hiroyuki Nakagawa[1], Kazuyuki Matsushima[2], Teruyo Minamiyahiki[1], Kiyotaka Tokuraku[3], Susumu Kotani[2] ([1]Div. of Biol., Fac. of Sci., Fukuoka Univ., [2]Dept. of Biological Sci., Fac. of Science, Kanagawa Univ., [3]Dept./Div. of Applied Sci., Muroran Inst. of Tech.)

P2-091 (WS2a-2) **Regulation of mitochondrial transport and inter-microtubule spacing by Tau phosphorylation at the sites hyperphosphorylated in Alzheimer disease**
Kourosh Shahpasand[1], Isao Uemura[1], Taro Saito[1], Tsunaki Asano[1], Kenji Hata[1], Keitaro Shibata[2], Yoko Toyoshima[2], Masato Hasegawa[3], ○Shin-ichi Hisanaga[1] ([1]Dept. of Biol. Sci., Tokyo Metro. Univ., [2]Dept. of Life Sci., Grad. Sch. of Art, The Univ. of Tokyo, [3]Dept. Neuropath. Cell Biol., Tokyo Metro. Insti. of Med. Sci.)

P2-092 **Lipid polarity is maintained in the absence of tight junctions.**
○Junichi Ikenouchi, Masato Umeda (Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University)

P2-093 **Identification of epithelial-cell specific lipid species**
○Tomonori Terasawa, Junichi Ikenouchi, Masato Umeda (Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University)

P2-094 **Origin of Anterior-Posterior axis formation in the mouse embryos.**
○Katsuyoshi Takaoka, Ken-ichi Matubara, Keibo Su, Hiroshi Hamada (Graduate School of Frontier Biosciences, Osaka University)

P2-095 (WS2a-3) **Protein complex required for the formation of microtubule square lattice in green tree frog sperm**
○Toshiki Yagi[1], Toshie Takahashi[2], Hiroshi Kubota[3], Masahide Kikkawa[1] ([1]Dep. of Cell Biol. Grad. Sch. of Med., Univ. of Tokyo, [2]Dep. of Biochem & Mol. Biol.. Grad. Sch. of Med., Univ. of Tokyo, [3]Dep. of Zool., Grad. Sch. of Sci., Kyoto Univ.)

P2-096 **Role of mono-glycine ligase TTLL8 in male reproductive system**
○Koji Tsutsumi, Faryal Ijaz, Koji Ikegami, Mitsutoshi Setou (Dept. of Cell Biol and Anat. Hamamatsu Univ. Sch. of Med.)

P2-097 **Direct interaction between SAS-6 and Bld10p, the two known cartwheel components that establish the ninefold symmetry of the centriole**
○Akira Noga, Shoko Yamaguchi, Ritsu Kamiya, Masafumi Hirono (Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo)

P2-098 **Microtubule dependent cell shape change required for epithelial tubule connection.**
○Kagayaki Kato, Housei Wada, Shigeo Hayashi (RIKEN/CDB)

P2-099 **Proper nuclear shape requires balance of organization between actin cytoskeleton and microtubules**
○Yuta Sato, Yota Murakami, Masayuki Takahashi (Dept. of Chem., Fac. of Sci., Hokkaido Univ.)

P2-100 (WS2a-1) **Actin-based chromosome transport in oocytes**
○Masashi Mori[1], Nilah Monnier[2], Mark Bathe[2], Jan Ellenberg[1], Peter Lenart[1] ([1]EMBL, [2]MIT)

Cell-Cell interaction / Cell adhesion / Extracellular matrix

P2-101 **Immunohistochemical localization of integrins in rat splenic sinus endothelial cells**
○Kiyoko Uehara (Div. of Cell Biol, Sch. of Med, Fac. of Med, Fukuoka Univ.)

P2-102 **Fbln7-d3, a fragment of the ECM protein fibulin-7, a potential inhibitor of angiogenesis.**
○Susana de Vega[1,2], Eri Arikawa-Hirasawa[1], Yoshihiko Yamada[2] ([1]Res. Inst. for Diseas. of Old Age Juntendo Univ. Grad. Sch. Med., [2]Lab. Cell Dev. Biol., NIDCR, NIH. Bethesda, MD, U.S.A)

P2-103 (WS3a-9) **Cancer-associated fibroblasts mediate extracellular matrix remodeling and three-dimensional invasion of scirrhous gastric carcinoma cells**
○Hideki Yamaguchi[1], Kazuyoshi Yanagihara[2], Masakazu Yashiro[3], Ryuichi Sakai[1] ([1]Div. of Metastasis and Invasion Signaling, National Cancer Center Research Institute, [2]Dept. of Life Sciences, Yasuda Women's University Faculty of Pharmacy, [3]Dept. of Surgical Oncology, Osaka City University, Graduate School of Medicine)

P2-104 (WS3a-8) **CLASP-mediated microtubule anchoring promotes the cell-basement membrane interaction through dystroglycan in gastrulation EMT**
○Yukiko Nakaya, Erike, W. Sukowati, Guojun Sheng (Center for Developmental Biology, RIKEN)

P2-105 **Substrate stiffness enhances MMP-7 expression and ECM degradation in cancer cells**
○Chie Sasaki, Hiro-Taka Masuda, Kiminori Nakamura, Tokiyoshi Ayabe, Takeomi Mizutani, Kazushige Kawabata, Hisashi Haga (Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ.)

P2-106 **A novel approach to investigate laminin-integrin interaction in vivo**
○D. Kiyozumi, I. Nakano, K. Sekiguchi (ECM Biochem., Inst. Protein Res., Osaka Univ.)

P2-107 (WS3a-3)
Electrical coupling in muscle enables compensation of sporadic neural outputs to coordinate robust and efficient behavior during motor development.
○Hiromi Hirata[1,2], Hua Wen[3], Yu Kawakami[4], Yuriko Naganawa[4], Kazutoyo Ogino[1], Kenta Yamada[1], Louis Saint-Amant[5], Sean E. Low[6], Wilson W. Cui[6], Weibin Zhou[6], Shawn M. Sprague[6], Kazuhide Asakawa[1], Akira Muto[1], Koichi Kawakami[1], John Y. Kuwada[6] ([1]National Institute of Genetics, [2]PREST, JST, [3]Oregon Health and Science University, [4]Nagoya University, [5]University of Montreal, [6]University of Michigan)

P2-108 (WS3a-7)
Modulation of cell-cell adhesion in *Xenopus* mesendoderm cells by CXCR7 signaling
○Akimasa Fukui, Keita Masuda, Kazuya Fukusawa, Naoki Sasaki (Transd. Life Sci., Grad. Sch. Life Sci., Hokkaido Univ.)

P2-109
Identification and characterization of the gene encoding sperm motility-initiating substance, an oviduct-secreting protein significant for internal fertilization of the newt, *Cynops pyrrhogaster*.
○Akihiko Watanabe[1], Yuni Nakauchi[1], Eriko Takayama-Watanabe[2] ([1]Dep. of Biol., Fac. of Sci., Yamagata University, [2]Inst. of Arts and Sci., Yamagata University)

P2-110
Functional study of CLAUDIN14 mutants in nonsyndromic hearing loss using cell model
○Dung Lung Li, Shaun-Yow Li, Jiann-Jou Yang (Dep. of BioMed. Sci., Chung Shan Med. Univ.)

P2-111 (WS3a-1)
Regulation of tight junctions and actin cytoskeletons by the osmotic gradient in two different renal cell lines
○Shinsaku Tokuda, Mikio Furuse (Division of Cell Biology, Department of Physiology and Cell Biology, Kobe University Graduate School of Medicine)

P2-112 (WS3a-2)
ILDR1 and ILDR2 recruit tricellulin to tricellular tight junctions.
○Tomohito Higashi[1], Shin-ichiro Kitajiri[2], Hiroki Nakamura[1], Mikio Furuse[1,2] ([1]Div. of Cell Biol., Grad. Sch. of Med., Kobe Univ., [2]Dept. of Otolaryngology Head and Neck Surgery, Grad. Sch of Med., Kyoto Univ.)

P2-113
Homophilic binding of the insect epithelial classical cadherin is mediated by a structural mechanism distinct from its vertebrate counterpart
Shigetaka Nishiguchi[1], ○Mizuki Sasaki[2], Hiroki Oda[1,2] ([1]Osaka University, [2]JT Biohistory Resarch Hall)

P2-114
Spindle orientation in cadherin-catenin complex-deficient F9 cells
○Satoshi Urayama, Chiyoko Kobayashi, Akira Nagafuchi (Dept. of. Biol., Sch. of Med., Nara med. univ.)

P2-115 (WS3a-4)
β-Catenin binding partner(s) other than E-cadherin support cell adhesion sites without Z0-1.
○Akira Nagafuchi, Satoshi Urayama, Chiyoko Kobayashi (Dep. of Biol., Sch. of Med., Nara Med. Univ.)

P2-116 (WS3a-6)
Tead activity links contact-mediated communication to cell competition by controlling Hippo signaling and Myc expression
Hiroshi Mamada[1,2], Mitsunori Ota[2], ○Hiroshi Sasaki[1,2] ([1]Dep. of Cell Fate Control., Inst. of Mol. Embryol. & Genet, Kumamoto Univ., [2]RIKEN Ctr. for Dev. Biol.)

P2-117
Functional analysis of E-cadherin-β-catenin fusion molecules.
○Chiyoko Kobayashi, Satoshi Urayama, Akira Nagafuchi (Dep. of Biol., Sch. of Med., Nara Medical Univ.)

P2-118
Brain development and axon regeneration in the mice lacking in the enzymes synthesizing chondroitin sulfate
○Kosei Takeuchi[1,2], Nozomu Yoshioka[1,2], Hitoshi Kawano[2], Michihiro Igarashi[1] ([1]Div. of Mol. Cell Biol., Grad Sch. of Med., Niigata Univ., [2]Div. of Dev. Neuro. Tokyo Metro. Inst. of Neurosci.)

P2-119 (WS3a-5)
Regulation of Notch signaling through the adherens junction in neurogenesis and somitogenesis
○Jun Hatakeyama[1], Yoshio Wakamatsu[2], Ryuichi Shigemoto[3], Kenji Shimamura[1] ([1]IMEG, Kumamoto Univ., [2]Div. of Dev. Neurosci., Graduate school of Med., Tohoku Univ., [3]Div. of Cereb. Struc., NIPS)

P2-120
Live-imaging of the basement membranes in mammalian system
○Sugiko Futaki, Ayano Horimoto, Kiyotoshi Sekiguchi (Inst. Protein Res., Osaka Univ.)

P2-121
Single-molecule observation of Zyxin at focal adhesions
○Masahiro Maruoka, Naoki Watanabe (Lab. of Single-Molecule Cell Biol., Grad. Sch. of Life Sci, Tohoku Univ.)

Systems biology

P2-122 (WS4a-9)
Estimating the Dynamics of Forces during Morphogenesis
○Kaoru Sugimura[1], Shuji Ishihara[2] ([1]Kyoto Univ., [2]Univ. of Tokyo)

P2-123 (WS4a-5) **Understanding the post-mitotic Golgi reassembly with mathematical models based on elastic membrane theory**
○Masashi Tachikawa, Atsushi Mochizuki (Theoretical Biology Laboratory, RIKEN)

P2-124 (WS4a-7) **Synchronized Onset of Quorum Sensing Transition.**
○Koichi Fujimoto[1], Satoshi Sawai[2] ([1]Grad. Sch. of Sci., Osaka Univ., [2]Grad. Sch. Arts and Sci., Univ. of Tokyo.)

P2-125 **Simultaneous visualization of two post-translational modifications by using one monoclonal antibody**
○Hang Thi Vu, Mitsutoshi Setou, Koji Ikegami (Dept of Cell Biology and Anatomy, Hamamatsu University School of Medicine)

P2-126 (WS4a-3) **Mechanisms for temperature compensation at multiple scales**
○Gen Kurosawa[1], Masashi Tachikawa[1], Atsushi Mochizuki[1,2] ([1]Theoretical Biology Laboratory, RIKEN, [2]Department of Computational Inteligence and Systems Science, Tokyo Institute of Technology)

P2-127 (WS4a-4) **Mechanical modeling of the cell-cell interaction on the self-organization of the tooth germ.**
○Hisako Takigawa-Imamura[1], Ritsuko Morita[2], Takashi Tsuji[2], Kenichi Yoshikawa[1] ([1]Dept. of Phys., Grad. Sch. of Sci., Kyoto Univ., [2]Res. Inst. for Sci. & Tech., Tokyo Univ. of Sci.)

P2-128 (WS4a-8) **A novel mathematical model of angiogenic morphogenesis: importance of tip cell dynamics**
○Kei Sugihara[1,2], Koichi Nishiyama[1], Takashi Miura[3], Satoshi Arima[1], Yuji Hakozaki[1], Yuichiro Arima[1], Ki-Sung Kim[1], Yasunobu Uchijima[1], Yukiko Kurihara[1], Hiroki Kurihara[1] ([1]Dept. of Physiol. Chem. and Metab., Grad. Sch. of Med., Univ. of Tokyo, [2]MD Scientist Training Program, Fac. of Med., Univ. of Tokyo, [3]Dept. of Anat. and Dev. Biol., Grad. Sch. of Med., Kyoto Univ.)

P2-129 (WS4a-2) **A systematic quantification of the width-length relationship of mitotic spindle during the embryogenesis of Caenorhabditis elegans**
○Akatsuki Kimura, Yuki Hara (Cell Arch. Lab., Nat. Inst. Genetics)

P2-130 **Effects of ARB on cultured rat embryos**
○Athushi Yokoyama[1], Masaharu Akita[2] ([1]Kanagawa Life-sciense Research, [2]Kamakura woman's college)

P2-131 (WS4a-1) **Dynamics of complex biological systems determined from minimal subsets of molecules in regulatory networks**
○Atsushi Mochizuki[1], Gen Kurosawa[1], Bernold Fiedler[2] ([1]Theoretical Biology Laboratory, RIKEN, [2]Institute for Mathematics, Free University Berlin)

P2-132 (WS4a-6) **Temporal Coding of Insulin Action through Multiplexing of the AKT Pathway**
○Hiroyuki Kubota[1], Rei Noguchi[1], Yu Toyoshima[1], Yu-ichi Ozaki[1], Shinsuke Uda[1], Kanako Watanabe[1], Wataru Ogawa[2], Shinya Kuroda[1] ([1]Department of Biophysics and Biochemistry, Graduate School of Science, University of Tokyo, [2]Department of Internal Medicine, Division of Diabetes, Metabolism, and Endocrinology, Kobe University Graduate School of Medicine)

Organogenesis / Body axis formation

P2-133 **Differential effects of BMP inhibitors on tail fin morphogenesis suggest that BMP signaling plays different roles in *Xenopus* and cavefish embryos.**
○Kazue Mogi[1,2], Yusuke Saito[1], Akiya Hino[1,2], Ryuji Toyoizumi[1,2] ([1]Dept. of Biol., Sci., Kanagawa Univ., [2]Res. Inst. for Integrated Sci., Kanagawa Univ.)

P2-134 **Importance of Wnt8 lipid modification during formation of the Spemann's organizer in early *Xenopus* embryos**
○Tomohiro Narita[1], Eriko Motonura[2], Shin-ichiro Nishimatsu[1], Masao Sakai[2], Tsutomu Nohno[1] ([1]Dept. of Mol and Dev. Biol., Kawasaki Med. Sch., [2]Dept. Chem.& Biosci., Kagoshima Univ.)

P2-135 ***Mab21l2* is required for proper formation of the endocardial cushion**
○Yohei Saito (Grad.Sch.Agr. Life Sci., Univ Tokyo)

P2-136 (WS5a-8) **Asymmetric Flow is Converted to a Degradation of Cerl2 and Amplified by Interlinked Feedbacks Robustly in a Left-Right Axis of the Mouse Embryo**
○Tetsuya Nakamura[1], Daisuke Saitoh[2], Kyosuke Shinohara[1], Dong Felang[1], Aiko Kawasumi[1], Atsuko Takamatsu[3], Jose Antonio Belo[4], Atsushi Mochizuki[2], Hiroshi Hamada[1] ([1]Dev. Gene., Front. Bio.,Osaka univ., [2]Theoretical Bio, RIKEN, Japan, [3]Faculty of Science and Engineering, Waseda univ., Japan, [4]Biomedical Sciences and Medicine, University of Algarve, Portugal)

P2-137 **Involvement of Nkx2.5 and GATA4 in the differentiation of anterior VBI-derived myeloid cells in *Xenopus laevis***

Hiroyuki Sakata[1], ○Yasutaka Imai[1], Mitsugu Maeno[2] ([1]Graduate School of Science and Technology, Niigata University, [2]Department of Biology, Faculty of Science, Niigata University)

P2-138 **Zebrafish Gata4 regulates the gene expression of connexin 36.7**

○Hisako Miyagi, Yumiko Tanaka, Keijiro Munakata, Ippei Kasajima, Kakon Nag, Naznin Sultana, Shigehisa Hirose, Nobuhiro Nakamura (Dep. Biol. Sci., Tokyo Tech.)

P2-139 (WS5a-2) **Hemodynamics-dependent valvulogenesis of zebrafish heart mediated by miR-21**

○Toshihiro Banjo[1], Minoru Omi[1], Kota Miyasaka[1], Yasuyuki Kida[2], Toshihiko Ogura[1] ([1]IDAC, Tohoku Univ., [2]Salk Institute)

P2-140 **Roles of C2H2-type zinc finger proteins, Zbtb11 and Znf668, in Otx2 functions in early Xenopus eye development**

○Yumeko Satou[1], Takashi Shibano[1], Shuji Takahashi[2], Makoto Asashima[3], Masanori Taira[1] ([1]Dept. of Biol. Sci, Grad. Sch. of Sci., Univ. of Tokyo, [2]KOMEX, [3]AIST)

P2-141 **Epicardial growth factors are required for myocardial maturation before the onset of coronary circulation**

○Makiko Takahashi, Nariaki Yanagawa, Masatake Kai, Toshiyuki Yamagishi, Yuji Nakajima (Anatomy, Osaka City Univ., Graduate Sch. of Medicine)

P2-142 **Dimeric combinations of MafB, c-maf, c-Jun and c-Fos control the apoptosis-survival balance in limb patterning under BMP/FGF regulation**

○Natsuno Suda[1], Daisuke Shirakawa[1], Takehiko Itoh[1], Masashige Bando[2], Katsuhiko Shirahige[2], Kohsuke Kataoka[3], Cheryll Tickle[4], Mikiko Tanaka[1] ([1]Tokyo Inst. Tech., [2]Univ. of Tokyo, [3]NAIST, [4]Univ. of Bath)

P2-143 **Understanding the Role of Wnt5a in the Morphogenesis of the Vertebrate Body Plan**

○Rieko Ajima[1,2], Kristin Biris[1], Lino Tessarollo[3], Stephen Lockett[4], Mark Lewandoski[1], Terry P. Yamaguchi[1] ([1]CDBL, NCI-Frederick, NIH, USA, [2]FBS, Osaka Univ., [3]MCGP, NCI-Frederick, NIH, USA, [4]OMAL, NCI-Frederick, NIH, USA)

P2-144 (WS5a-9) **Dynamical property of gene regulatory network generating left-right asymmetry in mice embryo**

○Daisuke Saito[1], Tetsuya Nakamura[2], Hiroshi Nakamura[2], Atsushi Mochizuki[1] ([1]Theoret. Biol. Lab. RIKEN, [2]Dev. Genet. Group, Grad. Sch. Frontier Biosci., Osaka Univ.)

P2-145 **LGR4 plays an important role in female reproductive tract development.**

○Masae Koizumi[1,2], Kazunori Oyama[2], Akihiro Nawa[1], Katsuhiko Nishimori[2] ([1]Dept. of ObGyn, Grad. Sch. of Med., Univ. of Ehime, [2]Lab. of Mol. Biol., Dept. of Agr. Sci. Univ. of Tohoku.)

P2-146 **Heparan sulphate (HS) changes the specificty of FGF signalling during inner ear induction**

○Yuko Muta, Akira Honda, Siu-Shan Mak, Raj Ladher (RIKEN CDB)

P2-147 (WS5a-1) **Retromer and small GTPase-dependent recycling luminal protein controls apical ECM organization and epithelial tube size**

○Bo Dong, Ken Kakihara, Kagayaki Kato, Hosei Wada, Shigeo Hayashi (RIKEN CDB)

P2-148 **Analysis of the transcriptional regulation mechanisms of mesenchymal *Fgf10* expression in response to the AER signaling**

○Yo-ichi Y. Shiraishi, Hiroaki Higuchi, Shigaki Yamamoto, Mie Hirano, Atsushi Kuroiwa (Dev. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.)

P2-149 **Identification of factors that regulate renal branching morphogenesis**

○Mami Takayama, Taku Hiramatsu, Eisuke Nishida (Dept. Cell & Develop. Biol., Grad. Sch. Biostudies, Kyoto Univ.)

P2-150 (WS5a-7) **Dynein arms assembly and transport in mammal**

○Yasuko Asai, Tetsuya Nakamura, Kyosuke Shinohara, Hiroshi Hamada (Developmental Genetics Group Graduate School of Frotier Biosciences OSAKA UNIVERSITY)

P2-151 **Isl1-specific Shh knockout shows carniofacial defects**

○Mohammad TK Sharkar, Wataru Kimura, Nishat Sultana, YiXin Wu, Tadayoshi Uezato, Naoyuki Miura (Dept. Biochem., Hamamatsu Univ. Sch. Med.)

P2-152 **Roles of crip2 during mechano-dependent cardiogenesis**

○Hideto Osada, Kota Miyasaka, Toshihiko Ogura (Dept. of Dev. Neurobiol., IDAC, Tohoku univ.)

P2-153 **Developmental defects of gustatory papillae in *Six* gene-knockout mice.**

○Keiko Ikeda[1], Yuko Suzuki[2], Kiyoshi Kawakami[3] ([1]Dept. Biol., Hyogo College of Med., [2]Dept. of Psychol. Sci., Health Sciences Univ. of Hokkaido, [3]Div. Biol., Jichi Med. Univ.)

P2-154 **Thyroid grand development in medaka; toward a model to study metamorphosis**
○Hayato Yokoi, Yuji Abe, Tohru Suzuki (Grad. Schl. Agricul. Sci., Tohoku Univ.)

P2-155 **Profile of cell cycle, cell division, and cell shape in lens: possible determinants of lens morphology**
(WS5a-4) ○Toshiaki Mochizuki[1], Shohei Suzuki[1], Asako Sakaue-Sawano[2], Atsushi Miyawaki[2], Ichiro Masai[1] ([1]Developmental Neurobiology Unit, Okinawa Institute of Science and Technology Graduate School University, [2]RIKEN BSI)

P2-156 **Promoter analysis of the mouse GDNF gene in mouse gonadal cell lines**
○Rima Kitazumi[1], Yoshiko Kuroda[1], Kyoko Harikae[1], Yoshimi Aiyama[1], Miyuri Kawasumi[2], Naoki Tsunekawa[1], Masami Kanai-Azuma[2], Masamichi Kurohmaru[1], Yoshiakira Kanai[1] ([1]Department of Veterinary Anatomy, The University of Tokyo, [2]Center for Experimental Animals, Tokyo Medical and Dental University)

P2-157 **A method to gene-manipulate neural crest cells of one-segment origin in chicken embryos**
○Yasuhiro Yokota, Yoshiko Takahashi (Graduate School of Biological Sciences Nara Institute of Science and Technology)

P2-158 **Cadherin-7 enhances sonic hedgehog signal by inhibiting movement of Gli3 to primary cilium**
(WS5a-3) ○Rie Kawano[1,2,3], Kunimasa Ohta[1], Daisuke Niimori[1,4] ([1]Dept of Dev. Neurobio., Graduate School of Med. Sci., Univ. of Kumamoto, [2]Global COE Cell Fate Regulation Research and Education Unit, Univ. of Kumamoto, [3]Dep. of Internal Medicine 2, Faculty of Medicine, Univ. of Oita, [4]Dep. of Dermatology and Plastic Surgery, Graduate School of Life Sciences, Univ. of Kumamoto)

P2-159 **Loss of Kintoun in mouse causes hydrocephalus due to defective ciliary motility in developing brain ventricles**
○Moe Matsuo[1], Yumiko Saga[2], Hiroyuki Takeda[1], Sumito Koshida[1] ([1]Grad. Sch. of Sci., Univ. of Tokyo, [2]Div. of Mamma. Dev., Nation. Inst. of Genet)

P2-160 **Wnt signal plays an essential role in the left-right asymmetric development of the embryonic gut in Drosophila.**
○Junpei Kuroda, Mitsutoshi Nakamura, Naotaka Nakazawa, Ryo Hatori, Kiichiro Taniguchi, Takashi Okumura, Reo Maeda, Kenji Matsuno (Dept. Biol. Sci/Tech. ,Tokyo Univ. Science)

P2-161 ***Ovca1/Dph1*** **Is Essential for the Development of Heart and Craniofacial Skeleton in Mice**
○Yi-Ru Yu[1], Li-Ru You[2], Chun-Ming Chen[1] ([1]Inst. of Genome Sci., NYMU, Taipei, Taiwan, [2]Inst. of BMB, NYMU, Taipei, Taiwan)

P2-162 **Cloning of FoxN1 gene in Xenopus laevis.**
○Naoya Iimura, Tsuyoshi Kobayashi, Hideho Uchiyama (Grad. Sch. of Nanobiosciences, Yokohama City Univ.)

P2-163 **Blood vessel remodeling in living embryos: a link between blood flow and migration of endothelial cells**
(WS5a-6) ○Yuta Takase, Yoshiko Takahashi (Graduate School of Biological Sciences, Nara Institute of Science and Technology)

P2-164 **Flow sensing by cilia in the mouse embryonic node**
○Satoko Yoshiba[1], Hidetaka Shiratori[1], Aiko Kawasumi[1], Kyosuke Shinohara[1], Yasuko Asai[1], Hiroshi Hamada[1], Jose Antonio Belo[2], Shigenori Nonaka[3], Hiroshi Sasaki[4], Genta Sasaki[1], Junichi Nakai[5], Ivana Kuo[6], Barbara Ehrlich[6], Bernd Dworniczak[7], Petra Pennekamp[7] ([1]FBS, Osaka Univ., [2]Instituto Gulbenkian de Ciencia, Portugal, [3]National Institute for Basic Biology, Japan, [4]RIKEN Center for Developmental Biology, Japan, [5]Saitama University Brain Science Institute, Japan, [6]Department of Pharmacology, Yale University School of Medicine, USA, [7]Institute of Human Genetics, University of Munster, Germany)

P2-165 **Dynamic microtubules at the vegetal cortex predict the embryonic axis in zebrafish**
○Long_D Tran[1,2], Hiromu Hino[3], Helen Quach[1], Shimin Lim[1,4], Naoto Ueno[5], Christoph Winkler[2], Masahiko Hibi[3], Karuna Sampath[1,2,4] ([1]Temasek Life Sciences Laboratory, [2]National University of Singapore, [3]Nagoya University, [4]Nanyang Technological University, [5]National Institute for Basic Biology)

P2-166 **The roles of mesogenin1 in zebrafish tail presomatic mesoderm differentiation**
(WS5a-5) ○Taijiro Yabe, Shinji Takada (National Institute for Basic Biology)

P2-167 **Cell-fate Specification of cardiac Progenitors/Stem cells by Defined Factors in vivo and in vitro**
○Yuika Morita[1,2], Yuko Tsukahara[1], Peter Anderson[3], Hiroe Sugizaki[1], Ryuichi Nishinakamura[4], Chulan Kwon[3], Kazuko Koshiba[1], Jun.K Takeuchi[1,5] ([1]IMBC ,the University of Tokyo, [2]Guraduate School of Science, the university of Tokyo, [3]Johns Hopkins University, [4]Kumamoto University, [5]JST PRESTO)

P2-168 **ECLP functions in ciliogenesis and Hedgehog signaling in mouse embryo.**
○Yanick Botilde, Satoko Yoshiba, Hiroshi Hamada (Grad. scho. of Fron. Biosc., Univ. of Osaka)

P2-169 **Gene-manipulation of blood vessels in the developing spinal cord of chickens**
○Taichi Fukae, Teruaki Takahashi, Yuta Takase, Yoshiko Takahashi (Biosci., NAIST)

P2-170 **Strawberry Notch1 is required for mouse preimplantation development**
○Yusuke Watanabe, Minoru Omi, Toshihiko Ogura (Dep. Dev. Neuro. Biol., IDAC, Tohoku Univ.)

P2-171 (WS5a-10) **Homeogenetic mechanism of sequential segmentation in polychaete**
Nao Niwa[1], Ai Akimoto-Kato[1], Masashi Sakuma[2], ○Shigeo Hayashi[1] ([1]RIKEN Center for Developmental Biology, [2]Institute of Biological Sciences, University of Tsukuba, Sugadaira Montane Research Center, University of Tsukuba, Sugadaira Kogen Ueda, Nagano 386-2204, Japan)

P2-172 **Six1 and Six4 homeoproteins are required for sex determination in mouse gonad**
○Yuka Fujimoto[1], Satomi S Tanaka[1], Yasuka L Yamaguchi[1], Yoshiakira Kanai[2], Kenichirou Morohashi[3], Kiyoshi Kawakami[4], Ryuichi Nishinakamura[1] ([1]Dept. of Kid. Dev., IMEG, Kumamoto Univ., [2]Dept. of Vet. Ana., The Univ. of Tokyo, [3]Dept. of Mol. Biol., Grad. Sch. of Med. Sci., Kyusyu Univ., [4]Div. of Biol., Cent. for Mol. Med., Jichi Med. Univ.)

P2-173 **Molecular chaperone Hsp47 is essential for cartilage and endochondral bone formation**
○Yusaku Masago[1,2], Akihiro Hosoya[3], Kunito Kawasaki[1,2], Shogo Kawano[4], Akira Nasu[5], Junya Toguchida[5], Katsumasa Fujita[6], Hiroaki Nakamura[3], Gen Kondoh[7], Kazuhiro Nagata[1] ([1]Laboratory of Molecular and Cellular Biology, Faculty of Life Sciences, Kyoto Sangyo University, [2]Department of Molecular and Cellular Biology, Institute for Frontier Medical Sciences, Kyoto University, [3]Department of Oral Histology, Matsumoto Dental University, [4]Department of Frontier Biosciences, Osaka University, [5]Department of Tissue Regeneration, Institute for Frontier Medical Sciences, Kyoto University, [6]Department of Applied Physics, Osaka University, [7]Laboratory of Animal Experiments for Regeneration, Institute for Frontier Medical Sciences, Kyoto University)

Neural function and development

P2-174 (WS6a-8) **Genetic manipulation of Madagascar Ground Gecko unveils unique characteristics of reptilian cortical neural stem cells**
○Tadashi Nomura, Hitoshi Gotoh, Katsuhiko Ono (Dev.Neurobiol., Grad. Sch. of Med.Sci., Kyoto Pref. Univ. of Med.)

P2-175 **Class3 semaphorins regulate tectal laminar formation**
○Yuji Watanabe[1,2], Harukazu Nakamura[1,2] ([1]Dept. Mol. Neurobiol., Grad. Sch. Life Sciences, Tohoku Univ., [2]IDAC, Tohoku Univ.)

P2-176 **Novel genes of neural crest cells generation elucidated by gene expression analysis.**
○Tsutomu Motohashi[1], Daisuke Kitagawa[1], Takanori Wakaoka[2], Natsuki Watanabe[1], Takahiro Kunisada[1] ([1]Dep. of Tissue & Organ Development, Regeneration & Advanced Med. Sci., Grad. Sch. of Med., Gifu Univ., [2]Dep. of Otolaryngology, Grad. Sch. of Med., Gifu Univ.)

P2-177 (WS6a-1) **Tre1 GPCR signaling orients stem cell divisions in the Drosophila central nervous system**
○Shigeki Yoshiura, Nao Ohta, Fumio Matsuzaki (RIKEN Center for Developmental Biology)

P2-178 **Development of circadian clock in the suprachiasmatic nuclei of teleost fish**
Nanako Watanabe[1], Yuichiro Fujinami[2], Daisuke Shimizu[2], Susumu Uji[3], Hayato Yokoi[1], ○Tohru Suzuki[1] ([1]Grad Schl Agricul Sci, Tohoku Univ, [2]Tohoku Natl Fish Res Inst, [3]Natl Res Inst Aquaculture)

P2-179 **Expression and functional study of foxp4 in the central nervous system of zebrafish**
○Wai Kei Wong[1], Nga Chu Lui[1], Kin Ming Kwan[1,2,3] ([1]School of Life Sci., The Chinese Univ. of H.K., [2]Center for Cell and Developmental Biology, The Chinese Univ. of H.K., [3]State Key Lab. of Agrobiotechnology (The Chinese Univ. of H.K.))

P2-180 (WS6a-4) **The Seven-pass transmembrane Cadherin Flamingo Controls Dendritic Self-avoidance via its Binding to a LIM Domain Protein Espinas in Drosophila Sensory Neurons.**
○Daisuke Matsubara, Ikumi Ueda, Tadashi Uemura, Tadao Usui (Grad. scho. of Biostudies, Kyoto Univ.)

P2-181 **Loss of MT1-MMP affects CNS development**
○Jin Zhou, Zhongjun Zhou (Dept. of Biochemistry, LKS. Faculty of Med., Univ. of Hong Kong)

P2-182 **Spatio-temporal analysis of signal transduction during the development of enteric nervous system by transgenic mice expressing FRET biosensors.**
○Akihiro Goto[1,2], Hideki Enomoto[2] ([1]Graduate School of Biostudies, Kyoto University, [2]Laboratory for Neuronal Differentiation and Regeneration, RIKEN Center for Developmental Biology)

P2-183 (WS6a-5) **Neural activity regulates proper restitution of phototaxis via novel neuropeptide genes during head regeneration in planarian**
○Takeshi Inoue[1], Tomomi Takano[2], Yoshihiko Umesono[1], Kiyokazu Agata[1] ([1]Dep. of Biophys, Grad. Sch. of Sci., Kyoto Univ, [2]Center for Developmental Biology, RIKEN)

P2-184 **Role of the pharyngeal arch as an infrastructure of cranial nerve projection for the development of taste buds in the posterior tongue**

○Tadashi Okubo[1], Shinji Takada[2] ([1]Department of Laboratory Animal Science, School of Medicine, Kitasato University, [2]Okazaki Institute for Integrative Bioscience, National Institutes of Natural Sciences)

P2-185 **Upregulation of sensitivity to the repellent Slit during midline crossing by commissural axons**

○Junichi Kawada[1], Mariko Kinoshita-Kawada[1], Shigeru Yanagi[2], Ichiro Masai[1], Yi Rao[3], Jane_Y. Wu[4] ([1]OIST, [2]Sch. of Life Sci., Tokyo Univ. of Pharm. and Life Sci., [3]Peking Univ. Sch. of Life Sci., [4]Dept. of Neurology, Northwestern Univ. Feinberg Sch. of Med.)

P2-186 (WS6a-2) **Phosphorylation control of Gogo receptor by Insulin signaling coordinates the developmental timing of the neuronal circuit wiring**

○Takashi Suzuki[1,2], K Mann[2], S Berger-Mueller[2], M Wang[2], S H Luu[2], S Ohler[2], S Hakeda-Suzuki[2] ([1]Core Div. Adv. Study, Dept. Bioscience, Tokyo Inst. Tech., [2]Max Planck Institute of Neurobiology)

P2-187 **Functional analysis of Akhirin in the dorso-ventral patterning of the embryonic chick and mouse spinal cords**

○Athary A Felemban[1,2], Rie Kawano[1], Xiaohong Song[1,2], Hideaki Tanaka[1,2], Kunimasa Ohta[1] ([1]Dep. Dev. Neurobiol., Grad. Sch. Life Sci., Kumamoto Univ., [2]Global COE Kumamoto University)

P2-188 **Draxin from neocortical neurons controls thalamocortical projections into the neocortex**

○Yohei Shinmyo[1], Asrafuzzaman Riyadh[1,2], Mahmud Hossain[1,2], Giasuddin Ahmed[1,2], Iftekhar B. Naser[1,2], Xiaohong Song[1,2], Ayako Ito[1,2], Hirohide Takebayashi[3], Kunimasa Ohta[1], Hideaki Tanaka[1,2] ([1]Dept. of Dev. Neurobiol., Kumamoto Univ., [2]GCOE, Kumamoto Univ., [3]Dept. of Morphol. Neural Sci., Kumamoto Univ.)

P2-189 (WS6a-9) **Involvement of En-2 in tectal laminar formation in chick embryos**

○Minoru Omi[1], Yuji Watanabe[1,2], Harukazu Nakamura[1,2] ([1]Dept. of Mol. Neurobiol., Grad. Sch. Life Sci., Tohoku Univ., [2]Dept. of Mol. Neurobiol., IDAC, Tohoku Univ.)

P2-190 **Remodeling and Life-long Maintenance of Dendritic Arbors of Neurons**

○Kohei Shimono[1], Takafumi Nomura[1], Tadao Usui[1], Atsushi Toyoda[2], Tadashi Uemura[1] ([1]Grad. Sch. Biostudies, Kyoto Univ., [2]National Institute of Genetics)

P2-191 **Role of type IV collagen in axogenesis of cerebellar granule cells in zebrafish**

○Miki Takeuchi[1], Takashi Shimizu[1,2], Kazuhide Asawaka[3], Koichi Kawakami[3], Shigenobu Yonemura[4], Masahiko Hibi[1,2] ([1]Bioscience and Biotechnology Center, Nagoya Univ., [2]Graduate School of Science, Nagoya Univ., [3]National Institute of Genetics, [4]RIKEN Center for Developmental Biology)

P2-192 (WS6a-10) **Cdk5 plays multiple roles in cortical neuronal migration and morphological changes**

○Takeshi Kawauchi[1,2], Yoshiaki V. Nishimura[1,3], Mima Shikanai[1], Koh-ichi Nagata[3], Kazunori Nakajima[1] ([1]Dept. of Anat., Keio Univ. Sch. of Med., [2]PRESTO, JST, [3]Dept. of Mol. Neurobiol., Inst. for Developmental Research, Aichi Human Service Center)

P2-193 **Plexin-A4 regulates the development of topographic connection in the amygdaloid circuits.**

○Fumikazu Suto[1], Noriko Osumi[2], Noritaka Ichinohe[1] ([1]Dep. of Ultrastractural Res., National Inst. of Neurosci., NCNP, [2]Div. of Developmental Neurosci., Grad. Sch. of Med. Tohoku Univ.)

P2-194 **A nuclear protein Cfdp1 controls differentiation of granule cells in zebrafish cerebellum**

○Ryo Kusuda (Grad. Sch. Sci. Nagoya Univ.)

P2-195 (WS6a-7) **A path of growing blood vessels in the spinal cord is determined by an interface between differentiated and undifferentiated neurons**

○Teruaki Takahashi, Yuta Takase, Ryosuke Tadokoro, Yoshiko Takahashi (NAIST)

P2-196 **Functional analysis of single-minded homolog in midline cells formation of Daphnia magna**

○Shin-ichi Morita, Shin-ichi Tokishita, Yasuhiro Shiga, Toshihiro Ohta (Sch. of Life Sci, Tokyo Univ. Pharm. and Life Sci)

P2-197 **Roles of Subplate Neurons in Establishing Neocortical Regional Identity**

○Torsten Bullmann, Carina Hanashima (RIKEN, CDB, Laboratory of Neocortical Development)

P2-198 (WS6a-6) **Dickkopfs regulate organ growth during lateral line development in zebrafish**

○Hironori Wada[1], Koichi Kawakami[2] ([1]PRESTO, Japan Science and Technology Agency, [2]National Institute of Genetics; The Graduate University for Advanced Studies)

P2-199 **βNAC is involved in Wnt-mediated asymmetric cell division**

○Kyohei Uemura[1,3], Hitoshi Sawa[1,2], Noriko Sasakawa[2] ([1]National Institute of Genetics, [2]Riken CDB, [3]Department of Genetics, Sokendai)

P2-200 **Large scale monitoring of mitoses, somal replacement, and endfeet movements at/near the apical surface of the developing mouse neocortex**

○Tomoyasu Shinoda[1], Mayumi Okamoto[1], Ken Sagou[1], Hiroaki Takagi[2], Masahiro Ueda[3], Sachiko Tsukita[4], Toshihiko Fujimori[5], Takaki Miyata[1] ([1]Dept. Anatomy and Cell Biology, Nagoya Univ. Grad. Sch. of Med., [2]Dept. Physics, Nara Medical Univ., [3]Lab. for Nanobiology, Grad. Sch. of Frontier Biosciences, Osaka Univ., [4]Lab. of Bioscience, Grad. Sch. of Frontier Bioscience and Grad. Sch. of Med., Osaka Univ., [5]Div. of embryology, NIBB)

P2-201 **drskIII regulates Drosophila NMJ development and function**

(WS6a-3)

○Guoli Zhao (Institute of Genetics and Developmental Biology, Chinese Academy of Science)

P2-202 **Non-polyalanine repeat expansion mutations of the PHOX2B gene dysregulate Sox10 expression and cause neurocristopathy in the autonomic nervous system in mice**

○Hideki Enomoto (RIKEN Center for Developmental Biology)

P2-203 **Effect of elaidic acid on developing retinotectal pathway and tectum of chick embryo and neonatal**

○Yoshiharu Momota (Dep.of Health Sci., Fac.of Med.,Akita Univ.)

P2-204 **Imaging stochastic or behavior-related Ca2+ transients in non-neuronal tissues in zebrafish embryos microinjected with GCaMP3 mRNA**

○Shin-ichi Okamoto, Masashi Nakagawa, Kohei Hatta (Univ. of Hyogo)

Poster Session 3

May 31 (Thu) 14:00-16:00

Signal transduction / Cell proliferation / Differentiation / Cell death / Cell nucleus / Chromosome

P3-001 **Bendless and dUev1a Form an Ubiquitin E2 Complex that Modulates TNF-JNK Mediated Tumor Progression, Cell Death, Stress Resistance and Lifespan in Drosophila**
○Xianjue Ma, Lixia Yang (Shanghai Key Laboratory of Signaling and Disease Research, Tongji University)

P3-002 **Cell membrane disruption of a single cell stimulates NO/PKG signaling and potentiates cell membrane resealing in neighboring cells**
○Tatsuru Togo (Dept. of Anatomy, St. Marianna Univ. School of Medicine)

P3-003 **Impairment of cell growth by down regulation of NCAP2 gene transcription mediated with nuclear transported CD26 using humanized anti-CD26 monoclonal antibody**
○Taketo Yamada, Kohji Yamada (Dept. Pathol., Sch. of Med., Keio Univ.)

P3-004 **Modulation of JNK signaling by Toll pathway in Drosophlia**
○Chen X. Wu (Shanghai Key Laboratory of Signaling and Disease Research, School of Life Sci and Technology, Tongji Univ)

P3-005 **C-terminal fragment of HB-EGF negatively regulates osteoclast differentiation.**
○Takashi Nakamura[1,2], Mizuho Sato[1], Norihiro Isida-Kitagawa[2], Ryo Iwamoto[1], Eisuke Mekada[1] ([1]Dept. of Cell Biol., Research Institute for Microbial Diseases, Osaka Univ., [2]Dept. of Mol. Oncology, Graduate School of Biological Sciences, Nara Inst. of Science and Technology)

P3-006 (WS1b-9) **A dual and opposite role of NLK-mediated Lef1 phosphorylation on the Wnt/β-catenin signaling.**
○Tohru Ishitani, Shizuka Ishitani (Div. of Cell Reg. Sys., M.I.B., Kyushu Univ.)

P3-007 **Involvements of *Id* and *E* genes in hyperpigmentation of inner organs in Silky chicken**
○Toyoko Akiyama[1], Ai Shinomiya[1], Keiji Kinoshita[2], Makoto Mizutani[3], Yoichi Matsuda[3] ([1]Dept. of Biol., Keio Univ., [2]Lab. of Animal breeding and Genetics, Hiroshima Univ., [3]Avian Biosci. Res. Center, Nagoya Univ.)

P3-008 **Genetic interaction between Wingless and JNK signaling transduction pathways**
○Shiping ZHANG, Lei XUE (Shanghai Key Laboratory of Signaling and Disease Research, School of Life Science and Technology, Tongji University, Shanghai, China)

P3-009 **Nemo-like kinase regulates its own activity by sequential autophosphorylation.**
○Shizuka Ishitani, Tohru Ishitani (Div. of Cell Reg. Sys., M. I. B., Kyushu Univ.)

P3-010 **HB-EGF and PDGF Mediate Reciprocal Interactions of Carcinoma Cells with Cancer-Associated Fibroblasts to Support Progression of Uterine Cervical Cancers**
○Hiroto Mizushima[1], Takuya Murata[2,3], Ichino Chinen[1], Hiroki Moribe[1], Shigeo Yagi[4], Robert M Hoffman[5,6], Tadashi Kimura[3], Kiyoshi Yoshino[3], Yutaka Ueda[3], Takayuki Enomoto[3], Eisuke Mekada[1] ([1]Dept. Cell Biol., Res. Inst. Microbial Diseases, Osaka Univ., [2]Obst. & Gyn. Osaka-Saiseikai-Nakatsu Hosp., [3]Dept. Obst. & Gyn. Osaka Univ. Sch. of Med., [4]AntiCancer Inc. Japan, [5]AntiCancer Inc., [6]Dept. Surgery, UCSD)

P3-011 (WS1b-7) **Novel Roles of Glycosylation in *Drosophila* Innate Immunity**
○Miki Yamamoto-Hino[1,2], Takako Shibano[2], Wakae Awano[2], Masatoshi Muraoka[3], Hideyuki Okano[1], Satoshi Goto[1,2] ([1]Dept. of Physiol., School of Med., Keio Univ., [2]Mitsubishi-Kagaku Inst. Life Sc., [3]Tokyo Metropolitan Inst. of Med. Sci.)

P3-012 **Analysis of multinucleation induced by Aurora kinase B siRNA.**
○Keiichiro Yoshida, Shiori Tomita (Yokohama City Univ. School of Med. Dept. of Histology and Cell Biology)

P3-013 **Organization of the nuclear pore complex in fission yeast *Schizosaccharomyces pombe*.**
○Haruhiko Asakawa[1], Yuji Chikashige[2,3], Chizuru Ohtsuki[1], Masaaki Iwamoto[2], Yasushi Hiraoka[1,2,3], Tokuko Haraguchi[1,2,3] ([1]Grad. Sch. of Frontier Biosci., Osaka Univ., [2]Advanced ICT Res. Inst. Kobe, NICT, [3]Grad. Sch. of Sci. Osaka Univ.)

P3-014 **Sbno1 is required for survival of differentiating neurons and morphogenesis of the neural stem cells**
○Yu Katsuyama[1], Hideaki Imai[2], Taku Sugiyama[1], Noriko Osumi[1], Toshio Terashima[2] ([1]Div. of Develop. Neurosci. Tohoku Univ. Graduate School of Medicine, [2]Div. of Develop. Neurosci. Kobe Univ. Graduate School of Medicine)

P3-015 **The effect of low-power laser irradiation on mitochondrial morphology of human-derived glioblastoma A-172**

○Haruna Sugawara[1], Yumi Fukuzaki[1], Banri Yamanoha[2], Shinichi Kogure[1] ([1]Dep. of Bioinfo., Grad. Sch. of Engr., Soka Univ., [2]Dep. of Environ. for Symb., Engr. Soka Univ.)

P3-016 (WS1b-3) **Nucleoporin Nup358/RanBP2 associates with Karyopherin β1 to orchestrate accurate chromosome segregation in mitosis**

○Richard W. Wong, Chieko Hashizume (FSO, Kanazawa Univ.)

P3-017 **Involvement of Notch-mediated lateral inhibition and subsequent sorting of Delta1-expressing cells in avian otic placode development**

○Hiroko Shida[1,2], Noriko Osumi[1], Yoshio Wakamatsu[1] ([1]Div. of Develop. Neurosci., Grad. Sch. of Med., Tohoku Univ., [2]Div. of Orthod. Dentofacial Orthop., Grad. Sch. of Dent., Tohoku Univ.)

P3-018 **Regulation of polyadenylation in starfish oocytes arrested at MI**

○Hiroe Ochi[1], Masatoshi Hara[2], Kazunori Tachibana[2], Saki Aoto[1], Kazuyoshi Chiba[1] ([1]Department of Biological Sciences, Ochanomizu Univ, [2]Graduate School of Bioscience, Tokyo Institute of Technology)

P3-019 **532 nm low-power laser irradiation promoted on cell proliferation of human-derived glioblastoma**

○Yumi Fukuzaki[1], Haruna Sugawara[1], Banri Yamanoha[2], Shinichi Kogure[1] ([1]Dep. of Bioinfo., Grad. Sch. of Engr., Soka Univ., [2]Dep. Environ. for Symb., Engr. Soka Univ.)

P3-020 **Arachidonic acid cascade negatively contributes to caffeine tolerance via caspase-independent apoptosis.**

○Hidekazu Kuwayama (Grad. Sch. of Life and Env. Sci., Univ. of Tsukuba)

P3-021 **Dysregulation of post-translational processing of p32/HABP1/gC1qR by Kaposi's sarcoma-associated herpesvirus**

○Masahiro Fujimuro[1], Tadashi Watanabe[1], Hiroki Kagawa[1], S. Diane Hayward[2] ([1]Dept. of Cell Biol., Kyoto Pharm. Univ., [2]Sidny Kimmel Canc. Cent., Johns Hopkins School of Med.)

P3-022 **Equarin is involved as an FGF signaling modulator in chick lens differentiation**

○Xiaohong Song[1], Yuya Sato[2], Athary Felemban[1], Ayako Ito[1], Mahmud Hossain[1], Hiroshi Ochiai[3], Takashi Yamamoto[3], Kiyotoshi Sekiguchi[2], Hideaki Tanaka[1], Kunimasa Ohta[1] ([1]Dep. Dev. Neurobio., Grad. Sch. LifeSci., Kumamoto Univ., GCOE, Kumamoto, [2]Laboratory of Extracellular Matrix Biochemistry, Institute for Protein Research, Osaka University, 3-2 Suita, Osaka, [3]Department of Mathematical and Life sciences, Graduate School of Science, Hiroshima University, 1-3-1 Higashi-Hiroshima, Hiroshima)

P3-023 (WS1b-5) **P90 RSK arranges Chk1 in the nucleus for monitoring of genomic integrity during cell proliferation**

○Hidemasa Goto[1,2], Ping Li[1], Kousuke Kasahara[1,3], Makoto Matsuyama[1], Zhonghua Wang[1], Yasushi Yatabe[4], Tohru Kiyono[5], Masaki Inagaki[1,3] ([1]Div. of Biochem., Aichi Cancer Ctr. Res. Inst., [2]Dept. of Cell. Oncol., Nagoya Univ. Grad. Sch. of Med., [3]Dept. of Oncol., Grad. Sch. of Pharmaceutical Sci., Nagoya City Univ., [4]Dept. of Pathol. and Mol. Diagnostics, Aichi Cancer Center Hosp., [5]Div. of Virol., Natl. Cancer Ctr. Res. Inst.)

P3-024 **Analysis of programmed cell death in *Xenoupus* embryos using a FRET-based caspase biosensor**

○Kazuhiro Sakamaki[1], Makoto Suzuki[2], Chiyo Takagi[2], Yusuke Hara[2], Katsuya Kominami[1], Kumiko Chiba[1], Hiroshi Y. Kubota[3], Naoto Ueno[2] ([1]Grad. Sch. of Biostudies, Kyoto Univ., [2]Dept. Dev. Biol., NIBB, [3]Grad. Sch. of Science, Kyoto Univ.)

P3-025 **Roles of FGF and Notch signaling in the chondrogenic and gliogenic specification of mouse mesencephalic neural crest cells.**

○Kyohei Fujita, Kanenobu Ijuin, Kouichi Nakanishi, Keisuke Sugiura, Kazuo Ito (Dept. Biol. Sci., Osaka Univ.)

P3-026 **Isolation and spatiotemporal expression analysis of *BMP* in the *Botryllus primigenus*.**

Michiko Ryuzaki, Kaz Kawamura, ○Takeshi Sunanaga (Fac. of Sci., Kochi Univ.)

P3-027 **Progressive thermal preconditioning enforces PI3K/Akt-pathway to reduce arterial injury**

Ping-Chia Li[1], Shih-Chen Fan[1], Ching-Wen Liu[2], ○Li-Ching Chang[1] ([1]Dept. of Occup. Ther., I-Shou Univ., [2]Fac. of Pharma., Kaohsiung Med. Univ.)

P3-028 (WS1b-10) **Epithelial cell-intrinsic Notch signaling plays an essential role in the maintenance of gut homeostasis**

○Yuuki Obata[1,2], Daisuke Takahashi[2], Kisa Kakiguchi[3], Shigenobu Yonemura[3], Takashi Kanaya[2], Koji Hase[4], Hiroshi Ohno[1,2] ([1]Grad. Sch. of Med., Univ. of Chiba, [2]Lab. for Epithelial Immunobiology, RCAI, RIKEN, [3]Lab. for Electron Microscope, CDB, RIKEN, [4]Lab. for Bioenvironmental Epigenetics, RCAI, RIKEN)

P3-029 **The regulation of PACSIN2 in caveolae**

○Yosuke Senju, Shiro Suetsugu (Lab Membrane Cytoskeleton Dynamics, IMCB, Univ. of Tokyo)

P3-030 **Visualization of progesterone-stimulated ERK activation in primary mammary organoids derived from transgenic mice expressing a FRET biosensor for ERK.**
○Yuka Kumagai[1], Michiyuki Matsuda[1,2] ([1]Lab. of Bioimaging and Cell Signaling, Grad. Sch. of Biostudies, Kyoto Univ., [2]Dep. of Pathology and Biology of Diseases, Grad. Sch. of Medicine, Kyoto Univ.)

P3-031 **Identification of signaling molecules that regulate adipogenesis**
○Mee-Jeong Khil, Kazunori Sunadome, Eisuke Nishida (Dept.Cell & Develop. Biol., Grad. Sch. Biostudies, Kyoto Univ.)

P3-032 **Molecular dissection of spore germination in fission yeast**
○Miku Higashitani, Kazuki Imada, Chikashi Shimoda, Taro Nakamura (Department of Biology, Graduate School of Science, Osaka City University)

P3-033 (WS1b-8) **A specific amino acid metabolic state of human ES/iPS cells and its significance**
○Nobuaki Shiraki[1], Yasuko Shiraki[3], Genta Nagae[4], Tomonori Tsuyama[1], Hiroyuki Aburatani[4], Kazuhiko Kume[1], Fumio Endo[3], Shoen Kume[1,2] ([1]Dep. of Stem Cell Biol., IMEG, Kumamoto Univ., [2]GCOE, Kumamoto Univ., [3]Dep. of Pediatrics, Graduate School of Med. Sci., Kumamoto Univ., [4]Genome Science Division, RCAST, Univ. of Tokyo)

P3-034 **Roles of the epithelial structure in the neural progenitor self-renewal in the mammalian developing neocortex.**
○Atsunori Shitamukai, Daijiro Konno, Fumio Matsuzaki (Laboratory for Cell Asymmetry, RIKEN Center for Developmental Biology)

P3-035 **Cholesterol deprivation suppresses intermittent fasting-induced longevity through inhibition of DAF-16**
○Akiko Ihara, Sakiko Honjoh, Masaharu Uno, Hiroyuki Yoshimura, Eisuke Nishida (Dept. of Cell and Dev. Biol., Grad. Sch. of Biostudies, Kyoto Univ.)

P3-036 **RNA binding protein RBM8A (Y14) and Magoh localize to centrosome in human cells**
○Yasuhito Ishigaki[1], Yuka Nakamura[1], Manabu Murakami[1], Mamoru Ozaki[1], Mitsumasa Hashimoto[2], Kuniyoshi Iwabuchi[2], Hideaki Nakagawa[1], Naohisa Tomosugi[1], Tsutomu Takegami[1] ([1]Med. Res. Inst., Kanazawa Med. Univ., [2]Dept. Biochem., Kanazawa Med. Univ.)

P3-037 **How do adult mammalian cardiomyocytes maintain the proliferation arrest?**
○Shoji Tane[1], Satoshi Yoshitome[2], Yukio Satoh[1], Noriko Iwamoto[1], Hitomi Okayama[1], Aiko Ikenishi[1], Toshinori Hayashi[1], Takashi Takeuchi[1] ([1]Division of Biosignaling, School of Life Science, Tottori University, [2]Department of Pharmacy, Iwaki Meisei University)

P3-038 **Transcriptional regulation of *daf-16* requires C. elegans TRRAP acetyltransferase complex**
○Takako Ikeda, Sakiko Honjoh, Masaharu Uno, Eisuke Nishida (Department of Cell and Developmental Biology, Graduate School of Biostudies, Kyoto University)

P3-039 **The roles of CXCL14 and its receptors in skeletal muscle differentiation**
○Daiki Shuto[1], Kosuke Tanegashima[2], Kenji Suzuki[2], Takahiko Hara[2], Shinichi Abe[1], Kou Eto[1], Yuki Nakayama[3] ([1]GSST, Kumamoto Univ., [2]Tokyo Metropolitan Institute of Medical Science., [3]Priority Organization for Innovation and Excellence, Kumamoto Univ.)

P3-040 (WS1b-1) **Correlation analysis of the molecular conformation and signal-responsiveness of RAF by FRET imaging in individual cells.**
○Kayo Hibino[1,2], Masahiro Ueda[1], Yasushi Sako[2] ([1]QBiC, RIKEN, [2]ASI, RIKEN)

P3-041 **Analysis of the royal jelly proteome and characterization of the functions of its derivation glands by using proteomics**
○Toshiyuki Fujita[1], Hiroko Kozuka-Hata[2], Hiroko Kondo[2], Takekazu Kunieda[1], Masaaki Oyama[2], Takeo Kubo[1] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci. Univ. of Tokyo, [2]Med. Proteomics Lab., Inst. of Med. Sci., Univ. of Tokyo)

P3-042 **Karyotype Analysis of Schizosaccharomyces pombe variants.**
○Yuji Chikashige[1,2], Chihiro Tsutsumi[1], Miho Yamane[1], Kasumi Okamasa[1], Chie Mori[1], Tokuko Haraguchi[1,2], Yasushi Hiraoka[1,2,3] ([1]National Institute of Information and Communications Technology, [2]Department of Biology, Graduate School of Science, Osaka University, [3]Graduate School of Frontier Biosciences, Osaka University)

P3-043 **Regulation of polar body emission in starfish oocytes by MAPK-Rsk pathway via Diaphanous formin**
○Hasan Ucar, Kazunori Tachibana, Takeo Kishimoto (Grd. Sch. of Biosci. and Biotech.,Tokyo Tech.)

P3-044 **Involvement of IRSp53 in podosome formation and proliferation of NIH-Src cells**
Hitomi Okamura, ○Shiro Suetsugu (Inst Mol Cell Biosci, Univ. Tokyo)

P3-045 (WS1b-4) **Serine/Threonine phosphatase PP5 regulates LRRK1 kinase activity during mitosis**
○Kazuhito Sai, Hiroshi Hanafusa, Kunihiro Matsumoto (Dept. Biol. Sci., Grad. Shc. Sci., Univ. of Nagoya)

P3-046 **Signaling cascades involved in nullipotency of F9 embryonal Carcinoma cells.**
○Nobuhito Ikeda, Akira Hasegawa, Ichiro Hisatome, Yasuaki Shirayoshi (Div. of Regene. Med. and Thera., Grad. sch. of med., Univ. of Tottori)

P3-047 **Nutritional regulation of TORC1 kinase via EGO complex and Npr2.**
○Shintaro Kira[1], Tamotsu Yoshimori[1,2], Takeshi Noda[1,2] ([1]Graduate school of Frontier Bioscience, Osaka University, [2]Department of Genetics, Graduate School of Medicine, Osaka University)

P3-048 **Nuclear envelope assembly at the DNA-coated polystyrene beads during mitosis**
○Shouhei Kobayashi[1], Tomoko Kojidani[1], Hiroko Osakada[1], Chie Mori[1], Takako Koujin[1], Yasushi Hiraoka[1,2,3], Tokuko Haraguchi[1,2,3] ([1]Advanced ICT Research Institute Kobe, National Institute of Information and Communications Technology, [2]Graduate School of Frontier Biosciences, Osaka University., [3]Graduate School of Science, Osaka University.)

P3-049 **Cyclic phosphatidic acid protects hypoxia induced apoptosis in neuroblastoma**
○Katsura Maeda-Sano[1,2], Mari Gotoh[1], Harumi Hotta[3], Hiromu Murofushi[1], Kimiko Murakami-Murofushi[1] ([1]Graduate School of Humanities and Sciences, Ochanomizu University, [2]Reserch Department, ALBION CO., LTD., [3]Department of Autonomic Neuroscience, Tokyo Metropolitan Institute of Gerontology)

P3-050 (WS1b-2) **Analysis of Rab5 in fission yeast**
○Yuta Tsukamoto[1], Chisako Katayama[1], Masaaki Miyamoto[1,2] ([1]Dep. of Biol., Grad. Sch. of Sci., Kobe Univ., [2]CSREA, Kobe Univ.)

P3-051 **Regulation of the Rac activator Tiam1 by aPKC phosphorylation**
○Kenji Matsuzawa[1], Takashi Watanabe[1], Shujie Wang[2], Toshinori Matsui[1], Mai Kakeno[1], Kozo Kaibuchi[1] ([1]Dept. of Cell Pharmacol., Grad. School of Med., Nagoya Univ., [2]Dept. of Neural Regen. and Cell Commun., Grad. School of Med., Mie Univ.)

P3-052 **Extract of new born chicken heart arrests proliferation of chicken embryonic cardiomyocytes.**
○Akio Inoue, Keiichi Otsuka (Dept. Biol., Grad.Sch.of Sci., Osaka Uni.)

P3-053 **Recognition mode of basic NLS sequence by importin α1.**
○Chihiro Kimoto[1], Noriko Yasuhara[2], Yoshihiro Yoneda[1,2] ([1]Biomol. Dyn. Group., Grd. Sch. of F.B.S., Osaka Univ., [2]Biochem., Grd. Sch. of Med., Osaka Univ.)

P3-054 **Importin α regulates the stem cell differentiation**
○Noriko Yasuhara[1], Ryosuke Yamagishi[2], Hiroki Kaneko[2], Chihiro Kimoto[3], Yoshihiro Yoneda[1,3] ([1]Biochem., Med., Osaka Univ., [2]Int. Sci., Col. of Hum. and Sci., Nihon Univ., [3]Biomol. Dynamics, Frontier Biosci., Osaka Univ.)

P3-055 (WS1b-6) **Identification of integrin αPS3βv as a receptor for phagocytosis of apoptotic cells in *Drosophila* embryos**
○Kaz Nagaosa, Saori Nonaka, Ryo Okada, Yoshinobu Nakanishi (Grad. Sch. Med. Sci., Kanazawa Univ.)

P3-056 **The optic lobe development and the cell death in Drosophila**
Yu Togane[1,2], Rie Ayukawa[1], Yusuke Hara[1,2], Hiromi Akagawa[1,2], Tatsuya Sudo[1], Masashi Iwamura[1], Ayano Ishizuka[1], ○ Hidenobu Tsujimura[1] ([1]Dev. Biol., Tokyo Univ. of Agric. and Tech., [2]Biol. Prod. Sci., Tokyo Univ. of Agric. Tech.)

P3-057 **Hikeshi, a novel nuclear import carrier for Hsc70/Hsp70, protects cells from heat-shock induced nuclear damage**
○Shingo Kose, Maiko Furuta, Ai Watanabe, Ai Kametaka, Naoko Imamoto (Cellular Dynamics Lab., ASI, RIKEN)

P3-058 **Functional analysis of Cyclin G1 and Cyclin G2 that regulates protein phosphatase 2A through association with its B'γ subunit**
○Shouichi Ohno, Yoko Naito, Norikazu Yabuta, Hiroshi Nojima (Dept. of Mol. Genet., R.I.M.D, Osaka Univ.)

Regeneration / Gametogenesis / Stem cells

P3-059 **Characterization of mouse dicalcin in the female reproductive tissue.**
○Naofumi Miwa, Mayu Hanaue, Ken Takamatsu (Dept. Physiol.,Toho Univ., Tokyo, Japan)

P3-060 **Position specific gene expression pattern is maintained in an axolotl limb. ~feasible explanation about positional memory~**
○Akira Satoh (Research Core for interdisciplinary sciences, Okayama Univ)

P3-061 (WS2b-4) **Dynamics of cultured human epidermal keratinocyte stem cells**
○Daisuke Nanba[1], Fujio Toki[1], Natsuki Matsushita[1], Hiroshi Toki[2], Shigeki Higashiyama[1], Yann Barrandon[3] ([1]ProMRes, Ehime Univ., [2]RCNP, Osaka Univ., [3]LDCS, EPFL)

P3-062 **Proximal limb structure is regenerated by BMP-mediated mechanism in axolotl limb regeneration**
○Aki Makanae[1], Miyuki Moriyasu[1], Akira Satoh[1,2] ([1]RCIS, Okayama Univ., [2]PRESTO, JST)

P3-063 **Transportation of Transplantable Cell Sheets for Regenerative Medicine Treatment**
○Takayuki Nozaki[1], Yoshinori Oie[2], Shizu Takeda[1], Keisuke Mori[1], Noboru Moriya[1], Kazuo Saito[1], Ryuhei Hayashi[2], Kohji Nishida[2] ([1]Central Research Laboratory, Hitachi, Ltd., [2]Department of Ophthalmology, Osaka University Graduate School of Medicine)

P3-064 (WS2b-3) **Tsukushi maintains the growth and undifferentiated properties of stem/progenitor cells as a niche molecule**
Ayako Ito[1], Yohei Shinmyo[1], Nahoko Kaneko[2], Yuki Hirota[2], Jun Hatakeyama[1], Masahiro Yamaguchi[3], Kenji Shimamura[1], Kazunobu Sawamoto[2], Hideaki Tanaka[1], ○Kunimasa Ohta[1] ([1]Div. of Dev. Neurobiol., Kumamoto Univ., [2]Nagoya City University, Nagoya, Japan, [3]University of Tokyo, Tokyo, Japan)

P3-065 **Sea urchin egg preservation and the spontaneous cell death of preserved egg.**
○Masato Kiyomoto (Tateyama Mar. Lab., Mar. Costal Res. Center, Ochanomizu Univ.)

P3-066 **Requirement of ADP-Ribosylation Factor 6 for the Development of Mouse Germ Cells**
○Hiroshi Hasegawa[1,2], Yusuke Kanai[1], Tsunaki Hongu[1], Yasunori Kanaho[1] ([1]Dept. of Physiol. Chem., Fac. of Med., Univ. of Tsukuba, [2]Lab. of Dev. Neurosci., Fac. of Med., Univ. of Tsukuba)

P3-067 (WS2b-1) **A putative somatic role of the germline-specific gene *piwi* in the central nervous system of *Ciona intestinalis***
○Kotaro Shimai[1], Aoi Ichinose[1], Takeo Horie[2], Yuki Miyamoto[1], Yasuko Terashima[1], Koki Nihitsuji[3], Maki Shirae-Kurabayashi[4], Akira Nakamura[4], Rie Kusakabe[5], Kunio Inoue[5], Takehiro G. Kusakabe[1] ([1]Dep. Bio., Fac. Sci. Eng., Konan Univ., [2]Shimoda Marine Research Center, University of Tsukuba, Japan, [3]Graduate School of Life Science, University of Hyogo, Japan, [4]RIKEN CDB, Japan, [5]Graduate School of Science, Kobe University, Japan)

P3-068 **Characteristics of multipotent stem cells derived from the epiblast and ectoderm of postimplantation mouse embryos**
○Yoji Kojima, Joshua B Studdert, Kirsten A Steiner, Melinda D Power, Keren Francis-Kaufman, David AF Loebel, Patrick PL Tam (Children's Medical Research Institute)

P3-069 **NANOS2 promotes male germ cell program independent of the suppression of meiosis**
○Yuzuru Kato[1], Rie Saba[1], Yumiko Saga[1,2,3] ([1]Div. of Mam. Dev.,Natl. Inst. of Genet., [2]Dept. of Genet, SOKENDAI, [3]Dept. of Biol. Sciences, Grad. Schl of Science, Univ. of Tokyo,)

P3-070 (WS2b-10) **A toxic protein in cultured cells is functional only in mammalian mature sperm formation**
○Nobuyoshi Takasaki[1], Kouichi Tachibana[1], Satoshi Ogasawara[1], Hideki Matsuzaki[1], Jun Hagiuda[2], Hiromichi Ishikawa[2], Keiji Mochida[3], Kimiko Inoue[3], Narumi Ogonuki[3], Atsuo Ogura[3], Toshiaki Noce[4], Chizuru Ito[5], Kiyotaka Toshimori[5], Hisashi Narimatsu[1] ([1]Medical Glycoscience, AIST, [2]Tokyo Dental Collage, [3]Riken BRC, [4]Keio University, [5]Chiba University)

P3-071 **The effect of miR-302 cluster mimics to the expression of the Yamanaka factor genes in mouse somatic cells.**
○Masanori Narahara, Yuuki Okuno, Tomoaki Murakami, Teruhito Ishibuchi, Masaharu Miyake (Div. of Biopharmaceutical Sciences, Inst. of Pharm., Kobe Gakuin Univ.)

P3-072 **Functional analysis of medaka periostin in heart repair**
○Kohei Ito, Mai Morioka, Akira Kudo (Dept. Biol. Info., Tokyo Inst. Tech.)

P3-073 (WS2b-9) **Selective epigenetic gene regulation via DNA demethylation and bivalent histone modification in primordial germ cells.**
○Kentaro Mochizuki[1], Makoto Tachibana[2], Mitinori Saitou[3], Yuko Tokitake[1], Yasuhisa Matsui[1] ([1]Inst. of Development, Aging and Cancer, Tohoku Univ., [2]Inst. for Virus Res., Kyoto Univ., [3]Grad. Sch. of Med., Kyoto Univ.)

P3-074 **How can we distinguish stem cells involved in regeneration in planarians? ~Lesson from expression of cell cycle modulators~**
○Norito Shibata, Hayoung Lee, Toshihide Sakurai, Junsuke Fujii, Kiyokazu Agata (Grad. School of Science, Kyoto Univ.)

P3-075 **A transient niche for the maintenance of undifferentiated state of germline-stem-cell precursors in Drosophila ovary**
○Miho Asaoka[1,2], Yoshihiro Yuasa[1], Yasushi Hiromi[1,2] ([1]Div. of Developmental Genetics, National Inst. of Genetics (NIG), [2]SOKENDAI)

P3-076 (WS2b-6) **Keeping the balance of differentiation within the stem cell precursor pool in the *Drosophila* ovary**
○Shinya Matsuoka[1,2], Miho Asaoka[1,2], Yasushi Hiromi[1,2] ([1]National Institute of Genetics, [2]SOKENDAI)

P3-077 **Development of the model system for molecular genetics for the regenerative studies in urodeles.**
○Toshinori Hayashi, Naoki Yokotani, Akira Matsumoto, Shoji Tane, Takashi Takeuchi (Sch. of Life Sci., Med., Tottori Univ.)

P3-078 **Generation of intestinal epithelial like cell derived from ES cells.**
○Soichiro Ogaki[1], Nobuaki Shiraki[1], Kazuhiko Kume[1], Shoen Kume[1,2] ([1]Div. of Stem Cell Biol., IMEG, Kumamoto Univ, [2]GCOE., Kumamoto Univ)

P3-079 (WS2b-5) **A high throughput screening system for molecules promoting pancreatic β-cell differentiation of ES cells.**
○Daisuke Sakano[1,2], Nobuaki Shiraki[1], Masateru Kataoka[1], Kazuhide Kikawa[1,3], Fumio Endo[3], Kazuhiko Kume[1], Motonari Uesugi[4], Shoen Kume[1,2] ([1]Div. of Stem Cell Biol., IMEG, Kumamoto Univ., [2]G-COE, Kumamoto Univ., [3]Dept. of Pediatrics, Graduate School of Medical Sciences, Kumamoto Univ, [4]iCeMS, Kyoto Univ.)

P3-080 **Six1 and Six4 homeodomain proteins act downstream to BMP signal in mouse primordial germ cell formation.**
○Satomi S. Tanaka[1], Yasuka L. Yamauchi[1], Yuka Fujimoto[1], Kiyoshi Kawakami[2], Ryuichi Nishinakamura[1] ([1]IMEG, Kumamoto Univ., [2]Jichi Medical Univ.)

P3-081 **Roles of DNA repairing factor Rad18 in maintenance of mouse spermatogonial stem cell**
○Natsuko Iyoda[1], Mai Akihisa[1], Saori Ochi[2], Satoshi Tateishi[3], Kentaro Yomogida[4] ([1]Graduate School of Human Envi. Sci.Mukogawa Womens Univ, [2]Dept. of Food Sci Nutri., Mukogawa Womens Univ, [3]Inst. of Mol. Embryol. Gent. Kumamto Univ, [4]Inst.of Biosci. Mukogawa Womens Univ)

P3-082 (WS2b-7) **Pgc protects germ plasm RNAs from miRNA-mediated degradation in *Drosophila* primordial germ cells.**
○Kazuko Hanyu-Nakamura, Kazuki Matsuda, Akira Nakamura (Lab. for Germline Dev., RIKEN CDB)

P3-083 **Transcriptome analysis searching genes involved in "anteriorization" during regeneration of the planarian *Dugesia japonica***
○Kazutaka Hosoda[1], Osamu Nishimura[2], Shigenobu Yazawa[1], Yoshihiko Umesono[3], Kiyokazu Agata[1] ([1]Dept. of Biophys., Kyoto Univ., [2]GCOE, Kyoto Univ., [3]RIKEN CDB)

P3-084 **Establishment of nitroreductase-mediated cell ablation using Cre-loxP system in zebrafish**
○Kazunori Ando, Nozomi Yoshinari, Atsushi Kawakami (Tokyo Inst. Tech.)

P3-085 **Analysis of the expression patterns of Cell cycle regulator genes during newt cardiac regeneration**
○Akira Matsumoto[1], Toshinori Hayashi[1], Naoki Yokotani[1], Eri Kawaguchi[2], Osamu Nishimura[2], Takeshi Inoue[2], Kiyokazu Agata[2], Takashi Takeuchi[1] ([1]School of life sciences, Tottori University, [2]Graduate school of science, Kyoto University)

P3-086 **Amphibian retinal regeneration is triggered by matrix metalloproteinase and is accompanied with epigenetic modification**
○H Naitoh[1], E Okuhara[1], Y Ueda[1], N Sudou[2,3], H Ogino[2,3], M Araki[1] ([1]Dev. Neurobiol. Lab., Dept. of Biol. Sci., Nara Women's University, Graduate School, [2]Graduate School of Biol. Sci., Nara Institute of Science and Technology, [3]JST, CREST)

P3-087 (WS2b-2) **Neural stem/progenitor cells in the iris tissues of the chick embryo**
○M Araki[1], T Ishikawa[1], A Fujihara[1], M Kosaka[2] ([1]Dev. Neurobiol. Lab., Nara Women's University, [2]Human Morphology, Faculty of Med., Okayama University)

P3-088 **Identification of DjPiwiB targets to clarify the molecular function of DjPiwiB in the pluripotency of planarian stem cell**
○Makoto Kashima[1], Taisuke Ishiko[1], Haruhiko Siomi[2], Kuniaki Saito[2], Mikiko C. Siomi[2], Eri Kawaguchi[3], Osamu Nishimura[3], Shigenobu Yazawa[3], Norito Shibata[3], Kiyokazu Agata[1] ([1]Dept. of Biophys., Grad. Sch. of Sci., Uni. of Kyoto, [2]Dept. of Mol. Biol., Sch. of Med., Uni. of Keio, [3]gCOE Program, Div. of Biol. Sci., Grad. Sch. of Sci., Uni. of Kyoto)

P3-089 **Transgenic analysis of mesencephalic dopaminergic neuron regeneration in a newt, *Cynops pyrrhogaster***
○Yuko Urata, Chiaki Michibayashi, Rio Tsutsumi, Shota Takemura, Takeshi Inoue, Kiyokazu Agata (Dept. of Biophys. Grad. Sch. of Sci., Kyoto Univ.)

P3-090 **Molecular and Cellular Analysis of Blood Vessel Regeneration in Zebrafish Caudal Fin**
○Yoshiko Kametani[1,2], Shinji Takada[1], Didier.Y Stainier[2] ([1]Okazaki Inst. Integrative Bioscience, [2]UCSF)

P3-091 **Protein analysis of grimp, a gene involved in early regeneration of *Enchytraeus japonensis* (Enchytraeidae, Oligochaete)**
Chikako Yoshida-Noro[1,2], ○Gaku Sato[1], Shota Noguchi[1], Yoshikazu Mikami[3], Tomihisa Takahashi[3], Makoto Takeo[4,5], Shin Tochinai[4] ([1]Dept. Appl. Mol. Chem., CIT, Nihon Univ., [2]ARISH, Nihon Univ. & Div. Cell Regen. & Transpl., Nihon Univ. Sch. Med., [3]Dept. Anat., Nihon Univ. Sch. Dent., [4]Fac. Sci., Hokkaido Univ., [5]New York Univ. Sch. Med.)

P3-092 (WS2b-8)
The germ plasm-independent mechanism for the germ cell specification in *C. intestinalis*
○Maki Shirae-Kurabayashi[1], Yasunori Sasakura[2], Akira Nakamura[3], Takashi Yamamoto[1] ([1]Dept. of Math. and Life Sci., Hiroshima Univ., [2]Shimoda Mar. Res. Cent., Univ. Tsukuba, [3]RIKEN CDB)

P3-093
Differential role for Oct4 nucleocytoplasmic dynamics in somatic cell reprogramming and self-renewal of embryonic stem cells
○Masahiro Oka[1,2], Tetsuji Moriyama[1], Munehiro Asally[1], Koichi Kawakami[3], Yoshihiro Yoneda[1,2] ([1]Grad. Sch. of Frontier Biosciences, Osaka Univ., [2]Dept. of Biochem., Grad. Sch. of Med., Osaka Univ., [3]Div. of Mol. and Dev. Biol., National Institute of Genetics)

P3-094
Toward the transcriptome of stem cells in the sponge *Ephydatia fluviatilis*
○Alexandre Alie[1], Tetsutaro Hayashi[2], Nori Satoh[3], Osamu Nishimura[4], Kiyokazu Agata[1], Noriko Funayama[1] ([1]Laboratory of Molecular Developmental Biology, Dpt of Biophysics, Graduate School of Science, Kyoto University, [2]Genome Resource and Analysis Unit, RIKEN Center for Dev. Biol., [3]Marine Genomics Unit, Okinawa Institute of Science and Technology, [4]Global COE Program: Evolution and Biodiversity, Div. of Biological Sciences, Grad. School of Science, Kyoto University)

P3-095
The role of N16 in maintenance of DNA stability in mouse embryonic stem cells.
○Ayako L. Mochizuki[1], Mihoko Hosokawa[1,2], Ami Katanaya[1], Eri Hayashi[1], Norio Nakatsuji[1,2], Shinichiro Chuma[1] ([1]Dep. of Dev. and Differ., Inst. for Frontier Med.Sci., Kyoto Univ., [2]Inst. for Integrated Cell-Material Sci., Kyoto Univ.)

Gene expression and Epigenetics

P3-096
Expression profiling of Lats2 knockout MEF cells using dye-swapped DNA microarray.
○Kosuke Torigata[1], Daisuke Okuzaki[1,2], Norikazu Yabuta[1], Hiroshi Nojima[1,2] ([1]Dept. Mol. Genet. RIMD, Osaka Univ., [2]DDCID, RIMD, Osaka Univ.)

P3-097 (WS3b-2)
A transcription factor Abf1 facilitates ORC binding onto the Saccharomyces cerevisiae replication origin via histone acetylase Gcn5.
○Hidetsugu Kohzaki[1,2,3], Kaeko Kamei[2,4], Yota Murakami[1,5] ([1]Dept. Cell Biol., IVR, Kyoto Univ., [2]Venture Lab., Kyoto Inst. Tech, [3]Japan Leukaemia Research Fund, [4]Dept. Biomolecular Engineering, Kyoto Inst. Tech, [5]Dept. Chem., Faculty of Science, Hokkaido Univ.)

P3-098 (WS3b-3)
Roles of actin-related proteins in chromatin function and nuclear organization
Yukako Oma[1], Hiroshi Kitamura[1], Tatsunori Konishi[1], Susan Gasser[2], Pavel Hozak[3], ○Masahiko Harata[1] ([1]Lab. of Mol. Biol., Grad. Sch. of Agri. Sci, Tohoku Univ., [2]Friedrich Miescher Institute for Biomedical Research, [3]Department of Biology of the Cell Nucleus, Institute of Molecular Genetics ASCR, v.v.i.)

P3-099
Maternal control for the initiation of a zygotic gene regulatory network in *Ciona intestinalis*.
○Izumi Oda-Ishii, Yutaka Satou (Dept. of Zool., Grad. Sch. of Sci., Kyoto Univ)

P3-100
blimp-1* Knockdown induces advancing and delaying of the pupal development and eclosion timing in *Drosophila
○Abdel Rahman S Sultan[1], Hitoshi Ueda[1,2] ([1]Grad. Sch. of Nat. Sci. and Tech., Okayama Univ., [2]Dept. of Bio. Fac. of Sci. Okayama Univ.)

P3-101 (WS3b-6)
HTZ-1/H2A.z maintains the fates of somatic gonadal cells through the repression of *ceh-22*/Hox in an H3K27me-independent manner
○Yukimasa Shibata[1,2], Hitoshi Sawa[2,3], Kiyoji Nishiwaki[1] ([1]Dep. of Biosci., Sch. of Sci. and Tech., Kwansei Gakuin Univ., [2]RIKEN CDB, [3]NIG)

P3-102 (WS3b-5)
Exportin 4 interacts with Sox9 through the HMG box and inhibits the DNA binding of Sox9
○Hidesato Ogawa[1,2], Megumi Tsuchiya[2], Tokuko Haraguchi[1,2], Yasushi Hiraoka[1,2] ([1]Advanced ICT Research Institute Kobe, NICT, [2]Graduate School of Frontier Biosciences, Osaka Univ.)

P3-103
The H3K27 demethylase, JMJD3, is essential for Xenopus eye development
○Akane Kawaguchi[1], Haruki Ochi[1,2], Norihiro Sudou[1,2], Hajime Ogino[1,2] ([1]Nara Institute of Science and Technology, [2]JST, CREST, 5, Sanbancho, Chiyoda-ku, Tokyo, 102-0075, Japan.)

P3-104
Pinhead functions as a negative regulator of ADMP in Ciona intestinalis
Kaoru Imai-Satou, ○Yutaka Satou (Department of science Kyoto University)

P3-105 (WS3b-1)
PRDM14 promotes active DNA demethylation through base excision repair pathway in embryonic stem cells.
○Yoshiyuki Seki[1], Yuichi Kumaki[2], Mitinori Saitou[3], Masaki Okano[2], Kuniaki Ebi[1] ([1]Dep. of Bio., Sch. of Sci. and Tech., K.G., Univ., [2]Lab. for Mam. Epi. Stud., RIKEN CDB, [3]Dep. of Anat. and Cell Biol., Grad. Sch. of Med., Kyoto Univ.)

P3-106 (WS3b-8) **Post-translational modification of Charlatan, a Drosophila NREF/REST-like repressor, is required for neuron specific genes expression**
Young-Mi Lim, Yasutoyo Yamasaki, ○Leo Tsuda (National Center for Geriatrics and Gerontology)

P3-107 **Expression profiles of individual blastomeres in the early *Ciona intestinalis* embryo**
○Terumi Matsuoka, Tatsuro Ikeda, Yutaka Satou (Dept. of Zool., Div. of Biol. Sci., Grad. Sch. of Sci., Kyoto Univ.)

P3-108 **Monitoring chromatin modification and transcriptional activation in living cells**
○Hiroshi Kimura, Yuko Sato, Timothy J Stasevich (Grad. Sch. Frontier Biosci., Osaka Univ.)

P3-109 (WS3b-7) **Histone demethylase LSD1 navigates hematopoietic commitment of the hemangioblast**
○Makoto Kobayashi, Mana Watanabe, Miki Takeuchi (Mol. Dev. Biol., Fac. of Med. Sci., Univ. of Tsukuba)

P3-110 (WS3b-4) **Meta-cis-regulation of Meis2 transcription**
○Takashi Kondo, Haruhiko Koseki (RCAI, RIKEN)

P3-111 **DNA-methyltransferase 1 functions as a suppressor of neuronal differentiation in late-gestational neural stem cells.**
○Hirofumi Noguchi, Masakazu Namihira, Tomoki Tanaka, Tsukasa Sanosaka, Kinichi Nakashima (Lab. Mol. Neurosci., Grad. Sch. Biol. Sci., Nara Inst. Sci. Tech (NAIST))

P3-112 **Gbx2 directly restricts *Otx2* expression to forebrain and midbrain, competing with Class III POU factors**
○Fumitaka Inoue[1], Daisuke Kurokawa[1,2], Maiko Takahashi[1], Shinichi Aizawa[1] ([1]CDB, RIKEN, [2]MMBS, Univ. Tokyo)

P3-113 (WS3b-9) **Chk1 phosphorylates the tumor suppressor Mig-6, regulating the activation of EGF signaling**
○Masatoshi Kitagawa, Kyoko Kitagawa, Yojiro Kotake, Hiroyuki Niida, Ning Liu (Dep. of Biochemistry 1, Hamamatsu Univ. Sch. of Med.)

High-technology and Bioimaging

P3-114 (WS4b-3) **Live Imaging of Protein Kinase Activities in Transgenic Mice**
○Yuji Kamioka[1], Kenta Sumiyama[2], Rei Mizuno[1], Michiyuki Matsuda[1] ([1]Grad. Sch. of Med., Kyoto Univ., [2]National Institute of Genetics, Div. of Pop. Genet.)

P3-115 (WS4b-9) **Label-free Raman observation of cytochrome c dynamics in apoptotic cells**
○Masaya Okada[1], Nicholas I. Smith[2], Almar F. Palonpon[3], Satoshi Kawata[1,4], Mikiko Sodeoka[3,4], Katsumasa Fujita[1,3] ([1]Dept. of Appl. Phys., Univ. of Osaka, [2]Immunol. Front. Res. Ctr., Univ. of Osaka, [3]JST, [4]RIKEN)

P3-116 (WS4b-6) **Parallel detection of changes in cytoplasmic dynamics at the cortical division site and cell division processes in a cell using global-local live imaging microscope (GLIM) system**
Daisuke Tamaoki, Toru Saruwatari, Tomonori Nakai, ○Yoshinobu Mineyuki (Dep. of Life Sci., Grad. Sch. of Life Sci., Univ. of Hyogo)

P3-117 **Structural analysis of the septate junction in *Drosophila* wing disc by double-axis electron tomography**
○Tomohiro Haruta, Hideo Nishioka (EM application group 2 team, JEOL Ltd.)

P3-118 (WS4b-7) **Microtubule flow in dividing plant cells as visualized by speckle microscopy**
○Takashi Murata[1,3], Shigenori Nonaka[2,3], Mitsuyasu Hasebe[1,3] ([1]Div. of Evol. Biol., Natl. Inst. for Basic Biol., [2]Lab. for Spatiotemporal Regul., Natl. Inst. for Basic Biol., [3]Dept. of Basic Biol., Sch. of Life Sci., Grad. Univ. for Advanced Studies)

P3-119 (WS4b-1) **Improving spinning disc confocal microscopy using two-photon excitation for live imaging of GFP-transgenic animals.**
○Togo Shimozawa[1], Kazuo Yamagata[2], Hiroshi Nakayama[3], Yasuhito Kosugi[3], Yuko Mimori-Kiyosue[1] ([1]Opt. Image Analysis Unit, RIKEN Cent. for Dev. Biol., [2]Dept. of Exp. Gen. Res., Gen. Inf. Res. Cent., Res. Inst. for Micro. Dis., Osaka Univ., [3]Life Sci. HQ., Prod. Mark. Sec., Yokogawa Electric Co.)

P3-120 (WS4b-5) **Biomolecular imaging of *C. elegans* by MALDI-IMS**
○Saira Hameed[1], Yoshishige Kimura[1], Yuki Sugiura[2], Takahiro Hayasaka[1], Naok_Goto Inoue[3], Mitsutoshi Setou[1] ([1]Dept. of Cell Bio. and Anatomy, Hamamatsu Univ. School of Med., Japan, [2]Dept. of Medical Biochemistry, School of Med., Keio Univ., Japan, [3]Graduate School of Human Health Sci., Tokyo Metropolit. Univ., Japan)

P3-121 **Visualization of ERK activity in the intestine of living mice.**
○Rei Mizuno[1,2], Yuji Kamioka[1], Yoshiharu Sakai[2], Michiyuki Matsuda[1] ([1]Dept. of Pathol. and Biol. of Diseases, Grad. Sch. of Med., Kyoto Univ., [2]Dept. of Gastrointestinal Surg., Grad. Sch. of Med., Kyoto Univ.)

P3-122 (WS4b-10)
Fine mapping of autophagy-related proteins during autophagosome formation in *Saccharomyces cerevisiae*
○Kuninori Suzuki[1], Manami Akioka[2], Chika Kondo[2], Yoshinori Ohsumi[2] ([1]Bioimaging Center, Grad. School of Frontier Sciences, Univ. of Tokyo, [2]Frontier Research Center, TITECH)

P3-123 (WS4b-8)
Improved single-molecule speckle microscopy methods which enable to analyze dynamics of various actin structures.
○Sawako Yamashiro[1], Hiroaki Mizuno[1], Matthew B. Smith[2], Gillian L. Ryan[2], Dimitrios Vavylonis[2], Naoki Watanabe[1] ([1]Tohoku University Graduate School of Life Sciences, [2]Dept. of Physics, Lehigh Univ., Bethlehem, PA, USA)

P3-124 (WS4b-2)
Kinetic analysis and live imaging of whole mouse embryo
○Kenichi Nakazato[1], Atsushi Mochizuki[1], Takehiko Ichikawa[2], Shigenori Nonaka[2] ([1]Theoretical Biology Laboratory, RIKEN, [2]NIBB)

P3-125
Imaging mass spectrometry reveals changes of testicular lipids during seminiferous tubule maturation of the giant freshwater prawn *Macrobrachium rosenbergii*
○Tanapan Siangcham[1,2], Piyachat Chansela[1], Takahiro Hayasaka[2], Noritaka Masaki[2], Morakot Sroyraya[1], Saowaros Suwansa-ard[1], Attakorn Engsusophon[1], Prasert Sobhon[1], Mitsutoshi Setou[2] ([1]Dept. of Anat., Fac. of Sci., Mahidol Univ. BKK., [2]Dept. of Cell Biol. and Anat., Hamamatsu Univ. Sch. of Med., Handayama, Higashi-ku, Hamamatsu)

P3-126 (WS4b-4)
Functions and spatiotemporal activation patterns of Rho family GTPases in living new neurons migrating in the postnatal mouse brain.
○Takao Hikita[1], Akihisa Ohno[1], Masato Sawada[1], Haruko Ota[1], Michiyuki Matsuda[2], Kazunobu Sawamoto[1] ([1]Dept. of Dev. and Regene. Biol., Nagoya City Uni. Grad. Sch. of Med. Sci., [2]Lab. of Bioimag. and Cell Signal., Grad. Sch. of Biostudies, Kyoto Univ.)

Evolution / Diversity / Early development / Morphogen

P3-127
Pattern of early gene expression during early marmoset development
○Ayako Sedohara[1], Hideyuki Okano[2], Erika Sasaki[1] ([1]Department of Applied Developmental Biology, Central Institute for Experimental Animals, [2]Department of Physiology, Keio University Graduate School of Medicine)

P3-128
Zebrafish foxo3b gene: expression pattern and functional characterization
○Li-Sung Hsu, Hui-Ming Lee, Ch-Wei Yeh (Inst. of Biochem. Biotechnol. Chung Shan Medical Univ.)

P3-129 (WS5b-10)
Reconsidering the mechanistic view of embryogenesis.
○Naoki Irie, Shigeru Kuratani (RIKEN CDB)

P3-130
Expression pattern and functional analysis of zebrafish growth factor binding protein 10 (zgrb10)gene
○Yi-Hsien Hsieh, Li-Sung Hsu (Inst. Biochem. Biotechnol. Chuna Shan Med. Univ.)

P3-131
Studies on the molecular mechanism coordinating dorsal-ventral and anterior-posterior axes during early *Xenopus* embryogenesis
○Hidenori Konishi, Kimiko Takebayashi-Suzuki, Tatsuo Miyamoto, Tomoko Nagata, Atsushi Suzuki (Inst. for Amphibian Biol., Hiroshima Univ. Grad. Sch. of Sci.)

P3-132 (WS5b-6)
Comparative gene expression analysis of heterochronic development of marsupial cranial neural crest
○Yoshio Wakamatsu[1], Noriko Osumi[1], Kunihiro Suzuki[2] ([1]Div. of Dev. Neurosci., Grad. Sch. of Med., Tohoku Univ., [2]Nihon Univ. Sch. Dentistry at Matsudo)

P3-133
The miRNA-processing enzyme Dicer is required for morphogenesis of the *Ciona intestinalis* embryos.
○Kana Waki, Yuki Miyamoto, Keiko Sasaki, Takehiro_G. Kusakabe (Dept. of Biol., Fac. of Sci., Konan Univ.)

P3-134
Swelling force of the amniotic cavity supports notochordal extension by controlling cell orientation in mouse embryos.
○Yu Imuta[1,2,4], Chuan-Wei Jang[3], Jianbo Wang[5], Anthony Wynshaw-Boris[5], Richard R. Behringer[3], Hiroshi Sasaki[1,2,4] ([1]Graduate school of medicine, Univ. of Osaka, [2]RIKEN CDB, [3]Univ. of Texas MDACC, [4]Univ. of Kumamoto, Institute of Molecular Embryology and Genetics., [5]Dept. of Pediatrics and Medicine, Univ. of California, San Diego.)

P3-135 (WS5b-1)
Maternal mRNA recruitment is required for DNA replication in mouse zygote
○Shin Murai[1], Yusuke Fukuda[2], Yukiko Katagiri[2], Mineto Morita[2], Shigeru Yamashita[1] ([1]Dept of Biochem, Toho Univ, Sch of Med, [2]Dept of Obst and Gyn, Toho Univ, Sch of Med)

P3-136
Molecular mechanisms underlying segmentation boundaries in zebrafish somitogenesis
○Chimwar Wanglar, Shinji Takada, Taijiro Yabe (Div.of Mol. and Dev. Biol., Natl. Inst. of Basic Biol., Sokendai Univ.)

P3-137 **Deficiency of *Porcupine*, an *O*-acyltransferase gene, impairs convergent extension during gastrulation in zebrafish embryos and does not affect equivalently the trafficking of different Wnt proteins**
○Qiuhong Chen, Ritsuko Takada, Shinji Takada (Div.of Mole. Biol., Okazaki Inst. of Integ. BioSc., Natio. Insti. of Nat. Sci.)

P3-138 (WS5b-2) **The forkhead transcription factor FoxB1 mediates body axis coordination and developmental canalization during early *Xenopus* embryogenesis.**
○Kimiko Takebayashi-Suzuki, Hidenori Konishi, Atsushi Suzuki (Institute for Amphibian Biology, Hiroshima University Graduate School of Science)

P3-139 **Connexin gene is required for inner ear development in the zebrafish**
Ju Chang-Chien, Shaun-Yow Li, ○Jiann-Jou Yang (Department of Biomedical Sciences, Chung Shan Medical University)

P3-140 **Withdraw**

P3-141 **Withdraw**

P3-142 **Phylogenic analyses have revealed a unique origin of NAP, a Volvocales unconventional actin, in Chlolophyta.**
○Takako Kato-Minoura[1], Kumiko Karino[1], Nobuyuki Akimoto[1], Norito Yoshiga[1], Seishiro Aoki[2] ([1]Dept. of Biol. Sci., Fclty. of Sci. and Eng., Chuo Univ., [2]Dept. of Gen. Sys. Stud., Grad. Sch. of Arts and Sci., Univ. of Tokyo)

P3-143 **Development of the Naso-Hypophyseal Placode (NHP) in Lamprey with special reference to the evolution of the vertebrate craniofacial structure**
○Fumiaki Sugahara, Shin-ichi Aota, Shigeru Kuratani (Laboratory for Evolutionary Morphology, CDB RIKEN)

P3-144 (WS5b-7) **Development of a new culture method for a precursor to the neural crest and pre-placodal ectoderm**
○Yasuyo Shigetani, Masataka Okabe (Dep. of Anat., Jikei Univ. Sch. of Med.)

P3-145 **Embryonic RNAi screen for genes involved in the mechanisms of stripe-splitting segmentation in the spider**
○Hiroki Oda, Yasuko Akiyama-Oda (JT Biohistory Research Hall)

P3-146 **Analysis of the roles played by a zebrafish class V POU protein, Pou2/Pou5f1, in mesendodermal specification**
○Alam Khan, Yukiko Nakayama, Kyo Yamasu (Division of Life Science, Graduate School of Science and Engineering, Saitama University)

P3-147 (WS5b-9) **Evolution of a tissue-specific silencer underlies divergence in the expression of paralogues**
○Hajime Ogino, Haruki Ochi, Tomoko Tamai, Hiroki Nagano, Akane Kawaguchi, Norihiro Sudou (Grad. Sch. of Biol. Sci., NAIST)

P3-148 **Co-expression of somatic and germ cell markers in the cells of a non-differentiating cellular slime mold**
○Kurato Mohri, Hidekazu Kuwayama, Hideko Urushihara (Fac. Life and Envtl. Sci., Univ. of Tsukuba)

P3-149 **Analysis of the differentially expressed proteins in mouse endometrial epithelial cells during early pregnancy by a proteomic approach**
○Wilasinee Inyawilert[1], Shih-Han Wang[1], Chao-Jung Chen[2], Pin-Chi Tang[1], San-Yuan Huang[1] ([1]Department of Animal Science, National Chung Hsing University, [2]Graduate Institute of Integrated Medicine China Medical University)

P3-150 (WS5b-8) **Conservation and diversity of *Six1* gene enhancers in chordates**
○Shigeru Sato[1], Keiko Ikeda[1], Go Shioi[2], Kazuki Nakao[2], Shinichi Aizawa[2], Hiroshi Yajima[1], Kiyoshi Kawakami[1] ([1]Div. of Biology, Ctr. for Mol. Med., Jichi Med. Univ., [2]LARGE, CDB)

P3-151 **Specification of the hindlimb field in the *Xenopus* tail bud stage embryos.**
○Takaya Suganuma, Atsushi Kuroiwa (Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.)

P3-152 **Cluster structure and developmental expression of Hox genes in the *Halocynthia roretzi*, a phylogentically remote ascidian from *Ciona intestinalis*.**
○Yuka Sekigami[1], Takuya Kobayashi[1], Ai Omi[1], Tetsuro Ikuta[1], Asao Fujiyama[2], Noriyuki Satoh[3], Hidetoshi Saiga[1] ([1]Tokyo Metropolitan University, [2]NIG, [3]OIST)

P3-153 (WS5b-4) **Antagonizing Retinoic Acid and FGF/MAPK pathways control posterior body patterning in the invertebrate chordate Ciona intestinalis.**
○Andrea Pasini[1], Raoul Manenti[2], Ute Rothbacher[1], Patrick Lemaire[3] ([1]IBDML Institut de Biologie du Developpement de Marseille-Luminy, CNRS, [2]Universita di Milano, Milan, Italy, [3]CRBM, Montpellier, France)

P3-154 (WS5b-3)
Regulation of *orthodenticle* and Wnt/Cad signaling pathway in anterior-posterior axis patterning during cricket early embryogenesis
○Taro Nakamura, Taro Mito, Hideyo Ohuchi, Sumihare Noji (Dept. of Life systems, Inst. of Tech. and Sci., The Univ. of Tokushima)

Multicellular construction and Morphogenesis

P3-155
Mutual inhibition between SHH and BMP signaling via activation of PKA generates reciprocal gradients of Gli3 activator/repressor and regionally specifies inner ear along the dorsoventral axis
○Sho Ohta, Gary C Schoenwolf (Univ. of Utah)

P3-156
CASK function in the inner ear
○Tomoko Kita, Akira Honda, Raj Ladher (Laboratory for Sensory Development, RIKEN Center for Developmental Biology, Japan)

P3-157 (WS6b-8)
Visualizing morphogen diffusion dynamics during lung branching morphogenesis in vitro.
○Takashi Miura (Kyoto University Graduate School of Medicine)

P3-158
Fibroblast Growth Factor Receptor 1 (FGFR1) controls intraflagellar transport in inner ear hair cell kinocilia
○Akira Honda, Tomoko Kita, Yuko Muta, Kazuyo Misaki, Shigenobu Yonemura, Raj Ladher (RIKEN CDB)

P3-159
Basic modes of deformation of an epithelial tube under different mechanical conditions
○Sangwoo Lee[1], Yoshihiro Morishita[2] ([1]Kyushu Univ., [2]RIKEN, CDB)

P3-160 (WS6b-1)
Analysis of pattern formation in multicellular cyanobacteria by CA model
○Jun-ichi Ishihara[1,2], Masashi Tachikawa[2], Hideo Iwasaki[1], Atsushi Mochizuki[2] ([1]Dept. of Electr. Engin. and Biosci., Waseda Univ., [2]Theoretical Biology Laboratory, RIKEN)

P3-161
Biochemical and functional analyses of rdd, novel secretory proteins, in *Xenopus* embryo
○Jong-chan Lim[1], Sayaka Kurihara[1], Rie Tamaki[1], Yutaka Mashima[1], Mitsugu Maéno[2] ([1]Grad. Sch. of Sci., Niigata Univ., [2]Dept. of Biol., Fac. of Sci., Niigata Univ.)

P3-162
Exploring Molecular Functions of Atypical Cadherins Dachsous and Fat that Affect Morphogenesis at Multiple Levels from Cell to Organ
○Masaki Arata[1], Yutaro Nishino[1], Kousuke Mouri[1], Toshiyuki Harumoto[1], Yuzo Watanabe[1], Motoki Saito[1], Tadashi Uemura[1,2] ([1]Graduate School of Biostudies, Kyoto University, Japan, [2]CREST, JST)

P3-163 (WS6b-6)
Live cell imaging of collective migration in 3D morphogenesis of epithelial cells
○Misako Imai, Takeomi Mizutani, Kazushige Kawabata, Hisashi Haga (Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ.)

P3-164
Angiomotin regulates cell proliferation cooperatively with Expanded and Merlin during leg regeneration in *Gryllus bimaculatus*
○Tetsuya Bando, Taro Mito, Hideyo Ohuchi, Sumihare Noji (Dept. of Life Systems, Inst. of Tech. Sci., Univ. of Tokushima)

P3-165
Hox gene function and possible crosstalk with Dlx genes in craniofacial morphogenesis
○Taro Kitazawa, Kou Fujisawa, Yukiko Kurihara, Yuichiro Arima, Yumiko Kawamura, Takahiro Sato, Yasunobu Uchijima, Hiroki Kurihara (Dept. Physiol. Chem. & Metb., Grad. Sc. Med., Univ. of Tokyo)

P3-166 (WS6b-7)
Dynamic calcium signals in the node of mouse embryo during the time course of left-right axis formation
○Daisuke Takao[1], Rieko Kanda[1], Tomomi Nemoto[2], Hiroko Kajiura-Kobayashi[1], Takehiko Ichikawa[1], Shigenori Nonaka[1] ([1]Lab. for Spatiotemporal Regulations, NIBB, [2]Lab. of Mol. and Cell. Biophys., RIES, Hokkaido Univ.)

P3-167
A new model system to study eye morphogenesis in the chick embryo
○Yasuo Ishii, Tiantian Yang, Sadao Yasugi (Fac. of Life Sci., Kyoto Sangyo Univ.)

P3-168
The cell condensation and the insulin stimulation distinctively affect the development of the mammalian cartilage.
○Mariko Ojima, Yuichi Aono, Yohei Hirai (Div. of Development, Inst. of Sci, Univ. of Hyogo)

P3-169 (WS6b-3)
Mathematical analysis for vascular and spot patterns by auxin and PIN dynamics in plant development
○Yoshinori Hayakawa[1,2], Atsushi Mochizuki[1,2] ([1]Dept Comput. Intelligence & Sys. Science, Tokyo Institute of Technology, [2]Theoretical Biology Laboratory, RIKEN)

P3-170 **Developmental study for difference in the number of digits in chicken limbs**
○Naoki Nomura, Minoru Omi, Hitoshi Yokoyama, Koji Tamura (Dept. of Dev. Biol. and Neurosci., Grad. Sch. of Life Sci., Tohoku Univ.)

P3-171 **Functional analyses of *AP-2β* and *AP-2α* in limb skeletal morphogenesis**
○Ryohei Seki[1], Takayuki Suzuki[2], Hitoshi Yokoyama[1], Koji Tamura[1] ([1]Dept. of Dev. Biol. and Neurosci., Grad. Sch. of Life Sci., Tohoku Univ., [2]Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.)

P3-172 (WS6b-2) **The relation of a periodic pattern formation to iterative protrusion structures in *Neobeckia* leaves.**
○Akiko Nakamasu[1], Nobuhiko_J Suematsu[1,2], Seisuke Kimura[3] ([1]MIMS, Meiji Univ., [2]Graduate School of Advanced Mathematical Sciences, Meiji University, [3]Department of Bioresource and Environmental Sciences, Kyoto Sangyo University)

P3-173 **Transcriptional regulation of Drosophila insulin-like peptides by nutrition**
○Yuka Nishimori, Naoki Okamoto, Takashi Nishimura (Lab. of Growth Control Signaling, RIKEN CDB)

P3-174 **Vascular formation requires crosstalks between endothelial cells and primitive erythroblasts at the early stage of their development.**
○Atsuo Iida, Anna Tomosawa, Kazuya Sakaguchi, Daigo Nishimura, Atsuko Sehara-Fujisawa (Inst. Front. Med. Sci., Kyoto Univ.)

P3-175 (WS6b-5) **Regulation of the systemic growth by insulin-like peptides during Drosophila development**
Naoki Okamoto, Tomoka Murai, ○Takashi Nishimura (Lab. of Growth Control Signaling, RIKEN CDB)

P3-176 **Functional analysis of a novel PCP regulator Jitterbug**
Tomonori Ayukawa[1], Takehiko Sasaki[2], ○Masakazu Yamazaki[1] ([1]Akita Univ. Sch. of Med, [2]Dept. of Pathol. and Immuno., Akita Univ. Sch. of Med)

P3-177 **Neural Tube Defects by NUAK1 and NUAK2 Double Mutation**
○Tomomi Ohmura[1,2], Go Shioi[1], Mariko Hirano[3], Shinichi Aizawa[1] ([1]RIKEN Kobe, [2]Div. of Dev Neurobiol., Grad. Sch. of Med., Kobe Univ, [3]Dept. of Surg. Path., Harvard Med. Sch.)

P3-178 (WS6b-4) **Building up the spiculous skeleton: the collaborative work of multiple types of cells in sponges**
Yudai J Nakata[1], Kazushi Arima[1], Sohei Nakayama[1,2], Kiyokazu Agata[1], ○Noriko Funayama[1] ([1]Dept. of Biophysics, Graduate school of Science, Kyoto Univ., [2]Division of Multicellular organization, National Institute of Genetics)

P3-179 **Structure and formation of the serrated tooth margin of sharks.**
○Eri Ushimura[1], Masatoshi Goto[2], Shinji Shimoda[3], Ichiro Sasagawa[4], Kohei Hatta[1] ([1]U of Hyogo, [2]Tsurumi U, Junior College, [3]Tsurumi U, [4]Nippon Dental U)

P3-180 **Quantitative Measurement of Cellular Dynamics of Drosophila Tracheal Invagination**
○Takuya Maeda[1], Takefumi Kondo[1], Andreas Altenburger[1], Mayuko Nishimura[1], Shuichi Onami[2], Shigeo Hayashi[1] ([1]Morph. Signal., CDB, RIKEN, [2]Dev. Dyn., QBiC, RIKEN)

P3-181 (WS6b-9) **Quantitative geometrical analysis of tissue deformation during vertebrate limb development**
○Yoshihiro Morishita[1], Takayuki Suzuki[2] ([1]RIKEN CDB, [2]Graduate school of science, Nagoya University)

P3-182 **Mechanism for determination of pupation timing by transcription factor FTZ-F1 and the effects of nutritional condition in Drosophila**
Harika Nishida[1], Kazutaka Akagi[2], ○Hitoshi Ueda[1,2] ([1]Fac. of Sci., Okayama Univ., [2]Grad. Sch. of Nat. Sci. and Tec, Okayama Univ.)

異分野供宴！若手ジョイントセッション: Joint Young Scientist Sessions (in Japanese)

異分野供宴！若手ジョイントセッション 1 (Joint Young Scientist Session 1)

May 28 (Mon) 15:00-18:40 Room 1 (Main Hall)
Organizers : Yasushi Hiromi (Natl. Inst. of Genetics), Toshiki Itoh (Kobe Univ.)

15:00 **JYSS1-1** (P1-001)
D Secondary Neurulation: The tail-specific neural formation is supported by a novel type of neural stem cells
○Teruaki Kawachi, Eisuke Shimokita, Yoshiko Takahashi (Graduate School of Biological Sciences, Nara Institute of Science and Technology) P.293

15:10 **JYSS1-2** (P1-003)
C Pregnenolone is required for the centrosomal localization of sSgo1 to maintain the centriole engagement.
○Mayumi Hamasaki[1,2], Shigeru Matsumura[1], Fumiko Toyoshima[1] ([1]Inst. for Virus Res., Kyoto Univ., [2]Grad. Sch. Biostudies, Kyoto Univ.) P.293

15:20 **JYSS1-3** (P1-006)
D Molecular mechanism of the production of neuronal diversity in the Drosophila visual center
○Takumi Suzuki[1], Masako Kaido[1], Rie Takayama[1], Makoto Sato[1,2] ([1]Brain/Liver Interface Medicine Research Center, Kanazawa Univ., [2]PRESTO) P.293

15:30 **JYSS1-4** (P1-009)
C Identification of novel maternal neurogenic genes that are potential components of Notch signaling in Drosophila
○Kenjiroo Matsumoto[1], Naoki Aoyama[1], Ryo Hatori[1], Takuma Gushiken[1], Akira Ishio[1], Takahiro Seto[1], Yu Atsumi[1], Tomoko Yamakawa[1], Takeshi Sasamura[1], Kenji Matsuno[1,2] ([1]Dept.of Biol. Sci.&Technol., Tokyo Univ. of Sci., [2]Res. Inst. Sci./Tec., Tokyo Univ of Science) P.293

15:40 **JYSS1-5** (P1-012)
D Expression timing of *Gdf11* and hindlimb position
○Yoshiyuki Matsubara, Atsushi Kuroiwa, Takayuki Suzuki (Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.) P.294

15:50 **JYSS1-6** (P1-015)
C Augmin plays a dominant role in phragmoplast microtubule generation.
○Tomohiro Miki, Yuki Nakaoka, Gohta Goshima (Div. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ.) P.294

16:00 **JYSS1-7** (P1-018)
D Homeodomain-interacting protein kinase 2 promotes Wnt/β-catenin signaling thorough stabilization of Dishevelled in vertebrate posterior development.
○Nobuyuki Shimimizu, Tohru Ishitani (Div. of Cell Reg. Sys., M.I.B., Univ. of Kyushu.) P.294

16:10 **JYSS1-8** (P1-021)
Essential role of p130Cas in cutaneous mechanotransduction
○Mayumi Takeya[1], Keiichi Haketa[1], Shinya Kasamatsu[1], Akira Hachiya[1], Yuushi Okumura[2], Takeshi Nikawa[2], Takashi Kitahara[1] ([1]Biol. Sci. Lab., Kao Corp., [2]Inst of Health Biosci., Univ. of Tokushima. Grad. Schl.) P.294

16:20 **JYSS1-9** (P1-024)
D Comparative analyses of expression patterns of genes involved in early development between Xenopus and Cynops.
○Kenta Ito[1,2], Chikara Hashimoto[1,2] ([1]Dept. of Biol. Sci., Sch. of Sci, Osaka Univ., [2]JT Biohistory Research Hall) P.295

16:30 **JYSS1-10** (P1-027)
C The roles of the trans-Golgi network and RAB11 family on endocytosis of receptor kinase FLS2 in plant cells
○Seung-won Choi[1], Takayuki Tamaki[1], Tomohiro Uemura[1], Takashi Ueda[1], Akihiko Nakano[1,2] ([1]Dept. of Biol. Sci., Grad. Sch. of Sci., Univ of Tokyo, [2]Mol. Membrane Biol. Lab, RIKEN Advanced Science Institute) P.295

16:40 **JYSS1-11** (P1-030)
D Promoter-associated noncoding RNAs mediate oocyte-activation-induced CpG and non-CpG demethylation in the early mouse embryo
○Nobuhiko Hamazaki, Takuya Imamura (gCOE., Div. of Biol. Sci., Grad. Sci., Univ. of Kyoto) P.295

16:50 **JYSS1-12** (P1-033)
D Novel motif of FoxD3 to get involved in neural crest gene regulatory network.
○Hiroki Ono[1], Jr-Kai Yu[2,3], Hiroshi Wada[1] ([1]Graduate School of Life and Environmental Sciences, Univ. of Tsukuba, [2]Academia Sinica, [3]National Taiwan University) P.295

17:00 **JYSS1-13** (P1-036)
Cereblon is a component of aggresome
○Satoru Wakabayashi[1], Haruka Yamada[1], Toru Asahi[1,2], Naoya Sawamura[1,2] ([1]Faculty of Science and Engineering., Waseda Univ., [2]Consolidated Research Institute for Advanced Science and Medical Care (ASMeW), Waseda Univ.) P.296

17:10 **JYSS1-14** (P1-039) **D Medaka fused 4 mutant, which exhibits a fusion of vertebrae, encodes *her7* gene**
○Shiho Tomizawa, Keiji Inohaya, Tohru Imatomi, Akira Kudo (Dep. of Biol. Info., Tokyo Tech) P.296

17:20 **JYSS1-15** (P1-042) **P7BP1 E3 ubiquitin ligase controls the quality of PTS2 receptor, Pex7p**
○Yasuhiro Miyauchi[1], Kosuke Kuroda[2], Satoru Mukai[1], Yukio Fujiki[1,2] ([1]Dept. of Biol., Fac. of Sci.,Kyushu Univ., [2]Grad.Sch. of Sys. Life Sci., Kyushu Univ.) P.296

17:30 **JYSS1-16** (P1-045) **The pronuclear formation from sperm nuclei in the cell-free system from mouse oocytes**
○Fukashi Inoue[1], Kaori Yamada[1], Tadashi Yamamoto[1], Takeo Kishimoto[2], Miho Ohsugi[1] ([1]Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo, [2]Dep. of Biol. Inform., Grad. Sch. of Biosci. and Biotech., Tokyo Tech) P.296

17:40 **JYSS1-17** (P1-048) **C The protective influence of syntaxin3 from the oxidative stress in HaCaT keratinocytes**
○Takafumi Miyazaki, Yohei Hirai (Dep.Biosience., Grad. Sch. Sci. Technol., Kwansei. Gakuin Univ.) P.297

17:50 **JYSS1-18** (P1-051) **Targeted disruption of EGFP transgene in *Xenopus laevis* using customized transcription activator-like effector nucleases (TALENs)**
○Ken-ichi T. Suzuki[1], Keiko Kashiwagi[2], Tetsushi Sakuma[2], Yukiko Isoyama[2], Hiroshi Ochiai[3], Akihiko Kashiwagi[2], Takashi Yamamoto[2] ([1]CMES, Ehime Univ. and Hiroshima Univ., [2]Graduate School of Science, Hiroshima University, [3]Research Institute for Radiation Biology and Medicine, Hiroshima University) P.297

18:00 **JYSS1-19** (P1-054) **C A Novel Microtubule Binding Protein, MARKAP, plays essential roles for the Golgi-Ribbon Formation by Regulating Golgi-Nucleated Microtubules**
○Yoshinori Satoh[1], Kenji Hayashi[2], Yoshiko Amano[2], Takahisa Maki[3], Ikuko Hayashi[3], Shigeo Ohno[1], Atsushi Suzuki[2] ([1]Dep. Mol. Cel. Biol., Grad. Sch. of Med.,Yokohama City Univ., [2]Div. Med. Biosci.Dep.Mol.Cel.,Grad. Sch.of Med.,Yokohama City University., [3]Supramol. Biol, Inter. Grad. Sch. of Arts and Sci., Yokohama City University) P.297

18:10 **JYSS1-20** (P1-057) **D Transgenic zebrafish reveals a novel *cis*-acting element responsible for the spatio-temporally regulated translational activation of cyclin B1 mRNA in oocytes.**
○Kyota Yasuda[1], Tomoya Kotani[2], Masakane Yamashita[2] ([1]Grad. Sch. of Life Sci., Hokkaido Univ., [2]Dept. of Biol. Sci., Fac. of Sci., Hokkaido Univ.) P.297

18:20 **JYSS1-21** (P1-060) **C Dynamin affects cytokinesis in Dictyostelium cells**
○A.Y.K. MD. MASUD RANA[1], Shinya Miyagishima[2], Shigehiko Yumura[1] ([1]Department of Functional Molecular Biology, Graduate School of Medicine, Yamaguchi University, [2]Symbiosis and Cell Evolution Lab, Center for Frontier Research, National Institute of Genetics, 1111 Yata, Mishima, Shizuoka 411-8540) P.298

18:30 **JYSS1-22** (P1-063) **D Microtubule interacting protein Dogi is required for neurite branching and elongation in *Drosophila* olfactory projection neurons**
○Chisako Sakuma[1], Vladimir I Gelfand[5], Liqun Luo[4], Masayuki Miura[1,3], Takahiro Chihara[1,2,4] ([1]Dept. Genetics, Grad. Sch. Pharm. Sci, Univ. Tokyo, [2]PRESTO, JST, Japan, [3]CREST, JST, Japan, [4]HHMI, Dept. Biol., Stanford Univ. USA, [5]Dept. Cell and Mol. Biol., Northwestern Univ. Feinberg Sch. Med., USA) P.298

異分野供宴！若手ジョイントセッション 2 (Joint Young Scientist Session 2)

May 28 (Mon) 15:00-18:40 Room 2 (International Conference Room)
Organizers : Ichiro Masai (OIST), Atsushi Suzuki (Yokohama City Univ.)

15:00 **JYSS2-1** (P1-066) **D Extrinsic factor controls blastema proliferation and survival during fin fold regeneration**
○Tomoya Hasegawa, Teruhiro Nakajima, Takashi Ishida, Atsushi Kawakami (Dept.Biol.Info.,Tokyo Inst.Tech) P.298

15:10 **JYSS2-2** (P1-069) **D Live-imaging analysis of SCAT3 transgenic mice revealed the contribution of apoptosis and caspase-activation to the smooth progression of mouse cranial neural tube closure**
○Naomi Shinotsuka[1], Yoshifumi Yamaguchi[1,2], Keiko Nonomura[1], Ayako Yoshida[1], Kiwamu Takemoto[3,4], Keisuke Kuida[5], Hiroki Yoshida[6], Masayuki Miura[1,2] ([1]Dep. of Genetics, Grad. of Pharm. Sci., Univ. of Tokyo, [2]CREST, [3]Grad. Sch. Med., Yokohama City Univ., [4]PREST, [5]Millennium, The Takeda Oncology Company, [6]Grad. Sch. Med., Saga Univ.) P.298

15:20 **JYSS2-3** (P1-072) **C Rab33a mediates anterograde vesicular transport for membrane exocytosis and axon outgrowth**
○Hitomi Nakazawa[1], Tadayuki Sada[1], Michinori Toriyama[1], Kenji Tago[1], Tadao Sugiura[2], Mitsunori Fukuda[3], Naoyuki Inagaki[1] ([1]Grad. Sch. of Biol. Sci., Nara Inst. of Sci. and Technol., [2]Grad. Sch. of Inform. Sci., Nara Inst. of Sci. and Technol., [3]Grad. Sch. of Life Sci., Tohoku Univ.) P.299

15:30 **JYSS2-4** (P1-075)
C Exophilin7 promotes fusion of undocked granule in pancreatic β cells
○Ray Ishizaki, Hao Wang, Jun Xu, Kazuo Kasai, Hiroshi Gomi, Tetsuro Izumi (Dept. of Molecular Medicine, IMCR, Gunma Univ.) P.299

15:40 **JYSS2-5** (P1-078)
C The impact of extracellular syntaxin4 on HaCaT keratinocyte behavior
○Nanako Kadono[1], Yoji Okugawa[1], Kiichiro Nakajima[2], Yohei Hirai[1] ([1]Dep. Bioscience., Grad. Sch. Sci. Technol. Kwansei Gakuin Univ., [2]KNC Laboratories, KNC bioresearch center) P.299

15:50 **JYSS2-6** (P1-080)
D A Myelin Gene Regulatory Transcription Factor Regulates Cell Differentiation
○Hiroshi Senoo[1], Tsuyoshi Araki[2], Masashi Fukuzawa[1], Jeffrey G. Williams[2] ([1]Department of Biology, Faculty of Agriculture and Life Science, University of Hirosaki, [2]College of Life Sciences, Welcome Trust Building, University of Dundee) P.299

16:00 **JYSS2-7** (P1-083)
Correction error of kinetochore-microtubule attachment induces mitotic centrosome disintegration
○Kenji Iemura, Tadashi Yamamoto, Miho Ohsugi (Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo) P.300

16:10 **JYSS2-8** (P1-086)
D Spatiotemporally controlled cell-cycle transitions coupled to anterior-posterior axis formation in a chordate.
○Yosuke Ogura, Yasunori Sasakura (Shimoda Marine Res. Cen., Univ. of Tsukuba) P.300

16:20 **JYSS2-9** (P1-089)
D Mathematical analysis of growth control mechanisms in the Drosophila wing disc
○Ken-ichi Hironaka[1], Yoshihiro Morishita[2] ([1]Math. Bio. Lab., Grad. Sch. of Sys. Life Sci., Kyushu Univ., [2]Lab. for Dev. Morphogeometry, RIKEN CDB) P.300

16:30 **JYSS2-10** (P1-092)
D Establishment of a drug-inducible gene recombination system in the mouse germ cell lineage and its application to an analysis of the function of *Blimp1*
○Takayuki Hirota[1,2], Hiroshi Ohta[1,2], Mayo Shigeta[3], Hitoshi Niwa[3], Mitinori Saitou[1,2] ([1]Grad. Sch. Med., Kyoto Univ., [2]ERATO, JST, [3]RIKEN CDB) P.300

16:40 **JYSS2-11** (P1-095)
C Chemical screening of protein kinase affected mitochondrial ATP synthesis.
○Kanako Sugawara[1,2], Makoto Fujikawa[1,3], Masasuke Yoshida[1,2] ([1]JST, ICORP, ATP-synthesis Regulation Project, [2]Faculty of Life Science, Kyoto Sangyo University, [3]Department of Biochemistry, Faculty of Pharmaceutical Sciences, Tokyo University of Science) P.301

16:50 **JYSS2-12** (P1-098)
C Post-transcriptional regulation of gene expression by Khd1, Ccr4, and Pbp1.
○Yuichi Kimura, Kenji Irie (Grad. Sch. of Comprehensive Human Sci., Univ. of Tsukuba) P.301

17:00 **JYSS2-13** (P1-101)
D The LIM-homeodomain factors regulate early eye development in the chick
○Junji Inoue[1], Takumi Kawaue[1], Satoshi Ishihara[1], Yuuki Ueda[1], Sumihare Noji[1], Hideyo Ohuchi[1,2] ([1]Department of Life Systems, Institute of Technology and Science, The University of Tokushima, [2]Department of Cytology and Histology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, 2-5-1 Shikata-cho, Okayama 700-8558, Japan) P.301

17:10 **JYSS2-14** (P1-104)
D Shh-Fgf18 regulation is disrupted in tooth root development of Ptc mes mutants
○Masato Ota, Shigeru Okuhara, Sachiko Iseki (Unit. of Mol. Craniofacial Emb., Tokyo Med. Dent. Univ.) P.301

17:20 **JYSS2-15** (P1-107)
NDR kinase is required for ciliogenesis through the phosphorylation of Rabin8
○Yuta Homma[1], Shuhei Chiba[1], Yuta Amagai[1], Shinichiro Kanno[2], Akira Yasui[2], Mitsunori Fukuda[3], Kensaku Mizuno[1] ([1]Dept. Biomol. Sci., Grad. Sch. Life Sci., Tohoku Univ., [2]IDAC, Tohoku Univ., [3]Dept. Dev. Biol. & Neurosci., Grad. Sch. Life Sci., Tohoku Univ.) P.302

17:30 **JYSS2-16** (P1-110)
D Metastatic behavior of human cancer cells in chicken embryos: site-specific exit from a blood vessel and attraction to peripheral ganglia
○Taiji Yasue, Yoshiko Takahashi (NARA Institute of Science and Technology) P.302

17:40 **JYSS2-17** (P1-113)
C Vinexin alters properties of focal adhesion depending on extracellular matrix stiffness
○Takafumi Ichikawa[1], Hiroshi Yamashita[1], Yasuhisa Kimura[1], Ichiro Harada[3], Kazumitsu Ueda[1,2], Noriyuki Kioka[1] ([1]Div. of Appl. Life Sci., Grad. Sch. of Agri., Kyoto Univ., [2]iCeMS, Kyoto Univ., [3]Dep. Biomol. Eng., Grad. Sch. of Biosci and Biotech., Tokyo Inst. of Tech.) P.302

17:50 **JYSS2-18** (P1-116)
D Analysis of cell movement in the multicellular tissue of *Dictyostelium discoideum* by 4D live-imaging.
○Toru Uchikawa[1], Masato Yasui[1], Masahiro Ueda[1], Kei Inouye[2] ([1]Graduate School of Frontier Biosciences, Osaka Univ., [2]Department of Botany, Graduate School of Science, Kyoto Univ.) P.302

18:00 **JYSS2-19** (P1-119) **D Analysis of Notch signaling pathway in the water flea, Daphnia magna.**
○Masaki Uehara, Saori Ohmiawa, Shinichi Tokishita, Yasuhiro Shiga (Sch. of Life Sci., Tokyo Univ. of Pharm. & Life Sci.) P.303

18:10 **JYSS2-20** (P1-122) **C The functional and morphological control of B16 melanoma cells by syntaxin3**
○Michiko Shono, Ryosuke Yoshioka, Yohei Hirai (Dept.Life Sci., Univ. of Kwanseigakuin) P.303

18:20 **JYSS2-21** (P1-125) **D Melanosome transfer during skin pigmentation: a novel method to study intercellular signaling between melanocytes and keratinocytes *in vivo***
○Hidetaka Murai, Ryosuke Tadokoro, Ken-ichiro Sakai, Yoshiko Takahashi (Nara Institute of Science and Technology) P.303

18:30 **JYSS2-22** (P1-128) **D Advanced methods for the construction, evaluation and application of TALENs**
○Tetsushi Sakuma[1,2], Sayaka Hosoi[1], Hiroshi Ochiai[2,3], Tatsuya Miyamoto[3], Shinya Matsuura[3], Naoaki Sakamoto[3], Sumihare Noji[4], Takashi Yamamoto[1] ([1]Dept. of Math. and Life Sci., Grad. Sch. of Sci., Hiroshima Univ., [2]JSPS Research Fellow, [3]Dept. of Rad. Biol., Res. Inst. for Rad. Biol. and Med., Hiroshima Univ., [4]Dept. of Life Systems, Inst. of Tech. and Sci., The Univ. of Tokushima Grad. Sch.) P.303

異分野供宴！若手ジョイントセッション 3 (Joint Young Scientist Session 3)

May 28 (Mon) 15:00-18:10 Room 3 (401+402)
Organizers : Shinichi Nakagawa (RIKEN, ASI), Miho Ohsugi (The Univ. of Tokyo)

15:00 **JYSS3-1** (P1-131) **C Live-cell imaging of sperm cell delivery during double fertilization in *Arabidopsis thaliana***
○Yuki Hamamura[1], Tetsuya Higashiyama[2,3] ([1]Live-imaging center, Nagoya Univ., [2]Divi. Sci., Nagoya Univ., [3]JST, ERATO) P.304

15:10 **JYSS3-2** (P1-134) **C Role of Adf1 in the process of formation and contraction of the contractile ring in fission yeast cells.**
○Ei-ichi Uyeda, Jun Kashiwazaki, Issei Mabuchi (Dept. of Life Sci., Faclt. of Sci., Gakushuin Univ.) P.304

15:20 **JYSS3-3** (P1-137) **C Temperature dependency of Ca^{2+} dynamics in a migrant cell.**
○Hideki Itoh[1], Madoka Suzuki[2,3], Kotaro Oyama[1], Shin'ichi Ishiwata[1,2,3] ([1]Dept. of Pure and Appl. Phys., Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., [2]WABIOS, Waseda Univ., [3]Org. Univ. Res. Init., Waseda Univ.) P.304

15:30 **JYSS3-4** (P1-140) **C Evolution of ER stress response -UPR in Ciona intestinalis-**
○Shogo Yamaguchi[1], Ryotarou Senoo[1], Daisuke Mimaki[1], Tokiro Ishikawa[1], Yutaka Satou[2], Kazutoshi Mori[1] ([1]Department of Biophysics, Graduate School of Science, Kyoto University, [2]Department of Zoology, Graduate School of Science, Kyoto University) P.304

15:40 **JYSS3-5** (P1-143) **D The active stem cell specific expression of sponge Musashi homolog *EflMsiA* suggests its involvement in maintaining the stem cell state**
○Kazuko Okamoto[1], Mikiko Nakatsukasa[2], Alexandre Alie[1], Kiyokazu Agata[1], Noriko Funayama[1] ([1]Dept. Biophys. Grad. Sch. Sci., Kyoto univ., [2]CDB, RIKEN) P.305

15:50 **JYSS3-6** (P1-146) **D Raldh2, an enzyme involved in retinoic acid (RA) biosynthesis, is essential for osteogenesis in the medaka vertebral column.**
○Mai Tasaki, Keiji Inohaya, Satoshi Ohisa, Akira Kudo (Dept. Biol. Info., Tokyo. Inst. Tech.) P.305

16:00 **JYSS3-7** (P1-149) **Modelling wave propagation dynamics in MDCK wound healing assay.**
○Yusuke Sawabu[1], Masaharu Nagayama[2], Takashi Miura[3], Hiroyuki Kitahata[4] ([1]Div. of Math. and Phys. Sci., Inst. of Nat. Sci. and Tech., Kanazawa Univ., [2]Fac. of Math. and Phys., Inst. of Sci. and Eng., Kanazawa Univ., [3]Dept. of Anat. and Dev. Bio., Kyoto Univ. Grad. Sch. of Med., [4]Dept. of Phys., Chiba Univ., Grad. Sch. of Sci.) P.305

JYSS3-8 **Withdraw**

16:10 **JYSS3-9** (P1-155) **D Efficient production of knockout crickets using zinc-finger nucleases**
○Takahito Watanabe[1], Hiroshi Ochiai[2], Tetsushi Sakuma[2], Taro Nakamura[1], Tetsuya Bando[1], Taro Mito[1], Hideyo Ohuchi[1], Takashi Yamamoto[2], Sumihare Noji[1] ([1]Dept. of Life Systems, Inst. of Tec. and Sci., Univ. of Tokushima, [2]Dept. of Math. and Life Sci., Grad. School of Sci., Hiroshima Univ.) P.306

16:20 **JYSS3-10** (P1-158) **C Decrease of the nuclear pore complex density during human erythroid terminal differentiation**
○Yasuhiro Hirano, Yasushi Hiraoka (Grad. Sch. of Front. Biosci., Osaka Univ.) P.306

16:30 **JYSS3-11** (P1-161)
D Cohesin Controls Planar Cell Polarity by Regulating the Level of the Seven-Pass Transmembrane Cadherin Flamingo
○Kousuke Mouri[1], Shin-ya Horiuchi[1], Tadashi Uemura[1,2] ([1]Kyoto Univ., [2]CREST, JST) P.306

16:40 **JYSS3-12** (P1-164)
D Characterization of the physical force generated by the leading edge mesoderm during Xenopus gastrulation
○Yusuke Hara[1,2,3], Kazuaki Nagayama[4], Takeo Matsumoto[4], Makoto Suzuki[1,2], Naoto Ueno[1,2] ([1]Dept. of Basic Biol., School of Life Sci., SOKENDAI, [2]Div. of Morphogenesis, NIBB, [3]JSPS Research Fellow, [4]Biomechanics Lab., NITECH) P.306

16:50 **JYSS3-13** (P1-167)
D Stimulation of ectopic cell differentiation and organ formation by the histone demethylase, Jmjd3
○Norihiro Sudou, Akane Kawaguchi, Haruki Ochi, Hajime Ogino (NAIST) P.307

17:00 **JYSS3-14** (P1-169)
D The Gbx2 homeodomain protein functions as a transcriptional repressor in zebrafish embryos and embryonal carcinoma cells.
○Yukiko Nakayama, Kimihito Yoshikawa, Zhe Wang, Maiko Kanai, Kyo Yamasu (Div. Life Sci., Grad. School Sci. Eng., Saitama Univ.) P.307

17:10 **JYSS3-15** (P1-172)
D The role of cilia in hedgehog signaling in fish
○Takayoshi Yamamoto[1], Keiichiro Kamura[1,2], Tatsuya Tsukahara[1], Atsuko Shimada[1], Sumito Koshida[1], Hiroyuki Takeda[1] ([1]Dept. of Biol. Scis., Grad. Sch. of Sci., Univ. of Tokyo, [2]IMEG, Univ. of Kumamoto) P.307

17:20 **JYSS3-16** (P1-175)
DEAD-box protein Ddx46 is required for the maintenance of hematopoietic stem cells in zebrafish definitive hematopoiesis
○Ryo Hirabayashi, Shunya Hozumi, Yutaka Kikuchi (Dep. of Bio. Sci., Grad. Sch. of Sci., Hiroshima Univ., Japan) P.307

17:30 **JYSS3-17** (P1-178)
C Endoplasmic reticulum (ER) calcium depletion is a cause of physiological ER stress in differentiating myoblast cells
○Keiko Nakanishi[1], Kisa Kakiguchi[2], Shigenobu Yonemura[2], Akihiko Nakano[1,3], Nobuhiro Morishima[1] ([1]Mol. Membrane Biol. Lab., RIKEN ASI, [2]Electron Microscope Lab., RIKEN CDB, [3]Grad. School of Science, The Univ. of Tokyo) P.308

17:40 **JYSS3-18** (P1-181)
C Cdc42 promotes sprouting angiogenesis through formin-like 3-mediated formation of endothelial filopodia in zebrafish
○Yuki Wakayama[1], Shigetomo Fukuhara[1], Koji Ando[1,2], Michiyuki Matsuda[3], Naoki Mochizuki[1] ([1]Dept. of Cell Biol., Natl. Cereb. and Cardiovasc. Ctr. Res. Inst., [2]Dept. of Cell. Signal., Grad. Sch. Pharm. Sci., Tohoku Univ., [3]Dept. of Pathol. and Biol. of Dis., Grad. Sch. Med., Kyoto Univ.) P.308

17:50 **JYSS3-19** (P1-184)
D The role of Robo1 in the morphological development of cortical upper-layer pyramidal neurons.
○Yuko Gonda[1], William D. Andrews[2], Hidenori Tabata[3], Takashi Namba[4], John G. Parnavelas[2], Kazunori Nakajima[3], Shinichi Kohsaka[5], Shigeo Uchino[5], Carina Hanashima[1] ([1]Laboratory for Neocortical Development, RIKEN Center for Developmental Biology, [2]Dept. of Cell and Dev. Biol., UCL, London, [3]Dept. of Anat., Keio Univ. Sch. of Med., Tokyo, [4]Dept. of Cell Pharma., Nagoya Univ. Grad. Sch. of Med., Nagoya, [5]Dept. of Neurochem., Natl. Inst. Neurosci.,Tokyo) P.308

18:00 **JYSS3-20** (P1-187)
D Functional analysis of epigenetic regulation during embryogenesis of the cricket, *Gryllus bimaculatus*
○Yuji Matsuoka (Dept. of Life System, Inst. of Tech. and Sci., Univ. of Tokushima) P.308

18:10 **JYSS3-21** (P1-190)
C Rab cascade for exocytosis plays a key role in the initiation of spore formation in fission yeast
○Kazuki Imada, Erika Teraguchi, Taro Nakamura (Dept. Biol., Grad. Sch. of Science, Osaka City Univ.) P.309

有志セミナー

有志セミナー 1　Cell to Body Dynamics Lab presents いのちと健康を考える細胞生物学・発生生物学の新展開～男女共同参画の理系分野構築に向けて～

May 30 (Wed)　12:00-12:50　Room 4 (403)

司会：寺崎 朝子（JSCB男女共同参画推進・若手研究者育成委員・千葉大）
倉田 智子（基礎生物学研究所・広報・科学コミュニケーション）
藤田 恵理（東大・情報理工・特任研究員）

Cell to Body Dynamics 原理からいのち･健康を考える研究と教育
○跡見 順子（東大RIC・Cell to Body Dynamics Lab代表）　P.310

「DNA-巻き貝-卵殻膜」～生活の知恵を科学にする領域に出会えて
○清水 美穂（東大・情報理工、Cell to Body Dynamics Lab副代表）　P.310

「個体-器官-細胞」という体の成り立ちを教えるモデルとしてのニワトリ胚（高校生対象の出前授業から）
○福田 公子（首都大・理工・生命科学）　P.310

有志セミナー 2　『原生生物の多様性にみる生き物の進化の軌跡』～生物の不思議に触れた時の大きな喜びを感じながら、楽しい時間をお過ごしください～

May 31 (Thu)　12:00-12:50　Room 6 (502)

「発生若手ネットワーク」主催

渦鞭毛藻類に見られる葉緑体の進化～三次共生そして盗葉緑体
○堀口 健雄（北海道大学大学院理学研究院）　P.311

病原性の単細胞生物とそれを媒介するベクター
○江下 優樹（大分大学医学部感染予防医学講座）　P.312

ランチョンセミナー

ランチョンセミナー 1　　ライカマイクロシステムズ株式会社

5月29日（火）　12:10 - 13:00　第2会場（神戸国際会議場 3F 国際会議室）

The Excellent Imaging with Confocal HyD Microscopy

司会：大畑 絵美（ライカマイクロシステムズ㈱）

1. **コンフォーカルで実現する究極イメージング**
   伊集院 敏（ライカマイクロシステムズ㈱ リサーチ・クリニカル事業部 技術営業部）
2. **「細胞」レベルで器官「発生」を理解する**
   倉永 英里奈（理化学研究所 発生・再生科学総合研究センター 組織形成ダイナミクス研究チーム）

ランチョンセミナー 2　　横河電機株式会社

5月29日（火）　12:10 - 13:00　第5会場（神戸国際会議場 5F 501）

1. **共焦点レーザー顕微鏡による4Dライブセルイメージングとその解析**
   村山 尚（順天堂大学医学部薬理学）

ランチョンセミナー 3　　株式会社パーキンエルマージャパン

5月29日（火）　12:10 - 13:00　第6会場（神戸国際会議場 5F 502）

新世界基準、とっても簡単！
3D定量解析＆ライブセルイメージングの世界

司会：南 浩之（株式会社パーキンエルマージャパン）

1. **哺乳動物初期胚の質を定量的に見る**
   山縣 一夫（大阪大学微生物病研究所生体応答遺伝子解析センター）
2. **誰でもできる3次元画像の定量と自動化－Volocityの定量**
   塩田 良（株式会社パーキンエルマージャパン）

ランチョンセミナー 4　　オリンパス株式会社

5月30日（水）　12:00 - 12:50　第2会場（神戸国際会議場 3F 国際会議室）

座長：加藤 誠（オリンパス株式会社）

1. **多細胞集団の4次元ダイナミクス理解への挑戦：立体組織形成の多光子イメージングで見えてきたもの**
   笹井 芳樹（理化学研究所 発生・再生科学総合研究センター　器官発生研究グループ）

ランチョンセミナー 5　株式会社オプトライン

5月30日（水） 12:00 - 12:50　第5会場（神戸国際会議場 5F 501）

座長：堀川 一樹（国立遺伝学研究所 新分野創造センター　多細胞社会研究室）

1. **バイオイメージングで何を観るのか？**
   永井 健治（大阪大学 産業科学研究所 生体分子機能科学研究分野、JST・さきがけ）

ランチョンセミナー 6　カールツァイスマイクロスコピー株式会社

5月30日（水） 12:00 - 12:50　第6会場（神戸国際会議場 5F 502）

マクロからナノまでを網羅する最新の顕微鏡技術

座長：市川 謙（カールツァイスマイクロスコピー株式会社）

1. **低倍率の蛍光像でかつてない明るさを実現：Axio Zoom.V16**
   石浜 陽（カールツァイスマイクロスコピー株式会社 マーケティング＆サポートディパートメント）
2. **“より明るく”“より深く”を実現する最新の顕微鏡システム**
   矢口 晶（カールツァイスマイクロスコピー株式会社 マーケティング＆サポートディパートメント）

ランチョンセミナー 7　株式会社ニコンインステック

5月31日（木） 12:00 - 12:50　第3会場（神戸国際会議場 4F 401+402）

1. **マクロコンフォーカル顕微鏡で覗く発生現象　ーミクロとマクロを繋ぐー**
   高瀬 悠太（奈良先端科学技術大学院大学 バイオサイエンス研究科）
2. **広視野・高画質マクロコンフォーカル顕微鏡のご紹介**
   及川 義朗（株式会社ニコンインステック アプリケーション技術部）

ランチョンセミナー 8　ライフテクノロジーズジャパン株式会社

5月31日（木） 12:00 - 12:50　第5会場（神戸国際会議場 5F 501）

1. **ここまで身近になった次世代シーケンサをどう活用するか!?　エピジェネティクスから発現解析まで**
   熊井 広哉（ライフテクノロジーズジャパン株式会社　マーケティング）

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Joint Meeting of The 45th Annual Meeting of the Japanese Society of Developmental Biologists & The 64th Annual Meeting of the Japan Society for Cell Biology

Program & Abstracts

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