

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

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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お！」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	Event Hall	2F					
	Poster & Exhibition	Shinsho Hall	3F				

Program at a Glance

Day 1 (May 29 (Tue))

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

Program at a Glance

Day 2 (May 30 (Wed))

Bldg.	Room		Floor	Time							
				9:00	10:00	11:00	12:00	13:00	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			Luncheon Seminer 4 Olympus P.90		12:50 13:50 General Assembly (JSDB)	
	Room 3	401+402	4F		Workshop 3a Cell-Cell interaction / Cell adhesion / Extracellular matrix P.36			Broad of Council Members General Assembly (JSCB)			
	Room 4	403			Workshop 4a Systems biology P.36		11:15	有志セミナー 1 P.89			
	Room 5	501	5F		Workshop 5a Organogenesis / Body axis formation P.37			Luncheon Seminer 5 OPTO-LINE P.91			
	Room 6	502			Workshop 6a Neural function and development P.38			Luncheon Seminer 6 Carl Zeiss Microscopy P.91			
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						

14:00		15:00		16:00		17:00		18:00		19:00	
				Symposium 1 Cellular dynamics and morphogenesis P.26				Banquet Kobe Portopia Hotel (B1F Kairaku) 19:30-21:30			
				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	
Poster Session 2 Odd 14:00-15:00 Even 15:00-16:00 P.58				Poster Viewing						Removal	
				Equipment/ Reagent Exhibition		17:00					
Poster Session 2 Odd 14:00-15:00 Even 15:00-16:00 P.58				Poster Viewing						Removal	
				Equipment/ Reagent Exhibition		17:00					

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							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)

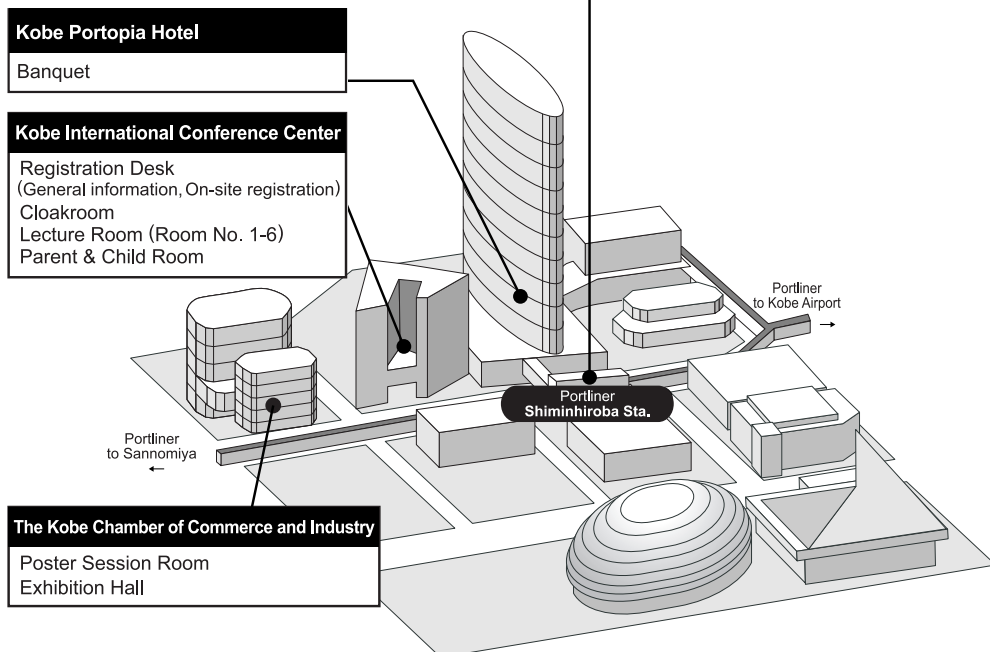
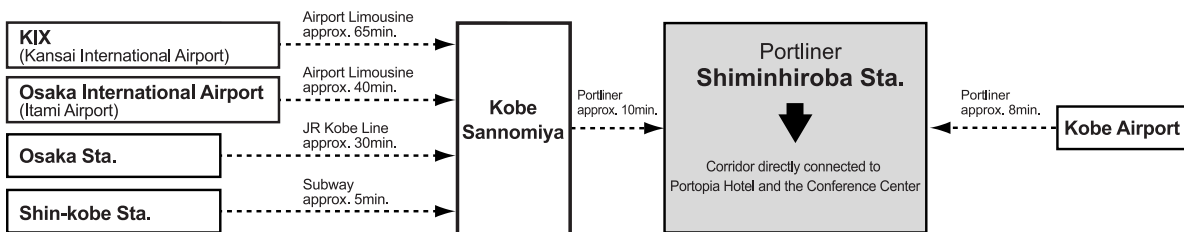
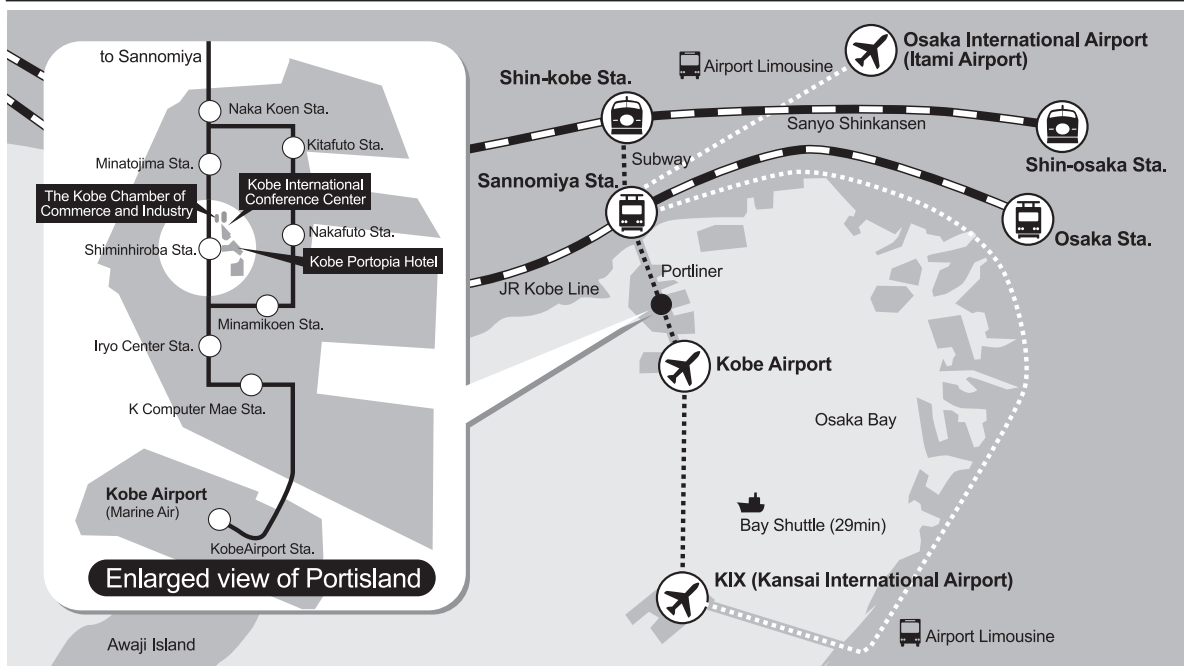
Even numbers 15:00-16:00 (15:10-16:10 on May 29)

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

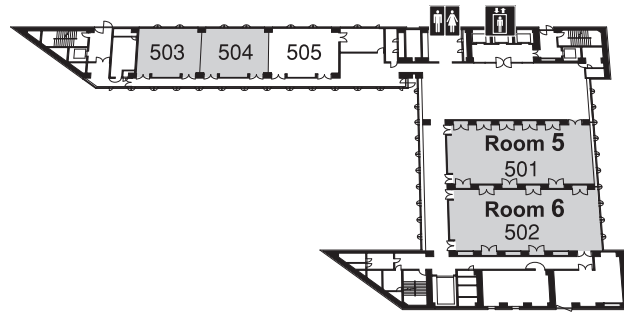
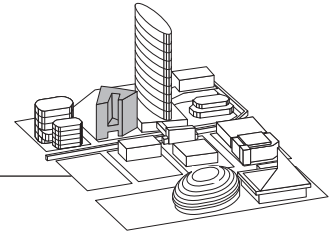
Kobe International Conference Center (6-9-1 Minatojima-nakamachi, Chuo-ku, Kobe 650-0046, Japan)
 The Kobe Chamber of Commerce and Industry (6-1 Minatojima-nakamachi, Chuo-ku Kobe 650-8543, Japan)

Access

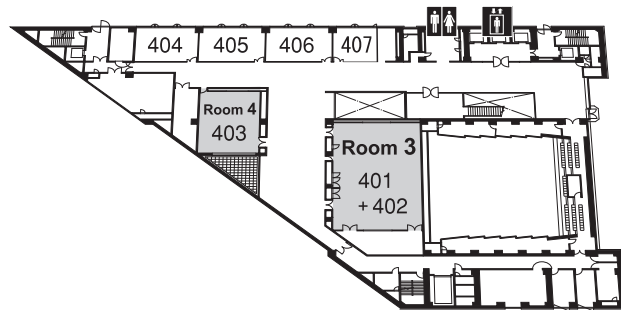


Floor plan

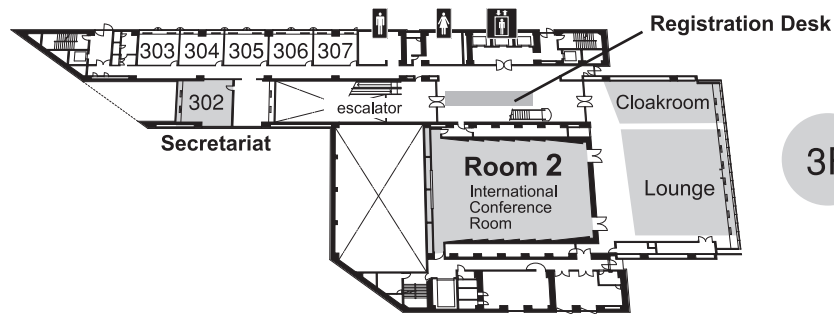
Kobe International Conference Center



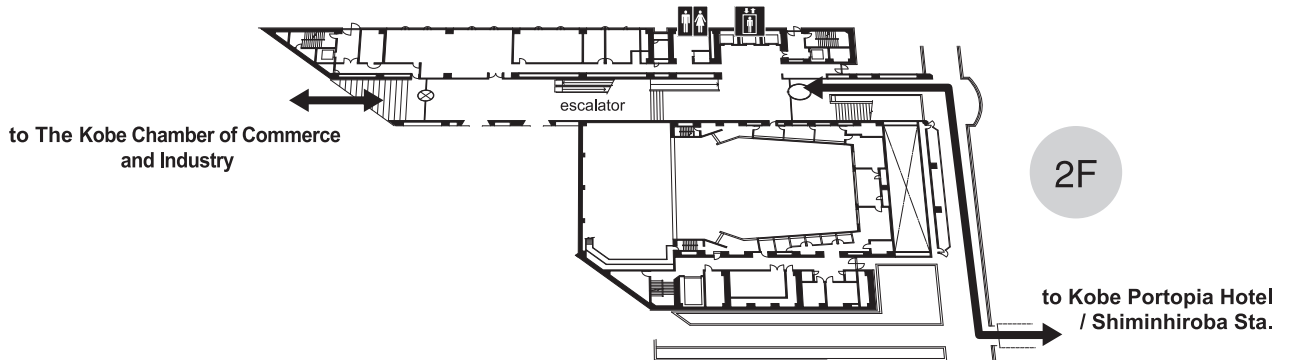
5F



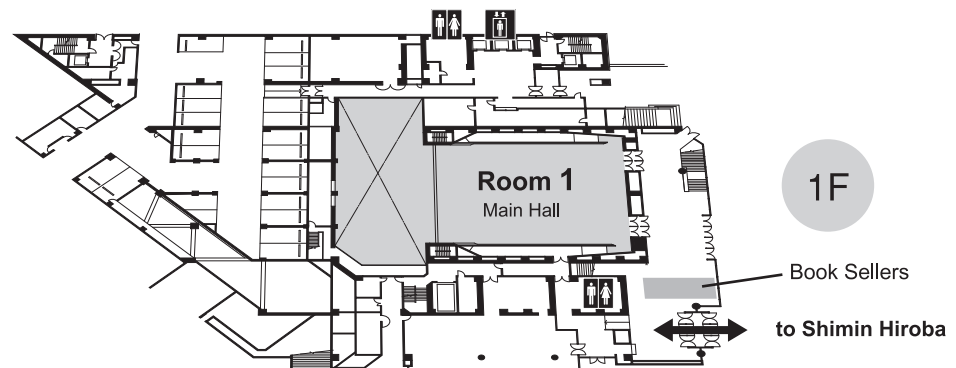
4F



3F



2F

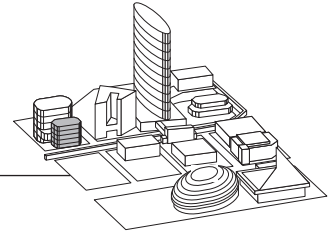


1F

Wi-Fi Available Areas

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

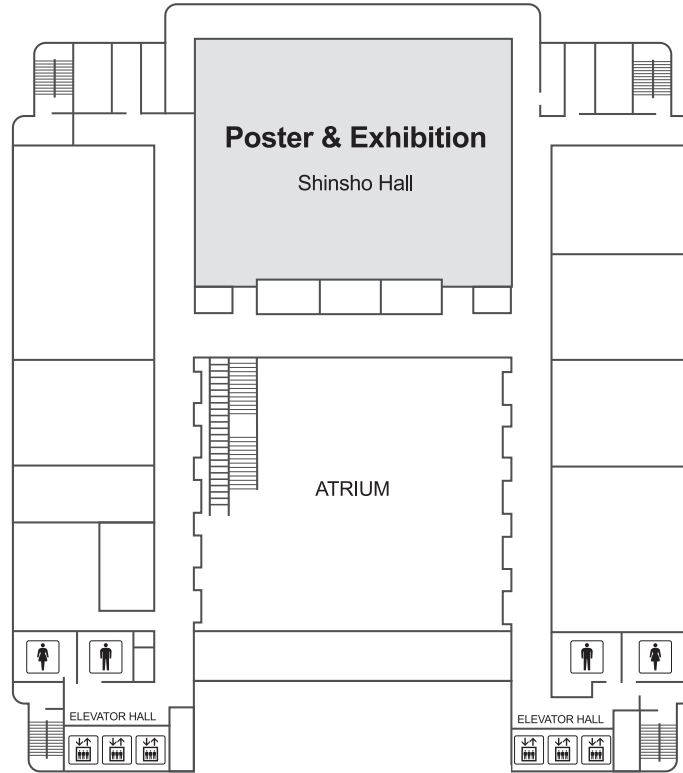
The Kobe Chamber of Commerce and Industry



3F

Shinsho Hall

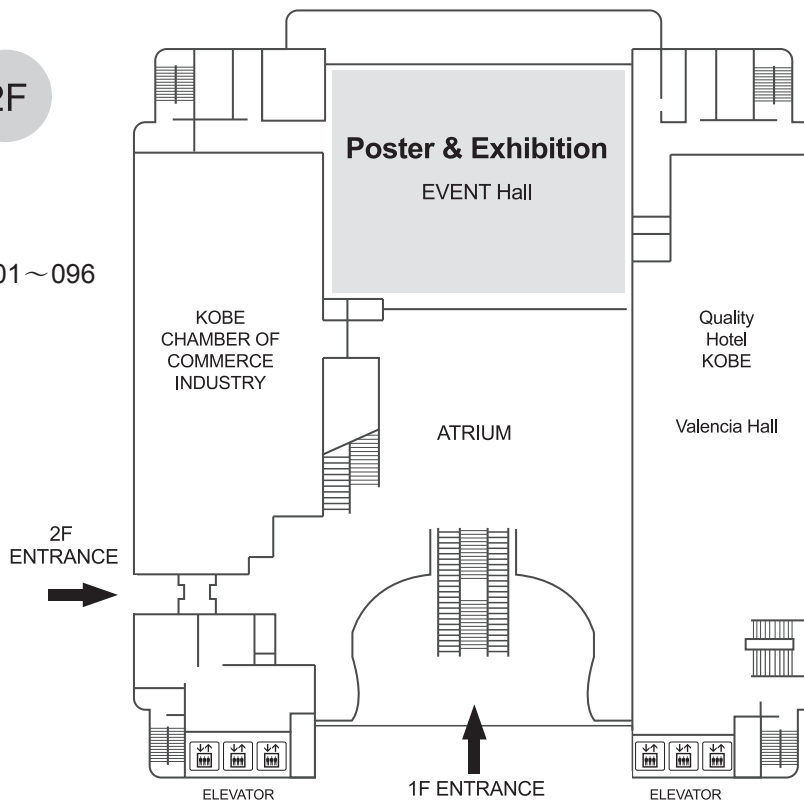
Poster No. : 097 ~ 204



2F

Event Hall

Poster No. : 001 ~ 096



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 device 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.

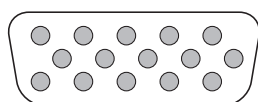
If you bring your own laptop, please see the following “Technical Requirements for your laptop”.

◆ **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

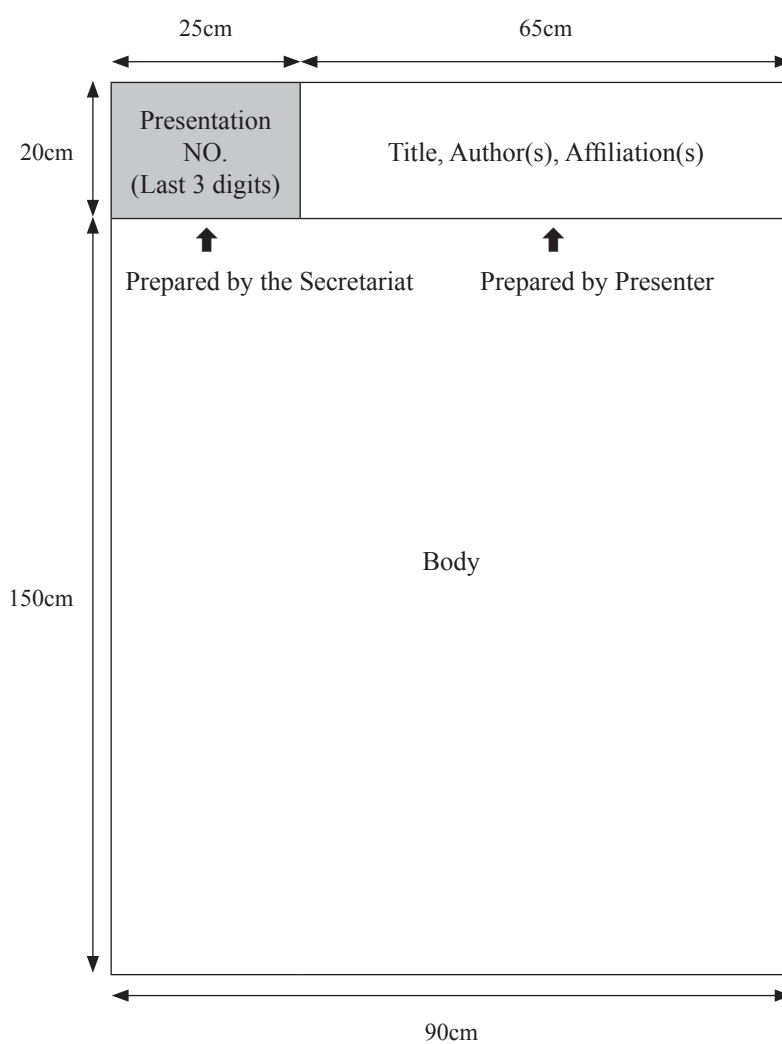
The last 3-digit presentation number is on the upper left of each panel. Please use the panel that matches your presentation number. Push pins are prepared at each panel. Please refer to the Poster session room layout (on page 16) to find your panel.

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オンワークショップ

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のでしょうか。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 Desai¹, OMark A. Krasnow² (¹Department of Biochemistry & Department of Medicine, Stanford University School of Medicine, ²Department 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 cytoskeletal 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 field 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 constraints**
○Benoit Ladoux¹, Ester Anon^{2,3}, Xavier Trepat³, SRK Vedula⁴, Man Chun Leong⁴, Chwee Teck Lim⁴ (¹Mechanobiology Institute (Singapore) and University Paris Diderot (France), ²Universite Paris Diderot, France, ³IBEC, Spain, ⁴Mechanobiology 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 Noguchi¹, Michiko Koizumi², Shigeo Hayashi³ (¹Nat. Def. Med. Col., ²Inst. of Med. Sci., Univ. of Tokyo, ³Riken, CDB) P.96
- 17:40 **S1-5** **Ca²⁺ signaling and membrane trafficking mediate neuronal growth cone guidance**
○Takuro Tojima^{1,2}, Rurika Itofusa¹, Hiroyuki Kamiguchi¹ (¹Lab. for Neuronal Growth Mechanisms, RIKEN Brain Science Institute, ²PRESTO, 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 Suzuki¹, Yusuke Hara¹, Masanao Sato², Takeharu Nagai³, Robert E. Campbell⁴, Naoto Ueno¹ (¹Div. of Morpho., NIBB, ²Div. of Dev. Genet., NIBB, ³Hokkaido Univ., ⁴Uni. 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, OYukio Kimata (Grad. Schl. Biol. Sci, Nara Inst. Schi. Tech.) P.98
- 16:35 **S2-2 Protein homeostasis through quality control pathways in mammalian cells**
OKazuhiro 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***
OTakahiro Chihara^{1,2}, Sayaka Sekine¹, Chisako Sakuma¹, Liqun Luo⁴, Masayuki Miura^{1,3} (¹Dept Genetics, Grad Sch Pharm Sci, Univ of Tokyo, ²PRESTO, JST, ³CREST, JST, ⁴HHMI and Dept Biol, Stanford, USA) P.98
- 17:25 **S2-4 Rab small GTPases regulate neurite outgrowth and dendritic morphogenesis**
OMitsunori 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 Chesneau¹, Daphne Dambournet¹, Mickael Machicoane¹, Ilektra Kouranti¹, Mitsunori Fukuda², Bruno Goud³, OArnaud Echard¹ (¹Institut PASTEUR, Membrane Traffic and Cell Division Lab. CNRS URA2582, ²Laboratory of Membrane Trafficking Mechanisms, Department of Developmental Biology and Neurosciences, Graduate School of Life Sciences, Tohoku University, Japan., ³Institut Curie, Molecular Mechanisms of Intracellular Transport Lab, Paris, France) P.99
- 18:20 **S2-6 Molecular mechanism of autophagosome formation and maturation**
ONoboru 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**
OMiyuki 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**
OShosei Yoshida^{1,2}, Kenshiro Hara^{1,2}, Yu Kitadate^{1,2} (¹Div. Germ Cell Biology, National Institute for Basic Biology, ²SOKENDAI) P.100
- 16:40 **S3-2 Stem cell loss and replacement in adult tissue homeostasis**
OAllon 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}, OKatsuhiko Hayashi^{1,2,5} (¹Dept. of Anat. Cell Biol., Grad. Sch. of Med., Kyoto Univ., ²JST, PRESTO, ³JST, ERATO, ⁴iCeMS, Kyoto Univ., ⁵CiRA, Kyoto Univ.) P.100
- 17:40 **S3-4 Directed cell fate reprogramming of fibroblasts to hepatocytes by defined factors**
OAtsushi Suzuki^{1,2,3} (¹Div. of Organogenesis and Regeneration, MIB, Kyushu Univ., ²CREST, JST, ³PRESTO, JST) P.100
- 18:10 **S3-5 Development of Gut Stem Cell Culture**
OToshiro Sato (Department of Gastroenterology, Keio University School of Medicine) 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 Sasai (Kyushu Univ.), Haruhiko Siomi (Keio Univ.)

16:10	S4-1	Small RNA-mediated silencing of transposable elements in the Drosophila ovary	
Opening Remark		OHaruhiko Siomi (Department of Molecular Biology Keio University School of Medicine)	P.101
16:40	S4-2	Small RNA-mediated epigenetic regulation of DNA elimination in Tetrahymena	
		OKazufumi 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	
		OShunsuke 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	
		Okuhiro Okamoto, Edith Heard (Inst. Curie)	P.102
18:10	S4-5	Allelic regulation of pluripotency-associated transcription factors	
		Yusuke Miyanari, OMaria-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		OHiroyuki Sasai (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	
		OTatsushi 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 OGaku 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 <i>Dugesia japonica</i> OYoshihiko Umesono ¹ , Junichi Tasaki ² , Kazutaka Hosoda ² , Shigenobu Yazawa ² , Osamu Nishimura ² , Kiyokazu Agata ² (1RIKEN CDB, 2Grad. School of Science, Kyoto Univ.)	P.103
17:20	S5-4	Regulation of axial stem cells deriving neural and mesodermal tissues OTatsuya Takemoto, Hisato Kondoh (FBS, Osaka University)	P.103
17:40	S5-5	Two modes of Notch signaling cooperate in epithelial patterning during lung organogenesis OMitsuru Morimoto (Div. of Mam. Dev., Nat. Inst. of Gen)	P.104
18:00	S5-6	Genetic control for neural circuit formation in teleost cerebellum OMasahiko 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} (1Biosci. Biotech. Ctr., Nagoya Univ., 2Grad. Sch. Sci., Nagoya Univ., 3Nat. Inst. Genet., 4RIKEN 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, OKoji Tamura (Grad.e Sch. of Life Sci., Tohoku Univ.)	P.104
18:40	S5-8	Evolution of the turtle shell from developmental perspectives OShigeru 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 OYasushi Okada (Lab Cell Polarity Regulation, Quantitative Biology Center (QBiC), RIKEN)	P.105
16:35	S6-2	Pushing the Envelope in Biological Fluorescence Microscopy OEric Betzig (Janelia Farm Research Campus)	P.105
17:20	S6-3	Three-dimensional structured illumination imaging of chromosome structure in meiotic cells OPeter 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 OYoshinori Iketaki ^{1,2} , Nándor Bokor ² (1PRESTO "Life Phenomena and Measurement Analysis", Japan Science and Technology Agency, 2Olympus Co., Future Creation Laboratory, 3Dept. Physics, Budapest University of Technology and Economics)	P.105
18:10	S6-5	Resolution enhancement method focusing on usability and applicability for cell biology OTomonobu Watanabe ¹ , Yoshikazu Tsukasaki ¹ , Hideaki Fujita ¹ , Taro Ichimura ¹ , Toshio Yanagida ^{1,2,3} (1RIKEN, QBiC, 2Dev. of Frontier Biosci., Osaka Univ., 3WPI, iFReC, Osaka Univ)	P.106
18:35	S6-6	High-resolution confocal microscopy using saturated and nonlinear excitation OKatsumasa 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** **D Tubule elongation and cell epithelialization are coordinately regulated by FGFs emanating from adjacent tissues**
(P1-004)
○Yuji Atsuta, Yoshiko Takahashi (Biosci., NAIST) P.107
- 16:35 **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**
(P1-016)
○Yuuri Yasuoka¹, Yutaka Suzuki², Shuji Takahashi³, Norihiro Sudou¹, Yoshikazu Haramoto^{3,4}, Yukiko Tandou⁵, Kaoru Kubokawa^{5,6}, Ken W. Cho⁷, Makoto Asashima⁴, Sumio Sugano², Masanori Taira¹ (¹Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, ²Dept. of Med. Gen. Sci., Grad. Sch. of Fro. Sci., Univ. of Tokyo, ³CSLS, KOMEX, Univ. of Tokyo, ⁴SCRC, AIST, ⁵CAMR, ORI, Univ. of Tokyo, ⁶MMBS, Grad. Sch. of Sci., Univ. of Tokyo, ⁷Dept. of Dev. and Cell. Biol., and Dev. Biol. Center, UC Irvine) P.107
- 16:50 **JWS-A3** **D Heparan sulfate nanostructures regulate extracellular Wnt distribution and act as a core for Wnt/Dishevelled signalosome formation**
(P1-022)
○Yusuke Mii¹, Kenichi Nakazato², Chan-Gi Pack³, Yasushi Sako³, Atsushi Mochizuki², Masanori Taira¹ (¹Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, ²Theor. Biol. Lab. RIKEN, ³Cell. Inform. Lab. RIKEN) P.107
- 17:05 **JWS-A4** **C Tricellulin regulates epithelial cell shape by controlling actomyosin organization via a Cdc42GEF Tuba**
(P1-037)
○Yukako Oda¹, Tetsuhisa Otani², Junichi Ikenouchi³, Mikio Furuse¹ (¹Div. of Cell Biol., Grad. School of Med., Univ. of Kobe, ²Lab. for Morphogenetic Signalling, RIKEN CDB, ³Dept. of Synthetic Chem. and Biol. Chem., Grad. School of Engineering, Univ. of Kyoto) P.107
- 17:20 **JWS-A5** **D Transcriptional pulsing dynamics of genes with different functions**
(P1-026)
○Tetsuya Muramoto^{1,2}, Masahiro Ueda¹, Jonathan R Chubb^{2,3} (¹Laboratory for Cell Signaling Dynamics, Quantitative Biology Center, RIKEN, ²Divisions of Cell and Developmental Biology, College of Life Sciences, University of Dundee, ³Department of Cell and Developmental Biology and MRC Laboratory for Molecular Cell Biology, University College London) P.108
- 17:35 **JWS-A6** **C Mitochondrial dysfunction drives non-autonomous tumor progression in *Drosophila***
(P1-058)
○Shizue Ohsawa¹, Yoshitaka Sato¹, Masato Enomoto¹, Mai Nakamura¹, Aya Betsumiya¹, Tatsushi Igaki^{1,2} (¹Dept. of Cell Biol., G-COE, Kobe Univ. Grad. Sch. of Med., ²PRESTO, JST) P.108
- 17:50 **JWS-A7** **D Conserved role for the Dachshund protein with *Drosophila* Pax6 homolog Eyeless in insulin expression**
(P1-076)
○Naoki Okamoto, Takashi Nishimura (CDB, RIKEN Kobe Institute) P.108
- 18:05 **JWS-A8** **C Dynamic Organization of Paracrystalline Actin Bundles by IKKepsilon**
(P1-079)
○Tetsuhisa Otani¹, Takuya Maeda¹, Kazuyo Misaki², Shigenobu Yonemura², Shigeo Hayashi¹ (¹RIKEN CDB, Lab for Morphogenetic Signaling, ²RIKEN CDB, Electron microscope laboratory) P.108
- 18:20 **JWS-A9** **D Genome-wide view of transcriptional programs governing neuronal subtype-specific dendrite morphogenesis in vivo**
(P1-082)
○Yukako Hattori¹, Tadao Usui¹, Daisuke Satoh¹, Kohei Shimono¹, Takehiko Itoh², Katsuhiko Shirahige³, Tadashi Uemura¹ (¹Grad. Sch. of Biostudies, Kyoto Univ., ²Grad. Sch. of Biosci. and Biotech., Tokyo Inst. of Tech., ³Inst. of Mol. and Cell. Biosci., Univ. of Tokyo) P.109
- 18:35 **JWS-A10** **C Cortactin functions as a clutch molecule to promote axon outgrowth**
(P1-084)
○Yusuke Kubo¹, Michinori Toriyama¹, Tadao Sugiura², Naoyuki Inagaki¹ (¹Grad. School of Biol. Sci., Nara Inst. of Sci. and Technol., ²Grad. School of Inform. Sci., Nara Inst. of Sci. and Technol.) P.109
- 18:50 **JWS-A11** **D Nodal/Activin promotes sex differentiation of male germ cells through MAPK P38 signaling pathway**
(P1-096)
○Quan Wu^{1,2}, Rie Saba¹, Kohei Kanata³, Hiroshi Hamada³, Yumiko Saga¹ (¹NIG, ²SOKENDAI, ³GSFB, Osaka University) P.109

- 19:05 **JWS-A12** **D** **A localized factor polarizes mesendoderm cells and separates mesoderm and endoderm fates in the ascidian embryo.**
(P1-103)
○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** **C** **De-ubiquitinating enzyme for a moyamoya disease-susceptible protein, Mysterin**
(P1-109)
○Yuri Kotani¹, Daisuke Morito¹, Shunichiro Iemura², Toru Natsume², Kazuhiro Nagata¹ (¹Faculty of Biological Sciences, Kyoto Sangyo Univ., ²AIST) P.110
- 16:35 **JWS-B2** **D** **Live imaging analyses of melanosome-transfer in the developing skin**
(P1-160)
○Ryosuke Tadokoro, Hidetaka Murai, Kenichiro Sakai, Takahiro Okui, Yoshiko Takahashi (Grad. Sch. of Biol. Sci., NAIST) P.110
- 16:50 **JWS-B3** **D** **Apoptosis facilitates mammalian early brain development by eliminating morphogen-producing cells**
(P1-130)
○Keiko Nonomura¹, Yoshifumi Yamaguchi^{1,2}, Misato Hamachi¹, Masato Koike³, Yasuo Uchiyama³, Hiroki Yoshida⁴, Keisuke Kuida⁵, Masayuki Miura^{1,2} (¹Dept. Genetics, Grad. Sch. Pharm. Sci., Univ. Tokyo, ²CREST, JST, ³Juntendo University, ⁴Saga Univ. Med. Sch., ⁵Millennium: The Takeda Oncology Company) P.110
- 17:05 **JWS-B4** **C** **Cell movement on cilia in the statolith formation of ctenophore**
(P1-126)
○Naoki Noda (Marine Biological Laboratory) P.110
- 17:20 **JWS-B5** **D** **Regulation of hole size in basement membrane during cell invasion in *C. elegans***
(P1-142)
○Shinji Ihara¹, David Sherwood², Hitoshi Sawa¹ (¹Multicellular Organization Laboratory, National Institute of Genetics, ²Duke University) P.111
- 17:35 **JWS-B6** **C** **Coordinated Ciliary Beating Requires Odf2-Mediated Polarization of Basal Bodies via Basal Feet**
(P1-147)
○Koshi Kunimoto¹, Yuji Yamazaki¹, Tomoki Nishida¹, Kyosuke Shinohara¹, Hiroaki Ishikawa², Toshiaki Hasegawa¹, Takeshi Okanoue³, Hiroshi Hamada¹, Tetsuo Noda⁴, Atsushi Tamura¹, Shoichiro Tsukita⁵, Sachiko Tsukita¹ (¹Osaka Univ., ²UCSF, ³Saiseikai Suita Hosp., ⁴Cancer Inst. of Japanese Foundation for Cancer Res., ⁵Kyoto Univ.) P.111
- 17:50 **JWS-B7** **D** **The Regulation of FGF Signaling by MT1-MMP in Calvarial Osteogenesis**
(P1-153)
H. L. X. Wong, K. M. Chan, OZ. Zhou (Dep. of Biochemistry, Li Ka Shing Faculty of Med., Univ. of Hong Kong) P.111
- 18:05 **JWS-B8** **C** **Roles of mDia, a Rho effector and actin nucleator, in neuroepithelium integrity and neuroblast migration**
(P1-162)
○Dean Thumkeo¹, Ryota Shinohara¹, Keisuke Watanabe², Hirohide Takebayashi², Naoko Kaneko³, Kazunobu Sawamoto³, Toshimasa Ishizaki¹, Tomoyuki Furuyashiki¹, Shuh Narumiya¹ (¹Department of Pharmacology, Kyoto University Faculty of Medicine, ²Division of Neurobiology and Anatomy, Niigata University, ³Department of Developmental and Regenerative Biology, Nagoya City University School of Medical Sciences) P.111
- 18:20 **JWS-B9** **D** **Neurotransmitter receptors are essential for controlling developmental transition via steroid hormone biosynthesis in *Drosophila***
(P1-121)
○Yuko Shimada-Niwa, Jevgenija Maramzina, Ryusuke Niwa (Grad. School of Life and Environmental Sciences, Univ. of Tsukuba) P.112
- 18:35 **JWS-B10** **D** **Different levels of the TRIM protein Asap confer distinct patterns of axonal connections in *Drosophila* sensory neurons**
(P1-171)
○Rei K. Morikawa, Kazuo Emoto (Osaka Biosci. Inst.) P.112

- 18:50 **JWS-B11** **© Mammalian skin-specific retroviral-like aspartic protease, SASPase is a key modulator of skin moisturization**
(P1-117)
 ○Takeshi Matsui^{1,2}, Kenichi Miyamoto³, Akiharu Kubo^{4,5}, Hiroshi Kawasaki⁴, Tamotsu Ebihara⁴, Kazuya Hata⁶, Shizuko Ichinose⁷, Issei Imoto^{8,9}, Johji Inazawa⁸, Jun Kudoh³, Masayuki Amagai⁴ (¹iCeMS, Kyoto Univ., ²MTT, Med. Res. Inst., Tokyo Med. & Dent. Univ., ³Lab. of Gene Med., Keio Univ. Sch. of Med., ⁴Dept. of Dermatol., Keio Univ. Sch. of Med., ⁵Center for Integ. Med. Res., Keio Univ. Sch. of Med., ⁶Sunplanet Co. Ltd, ⁷Res. Cent. for Med. & Dent. Sci., Tokyo Med. & Dent. Univ., ⁸Dept. of Mol. Cytogenet., Med. Res. Inst. & Sch. of Biomed. Sci., Tokyo Med. & Dent. Univ., ⁹Dept. of Human Genet. & Public Health, Inst. of Health Biosci., Univ. of Tokushima Grad. Sch.) P.112
- 19:05 **JWS-B12** **▣ Prickle and Spiny-legs ratio regulates global tissue coordination in planar cell polarity**
(P1-179)
 ○Tomonori Ayukawa¹, Juergen A. Knoblich², Takehiko Sasaki³, Masakazu Yamazaki¹ (¹Akita University Graduate School of Medicine, ²Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA), ³Department of Pathology and Immunology, Akita University School of Medicine) P.112

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** **D Transplantation of Mesenchymal Stem Cells Derived from ES Cells Promotes Re-innervation and Accelerates Functional Recovery of Injured Skeletal Muscle**
(P1-010)
ONana Ninagawa¹, Eri Isobe², Yuri Hirayama², Yuka Kawabata², Mami Kobayashi¹, Shigeko Torihashi^{1,2}
(¹Department of Health Sciences, Nagoya University Graduate School of Medicine, ²Department of Physical Therapy, Nagoya University School of Health Sciences) P.113
- 11:05 **PFT-2** **C Proteins misfolded in the nucleus are degraded by a novel mechanism, nuclear export associated degradation (NEAD)**
(P1-031)
OShoshiro Hirayama¹, Shun-ichiro Iemura³, Kazutaka Araki¹, Daisuke Morito¹, Toru Natsume², Kazuhiro Nagata¹
(¹Faculty of Life Sci., Kyoto Sangyo Univ., ²National Institute of Advanced Industrial Science and Technology, Biomedical Information Research Center, ³Fukushima Medical University School of Medicine) P.113
- 11:10 **PFT-3** **D Primordial germ cells transmigrate from blood stream to gonad in avian: novel behavior revealed by live-imaging analyses**
(P1-049)
ODaisuke Saito, Tomoaki Torii, Yoshiko Takahashi (NAIST) P.113
- 11:15 **PFT-4** **D Disruption of inter-epithelial signaling causes EMT**
(P1-071)
OTakashi Yoshino¹, Daisuke Saito¹, Chihiro Uchiyama¹, Kiyotoshi Sekiguchi², Yuji Atsuta¹, Yoshiko Takahashi¹
(¹Bio., NAIST, ²IPR, Osaka Univ.) P.113
- 11:20 **PFT-5** **C Biased assembly of the nuclear pore complex determines nuclear differentiation in the ciliate *Tetrahymena thermophila***
(P1-090)
OMasaaki Iwamoto¹, Takako Koujin¹, Fumihide Bunai¹, Hiroko Osakada¹, Chie Mori¹, Haruhiko Asakawa^{1,2}, Yasushi Hiraoka^{1,2,3}, Tokuko Haraguchi^{1,2,3} (¹Advanced ICT Research Institute, NICT, ²Grad. Sch. of Front. Biosci., Osaka Univ., ³Grad. Sch. of Sci., Osaka Univ.) P.114
- 11:25 **PFT-6** **D Mitotic cell rounding accelerates invagination of the *Drosophila* tracheal placode**
(P1-115)
OTakefumi Kondo, Shigeo Hayashi (RIKEN CDB) P.114
- 11:30 **PFT-7** **D In vivo imaging of medaka fracture healing reveals that cyclooxygenase-2 plays an important role in inducing osteoclasts for bone remodeling.**
(P1-138)
OKazuhiro Takeyama¹, Masahiro Chatani¹, Yoshiro Takano², Akira Kudo¹ (¹Dept. of Biological Information, Tokyo Tech, ²Sect. Biostructural Science, Grad. Sch. of TMDU) P.114
- 11:35 **PFT-8** **C PI3K-Akt pathway controls Polo-like kinase 1 (Plk1)**
(P1-156)
OKousuke Kasahara^{1,2}, Hidemasa Goto^{1,3}, Ichiro Izawa¹, Nobumoto Watanabe⁴, Tohru Kiyono⁵, Masaki Inagaki^{1,3}
(¹Div. of Biochem., Aichi Cancer Ctr. Res. Inst., ²Dept. of Oncol., Grad. Sch. of Pharm. Sci., Nagoya City Univ., ³Dept. of Cell. Oncol., Grad. Sch. of Med., Nagoya Univ., ⁴Chem. Biol. Core Fac., Chem. Biol. Dept., RIKEN ASI, ⁵Div. of Virol., Natl. Cancer Ctr. Res. Inst.) P.114
- 11:40 **PFT-9** **D Paralogous enhancers: a crossover point between developmental robustness and stress response**
(P1-174)
OHaruki Ochi, Akane Kawaguchi, Tomoko Tamai, Hajime Ogino (Nara Institute of Science and Technology) P.115
- 11:45 **PFT-10** **C Function of a neurogenic gene, *pecanex* in Notch signaling.**
(P1-186)
OTomoko Yamakawa¹, Kenta Yamada¹, Takeshi Sasamura¹, Naotaka Nakazawa¹, Maiko Kanai¹, Emiko Suzuki², Mark E. Fortini³, Kenji Matsuno¹ (¹Dept. of Biol. Sci./Tec., Tokyo Univ. of Sci., ²Gene Network Lab., NIG, ³Dept. of Biochem./Mol. Biol., Thomas Jefferson Univ., ⁴Gene 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** **Live cell imaging of ER-to-Golgi protein transport system in *S.cerevisiae***
(P2-025) ○Kazuo Kurokawa¹, Michiyo Okamoto¹, Akihiko Nakano^{1,2} (¹RIKEN Advanced Science Institute, ²Department of Biological Sciences, Graduate School of Science, The University of Tokyo) P.116
- 9:15 **WS1a-2** **Glycosylation-independent ERAD pathway serves as a backup system under ER stress**
(P2-050) ○Ryo Ushioda¹, Jun Hoseki^{1,2}, Kazuhiro Nagata¹ (¹Dept. of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo Univ., ²Div. of Applied Life Sciences, Graduate School of Agriculture, Kyoto Univ.) P.116
- 9:30 **WS1a-3** **The molecular mechanism of dephosphorylation and nuclear translocation of TFE3, a key transcription factor regulating mammalian Golgi stress response.**
(P2-035) 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** **Chromatin signaling relays to the Golgi structure via SUN/KASH protein**
(P2-015) ○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** **Function of a t-SNARE protein SNAP23 in insulin secretion from pancreatic beta-cell.**
(P2-040) ○Masataka Kunii^{1,2}, Noriko Takahashi³, Masaki Kobayashi⁴, Mica Ohara-Imaizumi⁵, Takashi Sato², Shin-ichiro Yoshimura¹, Ken Sato², Reiko Harada¹, Shinya Nagamatsu⁵, Haruo Kasai³, Tadahiro Kitamura⁴, Akihiro Harada^{1,2} (¹Dept. of Cell Biol., Grad. Sch. of Med., Osaka Univ., ²Lab. of Mol. Traffic., IMCR, Gunma Univ., ³Lab. of Structural Phys., Grad. Sch. of Med., Univ. of Tokyo, ⁴Metabolic Signal Research Center, IMCR, Gunma Univ., ⁵Dept. of Biochem., Kyorin Univ. Sch. of Med.) P.117

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

- 10:15 **WS1a-6** **Genetic mutation of β -SNAP causes photoreceptor degeneration through the activation of the BH3-only SNARE, BNip1**
(P2-020) ○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** **Quantification and mechanics of meiotic cytoplasmic streaming in *C. elegans* early embryos.**
(P2-010) ○Kenji Kimura, Ritsuya Niwayama, Akatsuki Kimura (Cell Arch. Lab., Natl. Inst. of Genet.) P.117
- 10:45 **WS1a-8** **The temporal analysis of recruitment of mammalian Atg proteins to the autophagosome formation site**
(P2-005) ○Ikuko Koyama-Honda^{1,2}, Eisuke Itakura^{1,2}, Takahiro Fujiwara³, Noboru Mizushima¹ (¹Dept. of Physiol. and Cell Biol., Tokyo Med. and Dent. Univ., ²JSPS, ³iCeMS, Kyoto Univ.) P.117
- 11:00 **WS1a-9** **TRAPPIII facilitates autophagy by tethering transport vesicles from early endosomes to the Golgi apparatus**
(P2-045) Kanae Shirahama-Noda, Shintaro Kira, Tamotsu Yoshimori, ○Takeshi Noda (Div. Genetics, Osaka University, Grad Med, Grad Front. Bioscience) P.118
- 11:15 **WS1a-10** **Two proteases, trypsin domain-containing 1 (Tysnd1) and peroxisomal Lon protease (PsLon), cooperatively regulate fatty acid β -oxidation in peroxisomal matrix**
(P2-030) ○Kanji Okumoto¹, Yukari Kametani², Yukio Fujiki^{1,2} (¹Dept. of Biol., Fac. of Sci., Kyushu Univ., ²Grad. 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** **Actin-based chromosome transport in oocytes**
(P2-100) ○Masashi Mori¹, Nilah Monnier², Mark Bathe², Jan Ellenberg¹, Peter Lenart¹ (¹EMBL, ²MIT) P.118
- 9:15 **WS2a-2** **Regulation of mitochondrial transport and inter-microtubule spacing by Tau phosphorylation at the sites hyperphosphorylated in Alzheimer disease**
(P2-091) Kourosh Shahpasand¹, Isao Uemura¹, Taro Saito¹, Tsunaki Asano¹, Kenji Hata¹, Keitaro Shibata², Yoko Toyoshima², Masato Hasegawa³, OShin-ichi Hisanaga¹ (¹Dept. of Biol. Sci., Tokyo Metro. Univ., ²Dept. of Life Sci., Grad. Sch. of Art, The Univ. of Tokyo, ³Dept. Neuropath. Cell Biol., Tokyo Metro. Insti. of Med. Sci.) P.118
- 9:30 **WS2a-3** **Protein complex required for the formation of microtubule square lattice in green tree frog sperm**
(P2-095) ○Toshiki Yagi¹, Toshie Takahashi², Hiroshi Kubota³, Masahide Kikkawa¹ (¹Dep. of Cell Biol. Grad. Sch. of Med., Univ. of Tokyo, ²Dep. of Biochem & Mol. Biol., Grad. Sch. of Med., Univ. of Tokyo, ³Dep. of Zool., Grad. Sch. of Sci., Kyoto Univ.) P.119
- 9:45 **WS2a-4** **A CRMP-2 isoform controls myosin II-mediated cell migration and matrix assembly by trapping ROCK II**
(P2-059) ○Atsuko Yoneda^{1,2}, Marie Morgan-Fisher², Robin Wait³, John R. Couchman², Ulla M. Wewer² (¹Lab. of Genome and Biosignals, Tokyo Univ. of Pharm. and Life Sci., ²Dept. of Biomed. Sci., Faculty of Health Sci., and BRIC, Univ. of Copenhagen, ³Kennedy Inst. of Rheum., Univ. of Oxford) P.119
- 10:00 **WS2a-5** **Identification of Rho-GEFs involved in mechanosensing of vascular endothelial cells**
(P2-064) ○Hiroshi Kondo¹, Kazumasa Ohashi¹, Hiyori Abiko¹, Ryuichi Hiatar¹, Naoya Sakamoto², Masaaki Sato^{2,3}, Kensaku Mizuno¹ (¹Grad. Sch. of Life Sci., Tohoku Univ., ²Grad. Sch. of Eng., Tohoku Univ., ³Grad. Sch. of Biomed. Eng., Tohoku Univ.) P.119
- Organizers : Masahiro Ueda (Osaka Univ.), Junichi Ikenouchi (Kyoto Univ.)
- 10:15 **WS2a-6** **Proper regulation of tubulin poly-glutamylolation is essential for the maintenance of retinal photoreceptor cells**
(P2-073) ○Alu Konno^{1,2}, Sayumi Hattori¹, Chizuru Matsuda¹, Mitsutoshi Setou¹, Koji Ikegami¹ (¹Dept. Cell Biol. Anat., Hamamatsu Univ. Shool Med., ²JSPS Res. Fellow) P.119
- 10:30 **WS2a-7** **Contributions of actin cytoskeleton and cell-substrate adhesion in control of cell motile behavior in micro-topographical environments**
(P2-082) ○Hiromi Miyoshi¹, Taiji Adachi^{1,2}, Jungmyoung Ju¹, Sang Min Lee³, Dong Jin Cho³, Jong Soo Ko³, Yutaka Yamagata¹ (¹Ultra High Precision Fabrication Team, RIKEN, ²Dept. of Biomechanics, Inst. for Frontier Medical Sciences, Kyoto Univ., ³Graduate School of Mechanical Engineering, Pusan National Univ.) P.120
- 10:45 **WS2a-8** **Involvement of cell polarity in folding phenomena of epithelial sheets**
(P2-068) ○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** **FGF and small GTPase proteins control of basal and apical cytoskeletal activities during inner ear morphogenesis**
(P2-077) Xiao rei Sai, ○Raj Ladher (Riken CDB) P.120
- 11:15 **WS2a-10** **A transcription factor grainyhead-like 2 regulates epithelial morphogenesis by promoting the formation of the apical lumen**
(P2-086) ○Naoki Tanimizu¹, Kazunori Senga², Keith E Mostov³, Toshihiro Mitaka¹, Atsushi Miyajima² (¹Inst. for Front. Med., Sapporo Med. Univ., ²IMCB, Univ. of Tokyo, ³Dep. 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** **Regulation of tight junctions and actin cytoskeletons by the osmotic gradient in two different renal cell lines**
(P2-111)
○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** **ILDR1 and ILDR2 recruit tricellulin to tricellular tight junctions.**
(P2-112)
○Tomohito Higashi¹, Shin-ichiro Kitajiri², Hiroki Nakamura¹, Mikio Furuse^{1,2} (¹Div. of Cell Biol., Grad. Sch. of Med., Kobe Univ., ²Dept. of Otolaryngology Head and Neck Surgery, Grad. Sch of Med., Kyoto Univ.) P.121
- 9:30 **WS3a-3** **Electrical coupling in muscle enables compensation of sporadic neural outputs to coordinate robust and efficient behavior during motor development.**
(P2-107)
○Hiromi Hirata^{1,2}, Hua Wen³, Yu Kawakami⁴, Yuriko Naganawa⁴, Kazutoyo Ogino¹, Kenta Yamada¹, Louis Saint-Amant⁵, Sean E. Low⁶, Wilson W. Cui⁶, Weibin Zhou⁶, Shawn M. Sprague⁶, Kazuhide Asakawa¹, Akira Muto¹, Koichi Kawakami¹, John Y. Kuwada⁶ (¹National Institute of Genetics, ²PREST, JST, ³Oregon Health and Science University, ⁴Nagoya University, ⁵University of Montreal, ⁶University of Michigan) P.121
- 9:45 **WS3a-4** **β-Catenin binding partner(s) other than E-cadherin support cell adhesion sites without Z0-1.**
(P2-115)
○Akira Nagafuchi, Satoshi Urayama, Chiyoko Kobayashi (Dep. of Biol., Sch. of Med., Nara Med. Univ.) P.121
- 10:00 **WS3a-5** **Regulation of Notch signaling through the adherens junction in neurogenesis and somitogenesis**
(P2-119)
○Jun Hatakeyama¹, Yoshio Wakamatsu², Ryuichi Shigemoto³, Kenji Shimamura¹ (¹IMEG, Kumamoto Univ., ²Div. of Dev. Neurosci., Graduate school of Med., Tohoku Univ., ³Div. of Cereb. Struc., NIPS) P.122
- Organizers : Tatsushi Igaki (Kobe Univ.), Atsuko Sehara-Fujisawa (Kyoto Univ.)
- 10:15 **WS3a-6** **Tead activity links contact-mediated communication to cell competition by controlling Hippo signaling and Myc expression**
(P2-116)
Hiroshi Mamada^{1,2}, Mitsunori Ota², Hiroshi Sasaki^{1,2} (¹Dep. of Cell Fate Control., Inst. of Mol. Embryol. & Genet, Kumamoto Univ., ²RIKEN Ctr. for Dev. Biol.) P.122
- 10:30 **WS3a-7** **Modulation of cell-cell adhesion in *Xenopus* mesendoderm cells by CXCR7 signaling**
(P2-108)
○Akimasa Fukui, Keita Masuda, Kazuya Fukusawa, Naoki Sasaki (Transd. Life Sci., Grad. Sch. Life Sci., Hokkaido Univ.) P.122
- 10:45 **WS3a-8** **CLASP-mediated microtubule anchoring promotes the cell-basement membrane interaction through dystroglycan in gastrulation EMT**
(P2-104)
○Yukiko Nakaya, Erike, W. Sukowati, Guojun Sheng (Center for Developmental Biology, RIKEN) P.122
- 11:00 **WS3a-9** **Cancer-associated fibroblasts mediate extracellular matrix remodeling and three-dimensional invasion of scirrhous gastric carcinoma cells**
(P2-103)
○Hideki Yamaguchi¹, Kazuyoshi Yanagihara², Masakazu Yashiro³, Ryuichi Sakai¹ (¹Div. of Metastasis and Invasion Signaling, National Cancer Center Research Institute, ²Dept. of Life Sciences, Yasuda Women's University Faculty of Pharmacy, ³Dept. 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** **Dynamics of complex biological systems determined from minimal subsets of molecules in regulatory networks**
(P2-131)
○Atsushi Mochizuki¹, Gen Kurosawa¹, Bernold Fiedler² (¹Theoretical Biology Laboratory, RIKEN, ²Institute for Mathematics, Free University Berlin) P.123

- 9:15 **WS4a-2** **A systematic quantification of the width-length relationship of mitotic spindle during the embryogenesis of *Caenorhabditis elegans***
(P2-129)
○Akatsuki Kimura, Yuki Hara (Cell Arch. Lab., Nat. Inst. Genetics) P.123
- 9:30 **WS4a-3** **Mechanisms for temperature compensation at multiple scales**
(P2-126)
○Gen Kurosawa¹, Masashi Tachikawa¹, Atsushi Mochizuki^{1,2} (¹Theoretical Biology Laboratory, RIKEN, ²Department of Computational Intelligence and Systems Science, Tokyo Institute of Technology) P.124
- 9:45 **WS4a-4** **Mechanical modeling of the cell-cell interaction on the self-organization of the tooth germ.**
(P2-127)
○Hisako Takigawa-Imamura¹, Ritsuko Morita², Takashi Tsuji², Kenichi Yoshikawa¹ (¹Dept. of Phys., Grad. Sch. of Sci., Kyoto Univ., ²Res. Inst. for Sci. & Tech., Tokyo Univ. of Sci.) P.124
- 10:00 **WS4a-5** **Understanding the post-mitotic Golgi reassembly with mathematical models based on elastic membrane theory**
(P2-123)
○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** **Temporal Coding of Insulin Action through Multiplexing of the AKT Pathway**
(P2-132)
○Hiroyuki Kubota¹, Rei Noguchi¹, Yu Toyoshima¹, Yu-ichi Ozaki¹, Shinsuke Uda¹, Kanako Watanabe¹, Wataru Ogawa², Shinya Kuroda¹ (¹Department of Biophysics and Biochemistry, Graduate School of Science, University of Tokyo, ²Department of Internal Medicine, Division of Diabetes, Metabolism, and Endocrinology, Kobe University Graduate School of Medicine) P.124
- 10:30 **WS4a-7** **Synchronized Onset of Quorum Sensing Transition.**
(P2-124)
○Koichi Fujimoto¹, Satoshi Sawai² (¹Grad. Sch. of Sci., Osaka Univ., ²Grad. Sch. Arts and Sci., Univ. of Tokyo.) P.125
- 10:45 **WS4a-8** **A novel mathematical model of angiogenic morphogenesis: importance of tip cell dynamics**
(P2-128)
○Kei Sugihara^{1,2}, Koichi Nishiyama¹, Takashi Miura³, Satoshi Arima¹, Yuji Hakozaiki¹, Yuichiro Arima¹, Ki-Sung Kim¹, Yasunobu Uchijima¹, Yukiko Kurihara¹, Hiroki Kurihara¹ (¹Dept. of Physiol. Chem. and Metab., Grad. Sch. of Med., Univ. of Tokyo, ²MD Scientist Training Program, Fac. of Med., Univ. of Tokyo, ³Dept. of Anat. and Dev. Biol., Grad. Sch. of Med., Kyoto Univ.) P.125
- 11:00 **WS4a-9** **Estimating the Dynamics of Forces during Morphogenesis**
(P2-122)
○Kaoru Sugimura¹, Shuji Ishihara² (¹Kyoto Univ., ²Univ. 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** **Retromer and small GTPase-dependent recycling luminal protein controls apical ECM organization and epithelial tube size**
(P2-147)
○Bo Dong, Ken Kakihara, Kagayaki Kato, Hosei Wada, Shigeo Hayashi (RIKEN CDB) P.126
- 9:15 **WS5a-2** **Hemodynamics-dependent valvulogenesis of zebrafish heart mediated by miR-21**
(P2-139)
○Toshihiro Banjo¹, Minoru Omi¹, Kota Miyasaka¹, Yasuyuki Kida², Toshihiko Ogura¹ (¹IDAC, Tohoku Univ., ²Salk Institute) P.126
- 9:30 **WS5a-3** **Cadherin-7 enhances sonic hedgehog signal by inhibiting movement of Gli3 to primary cilium**
(P2-158)
○Rie Kawano^{1,2,3}, Kunimasa Ohta¹, Daisuke Niimori^{1,4} (¹Dept of Dev. Neurobio., Graduate School of Med. Sci., Univ. of Kumamoto, ²Global COE Cell Fate Regulation Research and Education Unit, Univ. of Kumamoto, ³Dep. of Internal Medicine 2, Faculty of Medicine, Univ. of Oita, ⁴Dep. of Dermatology and Plastic Surgery, Graduate School of Life Sciences, Univ. of Kumamoto) P.126
- 9:45 **WS5a-4** **Profile of cell cycle, cell division, and cell shape in lens: possible determinants of lens morphology**
(P2-155)
○Toshiaki Mochizuki¹, Shohei Suzuki¹, Asako Sakaue-Sawano², Atsushi Miyawaki², Ichiro Masai¹ (¹Developmental Neurobiology Unit, Okinawa Institute of Science and Technology Graduate School University, ²RIKEN BSI) P.126
- 10:00 **WS5a-5** **The roles of mesogenin1 in zebrafish tail presomatic mesoderm differentiation**
(P2-166)
○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** **Blood vessel remodeling in living embryos: a link between blood flow and migration of endothelial cells**
(P2-163)
○Yuta Takase, Yoshiko Takahashi (Graduate School of Biological Sciences, Nara Institute of Science and Technology) P.127
- 10:30 **WS5a-7** **Dynein arms assembly and transport in mammal**
(P2-150)
○Yasuko Asai, Tetsuya Nakamura, Kyosuke Shinohara, Hiroshi Hamada (Developmental Genetics Group Graduate School of Frontier Biosciences OSAKA UNIVERSITY) P.127
- 10:45 **WS5a-8** **Asymmetric Flow is Converted to a Degradation of Cer12 and Amplified by Interlinked Feedbacks Robustly in a Left-Right Axis of the Mouse Embryo**
(P2-136)
○Tetsuya Nakamura¹, Daisuke Saitoh², Kyosuke Shinohara¹, Dong Felang¹, Aiko Kawasumi¹, Atsuko Takamatsu³, Jose Antonio Belo⁴, Atsushi Mochizuki², Hiroshi Hamada¹ (¹Dev. Gene., Front. Bio., Osaka univ., ²Theoretical Bio, RIKEN, Japan, ³Faculty of Science and Engineering, Waseda univ., Japan, ⁴Biomedical Sciences and Medicine, University of Algarve, Portugal) P.127
- 11:00 **WS5a-9** **Dynamical property of gene regulatory network generating left-right asymmetry in mice embryo**
(P2-144)
○Daisuke Saito¹, Tetsuya Nakamura², Hiroshi Nakamura², Atsushi Mochizuki¹ (¹Theoret. Biol. Lab. RIKEN, ²Dev. Genet. Group, Grad. Sch. Frontier Biosci., Osaka Univ.) P.128
- 11:15 **WS5a-10** **Homeogenetic mechanism of sequential segmentation in polychaete**
(P2-171)
Nao Niwa¹, Ai Akimoto-Kato¹, Masashi Sakuma², ○Shigeo Hayashi¹ (¹RIKEN Center for Developmental Biology, ²Institute 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** **Tre1 GPCR signaling orients stem cell divisions in the Drosophila central nervous system**
(P2-177)
○Shigeki Yoshiura, Nao Ohta, Fumio Matsuzaki (RIKEN Center for Developmental Biology) P.128
- 9:15 **WS6a-2** **Phosphorylation control of Gogo receptor by Insulin signaling coordinates the developmental timing of the neuronal circuit wiring**
(P2-186)
○Takashi Suzuki^{1,2}, K Mann², S Berger-Mueller², M Wang², S H Luu², S Ohler², S Hakeda-Suzuki² (¹Core Div. Adv. Study, Dept. Bioscience, Tokyo Inst. Tech., ²Max Planck Institute of Neurobiology) P.128
- 9:30 **WS6a-3** **drskIII regulates Drosophila NMJ development and function**
(P2-201)
○Guoli Zhao (Institute of Genetics and Developmental Biology, Chinese Academy of Science) P.129
- 9:45 **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.**
(P2-180)
○Daisuke Matsubara, Ikumi Ueda, Tadashi Uemura, Tadao Usui (Grad. scho. of Biostudies, Kyoto Univ.) P.129
- 10:00 **WS6a-5** **Neural activity regulates proper restitution of phototaxis via novel neuropeptide genes during head regeneration in planarian**
(P2-183)
○Takeshi Inoue¹, Tomomi Takano², Yoshihiko Umesono¹, Kiyokazu Agata¹ (¹Dep. of Biophys, Grad. Sch. of Sci., Kyoto Univ, ²Center for Developmental Biology, RIKEN) P.129

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

- 10:15 **WS6a-6** **Dickkopfs regulate organ growth during lateral line development in zebrafish**
(P2-198)
○Hironori Wada¹, Koichi Kawakami² (¹PRESTO, Japan Science and Technology Agency, ²National Institute of Genetics; The Graduate University for Advanced Studies) P.129
- 10:30 **WS6a-7** **A path of growing blood vessels in the spinal cord is determined by an interface between differentiated and undifferentiated neurons**
(P2-195)
○Teruaki Takahashi, Yuta Takase, Ryosuke Tadokoro, Yoshiko Takahashi (NAIST) P.130

- 10:45 **WS6a-8** **Genetic manipulation of Madagascar Ground Gecko unveils unique characteristics of reptilian cortical neural stem cells**
(P2-174)
○Tadashi Nomura, Hitoshi Gotoh, Katsuhiko Ono (Dev.Neurobiol., Grad. Sch. of Med.Sci., Kyoto Pref. Univ. of Med.) P.130
- 11:00 **WS6a-9** **Involvement of En-2 in tectal laminar formation in chick embryos**
(P2-189)
○Minoru Omi¹, Yuji Watanabe^{1,2}, Harukazu Nakamura^{1,2} (¹Dept. of Mol. Neurobiol., Grad. Sch. Life Sci., Tohoku Univ., ²Dept. of Mol. Neurobiol., IDAC, Tohoku Univ.) P.130
- 11:15 **WS6a-10** **Cdk5 plays multiple roles in cortical neuronal migration and morphological changes**
(P2-192)
○Takeshi Kawauchi^{1,2}, Yoshiaki V. Nishimura^{1,3}, Mima Shikanai¹, Koh-ichi Nagata³, Kazunori Nakajima¹ (¹Dept. of Anat., Keio Univ. Sch. of Med., ²PRESTO, JST, ³Dept. 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** **Correlation analysis of the molecular conformation and signal-responsiveness of RAF by FRET imaging in individual cells.**
(P3-040)
○Kayo Hibino^{1,2}, Masahiro Ueda¹, Yasushi Sako² (¹QBiC, RIKEN, ²ASI, RIKEN) P.131
- 9:15 **WS1b-2** **Analysis of Rab5 in fission yeast**
(P3-050)
○Yuta Tsukamoto¹, Chisako Katayama¹, Masaaki Miyamoto^{1,2} (¹Dep. of Biol., Grad. Sch. of Sci., Kobe Univ., ²CSREA, Kobe Univ.) P.131
- 9:30 **WS1b-3** **Nucleoporin Nup358/RanBP2 associates with Karyopherin β 1 to orchestrate accurate chromosome segregation in mitosis**
(P3-016)
○Richard W. Wong, Chieko Hashizume (FSO, Kanazawa Univ.) P.131
- 9:45 **WS1b-4** **Serine/Threonine phosphatase PP5 regulates LRRK1 kinase activity during mitosis**
(P3-045)
○Kazuhito Sai, Hiroshi Hanafusa, Kunihiko Matsumoto (Dept. Biol. Sci., Grad. Sch. Sci., Univ. of Nagoya) P.131
- 10:00 **WS1b-5** **P90 RSK arranges Chk1 in the nucleus for monitoring of genomic integrity during cell proliferation**
(P3-023)
○Hidemasa Goto^{1,2}, Ping Li¹, Kousuke Kasahara^{1,3}, Makoto Matsuyama¹, Zhonghua Wang¹, Yasushi Yatabe⁴, Tohru Kiyono⁵, Masaki Inagaki^{1,3} (¹Div. of Biochem., Aichi Cancer Ctr. Res. Inst., ²Dept. of Cell. Oncol., Nagoya Univ. Grad. Sch. of Med., ³Dept. of Oncol., Grad. Sch. of Pharmaceutical Sci., Nagoya City Univ., ⁴Dept. of Pathol. and Mol. Diagnostics, Aichi Cancer Center Hosp., ⁵Div. 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** **Identification of integrin α PS3 β v as a receptor for phagocytosis of apoptotic cells in *Drosophila* embryos**
(P3-055)
○Kaz Nagaosa, Saori Nonaka, Ryo Okada, Yoshinobu Nakanishi (Grad. Sch. Med. Sci., Kanazawa Univ.) P.132
- 10:30 **WS1b-7** **Novel Roles of Glycosylation in *Drosophila* Innate Immunity**
(P3-011)
○Miki Yamamoto-Hino^{1,2}, Takako Shibano², Wakae Awano², Masatoshi Muraoka³, Hideyuki Okano¹, Satoshi Goto^{1,2} (¹Dept. of Physiol., School of Med., Keio Univ., ²Mitsubishi-Kagaku Inst. Life Sc., ³Tokyo Metropolitan Inst. of Med. Sci.) P.132
- 10:45 **WS1b-8** **A specific amino acid metabolic state of human ES/iPS cells and its significance**
(P3-033)
○Nobuaki Shiraki¹, Yasuko Shiraki³, Genta Nagae⁴, Tomonori Tsuyama¹, Hiroyuki Aburatani⁴, Kazuhiko Kume¹, Fumio Endo³, Shoen Kume^{1,2} (¹Dep. of Stem Cell Biol., IMEG, Kumamoto Univ., ²GCOE, Kumamoto Univ., ³Dep. of Pediatrics, Graduate School of Med. Sci., Kumamoto Univ., ⁴Genome Science Division, RCAST, Univ. of Tokyo) P.132
- 11:00 **WS1b-9** **A dual and opposite role of NLK-mediated Lef1 phosphorylation on the Wnt/ β -catenin signaling.**
(P3-006)
○Tohru Ishitani, Shizuka Ishitani (Div. of Cell Reg. Sys., M.I.B., Kyushu Univ.) P.133

- 11:15 **WS1b-10** **Epithelial cell-intrinsic Notch signaling plays an essential role in the maintenance of gut homeostasis**
(P3-028)
○Yuuki Obata^{1,2}, Daisuke Takahashi², Kisa Kakiguchi³, Shigenobu Yonemura³, Takashi Kanaya², Koji Hase⁴, Hiroshi Ohno^{1,2} (¹Grad. Sch. of Med., Univ. of Chiba, ²Lab. for Epithelial Immunobiology, RCAI, RIKEN, ³Lab. for Electron Microscope, CDB, RIKEN, ⁴Lab. 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** **A putative somatic role of the germline-specific gene *piwi* in the central nervous system of *Ciona intestinalis***
(P3-067)
○Kotaro Shimai¹, Aoi Ichinose¹, Takeo Horie², Yuki Miyamoto¹, Yasuko Terashima¹, Koki Nihitsuji³, Maki Shirae-Kurabayashi⁴, Akira Nakamura⁴, Rie Kusakabe⁵, Kunio Inoue⁵, Takehiro G. Kusakabe¹ (¹Dep. Bio., Fac. Sci. Eng., Konan Univ., ²Shimoda Marine Research Center, University of Tsukuba, Japan, ³Graduate School of Life Science, University of Hyogo, Japan, ⁴RIKEN CDB, Japan, ⁵Graduate School of Science, Kobe University, Japan) P.133
- 9:15 **WS2b-2** **Neural stem/progenitor cells in the iris tissues of the chick embryo**
(P3-087)
○M Araki¹, T Ishikawa¹, A Fujihara¹, M Kosaka² (¹Dev. Neurobiol. Lab., Nara Women's University, ²Human Morphology, Faculty of Med., Okayama University) P.133
- 9:30 **WS2b-3** **Tsukushi maintains the growth and undifferentiated properties of stem/progenitor cells as a niche molecule**
(P3-064)
Ayako Ito¹, Yohei Shinmyo¹, Nahoko Kaneko², Yuki Hirota², Jun Hatakeyama¹, Masahiro Yamaguchi³, Kenji Shimamura¹, Kazunobu Sawamoto², Hideaki Tanaka¹, OKunimasa Ohta¹ (¹Div. of Dev. Neurobiol., Kumamoto Univ., ²Nagoya City University, Nagoya, Japan, ³University of Tokyo, Tokyo, Japan) P.134
- 9:45 **WS2b-4** **Dynamics of cultured human epidermal keratinocyte stem cells**
(P3-061)
○Daisuke Nanba¹, Fujio Toki¹, Natsuki Matsushita¹, Hiroshi Toki², Shigeki Higashiyama¹, Yann Barrandon³ (¹ProMRes, Ehime Univ., ²RCNP, Osaka Univ., ³LDCS, EPFL) P.134
- 10:00 **WS2b-5** **A high throughput screening system for molecules promoting pancreatic β -cell differentiation of ES cells.**
(P3-079)
○Daisuke Sakano^{1,2}, Nobuaki Shiraki¹, Masateru Kataoka¹, Kazuhide Kikawa^{1,3}, Fumio Endo³, Kazuhiko Kume¹, Motonari Uesugi⁴, Shoen Kume^{1,2} (¹Div. of Stem Cell Biol., IMEG, Kumamoto Univ., ²G-COE, Kumamoto Univ., ³Dept. of Pediatrics, Graduate School of Medical Sciences, Kumamoto Univ., ⁴iCeMS, Kyoto Univ.) P.134

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

- 10:15 **WS2b-6** **Keeping the balance of differentiation within the stem cell precursor pool in the *Drosophila* ovary**
(P3-076)
○Shinya Matsuoka^{1,2}, Miho Asaoka^{1,2}, Yasushi Hiromi^{1,2} (¹National Institute of Genetics, ²SOKENDAI) P.134
- 10:30 **WS2b-7** **Pgc protects germ plasm RNAs from miRNA-mediated degradation in *Drosophila* primordial germ cells.**
(P3-082)
○Kazuko Hanyu-Nakamura, Kazuki Matsuda, Akira Nakamura (Lab. for Germline Dev., RIKEN CDB) P.135
- 10:45 **WS2b-8** **The germ plasm-independent mechanism for the germ cell specification in *C. intestinalis***
(P3-092)
○Maki Shirae-Kurabayashi¹, Yasunori Sasakura², Akira Nakamura³, Takashi Yamamoto¹ (¹Dept. of Math. and Life Sci., Hiroshima Univ., ²Shimoda Mar. Res. Cent., Univ. Tsukuba, ³RIKEN CDB) P.135
- 11:00 **WS2b-9** **Selective epigenetic gene regulation via DNA demethylation and bivalent histone modification in primordial germ cells.**
(P3-073)
○Kentaro Mochizuki¹, Makoto Tachibana², Mitinori Saitou³, Yuko Tokitake¹, Yasuhisa Matsui¹ (¹Inst. of Development, Aging and Cancer, Tohoku Univ., ²Inst. for Virus Res., Kyoto Univ., ³Grad. Sch. of Med., Kyoto Univ.) P.135

- 11:15 **WS2b-10** **A toxic protein in cultured cells is functional only in mammalian mature sperm formation**
(P3-070)
ONobuyoshi Takasaki¹, Kouichi Tachibana¹, Satoshi Ogasawara¹, Hideki Matsuzaki¹, Jun Hagiuda², Hiromichi Ishikawa², Keiji Mochida³, Kimiko Inoue³, Narumi Ogonuki³, Atsuo Ogura³, Toshiaki Noce⁴, Chizuru Ito⁵, Kiyotaka Toshimori⁵, Hisashi Narimatsu¹ (¹Medical Glycoscience, AIST, ²Tokyo Dental Collage, ³Riken BRC, ⁴Keio University, ⁵Chiba 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** **PRDM14 promotes active DNA demethylation through base excision repair pathway in embryonic stem cells.**
(P3-105)
OYoshiyuki Seki¹, Yuichi Kumaki², Mitinori Saitou³, Masaki Okano², Kuniaki Ebi¹ (¹Dep. of Bio., Sch. of Sci. and Tech., K.G., Univ., ²Lab. for Mam. Epi. Stud., RIKEN CDB, ³Dep. of Anat. and Cell Biol., Grad. Sch. of Med., Kyoto Univ.) P.136
- 9:15 **WS3b-2** **A transcription factor Abf1 facilitates ORC binding onto the Saccharomyces cerevisiae replication origin via histone acetylase Gcn5.**
(P3-097)
OHidetsugu Kohzaki^{1,2,3}, Kaeko Kamei^{2,4}, Yota Murakami^{1,5} (¹Dept. Cell Biol., IVR, Kyoto Univ., ²Venture Lab., Kyoto Inst. Tech, ³Japan Leukaemia Research Fund, ⁴Dept. Biomolecular Engineering, Kyoto Inst. Tech, ⁵Dept. Chem., Faculty of Science, Hokkaido Univ.) P.136
- 9:30 **WS3b-3** **Roles of actin-related proteins in chromatin function and nuclear organization**
(P3-098)
Yukako Oma¹, Hiroshi Kitamura¹, Tatsunori Konishi¹, Susan Gasser², Pavel Hozak³, OMasahiko Harata¹ (¹Lab. of Mol. Biol., Grad. Sch. of Agri. Sci, Tohoku Univ., ²Friedrich Miescher Institute for Biomedical Research, ³Department of Biology of the Cell Nucleus, Institute of Molecular Genetics ASCR, v.v.i.) P.136
- 9:45 **WS3b-4** **Meta-cis-regulation of Meis2 transcription**
(P3-110)
OTakashi Kondo, Haruhiko Koseki (RCAI, RIKEN) P.136
- 10:00 **WS3b-5** **Exportin 4 interacts with Sox9 through the HMG box and inhibits the DNA binding of Sox9**
(P3-102)
OHidesato Ogawa^{1,2}, Megumi Tsuchiya², Tokuko Haraguchi^{1,2}, Yasushi Hiraoka^{1,2} (¹Advanced ICT Research Institute Kobe, NICT, ²Graduate School of Frontier Biosciences, Osaka Univ.) P.137

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

- 10:15 **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**
(P3-101)
OYukimasa Shibata^{1,2}, Hitoshi Sawa^{2,3}, Kiyoji Nishiwaki¹ (¹Dep. of Biosci., Sch. of Sci. and Tech., Kwansei Gakuin Univ., ²RIKEN CDB, ³NIG) P.137
- 10:30 **WS3b-7** **Histone demethylase LSD1 navigates hematopoietic commitment of the hemangioblast**
(P3-109)
OMakoto Kobayashi, Mana Watanabe, Miki Takeuchi (Mol. Dev. Biol., Fac. of Med. Sci., Univ. of Tsukuba) P.137
- 10:45 **WS3b-8** **Post-translational modification of Charlatan, a Drosophila NREF/REST-like repressor, is required for neuron specific genes expression**
(P3-106)
Young-Mi Lim, Yasutoyo Yamasaki, OLeo Tsuda (National Center for Geriatrics and Gerontology) P.137
- 11:00 **WS3b-9** **Chk1 phosphorylates the tumor suppressor Mig-6, regulating the activation of EGF signaling**
(P3-113)
OMasatoshi 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** **Improving spinning disc confocal microscopy using two-photon excitation for live imaging of GFP-transgenic animals.**
(P3-119)
OTogo Shimozawa¹, Kazuo Yamagata², Hiroshi Nakayama³, Yasuhito Kosugi³, Yuko Mimori-Kiyosue¹ (¹Opt. Image Analysis Unit, RIKEN Cent. for Dev. Biol., ²Dept. of Exp. Gen. Res., Gen. Inf. Res. Cent., Res. Inst. for Micro. Dis., Osaka Univ., ³Life Sci. HQ., Prod. Mark. Sec., Yokogawa Electric Co.) P.138
- 9:15 **WS4b-2** **Kinetic analysis and live imaging of whole mouse embryo**
(P3-124)
OKenichi Nakazato¹, Atsushi Mochizuki¹, Takehiko Ichikawa², Shigenori Nonaka² (¹Theoretical Biology Laboratory, RIKEN, ²NIBB) P.138
- 9:30 **WS4b-3** **Live Imaging of Protein Kinase Activities in Transgenic Mice**
(P3-114)
OYuji Kamioka¹, Kenta Sumiyama², Rei Mizuno¹, Michiyuki Matsuda¹ (¹Grad. Sch. of Med., Kyoto Univ., ²National Institute of Genetics, Div. of Pop. Genet.) P.139
- 9:45 **WS4b-4** **Functions and spatiotemporal activation patterns of Rho family GTPases in living new neurons migrating in the postnatal mouse brain.**
(P3-126)
OTakao Hikita¹, Akihisa Ohno¹, Masato Sawada¹, Haruko Ota¹, Michiyuki Matsuda², Kazunobu Sawamoto¹ (¹Dept. of Dev. and Regene. Biol., Nagoya City Uni. Grad. Sch. of Med. Sci., ²Lab. of Bioimag. and Cell Signal., Grad. Sch. of Biostudies, Kyoto Univ.) P.139
- 10:00 **WS4b-5** **Biomolecular imaging of *C. elegans* by MALDI-IMS**
(P3-120)
OSaira Hameed¹, Yoshishige Kimura¹, Yuki Sugiura², Takahiro Hayasaka¹, Naok Goto Inoue³, Mitsutoshi Setou¹ (¹Dept. of Cell Bio. and Anatomy, Hamamatsu Univ. School of Med., Japan, ²Dept. of Medical Biochemistry, School of Med., Keio Univ., Japan, ³Graduate School of Human Health Sci., Tokyo Metropolitan Univ., Japan) P.139

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

- 10:15 **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**
(P3-116)
Daisuke Tamaoki, Toru Saruwatari, Tomonori Nakai, OYoshinobu Mineyuki (Dep. of Life Sci., Grad. Sch. of Life Sci., Univ. of Hyogo) P.139
- 10:30 **WS4b-7** **Microtubule flow in dividing plant cells as visualized by speckle microscopy**
(P3-118)
OTakashi Murata^{1,3}, Shigenori Nonaka^{2,3}, Mitsuyasu Hasebe^{1,3} (¹Div. of Evol. Biol., Natl. Inst. for Basic Biol., ²Lab. for Spatiotemporal Regul., Natl. Inst. for Basic Biol., ³Dept. of Basic Biol., Sch. of Life Sci., Grad. Univ. for Advanced Studies) P.140
- 10:45 **WS4b-8** **Improved single-molecule speckle microscopy methods which enable to analyze dynamics of various actin structures.**
(P3-123)
OSawako Yamashiro¹, Hiroaki Mizuno¹, Matthew B. Smith², Gillian L. Ryan², Dimitrios Vavylonis², Naoki Watanabe¹ (¹Tohoku University Graduate School of Life Sciences, ²Dept. of Physics, Lehigh Univ., Bethlehem, PA, USA) P.140
- 11:00 **WS4b-9** **Label-free Raman observation of cytochrome c dynamics in apoptotic cells**
(P3-115)
OMasaya Okada^{1,3}, Nicholas I. Smith², Almar F. Palonpon³, Satoshi Kawata^{1,4}, Mikiko Sodeoka^{3,4}, Katsumasa Fujita^{1,3} (¹Dept. of Appl. Phys., Univ. of Osaka, ²Immunol. Front. Res. Ctr., Univ. of Osaka, ³JST, ⁴RIKEN) P.140
- 11:15 **WS4b-10** **Fine mapping of autophagy-related proteins during autophagosome formation in *Saccharomyces cerevisiae***
(P3-122)
OKuninori Suzuki¹, Manami Akioka², Chika Kondo², Yoshinori Ohsumi² (¹Bioimaging Center, Grad. School of Frontier Sciences, Univ. of Tokyo, ²Frontier 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** **Maternal mRNA recruitment is required for DNA replication in mouse zygote**
(P3-135)
○Shin Murai¹, Yusuke Fukuda², Yukiko Katagiri², Mineto Morita², Shigeru Yamashita¹ (¹Dept of Biochem, Toho Univ, Sch of Med, ²Dept of Obst and Gyn, Toho Univ, Sch of Med) P.141
- 9:15 **WS5b-2** **The forkhead transcription factor FoxB1 mediates body axis coordination and developmental canalization during early *Xenopus* embryogenesis.**
(P3-138)
○Kimiko Takebayashi-Suzuki, Hidenori Konishi, Atsushi Suzuki (Institute for Amphibian Biology, Hiroshima University Graduate School of Science) P.141
- 9:30 **WS5b-3** **Regulation of *orthodenticle* and *Wnt/Cad* signaling pathway in anterior-posterior axis patterning during cricket early embryogenesis**
(P3-154)
○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** **Antagonizing Retinoic Acid and FGF/MAPK pathways control posterior body patterning in the invertebrate chordate *Ciona intestinalis*.**
(P3-153)
○Andrea Pasini¹, Raoul Manenti², Ute Rothbacher¹, Patrick Lemaire³ (¹IBDML Institut de Biologie du Developpement de Marseille-Luminy, CNRS, ²Universita di Milano, Milan, Italy, ³CRBM, Montpellier, France) P.141
- WS5b-5** **Withdraw**

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

- 10:00 **WS5b-6** **Comparative gene expression analysis of heterochronic development of marsupial cranial neural crest**
(P3-132)
○Yoshio Wakamatsu¹, Noriko Osumi¹, Kunihiro Suzuki² (¹Div. of Dev. Neurosci., Grad. Sch. of Med., Tohoku Univ., ²Nihon Univ. Sch. Dentistry at Matsudo) P.142
- 10:15 **WS5b-7** **Development of a new culture method for a precursor to the neural crest and pre-placodal ectoderm**
(P3-144)
○Yasuyo Shigetani, Masataka Okabe (Dep. of Anat., Jikei Univ. Sch. of Med.) P.142
- 10:30 **WS5b-8** **Conservation and diversity of *Six1* gene enhancers in chordates**
(P3-150)
○Shigeru Sato¹, Keiko Ikeda¹, Go Shioi², Kazuki Nakao², Shinichi Aizawa², Hiroshi Yajima¹, Kiyoshi Kawakami¹ (¹Div. of Biology, Ctr. for Mol. Med., Jichi Med. Univ., ²LARGE, CDB) P.142
- 10:45 **WS5b-9** **Evolution of a tissue-specific silencer underlies divergence in the expression of paralogues**
(P3-147)
○Hajime Ogino, Haruki Ochi, Tomoko Tamai, Hiroki Nagano, Akane Kawaguchi, Norihiro Sudou (Grad. Sch. of Biol. Sci., NAIST) P.143
- 11:00 **WS5b-10** **Reconsidering the mechanistic view of embryogenesis.**
(P3-129)
○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** **Analysis of pattern formation in multicellular cyanobacteria by CA model**
(P3-160)
○Jun-ichi Ishihara^{1,2}, Masashi Tachikawa², Hideo Iwasaki¹, Atsushi Mochizuki² (¹Dept. of Electr. Engin. and Biosci., Waseda Univ., ²Theoretical Biology Laboratory, RIKEN) P.143

- 9:15 **WS6b-2** **The relation of a periodic pattern formation to iterative protrusion structures in *Neobekia* leaves.**
(P3-172)
○Akiko Nakamasu¹, Nobuhiko_J Suematsu^{1,2}, Seisuke Kimura³ (¹MIMS, Meiji Univ., ²Graduate School of Advanced Mathematical Sciences, Meiji University, ³Department of Bioresource and Environmental Sciences, Kyoto Sangyo University) P.143
- 9:30 **WS6b-3** **Mathematical analysis for vascular and spot patterns by auxin and PIN dynamics in plant development**
(P3-169)
○Yoshinori Hayakawa^{1,2}, Atsushi Mochizuki^{1,2} (¹Dept Comput. Intelligence & Sys. Science, Tokyo Institute of Technology, ²Theoretical Biology Laboratory, RIKEN) P.144
- 9:45 **WS6b-4** **Building up the spiculous skeleton: the collaborative work of multiple types of cells in sponges**
(P3-178)
Yudai J Nakata¹, Kazushi Arima¹, Sohei Nakayama^{1,2}, Kiyokazu Agata¹, ONoriko Funayama¹ (¹Dept. of Biophysics, Graduate school of Science, Kyoto Univ., ²Division of Multicellular organization, National Institute of Genetics) P.144
- 10:00 **WS6b-5** **Regulation of the systemic growth by insulin-like peptides during *Drosophila* development**
(P3-175)
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** **Live cell imaging of collective migration in 3D morphogenesis of epithelial cells**
(P3-163)
○Misako Imai, Takeomi Mizutani, Kazushige Kawabata, Hisashi Haga (Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ.) P.144
- 10:30 **WS6b-7** **Dynamic calcium signals in the node of mouse embryo during the time course of left-right axis formation**
(P3-166)
○Daisuke Takao¹, Rieko Kanda¹, Tomomi Nemoto², Hiroko Kajiura-Kobayashi¹, Takehiko Ichikawa¹, Shigenori Nonaka¹ (¹Lab. for Spatiotemporal Regulations, NIBB, ²Lab. of Mol. and Cell. Biophys., RIES, Hokkaido Univ.) P.145
- 10:45 **WS6b-8** **Visualizing morphogen diffusion dynamics during lung branching morphogenesis in vitro.**
(P3-157)
○Takashi Miura (Kyoto University Graduate School of Medicine) P.145
- 11:00 **WS6b-9** **Quantitative geometrical analysis of tissue deformation during vertebrate limb development**
(P3-181)
○Yoshihiro Morishita¹, Takayuki Suzuki² (¹RIKEN CDB, ²Graduate 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 Aiyama¹, Mayuko Ishii-Inagaki¹, Naoki Tsunekawa¹, Kyoko Harikae¹, Mai Shinomura¹, Natsumi Ueki¹, Masami Kanai-Azuma³, Michio Fujiwara², Yoichi Miyamae², Masamichi Kurohmaru¹, Yoshiakira Kanai¹ (¹Dep. of Vet. Anat., Univ. of Tokyo, ²Drug Safe. Res. Labs, Astellas Pharma Inc., ³Cent. 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 Matsumura¹, Fumiko Toyoshima¹ (¹Inst. for Virus Res., Kyoto Univ., ²Grad. 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 Ishikawa¹, Tetsuya Okada^{1,5}, Yoshihito Taniguchi⁴, Tomoko Ishikawa³, Takeshi Todo³, Shunichi Takeda^{2,5}, Kazutoshi Mori^{1,5} (¹Dept. of Biophys., Grad.Sch. of Sci., Kyoto Univ., ²Dept. of Radiat Genet., Grad.Sch. of Med., Kyoto Univ., ³Dept. of Radiat Biol. and Med Genet., Grad.Sch. of Med., Osaka Univ., ⁴Dept. of Prev Med. and Public Health, Sch. of Med., Keio Univ., ⁵JST-CREST)
- P1-006** (JYSS1-3) **D Molecular mechanism of the production of neuronal diversity in the Drosophila visual center**
○Takumi Suzuki¹, Masako Kaido¹, Rie Takayama¹, Makoto Sato^{1,2} (¹Brain/Liver Interface Medicine Research Center, Kanazawa Univ., ²PRESTO)
- P1-007** **C Chronological imaging of TPA-induced ERK activation in TG mice expressing a FRET biosensor.**
○Toru Hiratsuka¹, Taichiro Nonaka², Gyohei Egawa³, Kenji Kabashima³, Michiyuki Matsuda¹ (¹Dept. of Pathol. and Dis., Grad. Sch. of Med., Kyoto Univ., ²Dept. of Evol. Med., Shiga. Med. Cent. Res. Inst. Shiga, ³Dept. of Dermatol., Grad. Sch. of Med. Kyoto Univ.)
- P1-008** **Mechanism for morphological abnormalities induced by active Ras in MDCK cyst**
○Atsuro Sakurai¹, Michiyuki Matsuda^{1,2}, Etsuko Kiyokawa³ (¹Lab. Bioimaging and Cell Signal., Grad. Sch. Biostudies., Kyoto Univ., ²Dept. Pathol Biol Dis., Grad. Sch. Med., Kyoto Univ., ³Dept. 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**
○Kenjiro Matsumoto¹, Naoki Aoyama¹, Ryo Hatori¹, Takuma Gushiken¹, Akira Ishio¹, Takahiro Seto¹, Yu Atsumi¹, Tomoko Yamakawa¹, Takeshi Sasamura¹, Kenji Matsuno^{1,2} (¹Dept.of Biol. Sci.&Technol., Tokyo Univ. of Sci., ²Res. 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 Ninagawa¹, Eri Isobe², Yuri Hirayama², Yuka Kawabata², Mami Kobayashi¹, Shigeko Torihashi^{1,2} (¹Department of Health Sciences, Nagoya University Graduate School of Medicine, ²Department 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 Takakuwa³, Philippe Gascard⁴ (¹Cent. for Geo-Environment. Sci., Akita Univ., ²Div. of Life Sci., Grad. Sch. of Eng. and Resource Sci., Akita Univ., ³Dept.of Biochem., Tokyo Women's Med. Univ., ⁴Dept. 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**
 OHajime 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**
 OMari Shimura¹, Yusuke Toyoda^{2,3}, Kenta Iijima¹, Kenzo Tokunaga⁴, Kinya Yoda⁵, Mitsuhiro Yanagida³, Tetsutaro Sata⁴, Yukihito Ishizaka¹ (¹Dept. of Intractable Diseases, Res. Inst., Nat. Center for Global Health and Med., ²Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, Germany, ³Dept. of Gene Mechanisms, Grad. Sch. of Biostudies, Kyoto Univ., ⁴Dept. of Pathology, Nat. Inst. of Infectious Diseases, ⁵Bioscience Biotech. Center, Nagoya Univ.)
- P1-015** **C** **Augmin plays a dominant role in phragmoplast microtubule generation.**
 (JYSS1-6) OTomohiro Miki, Yuki Nakaoka, Gohta Goshima (Div. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ.)
- 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**
 (JWS-A2) OYuuri Yasuoka¹, Yutaka Suzuki², Shuji Takahashi³, Norihiro Sudou¹, Yoshikazu Haramoto^{3,4}, Yukiko Tandou⁵, Kaoru Kubokawa^{5,6}, Ken W. Cho⁷, Makoto Asashima⁴, Sumio Sugano², Masanori Taira¹ (¹Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, ²Dept. of Med. Gen. Sci., Grad. Sch. of Fro. Sci., Univ. of Tokyo, ³CSLS, KOMEX, Univ. of Tokyo, ⁴SCRC, AIST, ⁵CAMR, ORI, Univ. of Tokyo, ⁶MMBS, Grad. Sch. of Sci., Univ. of Tokyo, ⁷Dept. 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.**
 ODaisuke Oikawa¹, Ryoko Akai^{1,2}, Mio Tokuda², Takao Iwawaki^{1,2,3} (¹Iwawaki lab, ASRLD Unit, Gunma Univ., ²ASI, RIKEN, ³PRESTO, JST)
- P1-018** **D** **Homeodomain-interacting protein kinase 2 promotes Wnt/ β -catenin signaling thorough stabilization of Dishevelled in vertebrate posterior development.**
 (JYSS1-7) ONobuyuki 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**
 OShun-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**
 OHidenobu Miyazawa¹, Yoshifumi Yamaguchi^{1,2}, Masayuki Miura^{1,2} (¹Dept. Genetics, Grad. Sch. Pharmaceutical Sci., Univ. of Tokyo, ²JST, CREST)
- P1-021** **Essential role of p130Cas in cutaneous mechanotransduction**
 (JYSS1-8) OMayumi Takeya¹, Keiichi Haketa¹, Shinya Kasamatsu¹, Akira Hachiya¹, Yuushi Okumura², Takeshi Nikawa², Takashi Kitahara¹ (¹Biol. Sci. Lab., Kao Corp., ²Inst of Health Biosci., Univ. of Tokushima. Grad. Schl.)
- P1-022** **D** **Heparan sulfate nanostructures regulate extracellular Wnt distribution and act as a core for Wnt/Dishevelled signalosome formation**
 (JWS-A3) OYusuke Mii¹, Kenichi Nakazato², Chan-Gi Pack³, Yasushi Sako³, Atsushi Mochizuki², Masanori Taira¹ (¹Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo, ²Theor. Biol. Lab. RIKEN, ³Cell. Inform. Lab. RIKEN)
- P1-023** **C** **Nuclear protein quality control mechanism involves HSP90 to eliminate aberrant proteins from nucleus**
 OTakeshi Mizuno¹, Miwa Higaki¹, Asami Shibuya¹, Fumio Hanaoka², Naoko Imamoto¹ (¹Cell. Dynamics lab. ASI,RIKEN, ²Faculty Sci., Gakushuin Univ)
- P1-024** **D** **Comparative analyses of expression patterns of genes involved in early development between Xenopus and Cynops.**
 (JYSS1-9) OKenta Ito^{1,2}, Chikara Hashimoto^{1,2} (¹Dept. of Biol. Sci., Sch. of Sci, Osaka Univ., ²JT Biohistory Research Hall)
- P1-025** **C** **Diphosphorylated myosin II regulatory light chain localizes to the midzone without its heavy chain during cytokinesis**
 OTomo Kondo^{1,3}, Keiju Kamijo², Kozue Hamao¹, Hiroshi Hosoya¹ (¹Dept. of Biol. Sci., Grad. Sch. of Sci., Hiroshima Univ., ²Dept. of Ana. and Ant., Grad. Sch. of Med., Tohoku Univ., ³JSPS Research Fellow)
- P1-026** **D** **Transcriptional pulsing dynamics of genes with different functions**
 (JWS-A5) OTetsuya Muramoto^{1,2}, Masahiro Ueda¹, Jonathan R Chubb^{2,3} (¹Laboratory for Cell Signaling Dynamics, Quantitative Biology Center, RIKEN, ²Divisions of Cell and Developmental Biology, College of Life Sciences, University of Dundee, ³Department 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 Choi¹, Takayuki Tamaki¹, Tomohiro Uemura¹, Takashi Ueda¹, Akihiko Nakano^{1,2} (¹Dept. of Biol. Sci., Grad. Sch. of Sci., Univ of Tokyo, ²Mol. Membrane Biol. Lab, RIKEN Advanced Science Institute)
- P1-028** **D RNA interference method in the appendicularian, *Oikopleura dioica***
 ○Tatsuya Omotezako¹, Atsuo Nishino², Hiroki Nishida¹ (¹Dept. of Biol. Sci., Osaka Univ., ²Dept. 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 Cedric², Martina Augsburg¹, Michael Kuhn¹, Mirko Theis¹, Frank Buchholz¹, Daniel Muller², Anthony Hyman¹ (¹Max Planck Institute of Mol. Cell. Biol. and Genet., ²ETH 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 Hirayama¹, Shun-ichiro Iemura³, Kazutaka Araki¹, Daisuke Morito¹, Toru Natsume², Kazuhiro Nagata¹ (¹Faculty of Life Sci., Kyoto Sangyo Univ., ²National Institute of Advanced Industrial Science and Technology, Biomedical Information Research Center, ³Fukushima 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 Ono¹, Jr-Kai Yu^{2,3}, Hiroshi Wada¹ (¹Graduate School of Life and Environmental Sciences, Univ. of Tsukuba, ²Academia Sinica, ³National 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 Okumura¹, Masayuki Miura^{1,3}, Takahiro Chihara^{1,2} (¹Dept. Genetics, Grad. Sch. Pharm. Sci., Univ. Tokyo, ²PRESTO, JST, ³CREST, JST)
- P1-036** (JYSS1-13) **Cereblon is a component of aggresome**
 ○Satoru Wakabayashi¹, Haruka Yamada¹, Toru Asahi^{1,2}, Naoya Sawamura^{1,2} (¹Faculty of Science and Engineering., Waseda Univ., ²Consolidated 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 Oda¹, Tetsuhisa Otani², Junichi Ikenouchi³, Mikio Furuse¹ (¹Div. of Cell Biol., Grad. School of Med., Univ. of Kobe, ²Lab. for Morphogenetic Signalling, RIKEN CDB, ³Dept. 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 Yamauchi¹, Katsushi Owaribe¹, Yuji Nishizawa², Yoshiaki Hirako¹ (¹Division of Biological Science, Graduate School of Science, Nagoya University, ²College of Life and Health Sciences, Chubu University)
- P1-041** **D Sox5 is involved in fate specification of pigment cell in medaka**
 ○Yusuke Nagao¹, Tomoko Adachi^{2,3}, Atsushi Shimizu⁴, Ryoko Seki², Chikako Inoue², Yasuhiro Kamei⁵, Ikuyo Hara⁶, Yoshihito Taniguchi⁷, Kiyoshi Naruse⁶, Robert N. Kelsh³, Yuko Wakamatsu², Masahiko Hibi², Hisashi Hashimoto² (¹Grad. Sch. of Sci., Nagoya Univ., ²Biosci. Biotech. Ctr., Nagoya Univ., ³Dept. of Biol. Biochem., Univ. of Bath, ⁴Dept. of Mol. Biol., Sch. of Med., Keio Univ., ⁵Spectrography and Bioimaging Facility, NIBB, ⁶Lab. of Biores., NIBB, ⁷Dept. of Preventive Medicine and Public Health, Sch. of Med., Keio Univ.)

- P1-042** **P7BP1 E3 ubiquitin ligase controls the quality of PTS2 receptor, Pex7p**
(JYSS1-15) ○Yasuhiro Miyauchi¹, Kosuke Kuroda², Satoru Mukai¹, Yukio Fujiki^{1,2} (¹Dept. of Biol., Fac. of Sci., Kyushu Univ., ²Grad. 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** **The pronuclear formation from sperm nuclei in the cell-free system from mouse oocytes**
(JYSS1-16) ○Fukashi Inoue¹, Kaori Yamada¹, Tadashi Yamamoto¹, Takeo Kishimoto², Miho Ohsugi¹ (¹Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo, ²Dep. 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** **C The protective influence of syntaxin3 from the oxidative stress in HaCaT keratinocytes**
(JYSS1-17) ○Takafumi Miyazaki, Yohei Hirai (Dep. Bioscience., Grad. Sch. Sci. Technol., Kansai Gakuin Univ.)
- P1-049** **D Primordial germ cells transmigrate from blood stream to gonad in avian: novel behavior revealed by live-imaging analyses**
(PFT-3) ○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 Uemura¹, Chieko Saito², Kazuo Ebine¹, Takashi Ueda¹, Paul Schulze-Lefert³, Akihiko Nakano^{1,2} (¹Grad. Sch. Sci., Univ. of Tokyo, ²RIKEN, ASI, ³Max Planck Institute for Plant Breeding Research)
- P1-051** **Targeted disruption of EGFP transgene in *Xenopus laevis* using customized transcription activator-like effector nucleases (TALENs)**
(JYSS1-18) ○Ken-ichi T. Suzuki¹, Keiko Kashiwagi², Tetsushi Sakuma², Yukiko Isoyama², Hiroshi Ochiai³, Akihiko Kashiwagi², Takashi Yamamoto² (¹CMES, Ehime Univ. and Hiroshima Univ., ²Graduate School of Science, Hiroshima University, ³Research 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 Ishio¹, Tomonori Ayukawa¹, Naoki Aoyama¹, Takeshi Sasamura¹, Kenjiroo Matsumoto¹, Hiroyuki O. Ishikawa^{1,2}, Tetsuya Okajima³, Kenji Matsuno¹ (¹Department of Biological Science and Technology, Tokyo University of Science, ²G&DRC, Tokyo University of Science, ³Department 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 Xiaoming¹, Hayato Yokoi¹, Yuichiro Fujinami², Daisuke Shimizu², Susumu Uji³, Tohru Suzuki¹ (¹Grad.Sch.of Agri.Sci., Tohoku Univ., ²Tohoku Natl.Fis.Res.Inst., ³Natl.Res.Inst. of Aqu., ⁴JSPS Research Fellow)
- P1-054** **C A Novel Microtubule Binding Protein, MARKAP, plays essential roles for the Golgi-Ribbon Formation by Regulating Golgi-Nucleated Microtubules**
(JYSS1-19) ○Yoshinori Satoh¹, Kenji Hayashi², Yoshiko Amano², Takahisa Maki³, Ikuko Hayashi³, Shigeo Ohno¹, Atsushi Suzuki² (¹Dep. Mol. Cel. Biol., Grad. Sch. of Med., Yokohama City Univ., ²Div. Med. Biosci. Dep. Mol. Cel., Grad. Sch. of Med., Yokohama City University, ³Supramol. 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, Masamitsu Kuroumaru, Yoshiakira Kanai (Dept. of Vet. Anatomy, Univ. of Tokyo)
- P1-056** **C Dynamics of the Golgi Apparatus in Plant Cells**
○Yoko Ito¹, Tomohiro Uemura¹, Keiko Shoda², Masaru Fujimoto¹, Takashi Ueda¹, Akihiko Nakano^{1,2} (¹Grad. Sch. of Sci., Univ. of Tokyo, ²RIKEN 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 Yasuda¹, Tomoya Kotani², Masakane Yamashita² (¹Grad. Sch. of Life Sci., Hokkaido Univ., ²Dept. of Biol. Sci., Fac. of Sci., Hokkaido Univ.)
- P1-058** (JWS-A6) **G Mitochondrial dysfunction drives non-autonomous tumor progression in *Drosophila***
 ○Shizue Ohsawa¹, Yoshitaka Sato¹, Masato Enomoto¹, Mai Nakamura¹, Aya Betsumiya¹, Tatsushi Igaki^{1,2} (¹Dept. of Cell Biol., G-COE, Kobe Univ. Grad. Sch. of Med., ²PRESTO, 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 Sakaki¹, Aki Yonezumi-Hayashi^{1,2,6}, Keiko Gengyo-Ando^{1,2,3}, Hideshi Inoue⁴, Yuichi Iino⁵, Shohei Mitani^{1,2,7} (¹Tokyo Women's Medical Univ. Dept. Physiol., ²CREST, JST, ³Saitama Univ. Brain Science Institute, ⁴Tokyo Univ. of Pharmacy and Life Sciences, ⁵Dept. of Biochemistry and Biophysics, Univ. of Tokyo, ⁶Dept. of Allergy and Rheumatology, Univ. of Tokyo, ⁷TIIMS, Tokyo Women's Medical Univ.)
- P1-060** (JYSS1-21) **C Dynamin affects cytokinesis in Dictyostelium cells**
 ○A.Y.K. MD. MASUD RANA¹, Shinya Miyagishima², Shigehiko Yumura¹ (¹Department of Functional Molecular Biology, Graduate School of Medicine, Yamaguchi University, ²Symbiosis and Cell Evolution Lab, Center for Frontier Research, National Institute of Genetics, 1111 Yata, Mishima, Shizuoka 411-8540)
- P1-061** **Arsenite-induced downregulation of catalase via c-Met- and PI3K- dependent mechanisms in HepG2 cells**
 ○Soohee Kim¹, Seung Heon Lee¹, Seungwoo Lee¹, Sukmo Kang¹, Jung-Duck Park², Doug-Young Ryu¹ (¹College of Veterinary Medicine, Seoul National University, ²College of Medicine, Chung-Ang University)
- P1-062** **G Movement of cortical actin cables is driven by type V myosins in interphase fission yeast cells.**
 ○Jun Kashiwazaki, Issei Mabuchi (Dept. of Life Sci., Fac. 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 Sakuma¹, Vladimir I Gelfand⁵, Liqun Luo⁴, Masayuki Miura^{1,3}, Takahiro Chihara^{1,2,4} (¹Dept. Genetics, Grad. Sch. Pharm. Sci, Univ. Tokyo, ²PRESTO, JST, Japan, ³CREST, JST, Japan, ⁴HHMI, Dept. Biol., Stanford Univ. USA, ⁵Dept. 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 Torii¹, Ni Hou¹, Hideo Mogami² (¹Inst. of Mol. Cell. Reg., Gunma Univ., ²Dpt. 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 Oyama¹, Yasuaki Mohri¹, Mizuki Sone¹, Akihiro Nawa², Katsuhiko Nishimori¹ (¹Lab. of Mol. Biol. Grad. Sch. of Agric. Science, Tohoku University, ²Dept. 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 Shinotsuka¹, Yoshifumi Yamaguchi^{1,2}, Keiko Nonomura¹, Ayako Yoshida¹, Kiwamu Takemoto^{3,4}, Keisuke Kuida⁵, Hiroki Yoshida⁶, Masayuki Miura^{1,2} (¹Dep. of Genetics, Grad. of Pharm. Sci., Univ. of Tokyo, ²CREST, ³Grad. Sch. Med., Yokohama City Univ., ⁴PREST, ⁵Millennium, The Takeda Oncology Company, ⁶Grad. 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 Yoshino¹, Daisuke Saito¹, Chihiro Uchiyama¹, Kiyotoshi Sekiguchi², Yuji Atsuta¹, Yoshiko Takahashi¹ (¹Bio., NAIST, ²IPR, Osaka Univ.)
- P1-072** (JYSS2-3) **G Rab33a mediates anterograde vesicular transport for membrane exocytosis and axon outgrowth**
 ○Hitomi Nakazawa¹, Tadayuki Sada¹, Michinori Toriyama¹, Kenji Tago¹, Tadao Sugiura², Mitsunori Fukuda³, Naoyuki Inagaki¹ (¹Grad. Sch. of Biol. Sci., Nara Inst. of Sci. and Technol., ²Grad. Sch. of Inform. Sci., Nara Inst. of Sci. and Technol., ³Grad. 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** **C Exophilin7 promotes fusion of undocked granule in pancreatic β cells**
 (JYSS2-4) ○Ray Ishizaki, Hao Wang, Jun Xu, Kazuo Kasai, Hiroshi Gomi, Tetsuro Izumi (Dept. of Molecular Medicine, IMCR, Gunma Univ.)
- P1-076** **D Conserved role for the Dachshund protein with *Drosophila* Pax6 homolog Eyeless in insulin expression**
 (JWS-A7) ○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** **C The impact of extracellular syntaxin4 on HaCaT keratinocyte behavior**
 (JYSS2-5) ○Nanako Kadono¹, Yoji Okugawa¹, Kiichiro Nakajima², Yohei Hirai¹ (¹Dep. Bioscience., Grad. Sch. Sci. Technol. Kwansai Gakuin Univ., ²KNC Laboratories, KNC bioresearch center)
- P1-079** **C Dynamic Organization of Paracrystalline Actin Bundles by IKKepsilon**
 (JWS-A8) ○Tetsuhisa Otani¹, Takuya Maeda¹, Kazuyo Misaki², Shigenobu Yonemura², Shigeo Hayashi¹ (¹RIKEN CDB, Lab for Morphogenetic Signaling, ²RIKEN CDB, Electron microscope laboratory)
- P1-080** **D A Myelin Gene Regulatory Transcription Factor Regulates Cell Differentiation**
 (JYSS2-6) ○Hiroshi Senoo¹, Tsuyoshi Araki², Masashi Fukuzawa¹, Jeffrey G. Williams² (¹Department of Biology, Faculty of Agriculture and Life Science, University of Hirosaki, ²College 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 Yamada¹, Junji Sagara¹, Yukihiro Kobayashi², Atsushi Uchiyama¹, Kenji Sano² (¹Dept. of Biomedical Lab Sci., Grad. Sch. of Med., Univ. of Shinshu, ²Shinshu university hospital clinical laboratory)
- P1-082** **D Genome-wide view of transcriptional programs governing neuronal subtype-specific dendrite morphogenesis in vivo**
 (JWS-A9) ○Yukako Hattori¹, Tadao Usui¹, Daisuke Satoh¹, Kohei Shimono¹, Takehiko Itoh², Katsuhiko Shirahige³, Tadashi Uemura¹ (¹Grad. Sch. of Biostudies, Kyoto Univ., ²Grad. Sch. of Biosci. and Biotech., Tokyo Inst. of Tech., ³Inst. of Mol. and Cell. Biosci., Univ. of Tokyo)
- P1-083** **Correction error of kinetochore-microtubule attachment induces mitotic centrosome disintegration**
 (JYSS2-7) ○Kenji Iemura, Tadashi Yamamoto, Miho Ohsugi (Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo)
- P1-084** **C Cortactin functions as a clutch molecule to promote axon outgrowth**
 (JWS-A10) ○Yusuke Kubo¹, Michinori Toriyama¹, Tadao Sugiura², Naoyuki Inagaki¹ (¹Grad. School of Biol. Sci., Nara Inst. of Sci. and Technol., ²Grad. 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** **D Spatiotemporally controlled cell-cycle transitions coupled to anterior-posterior axis formation in a chordate.**
 (JYSS2-8) ○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. Sakurai¹, Yuki Ozaki¹, Yoko Naito¹, Akihiko Ito², Norikazu Yabuta¹, Hiroshi Nojima¹ (¹Dept. of Mol. Genet., Res. Inst. for Microbial Diseases, Osaka Univ., ²Dept. of Pathology, Kinki Univ. School of Medicine)
- P1-089** **D Mathematical analysis of growth control mechanisms in the *Drosophila* wing disc**
 (JYSS2-9) ○Ken-ichi Hironaka¹, Yoshihiro Morishita² (¹Math. Bio. Lab., Grad. Sch. of Sys. Life Sci., Kyushu Univ., ²Lab. for Dev. Morphogeometry, RIKEN CDB)

- P1-090** (PFT-5) **📄 Biased assembly of the nuclear pore complex determines nuclear differentiation in the ciliate *Tetrahymena thermophila***
 ○Masaaki Iwamoto¹, Takako Koujin¹, Fumihide Bunai¹, Hiroko Osakada¹, Chie Mori¹, Haruhiko Asakawa^{1,2}, Yasushi Hiraoka^{1,2,3}, Tokuko Haraguchi^{1,2,3} (¹Advanced ICT Research Institute, NICT, ²Grad. Sch. of Front. Biosci., Osaka Univ., ³Grad. Sch. of Sci., Osaka Univ.)
- P1-091** **📄 Coping With Stress in Hypertrophic Chondrocytes: The Role of PERK Pathway**
 ○WANG Cheng¹, Zhijian Tan¹, Kwok Yeung Tsang¹, Keith Leung¹, David Ron², Danny Chan¹, Kathryn Cheah¹ (¹Dept. of Biochemistry, The University of Hong Kong, ²Kimmel Center for Biology and Medicine, Skirball Institute, New York University School of Medicine)
- P1-092** (JYSS2-10) **📄 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 Shigeta³, Hitoshi Niwa³, Mitinori Saitou^{1,2} (¹Grad. Sch. Med., Kyoto Univ., ²ERATO, JST, ³RIKEN CDB)
- P1-093** **📄 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** **📄 *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 Arishige¹, Yumiko Harada², Keita Fujimoto¹, Lily Shimooka¹, Ryutaro Murakami¹ (¹Grad. Sch. Med., Yamaguchi Univ., ²Grad. Sch. Sci. Eng., Yamaguchi Univ.)
- P1-095** (JYSS2-11) **📄 Chemical screening of protein kinase affected mitochondrial ATP synthesis.**
 ○Kanakano Sugawara^{1,2}, Makoto Fujikawa^{1,3}, Masasuke Yoshida^{1,2} (¹JST, ICORP, ATP-synthesis Regulation Project, ²Faculty of Life Science, Kyoto Sangyo University, ³Department of Biochemistry, Faculty of Pharmaceutical Sciences, Tokyo University of Science)
- P1-096** (JWS-A11) **📄 Nodal/Activin promotes sex differentiation of male germ cells through MAPK P38 signaling pathway**
 ○Quan Wu^{1,2}, Rie Saba¹, Kohei Kanata³, Hiroshi Hamada³, Yumiko Saga¹ (¹NIG, ²SOKENDAI, ³GSFB, Osaka University)
- P1-097** **📄 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) **📄 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** **📄 An essential role for type IIA procollagen in mouse inner ear development**
 ○Michael W.H. Kwong¹, Snadra YY Wong¹, Kathryn SE Cheah¹, Patrick P.L. Tam², Bernd Fritschsch³ (¹Department of Biochemistry, The University of Hong Kong, Li Ka Shing Faculty of Medicine, 21 Sassoon Rd, Hong Kong, China., ²Embryology Unit, Children Medical Research Institute, Sydney, New South Wales, Australia, ³Department 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 Kondo², Jun-Ichi Takai², Chikara Kaito³, Senji Takahashi², Kazuei Igarashi⁴ (¹Department of Judo Therapy, Faculty of Medical Technology, Teikyo University, ²Department of Biosciences, School of Science and Engineering, Teikyo University, ³Graduate School of Pharmaceutical Sciences, University of Tokyo, ⁴Graduate School of Pharmaceutical Sciences, Chiba University)
- P1-101** (JYSS2-13) **📄 The LIM-homeodomain factors regulate early eye development in the chick**
 ○Junji Inoue¹, Takumi Kawae¹, Satoshi Ishihara¹, Yuuki Ueda¹, Sumihare Noji¹, Hideyo Ohuchi^{1,2} (¹Department of Life Systems, Institute of Technology and Science, The University of Tokushima, ²Department 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 Abe¹, Maximiliano L. Suster^{1,2}, Koichi Kawakami^{1,3} (¹Div. of Mol. and Dev. Biol., NIG, ²SIC, Univ. of Bergen, Norway, ³Dep. of Genetics, Grad. Univ. for Advanced Studies)
- P1-103** (JWS-A12) **📄 A localized factor polarizes mesendoderm cells and separates mesoderm and endoderm fates in the ascidian embryo.**
 ○Naohito Takatori (Osaka University)
- P1-104** (JYSS2-14) **📄 *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 Homma¹, Shuhei Chiba¹, Yuta Amagai¹, Shinichiro Kanno², Akira Yasui², Mitsunori Fukuda³, Kensaku Mizuno¹ (¹Dept. Biomol. Sci., Grad. Sch. Life Sci., Tohoku Univ., ²IDAC, Tohoku Univ., ³Dept. Dev. Biol. & Neurosci., Grad. Sch. Life Sci., Tohoku Univ.)
- P1-108** **D Spatiotemporal repression coordinates projection neuron production onset in the cerebral cortex**
 ○Takuma Kumamoto¹, Ken-ichi Toma^{1,2}, Gunadi Gunadi¹, Will McKenna³, Takeya Kasukawa⁴, Bin Chen³, Carina Hanashima¹ (¹Laboratory for Neocortical Development, RIKEN CDB, ²Department of Biology, Graduate School of Science, Kobe University, ³Department of Molecular, Cell and Developmental Biology, UCSC, ⁴Functional Genomics Unit, RIKEN CDB)
- P1-109** **C De-ubiquitinating enzyme for a moyamoya disease-susceptible protein, Mysterin**
 (JWS-B1) ○Yuri Kotani¹, Daisuke Morito¹, Shunichiro Iemura², Toru Natsume², Kazuhiro Nagata¹ (¹Faculty of Biological Sciences, Kyoto Sangyo Univ., ²AIIST)
- 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 Okada¹, Taro Hara¹, Megumi Ogino¹, Kohko Kumano¹, Yukio Nishina² (¹Grad. of Nanobiosci., Yokohama City Univ., ²Graduate 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 Guo¹, Tiffany Au¹, Sarah Wynn¹, Danny Chan¹, Attila Asodia², Reinhard Fassler³, K.S.E Cheah¹ (¹Dept. of Biochemistry, Univ. of Hong Kong, ²Ludwig-Maximilians-University, Munich, ³Max Planck Institute of Biochemistry, Martinsried, Germany)
- P1-113** **C Vinexin alters properties of focal adhesion depending on extracellular matrix stiffness**
 (JYSS2-17) ○Takafumi Ichikawa¹, Hiroshi Yamashita¹, Yasuhisa Kimura¹, Ichiro Harada³, Kazumitsu Ueda^{1,2}, Noriyuki Kioka¹ (¹Div. of Appl. Life Sci., Grad. Sch. of Agri., Kyoto Univ., ²iCeMS, Kyoto Univ., ³Dep. Biomol. Eng., Grad. Sch. of Biosci and Biotech., Tokyo Inst. of Tech.)
- P1-114** **D Microtubule-dependent dorsal determination in zebrafish**
 ○Hiromu Hino¹, Ryoko Seki², Tran D. Long³, Karuna Sampath³, Takashi Shimizu^{1,2}, Masahiko Hibi^{1,2} (¹Univ. of Nagoya, ²Bioscience and Biotechnology Center, Nagoya University, ³Temasek 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 Uchikawa¹, Masato Yasui¹, Masahiro Ueda¹, Kei Inouye² (¹Graduate School of Frontier Biosciences, Osaka Univ., ²Department 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 moisturization**
 (JWS-B11) ○Takeshi Matsui^{1,2}, Kenichi Miyamoto³, Akiharu Kubo^{4,5}, Hiroshi Kawasaki⁴, Tamotsu Ebihara⁴, Kazuya Hata⁶, Shizuko Ichinose⁷, Issei Imoto^{8,9}, Johji Inazawa⁸, Jun Kudoh³, Masayuki Amagai⁴ (¹iCeMS, Kyoto Univ., ²MTT, Med. Res. Inst., Tokyo Med. & Dent. Univ., ³Lab. of Gene Med., Keio Univ. Sch. of Med., ⁴Dept. of Dermatol., Keio Univ. Sch. of Med., ⁵Center for Integ. Med. Res., Keio Univ. Sch. of Med., ⁶Sunplanet Co. Ltd, ⁷Res. Cent. for Med. & Dent. Sci., Tokyo Med. & Dent. Univ., ⁸Dept. of Mol. Cytogenet., Med. Res. Inst. & Sch. of Biomed. Sci., Tokyo Med. & Dent. Univ., ⁹Dept. 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**
 ORyo Nabeshima¹, Takako Maeda¹, Mami Ohsugi², Chikara Meno³, Yasuo Sakai⁴, Kenta Yashiro⁵, Hiroshi Hamada¹
 (¹Developmental Genetics Group Graduate School of Frontier Biosciences OSAKA UNIVERSITY, ²Laboratory of Cellular and Developmental Biology, NIDDK, National Institutes of Health, ³Department of Developmental Biology, Graduate School of Medical Sciences, Kyushu University, ⁴Department of Plastic Surgery, Osaka University School of Medicine, ⁵William Harvey Research Institute, Barts & The London School of Medicine & Dentistry, Queen Mary University of London)
- P1-119** **D** **Analysis of Notch signaling pathway in the water flea, *Daphnia magna*.**
 (JYSS2-19) OMasaki 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**
 OKohei Kanata, Hidetada Shiratori, Hiroshi Hamada (Developmental Genetics Group Graduate School of Frontier Biosciences OSAKA UNIVERSITY)
- P1-121** **D** **Neurotransmitter receptors are essential for controlling developmental transition via steroid hormone biosynthesis in *Drosophila***
 (JWS-B9) OYuko Shimada-Niwa, Jevgenija Maramzina, Ryusuke Niwa (Grad. School of Life and Environmental Sciences, Univ. of Tsukuba)
- P1-122** **C** **The functional and morphological control of B16 melanoma cells by syntaxin3**
 (JYSS2-20) OMichiko Shono, Ryosuke Yoshioka, Yohei Hirai (Dept. Life Sci., Univ. of Kwansai Gakuin)
- P1-123** **D** **Further simple method for in-tube whole-mount in situ hybridization in *C.elegans* embryos**
 OSatoshi 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**
 OYuji 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** **D** **Melanosome transfer during skin pigmentation: a novel method to study intercellular signaling between melanocytes and keratinocytes *in vivo***
 (JYSS2-21) OHidetaka Murai, Ryosuke Tadokoro, Ken-ichiro Sakai, Yoshiko Takahashi (Nara Institute of Science and Technology)
- P1-126** **C** **Cell movement on cilia in the statolith formation of ctenophore**
 (JWS-B4) ONaoki Noda (Marine Biological Laboratory)
- P1-127** **Translational control of *cyclin B1* mRNA by RNA granule formation in vertebrate oocytes**
 OTomoya Kotani¹, Kyota Yasuda², Ryoma Ota¹, Masakane Yamashita¹ (¹Fac. of Sci., Hokkaido Univ., ²Grad. Sch. of Life Sci., Hokkaido Univ.)
- P1-128** **D** **Advanced methods for the construction, evaluation and application of TALENs**
 (JYSS2-22) OTetsushi Sakuma^{1,2}, Sayaka Hosoi¹, Hiroshi Ochiai^{2,3}, Tatsuya Miyamoto³, Shinya Matsuura³, Naoaki Sakamoto³, Sumihare Noji⁴, Takashi Yamamoto¹ (¹Dept. of Math. and Life Sci., Grad. Sch. of Sci., Hiroshima Univ., ²JSPS Research Fellow, ³Dept. of Rad. Biol., Res. Inst. for Rad. Biol. and Med., Hiroshima Univ., ⁴Dept. 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 undifferentiated spermatogonia in mouse**
 OJidong Zhang¹, Satomi Yamada¹, Ko Eto¹, Kazuki Nakao², Hiroshi Kiyonari², Shin-ichi Abe¹ (¹GSST, Kumamoto Univ., ²CDB, RIKEN)
- P1-130** **D** **Apoptosis facilitates mammalian early brain development by eliminating morphogen-producing cells**
 (JWS-B3) OKeiko Nonomura¹, Yoshifumi Yamaguchi^{1,2}, Misato Hamachi¹, Masato Koike³, Yasuo Uchiyama³, Hiroki Yoshida⁴, Keisuke Kuida⁵, Masayuki Miura^{1,2} (¹Dept. Genetics, Grad. Sch. Pharm. Sci., Univ. Tokyo, ²CREST, JST, ³Juntendo University, ⁴Saga Univ. Med. Sch., ⁵Millennium: The Takeda Oncology Company)
- P1-131** **C** **Live-cell imaging of sperm cell delivery during double fertilization in *Arabidopsis thaliana***
 (JYSS3-1) OYuki Hamamura¹, Tetsuya Higashiyama^{2,3} (¹Live-imaging center, Nagoya Univ., ²Divi. Sci., Nagoya Univ., ³JST, ERATO)
- P1-132** **C** **Imaging of temperature distribution in living cells**
 OKohki Okabe¹, Seiichi Uchiyama¹, Noriko Inada², Yoshie Harada³, Takashi Funatsu¹ (¹Grad. Sch. of Pharm. Sci., Univ. of Tokyo, ²Grad. Sch. of Biol. Sci., NAIST, ³Inst. 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** **C Role of Adf1 in the process of formation and contraction of the contractile ring in fission yeast cells.**
 (JYSS3-2) ○Ei-ichi Uyeda, Jun Kashiwazaki, Issei Mabuchi (Dept. of Life Sci., Facult. of Sci., Gakushuin Univ.)
- P1-135** **D TAG1 shapes neural progenitor cells and regulates interkinetic nuclear migration and histogenesis in the developing neocortex**
 ○Mayumi Okamoto¹, Takashi Namba², Kozo Kaibuchi², Takaki Miyata¹ (¹Dept. Anat. and Cell Biol., Nagoya Univ. Grad. Sch. of Med., ²Dept. 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** **C Temperature dependency of Ca²⁺ dynamics in a migrant cell.**
 (JYSS3-3) ○Hideki Itoh¹, Madoka Suzuki^{2,3}, Kotaro Oyama¹, Shin'ichi Ishiwata^{1,2,3} (¹Dept. of Pure and Appl. Phys., Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., ²WABIOS, Waseda Univ., ³Org. Univ. Res. Init., Waseda Univ.)
- P1-138** **D In vivo imaging of medaka fracture healing reveals that cyclooxygenase-2 plays an important role in inducing osteoclasts for bone remodeling.**
 (PFT-7) ○Kazuhiro Takeyama¹, Masahiro Chatani¹, Yoshiro Takano², Akira Kudo¹ (¹Dept. of Biological Information, Tokyo Tech, ²Sect. Biostructural Science, Grad. Sch. of TMDU)
- P1-139** **C Methotrexate 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** **C Evolution of ER stress response -UPR in *Ciona intestinalis*-**
 (JYSS3-4) ○Shogo Yamaguchi¹, Ryotarou Senoo¹, Daisuke Mimaki¹, Tokiro Ishikawa¹, Yutaka Satou², Kazutoshi Mori¹ (¹Department of Biophysics, Graduate School of Science, Kyoto University, ²Department 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 Takaichi¹, Keigo Shimada¹, OMisa Sugiura¹, Hideo Kubo², Keisuke Morichika¹, Tsutomu Kinoshita¹ (¹Dept. Life Science, Univ. Rikkyo, ²Tokyo Metro. Inst.)
- P1-142** **D Regulation of hole size in basement membrane during cell invasion in *C. elegans***
 (JWS-B5) ○Shinji Ihara¹, David Sherwood², Hitoshi Sawa¹ (¹Multicellular Organization Laboratory, National Institute of Genetics, ²Duke University)
- P1-143** **D The active stem cell specific expression of sponge Musashi homolog *Ef1MsIA* suggests its involvement in maintaining the stem cell state**
 (JYSS3-5) ○Kazuko Okamoto¹, Mikiko Nakatsukasa², Alexandre Alie¹, Kiyokazu Agata¹, Noriko Funayama¹ (¹Dept. Biophys. Grad. Sch. Sci., Kyoto univ., ²CDB, RIKEN)
- P1-144** **C Analyses on the roles of two actin-binding domains of D411-2p protein involved in cytokinesis of *Dictyostelium***
 ○Hironori Inaba¹, Issei Mabuchi², Koji Yoda¹, Hiroyuki Adachi¹ (¹Dep. of Biotech., Grad. of Agr. and Life Sci., Univ. of Tokyo, ²Sch. 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** **D Raldh2, an enzyme involved in retinoic acid (RA) biosynthesis, is essential for osteogenesis in the medaka vertebral column.**
 (JYSS3-6) ○Mai Tasaki, Keiji Inohaya, Satoshi Ohisa, Akira Kudo (Dept. Biol. Info., Tokyo. Inst. Tech.)
- P1-147** **C Coordinated Ciliary Beating Requires Odf2-Mediated Polarization of Basal Bodies via Basal Feet**
 (JWS-B6) ○Koshi Kunimoto¹, Yuji Yamazaki¹, Tomoki Nishida¹, Kyosuke Shinohara¹, Hiroaki Ishikawa², Toshiaki Hasegawa¹, Takeshi Okanou³, Hiroshi Hamada¹, Tetsuo Noda⁴, Atsushi Tamura¹, Shoichiro Tsukita⁵, Sachiko Tsukita¹ (¹Osaka Univ., ²UCSF, ³Saiseikai Suita Hosp., ⁴Cancer Inst. of Japanese Foundation for Cancer Res., ⁵Kyoto Univ.)
- P1-148** **D Immunoelectron microscopic studies of the ectopic β -subunit of ATP synthase in the ascidian egg**
 ○Hirokazu Ishii¹, Manabu Tanaka², Kyoko Hatano², Takahito Nishikata^{1,3} (¹FIRST, Konan Univ., ²GSHES, Kyoto Univ., ³FIBER, Konan Univ.)

- P1-149** **Modelling wave propagation dynamics in MDCK wound healing assay.**
(JYSS3-7) ○Yusuke Sawabu¹, Masaharu Nagayama², Takashi Miura³, Hiroyuki Kitahata⁴ (¹Div. of Math. and Phys. Sci., Inst. of Nat. Sci. and Tech., Kanazawa Univ., ²Fac. of Math. and Phys., Inst. of Sci. and Eng., Kanazawa Univ., ³Dept. of Anat. and Dev. Bio., Kyoto Univ. Grad. Sch. of Med., ⁴Dept. of Phys., Chiba Univ., Grad. Sch. of Sci.)
- P1-150** **▣ Prenatal jaw movement affects molecular cascade in the mandibular condylar cartilage development**
○Esrat Jahan¹, Matsumoto Akihiro¹, Ryuju Hashimoto¹, Ashiq Mahmood Rafiq¹, Jun Udagawa³, Joji Sekine², Hiroki Otani¹ (¹Department of Developmental Biology, Faculty of Medicine, Shimane University, ²Department of Oral and Maxillofacial Surgery, Faculty of Medicine, Shimane University, ³Department of Anatomy, Shiga University of Medical Science, Otsu, Japan.)
- P1-151** **Identification of nuclear localization signals to distinguish macronucleus and micronucleus in binucleated *Tetrahymena thermophila***
○Tokuko Haraguchi^{1,2,3}, Masaaki Iwamoto¹, Hiroko Osakada¹, Chie Mori¹, Koji Nagao⁴, Chikashi Obuse⁴, Yasushi Hiraoka^{1,2,3} (¹Advanced ICT Res. Inst. Kobe, NICT, ²Grad. Sch. of Sci., Osaka Univ., ³Grad. Sch. of Frontier Biosci., Osaka Univ., ⁴Grad. Sch. of Life Sci., Hokkaido Univ.)
- P1-152** **▣ Phosphorylation form of hormone-sensitive lipase responsible for shrinking of lipid droplets in adipocytes**
○Masafumi Nagayama¹, Hiromu Watanabe¹, Kyoko Shimizu², Toshio Taira², Tsutomu Uchida¹, Kazutoshi Gohara¹ (¹Div. of Appl. Phys., Fac. of Eng., Hokkaido Univ., ²Primary Cell Co., Ltd.)
- P1-153** **▣ The Regulation of FGF Signaling by MT1-MMP in Calvarial Osteogenesis**
(JWS-B7) H. L. X. Wong, K. M. Chan, OZ. Zhou (Dep. of Biochemistry, Li Ka Shing Faculty of Med., Univ. of Hong Kong)
- P1-154** **▣ Morphology-based Prediction of Differentiation Potential of Mesenchymal Stem Cells**
○Hiroto Sasaki¹, Ichiro Takeuchi², Rumi Sawada³, Hiroyuki Honda¹, Ryuji Kato⁴ (¹Graduate School of Engineering, Nagoya University, ²Nagoya Institute of Technology, ³Division of Medical Devices, National Institute of Health Sciences, ⁴Graduate School of Pharmaceutical Sciences, Nagoya University)
- P1-155** **▣ Efficient production of knockout crickets using zinc-finger nucleases**
(JYSS3-9) ○Takahito Watanabe¹, Hiroshi Ochiai², Tetsushi Sakuma², Taro Nakamura¹, Tetsuya Bando¹, Taro Mito¹, Hideyo Ohuchi¹, Takashi Yamamoto², Sumihare Noji¹ (¹Dept. of Life Systems, Inst. of Tec. and Sci., Univ. of Tokushima, ²Dept. of Math. and Life Sci., Grad. School of Sci., Hiroshima Univ.)
- P1-156** **▣ PI3K-Akt pathway controls Polo-like kinase 1 (Plk1)**
(PFT-8) ○Kousuke Kasahara^{1,2}, Hidemasa Goto^{1,3}, Ichiro Izawa¹, Nobumoto Watanabe⁴, Tohru Kiyono⁵, Masaki Inagaki^{1,3} (¹Div. of Biochem., Aichi Cancer Ctr. Res. Inst., ²Dept. of Oncol., Grad. Sch. of Pharm. Sci., Nagoya City Univ., ³Dept. of Cell. Oncol., Grad. Sch. of Med., Nagoya Univ., ⁴Chem. Biol. Core Fac., Chem. Biol. Dept., RIKEN ASI, ⁵Div. of Virol., Natl. Cancer Ctr. Res. Inst.)
- P1-157** **▣ Epigenetic factors and the capacity for heart regeneration in mammals.**
○Ryo Nakamura^{1,2}, Kazuko Koshiba Takeuchi^{1,2}, Yuko Tsukahara¹, Mizuyo Kojima¹, Jun K. Takeuchi^{1,2,3} (¹Cardiovas. Reg., IMCB, the University of Tokyo, ²Graduate School of Sciences, the University of Tokyo, ³JST, PRESTO)
- P1-158** **▣ Decrease of the nuclear pore complex density during human erythroid terminal differentiation**
(JYSS3-10) ○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. Ishikawa¹, Aiguo Xu², Eri Ogura¹, Gerard Manning³, Kenneth D. Irvine² (¹Grad Sch Sci, Chiba Univ, ²HHMI/Waksman Inst, Rutgers Univ, USA, ³Salk Inst, USA)
- P1-160** **▣ Live imaging analyses of melanosome-transfer in the developing skin**
(JWS-B2) ○Ryosuke Tadokoro, Hidetaka Murai, Kenichiro Sakai, Takahiro Okui, Yoshiko Takahashi (Grad. Sch. of Biol. Sci., NAIST)
- P1-161** **▣ Cohesin Controls Planar Cell Polarity by Regulating the Level of the Seven-Pass Transmembrane Cadherin Flamingo**
(JYSS3-11) ○Kousuke Mouri¹, Shin-ya Horiuchi¹, Tadashi Uemura^{1,2} (¹Kyoto Univ., ²CREST, JST)
- P1-162** **▣ Roles of mDia, a Rho effector and actin nucleator, in neuroepithelium integrity and neuroblast migration**
(JWS-B8) ○Dean Thumkeo¹, Ryota Shinohara¹, Keisuke Watanabe², Hirohide Takebayashi², Naoko Kaneko³, Kazunobu Sawamoto³, Toshimasa Ishizaki¹, Tomoyuki Furuyashiki¹, Shuh Narumiya¹ (¹Department of Pharmacology, Kyoto University Faculty of Medicine, ²Division of Neurobiology and Anatomy, Niigata University, ³Department 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 Nagayama⁴, Takeo Matsumoto⁴, Makoto Suzuki^{1,2}, Naoto Ueno^{1,2} (¹Dept. of Basic Biol., School of Life Sci., SOKENDAI, ²Div. of Morphogenesis, NIBB, ³JSPS Research Fellow, ⁴Biomechanics 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 (*Igr6*) in the medaka fish, *Oryzias latipes***
 ○Toshio Takahashi¹, Tomonori Deguchi², Takashi Kawasaki², Hiroe Oonishi², Shunsuke Yuba² (¹Suntory Foun., for Life Sci., Bioorg., Res., Inst., ²Natl., 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 Tanaka¹, Kazuyuki Nakao¹, Toshihiro Sekimoto², Yoshihiro Yoneda^{1,2} (¹Department of Frontier Biosciences, Graduate School of Frontier Biosciences, Osaka University, ²Department 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 Yamamoto¹, Keiichiro Kamura^{1,2}, Tatsuya Tsukahara¹, Atsuko Shimada¹, Sumito Koshida¹, Hiroyuki Takeda¹ (¹Dept. of Biol. Scis., Grad. Sch. of Sci., Univ. of Tokyo, ²IMEG, Univ. of Kumamoto)
- P1-173** **C Dynamics of alpha B-crystallin and microtubules in beating cardiac myocytes**
 ○Eri Ohto-Fujita¹, Miho Shimizu¹, Yoriko Atomi² (¹Grad. School of Inform. Sci. Tech., Univ. of Tokyo, ²RI 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 Okuda¹, Hiroaki Goto¹, Takamasa Suzuki^{1,2}, Hitoshi Mori³, Narie Sasaki¹, Tetsuya Higashiyama^{1,2} (¹Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ., ²JST, ERATO, Higashiyama Live-Holonics Project, ³Dep. 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 Kajita¹, Akira Takano¹, Makoto Mochizuki¹, Toshiya Endo¹, ○Tohru Yoshihisa^{1,2} (¹Dept. of Chem., Grad. Sch. of Sci., Nagoya Univ., ²Res. 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 Nakanishi¹, Kisa Kakiguchi², Shigenobu Yonemura², Akihiko Nakano^{1,3}, Nobuhiro Morishima¹ (¹Mol. Membrane Biol. Lab., RIKEN ASI, ²Electron Microscope Lab., RIKEN CDB, ³Grad. 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 Ayukawa¹, Juergen A. Knoblich², Takehiko Sasaki³, Masakazu Yamazaki¹ (¹Akita University Graduate School of Medicine, ²Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA), ³Department of Pathology and Immunology, Akita University School of Medicine)
- P1-180** **Tongue and palate development in Shh-/+MFCS4+/-**
 ○Shigeru Okuhara¹, Tomoko Sagai², Ryosuke Nagaoka¹, Takanori Amano², Toshihiko Shiroishi², Sachiko Iseki¹ (¹Dept. of Mol. Craniofac. Emb., Grad. Sch. of Dent. and Med. Sci., Tokyo Medical and Dental Univ., ²Mammal. 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 Wakayama¹, Shigetomo Fukuhara¹, Koji Ando^{1,2}, Michiyuki Matsuda³, Naoki Mochizuki¹ (¹Dept. of Cell Biol., Natl. Cereb. and Cardiovasc. Ctr. Res. Inst., ²Dept. of Cell. Signal., Grad. Sch. Pharm. Sci., Tohoku Univ., ³Dept. 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 Kato¹, Hiroto Sasaki², Yukio Uchida³, Hiroyuki Honda² (¹Graduate School of Pharmaceutical Sciences, Nagoya University, ²Graduate School of Engineering, Nagoya University, ³DITECT Corporation)
- P1-184** (JYSS3-19) **D The role of Robo1 in the morphological development of cortical upper-layer pyramidal neurons.**
 ○Yuko Gonda¹, William D. Andrews², Hidenori Tabata³, Takashi Namba⁴, John G. Parnavelas², Kazunori Nakajima³, Shinichi Kohsaka⁵, Shigeo Uchino⁵, Carina Hanashima¹ (¹Laboratory for Neocortical Development, RIKEN Center for Developmental Biology, ²Dept. of Cell and Dev. Biol., UCL, London, ³Dept. of Anat., Keio Univ. Sch. of Med., Tokyo, ⁴Dept. of Cell Pharma., Nagoya Univ. Grad. Sch. of Med., Nagoya, ⁵Dept. of Neurochem., Natl. Inst. Neurosci., Tokyo)
- P1-185** **Withdraw**
- P1-186** (PFT-10) **C Function of a neurogenic gene, pecanex in Notch signaling.**
 ○Tomoko Yamakawa¹, Kenta Yamada¹, Takeshi Sasamura¹, Naotaka Nakazawa¹, Maiko Kanai¹, Emiko Suzuki², Mark E. Fortini³, Kenji Matsuno¹ (¹Dept. of Biol. Sci./Tec., Tokyo Univ. of Sci., ²Gene Network Lab., NIG, ³Dept. of Biochem./Mol. Biol., Thomas Jefferson Univ., ⁴Gene 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 glycoporphin 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** **The temporal analysis of recruitment of mammalian Atg proteins to the autophagosome formation site**
(WS1a-8) ○Ikuko Koyama-Honda^{1,2}, Eisuke Itakura^{1,2}, Takahiro Fujiwara³, Noboru Mizushima¹ (¹Dept. of Physiol. and Cell Biol., Tokyo Med. and Dent. Univ., ²JSPS, ³iCeMS, 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 Ashizawa¹, ○Tadashi Watanabe², Masahiro Fujimuro² (¹Dept. of Mol. Cell Biol., School of Med., Univ. of Yamanashi, ²Dept. of Cell Biol., Kyoto Pharm. Univ.)
- P2-010** **Quantification and mechanics of meiotic cytoplasmic streaming in *C. elegans* early embryos.**
(WS1a-7) ○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 Kametaka¹, Ai Kametaka², Shinichi Yonekura³, Satoshi Goto⁴, Satoshi Waguri¹ (¹Dept. of Anat. and Histol., Fukushima Med. Univ., ²ASI, RIKEN, ³Center of Project Research Promotion, Shinshu Univ., ⁴Dept. of Physiol. Sch. of Med., Keio Univ.)
- P2-015** **Chromatin signaling relays to the Golgi structure via SUN/KASH protein**
(WS1a-4) ○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 Lee¹, Yasunori Uchida¹, Kazuo Emoto², Masato Umeda³, Osamu Kuge⁴, Tomohiko Taguchi¹, Hiroyuki Arai¹ (¹Grad. Sch. of Pharm. Sci., Univ. of Tokyo, ²Dept. of Cell Biol., Osaka Biosci. Inst., ³Inst. Chem. Res., Kyoto Univ., ⁴Dept. 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** **Genetic mutation of β -SNAP causes photoreceptor degeneration through the activation of the BH3-only SNARE, BNip1**
 (WS1a-6)
 ○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 IRE1 β optimizes mucin production in goblet cells**
 ○Akio Tsuru¹, Naoko Fujimoto¹, Satsuki Takahashi¹, Daisuke Nakamura¹, Michiko Saito¹, Rina Nagai¹, Megumi Iwano¹, Takao Iwakaki², David Ron³, Kenji Kohno¹ (¹Grad. Sch. of Biol. Sci., Nara Inst. of Sci. and Tech., ²Iwakaki Lab., Adv. Sci. Res. Leaders Dev. Unit, Gunma Univ., ³Inst. of Metabolic Sci., Univ. of Cambridge)
- P2-023** **Autophagy is involved in turnover of damaged lysosomes**
 ○Ikuko Maejima¹, Hiroko Omori³, Takeshi Noda^{1,2}, Tamotsu Yoshimori^{1,2} (¹Dept. of Genetics, Grad. Sch. of Med., Osaka Univ., ²Lab. of Intracellular Membrane Dynamics, Grad. Sch. of Frontier Biosci., Osaka Univ., ³Res.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** **Live cell imaging of ER-to-Golgi protein transport system in *S.cerevisiae***
 (WS1a-1)
 ○Kazuo Kurokawa¹, Michiyo Okamoto¹, Akihiko Nakano^{1,2} (¹RIKEN Advanced Science Institute, ²Department 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 Tanno¹, Teppei Yamaguchi¹, Soichiro Tabata¹, Eiji Goto², Satoshi Ishido², Masayuki Komada¹ (¹Dept. Biol. Sci. Tokyo Tech, ²RCAI, RIKEN)
- P2-029** **Regulation of Rab6 dynamics at the Golgi apparatus in *Saccharomyces cerevisiae*.**
 ○Yasuyuki Suda¹, Akihiko Nakano^{1,2} (¹MMBL, ASI, RIKEN, ²Dept. Biol. Sci., Grad. Sch. of Sci., The Univ. of Tokyo)
- P2-030** **Two proteases, trypsin domain-containing 1 (Tysnd1) and peroxisomal Lon protease (PsLon), cooperatively regulate fatty acid β -oxidation in peroxisomal matrix**
 (WS1a-10)
 ○Kanji Okumoto¹, Yukari Kametani², Yukio Fujiki^{1,2} (¹Dept. of Biol., Fuc. of Sci., Kyushu Univ., ²Grad. 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 Kozawa¹, Tomoyuki Kobayashi¹, Akinori Endo¹, Hidetaka Tanno¹, Avliush Bolotbyek¹, Nobuhiro Nakamura¹, Akitsugu Yamamoto², Hiroyuki Kawahara³, Masayuki Komada¹ (¹Dept. Biol. Sci., Tokyo Tech, ²Dept. Bio-sci., Nagahama Tech, ³Dept. 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** **The molecular mechanism of dephosphorylation and nuclear translocation of TFE3, a key transcription factor regulating mammalian Golgi stress response.**
 (WS1a-3)
 Mai Taniguchi, Shogo Sawaguchi, Soichiro Tanakura, Shogo Yamaguchi, Yui Shimada, Yuki Nakamura, Yasuyo Matsumura, Ryota Komori, Keisuke Kubota, Sadao Wakabayashi, OHiderou Yoshida (Grad. Sch. Life Science, Univ. Hyogo)
- P2-036** **Cellular localization and protein stability of mouse VHL**
 ○Asami Shibuya^{1,2}, Takeshi Mizuno¹, Motoyuki Shimonaka², Naoko Imamoto¹ (¹Cell. Dynamics. Lab. ASI, RIKEN, ²Facu.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 Arai¹, Atsushi Yamashita², Ikuo Wada¹ (¹Dep. Cell Sci., Fukushima Med. Univ., ²Faculty Pharm. Sci., Teikyo Univ.)
- P2-039** **Analysis of mitochondrial dynamics in ovarian folliculogenesis in mice.**
 ○Osamu Udagawa¹, Yui Matsunaga², Hiroshi Shitara³, Kenji Miyado⁴, Satoshi Tsukamoto^{2,5}, Katsuyoshi Mihara^{1,6}, Noboru Mizushima², Naotada Ishihara¹ (¹Inst. of Life Sci., Kurume Univ., ²Tokyo Medical and Dental University, ³Tokyo Metropolitan Institute of Medical Science, ⁴National Center for Child Health and Development, ⁵National Institute of Radiological Sciences, ⁶Kyushu University)
- P2-040** **Function of a t-SNARE protein SNAP23 in insulin secretion from pancreatic beta-cell.**
 (WS1a-5)
 ○Masataka Kunii^{1,2}, Noriko Takahashi³, Masaki Kobayashi⁴, Mica Ohara-Imaizumi⁵, Takashi Sato², Shin-ichiro Yoshimura¹, Ken Sato², Reiko Harada¹, Shinya Nagamatsu⁵, Haruo Kasai³, Tadahiro Kitamura⁴, Akihiro Harada^{1,2} (¹Dept. of Cell Biol., Grad. Sch. of Med., Osaka Univ., ²Lab. of Mol. Traffic., IMCR, Gunma Univ., ³Lab. of Structural Phys., Grad. Sch. of Med., Univ. of Tokyo, ⁴Metabolic Signal Research Center, IMCR, Gunma Univ., ⁵Dept. 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 Noguchi¹, Yukio Fujiki^{1,2} (¹Grad. Sch. of Sys. Life Sci., Kyushu Univ., ²Dep. of Biol., Fac. of Sci., Kyushu Univ.)
- P2-045** **TRAPPIII facilitates autophagy by tethering transport vesicles from early endosomes to the Golgi apparatus**
 (WS1a-9)
 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 Mori², Kanako Sugawara^{2,3}, Masasuke Yoshida^{2,3} (¹Dep. of Biochem., Fac. of Pharm. Sci., Tokyo Univ. of Sci., ²JST, ICORP, ATP-synthesis regulation project, ³Fac. of Eng. Kyoto Sangyo Univ.)

- P2-048 Nucleocytoplasmic shuttling of estrogen receptor α**
 OTetsuji Moriyama¹, Masahiro Oka^{1,2}, Yoshihiro Yoneda^{1,2} (¹Dep. Frontier Biosciences, Grad. Sch. of Frontier Biosciences, Osaka Univers, ²Dep. Biochemistry, Grad. Sch. of Med., Osaka University)
- P2-049 Failure of acrosome formation in SMAP2 Ko mouse**
 OTomo Funaki^{1,2}, Shunsuke Kon², Nobuyuki Tanaka¹, Masanobu Satake² (¹Division of Cancer Biology and Therapeutics, Miyagi Cancer Center Research Institute, Natori 981-1293, Japan, ²Institute of Development, Aging and Cancer, Graduate School of Life Sciences, Tohoku University,)
- P2-050 Glycosylation-independent ERAD pathway serves as a backup system under ER stress**
 (WS1a-2) ORyo Ushioda¹, Jun Hoseki^{1,2}, Kazuhiro Nagata¹ (¹Dept. of Molecular Biosciences, Faculty of Life Sciences, Kyoto Sangyo Univ., ²Div. of Applied Life Sciences, Graduate School of Agriculture, Kyoto Univ.)
- P2-051 Deficiency in selective autophagy leads to *Streptococcus pyogenes* multiplication in endothelial cells.**
 OShiou-Ling Lu^{1,2}, Yee-Shin Lin², Tamotsu Yoshimori^{1,3} (¹Laboratory of Intracellular Membrane Dynamics, Graduate School of Frontier Bioscience, Osaka University, Suita, Osaka, Japan, ²Institute of Basic Medical Sciences, and Department of Microbiology and Immunology, National Cheng Kung University Medical College, Tainan, Taiwan, ³Department 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**
 OShunsuke Kon¹, Naoko Minegishi², Kenji Tanabe¹, Toshio Watanabe¹, Tomo Funaki¹, Daisuke Sakamoto¹, Yudai Higuchi¹, Hiroshi Kiyonari³, Katsutoshi Asano⁴, Manabu Fukumoto⁵, Masahi Sanada⁶, Seishi Ogawa⁶, Takuro Nakamura⁷, Masanobu Satake¹ (¹Department of Molecular Immunology, Institute of Development, Aging and Cancer, Tohoku University, ²Miyagi University, Graduate School of Nursing, ³Laboratory for Animal Resources and Genetic Engineering, RIKEN Center for Developmental Biology, ⁴Nihon Gene Research Laboratories, ⁵Department of Pathology, Institute of Development, Aging and Cancer, Tohoku University, ⁶Cancer Genomics Project, Faculty of Medicine, The University of Tokyo, ⁷Division 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**
 OMasatada Obata¹, Tetsuya Takano¹, Mineko Tomomura², Taro Saito¹, Akiko Asada¹, Mitsunori Fukuda³, Shin-ichi Hisanaga¹ (¹Department of Biological Sciences, Tokyo Metropolitan University, ²MPL, Meikai University School of Dentistry, ³Department 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**
 OYoriko Atomi¹, Asami Oguro², Hiroshi Kubota³, Miho Shimizu⁴, Shoichi Ishiura² (¹RI center, Univ. of Tokyo, ²Dep. of Life Sci., Grad. School of Arts and Sciences, Univ. of Tokyo, ³Dep. of Life Sci., Faculty and Graduate School of Eng. Resource Sci., Akita University, ⁴Graduate School of Inform. Sci. Technol., Univ. of Tokyo)
- P2-055 Analysis of RAB11 GTPases in *Arabidopsis thaliana***
 ORin Asaoka¹, Tomohiro Uemura¹, Jun Ito^{2,3}, Masaru Fujimoto¹, Takashi Ueda¹, Akihiko Nakano^{1,2} (¹Graduate School of Science, The University of Tokyo, ²RIKEN Advanced Science Institute, ³Graduate 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**
 OM Edamatsu¹, T Sakuma¹, K Furuta², Y Y Toyoshima¹ (¹Dep. of Life Sci., Grad. School of Arts & Sci., Univ. of Tokyo, ²NICT)
- P2-057 Progesterone enhanced sperm hyperactivation was regulated by PKA and PLC-IP3/DAG-PKC signals**
 OMasakatsu Fujinoki (Dep. Physiol., Dokkyo Med. Univ.)
- P2-058 Caldesmon promotes axon extension through inhibition of myosin II activity**
 OTsuyoshi Morita¹, Taira Mayanagi^{1,2}, Kenji Sobue^{1,2} (¹Dept. of Neurosci., Osaka Univ. Grad. Sch. of Med., ²Dept. of Neurosci., Inst. for Biomed. Sci., Iwate Med. Univ.)
- P2-059 A CRMP-2 isoform controls myosin II-mediated cell migration and matrix assembly by trapping ROCK II**
 (WS2a-4) OAtsuko Yoneda^{1,2}, Marie Morgan-Fisher², Robin Wait³, John R. Couchman², Ulla M. Wewer² (¹Lab. of Genome and Biosignals, Tokyo Univ. of Pharm. and Life Sci., ²Dept. of Biomed. Sci., Faculty of Health Sci., and BRIC, Univ. of Copenhagen, ³Kennedy Inst. of Rheum., Univ. of Oxford)
- P2-060 Role of Annexin1 in the migration of primordial germ cells in chicken embryo**
 Yasuna Higashiguchi, ODaisuke 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 Akitsu¹, Yoshinori Satoh¹, Yoshiko Amano¹, Shigeo Ohno¹, OAtsushi Suzuki² (¹Dep. of Molecular Cellular Biology, Yokohama City University, Graduate School of Medicine, ²Div. 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**
 OYuichi Mazaki, Ayaka Hirano (Pri. Org. for Inno. and Excel., Kumamoto Univ.)
- P2-063** **EZH2 regulates breast cancer invasiveness through GEP100-Arf6-AMAP1 signaling pathway**
 OHirokazu 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** **Identification of Rho-GEFs involved in mechanosensing of vascular endothelial cells**
 (WS2a-5) OHiroshi Kondo¹, Kazumasa Ohashi¹, Hiyori Abiko¹, Ryuichi Hiatar¹, Naoya Sakamoto^{2,3}, Masaaki Sato^{2,3}, Kensaku Mizuno¹ (¹Grad. Sch. of Life Sci., Tohoku Univ., ²Grad. Sch. of Eng., Tohoku Univ., ³Grad. Sch. of Biomed. Eng., Tohoku Univ.)
- P2-065** **Trichoplein and Aurora A block aberrant primary cilia assembly in proliferating cells**
 OAkinito Inoko¹, Makoto Matsuyama¹, Hidemasa Goto^{1,2}, Yuki Ohmuro-Matsuyama¹, Yuko Hayashi¹, Masato Enomoto¹, Miho Ibi¹, Takeshi Urano³, Shigenobu Yonemura⁴, Tohru Kiyono⁵, Ichiro Izawa¹, Masaki Inagaki^{1,2} (¹Div. of Biochem., Aichi Cancer Ctr. Res. Inst., ²Dpt. of Cell. Oncol., Nagoya Univ. Grad. Sch. of Med., ³Dpt. of Biochem., Shimane Univ. Sch. of Med., ⁴RIKEN CDB, ⁵Virology Div., Natl. Cancer Ctr. Res. Inst.)
- P2-066** **The essential role of mammalian formin FHOD3 in sarcomere organization during heart development**
 ORyu Takeya¹, Meikun Kan-o¹, Takaya Abe², Naoyuki Kitajima³, Motohiro Nishida³, Ryuji Tominaga⁴, Hitoshi Kurose³, Hideki Sumimoto¹ (¹Dept. of Biochem., Kyushu Univ. Grad. Sch. of Med. Sci., ²LARGE, CDB, RIKEN, ³Dept. of Pharmacol. Toxicol., Kyushu Univ. Grad. Sch. of Pharm. Sci., ⁴Dept. 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**
 OTakayuki Suzuki^{1,3}, Makoto Sano², Atsushi Kuroiwa¹ (¹Div. of Biol. Sci., Grad. Sch. of Sci, Nagoya University, ²Tohoku University, ³JST PRESTO)
- P2-068** **Involvement of cell polarity in folding phenomena of epithelial sheets**
 (WS2a-8) OSumire 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**
 OKazuhiro Tateishi^{1,3}, Yuji Yamazaki^{1,3}, Shin Watanabe^{1,3}, Koshi Kunitomo^{1,3}, Tomoki Nishida², Sachiko Tsukita¹ (¹Lab. of Biol. Sci., Grad. Sch. of Front. Biosci. and Grad. Sch. of Med., Osaka Univ., ²Res. Center for UHVEM, Osaka Univ., ³These are equally contributed)
- P2-070** **Pob1 plays a triple role that localizes exocyst to cell tips for polarized cell growth**
 OKentaro 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**
 OYuki 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, OShoichiro Ono (Emory University)
- P2-073** **Proper regulation of tubulin poly-glutamylation is essential for the maintenance of retinal photoreceptor cells**
 (WS2a-6) OAlu Konno^{1,2}, Sayumi Hattori¹, Chizuru Matsuda¹, Mitsutoshi Setou¹, Koji Ikegami¹ (¹Dept. Cell Biol. Anat., Hamamatsu Univ. School Med., ²JSPS Res. Fellow)
- P2-074** **Reexamination of substrate-attached materials in relation to rear retraction of migrating cells**
 OMasashi Yamada¹, Gabriele Mugnai², Satoshi Serada³, Tetsuji Naka³, Kiyotoshi Sekiguchi¹ (¹Inst. Protein Res., Osaka Univ., ²Univ. Florence, ³Natl. Inst. Biomed. Innovation)
- P2-075** **Cloning and characterization of phosphoinositide-specific phospholipase C of a giant amoeba, *Amoeba proteus*.**
 OHitoshi Yagisawa, Ryoko Shinki, Kayoko Maeda-Akahane, Teruo Shimmen, Seiji Sonobe (Grad. Schl. Life Sci., Univ. of Hyogo)

- P2-076 Integrin $\alpha 2$ Dependent Increased Invasiveness of Lung Adenocarcinoma Cells That Survived 10 Gy Ionizing Radiation**
 ○Xue Li¹, Seiichiro Ishihara¹, Taishi Yamada¹, Motoaki Yasuda², Takeomi Mizutani¹, Kazushige Kawabata¹, Takeshi Nishioka³, Hisashi Haga¹ (¹Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ., ²Dept. of Oral Pathobiology, Grad. Sch. of Dent. Med., Hokkaido Univ., ³Dept. of Radiology, Grad. Sch. of Med., Hokkaido Univ.)
- P2-077 FGF and small GTPase proteins control of basal and apical cytoskeletal activities during inner ear morphogenesis**
 (WS2a-9)
 Xiao rei Sai, ○Raj Ladher (Riken CDB)
- P2-078 The possible involvement of C/EBP β 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 Development, 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., Kwansai Gakuin Univ)
- P2-081 Lasp-2 in chicken DRG neurons**
 ○Asako Terasaki¹, Junpei Kaneko¹, Yuzo Otaki¹, Ayako Nakayama¹, Hiroki Akiyama², Hiroyuki Kamiguchi² (¹Chiba Univ, ²RIKEN BSI)
- P2-082 Contributions of actin cytoskeleton and cell-substrate adhesion in control of cell motile behavior in micro-topographical environments**
 (WS2a-7)
 ○Hiromi Miyoshi¹, Taiji Adachi^{1,2}, Jungmyoung Ju¹, Sang Min Lee³, Dong Jin Cho³, Jong Soo Ko³, Yutaka Yamagata¹ (¹Ultra High Precision Fabrication Team, RIKEN, ²Dept. of Biomechanics, Inst. for Frontier Medical Sciences, Kyoto Univ., ³Graduate School of Mechanical Engineering, Pusan National Univ.)
- P2-083 Lasp-2 in chicken astrocytes**
 ○Shihoko Nakata¹, Ayako Nakayama¹, Hiroyuki Yamazaki², Tomoaki Shirao² (¹Chiba Univ, ²Gunma Univ)
- P2-084 NFATc1 promotes cancer cell invasion via altered E-cadherin regulation**
 Tsukasa Oikawa¹, ○Atsuko Nakamura¹, Koichi Matsuo¹, Hideyuki Saya² (¹Lab. of Cell and Tissue Biology, Keio Univ., Sch. of Med., ²Div. 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 Nakamura¹, Takashi Namba^{1,2}, Kozo Kaibuchi^{1,2} (¹Department of Cell Pharmacology Nagoya University, Graduate School of Medicine, ²JST, CREST)
- P2-086 A transcription factor grainyhead-like 2 regulates epithelial morphogenesis by promoting the formation of the apical lumen**
 (WS2a-10)
 ○Naoki Tanimizu¹, Kazunori Senga², Keith E Mostov³, Toshihiro Mitaka¹, Atsushi Miyajima² (¹Inst. for Front. Med., Sapporo Med. Univ., ²IMCB, Univ. of Tokyo, ³Dep. 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 Kiboku¹, Tsuyoshi Katoh², Akio Nakamura³, Akira Kitamura⁴, Masataka Kinjo⁴, Yota Murakami¹, Masayuki Takahashi¹ (¹Div. of Chem., Grad. Sch. of Sci., Hokkaido Univ., ²Dept. of Biochem., Asahikawa Med. Col., ³Dept. of Mol. and Cell. Pharmacol., Grad. Sch. of Med., Gunma Univ., ⁴Fac. 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 Nakagawa¹, Kazuyuki Matsushima², Teruyo Minamiyahiki¹, Kiyotaka Tokuraku³, Susumu Kotani² (¹Div. of Biol., Fac. of Sci., Fukuoka Univ., ²Dept. of Biological Sci., Fac. of Science, Kanagawa Univ., ³Dept./Div. of Applied Sci., Muroran Inst. of Tech.)

- P2-091** **Regulation of mitochondrial transport and inter-microtubule spacing by Tau phosphorylation at the sites hyperphosphorylated in Alzheimer disease**
(WS2a-2)
Kourosh Shahpasand¹, Isao Uemura¹, Taro Saito¹, Tsunaki Asano¹, Kenji Hata¹, Keitaro Shibata², Yoko Toyoshima², Masato Hasegawa³, Shin-ichi Hisanaga¹ (¹Dept. of Biol. Sci., Tokyo Metro. Univ., ²Dept. of Life Sci., Grad. Sch. of Art, The Univ. of Tokyo, ³Dept. Neuropath. Cell Biol., Tokyo Metro. Insti. of Med. Sci.)
- P2-092** **Lipid polarity is maintained in the absence of tight junctions.**
OJunichi 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**
OTomonori 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.**
OKatsuyoshi Takaoka, Ken-ichi Matubara, Keibo Su, Hiroshi Hamada (Graduate School of Frontier Biosciences, Osaka University)
- P2-095** **Protein complex required for the formation of microtubule square lattice in green tree frog sperm**
(WS2a-3)
OToshiki Yagi¹, Toshie Takahashi², Hiroshi Kubota³, Masahide Kikkawa¹ (¹Dep. of Cell Biol. Grad. Sch. of Med., Univ. of Tokyo, ²Dep. of Biochem & Mol. Biol. Grad. Sch. of Med., Univ. of Tokyo, ³Dep. of Zool., Grad. Sch. of Sci., Kyoto Univ.)
- P2-096** **Role of mono-glycine ligase TTL8 in male reproductive system**
OKoji 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**
OAkira 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.**
OKagayaki Kato, Housei Wada, Shigeo Hayashi (RIKEN/CDB)
- P2-099** **Proper nuclear shape requires balance of organization between actin cytoskeleton and microtubules**
OYuta Sato, Yota Murakami, Masayuki Takahashi (Dept. of Chem., Fac. of Sci., Hokkaido Univ.)
- P2-100** **Actin-based chromosome transport in oocytes**
(WS2a-1)
OMasashi Mori¹, Nilah Monnier², Mark Bathe², Jan Ellenberg¹, Peter Lenart¹ (¹EMBL, ²MIT)

Cell-Cell interaction / Cell adhesion / Extracellular matrix

- P2-101** **Immunohistochemical localization of integrins in rat splenic sinus endothelial cells**
OKiyoko 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.**
OSusana de Vega^{1,2}, Eri Arikawa-Hirasawa¹, Yoshihiko Yamada² (¹Res. Inst. for Diseases of Old Age Juntendo Univ. Grad. Sch. Med., ²Lab. Cell Dev. Biol., NIDCR, NIH, Bethesda, MD, U.S.A)
- P2-103** **Cancer-associated fibroblasts mediate extracellular matrix remodeling and three-dimensional invasion of scirrhous gastric carcinoma cells**
(WS3a-9)
OHideki Yamaguchi¹, Kazuyoshi Yanagihara², Masakazu Yashiro³, Ryuichi Sakai¹ (¹Div. of Metastasis and Invasion Signaling, National Cancer Center Research Institute, ²Dept. of Life Sciences, Yasuda Women's University Faculty of Pharmacy, ³Dept. of Surgical Oncology, Osaka City University, Graduate School of Medicine)
- P2-104** **CLASP-mediated microtubule anchoring promotes the cell-basement membrane interaction through dystroglycan in gastrulation EMT**
(WS3a-8)
OYukiko Nakaya, Eriko, W. Sukowati, Guojun Sheng (Center for Developmental Biology, RIKEN)
- P2-105** **Substrate stiffness enhances MMP-7 expression and ECM degradation in cancer cells**
OChie 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**
OD. Kiyozumi, I. Nakano, K. Sekiguchi (ECM Biochem., Inst. Protein Res., Osaka Univ.)

- P2-107** **Electrical coupling in muscle enables compensation of sporadic neural outputs to coordinate robust and efficient behavior during motor development.**
(WS3a-3)
OHiromi Hirata^{1,2}, Hua Wen³, Yu Kawakami⁴, Yuriko Naganawa⁴, Kazutoyo Ogino¹, Kenta Yamada¹, Louis Saint-Amant⁵, Sean E. Low⁶, Wilson W. Cui⁶, Weibin Zhou⁶, Shawn M. Sprague⁶, Kazuhide Asakawa¹, Akira Muto¹, Koichi Kawakami¹, John Y. Kuwada⁶ (¹National Institute of Genetics, ²PREST, JST, ³Oregon Health and Science University, ⁴Nagoya University, ⁵University of Montreal, ⁶University of Michigan)
- P2-108** **Modulation of cell-cell adhesion in *Xenopus* mesendoderm cells by CXCR7 signaling**
(WS3a-7)
OAkimasa 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*.**
OAkihiko Watanabe¹, Yuni Nakauchi¹, Eriko Takayama-Watanabe² (¹Dep. of Biol., Fac. of Sci., Yamagata University, ²Inst. of Arts and Sci., Yamagata University)
- P2-110** **Functional study of CLAUDIN14 mutants in nonsyndromic hearing loss using cell model**
ODung Lung Li, Shaun-Yow Li, Jiann-Jou Yang (Dep. of BioMed. Sci., Chung Shan Med. Univ.)
- P2-111** **Regulation of tight junctions and actin cytoskeletons by the osmotic gradient in two different renal cell lines**
(WS3a-1)
OShinsaku Tokuda, Mikio Furuse (Division of Cell Biology, Department of Physiology and Cell Biology, Kobe University Graduate School of Medicine)
- P2-112** **ILDR1 and ILDR2 recruit tricellulin to tricellular tight junctions.**
(WS3a-2)
OTomohito Higashi¹, Shin-ichiro Kitajiri², Hiroki Nakamura¹, Mikio Furuse^{1,2} (¹Div. of Cell Biol., Grad. Sch. of Med., Kobe Univ., ²Dept. 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 Nishiguchi¹, OMizuki Sasaki², Hiroki Oda^{1,2} (¹Osaka University, ²JT Biohistory Resarch Hall)
- P2-114** **Spindle orientation in cadherin-catenin complex-deficient F9 cells**
OSatoshi Urayama, Chiyoko Kobayashi, Akira Nagafuchi (Dept. of Biol., Sch. of Med., Nara med. univ.)
- P2-115** **β -Catenin binding partner(s) other than E-cadherin support cell adhesion sites without Z0-1.**
(WS3a-4)
OAkira Nagafuchi, Satoshi Urayama, Chiyoko Kobayashi (Dep. of Biol., Sch. of Med., Nara Med. Univ.)
- P2-116** **Tead activity links contact-mediated communication to cell competition by controlling Hippo signaling and Myc expression**
(WS3a-6)
Hiroshi Mamada^{1,2}, Mitsunori Ota², OHiroshi Sasaki^{1,2} (¹Dep. of Cell Fate Control., Inst. of Mol. Embryol. & Genet, Kumamoto Univ., ²RIKEN Ctr. for Dev. Biol.)
- P2-117** **Functional analysis of E-cadherin- β -catenin fusion molecules.**
OChiyoko 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**
OKosei Takeuchi^{1,2}, Nozomu Yoshioka^{1,2}, Hitoshi Kawano², Michihiro Igarashi¹ (¹Div. of Mol. Cell Biol., Grad Sch. of Med., Niigata Univ., ²Div. of Dev. Neuro. Tokyo Metro. Inst. of Neurosci.)
- P2-119** **Regulation of Notch signaling through the adherens junction in neurogenesis and somitogenesis**
(WS3a-5)
OJun Hatakeyama¹, Yoshio Wakamatsu², Ryuichi Shigemoto³, Kenji Shimamura¹ (¹IMEG, Kumamoto Univ., ²Div. of Dev. Neurosci., Graduate school of Med., Tohoku Univ., ³Div. of Cereb. Struc., NIPS)
- P2-120** **Live-imaging of the basement membranes in mammalian system**
OSugiko Futaki, Ayano Horimoto, Kiyotoshi Sekiguchi (Inst. Protein Res., Osaka Univ.)
- P2-121** **Single-molecule observation of Zyxin at focal adhesions**
OMasahiro Maruoka, Naoki Watanabe (Lab. of Single-Molecule Cell Biol., Grad. Sch. of Life Sci, Tohoku Univ.)

Systems biology

- P2-122** **Estimating the Dynamics of Forces during Morphogenesis**
(WS4a-9)
OKaoru Sugimura¹, Shuji Ishihara² (¹Kyoto Univ., ²Univ. of Tokyo)

- P2-123** **Understanding the post-mitotic Golgi reassembly with mathematical models based on elastic membrane theory**
(WS4a-5)
○Masashi Tachikawa, Atsushi Mochizuki (Theoretical Biology Laboratory, RIKEN)
- P2-124** **Synchronized Onset of Quorum Sensing Transition.**
(WS4a-7)
○Koichi Fujimoto¹, Satoshi Sawai² (¹Grad. Sch. of Sci., Osaka Univ., ²Grad. 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** **Mechanisms for temperature compensation at multiple scales**
(WS4a-3)
○Gen Kurosawa¹, Masashi Tachikawa¹, Atsushi Mochizuki^{1,2} (¹Theoretical Biology Laboratory, RIKEN, ²Department of Computational Intelligence and Systems Science, Tokyo Institute of Technology)
- P2-127** **Mechanical modeling of the cell-cell interaction on the self-organization of the tooth germ.**
(WS4a-4)
○Hisako Takigawa-Imamura¹, Ritsuko Morita², Takashi Tsuji², Kenichi Yoshikawa¹ (¹Dept. of Phys., Grad. Sch. of Sci., Kyoto Univ., ²Res. Inst. for Sci. & Tech., Tokyo Univ. of Sci.)
- P2-128** **A novel mathematical model of angiogenic morphogenesis: importance of tip cell dynamics**
(WS4a-8)
○Kei Sugihara^{1,2}, Koichi Nishiyama¹, Takashi Miura³, Satoshi Arima¹, Yuji Hakozaiki¹, Yuichiro Arima¹, Ki-Sung Kim¹, Yasunobu Uchijima¹, Yukiko Kurihara¹, Hiroki Kurihara¹ (¹Dept. of Physiol. Chem. and Metab., Grad. Sch. of Med., Univ. of Tokyo, ²MD Scientist Training Program, Fac. of Med., Univ. of Tokyo, ³Dept. of Anat. and Dev. Biol., Grad. Sch. of Med., Kyoto Univ.)
- P2-129** **A systematic quantification of the width-length relationship of mitotic spindle during the embryogenesis of *Caenorhabditis elegans***
(WS4a-2)
○Akatsuki Kimura, Yuki Hara (Cell Arch. Lab., Nat. Inst. Genetics)
- P2-130** **Effects of ARB on cultured rat embryos**
○Athushi Yokoyama¹, Masaharu Akita² (¹Kanagawa Life-science Research, ²Kamakura woman's college)
- P2-131** **Dynamics of complex biological systems determined from minimal subsets of molecules in regulatory networks**
(WS4a-1)
○Atsushi Mochizuki¹, Gen Kurosawa¹, Bernold Fiedler² (¹Theoretical Biology Laboratory, RIKEN, ²Institute for Mathematics, Free University Berlin)
- P2-132** **Temporal Coding of Insulin Action through Multiplexing of the AKT Pathway**
(WS4a-6)
○Hiroyuki Kubota¹, Rei Noguchi¹, Yu Toyoshima¹, Yu-ichi Ozaki¹, Shinsuke Uda¹, Kanako Watanabe¹, Wataru Ogawa², Shinya Kuroda¹ (¹Department of Biophysics and Biochemistry, Graduate School of Science, University of Tokyo, ²Department 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 Saito¹, Akiya Hino^{1,2}, Ryuji Toyoizumi^{1,2} (¹Dept. of Biol., Sci., Kanagawa Univ., ²Res. 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 Narita¹, Eriko Motonura², Shin-ichiro Nishimatsu¹, Masao Sakai², Tsutomu Nohno¹ (¹Dept. of Mol and Dev. Biol., Kawasaki Med. Sch., ²Dept. 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** **Asymmetric Flow is Converted to a Degradation of Cer12 and Amplified by Interlinked Feedbacks Robustly in a Left-Right Axis of the Mouse Embryo**
(WS5a-8)
○Tetsuya Nakamura¹, Daisuke Saitoh², Kyosuke Shinohara¹, Dong Felang¹, Aiko Kawasumi¹, Atsuko Takamatsu³, Jose Antonio Belo⁴, Atsushi Mochizuki², Hiroshi Hamada¹ (¹Dev. Gene., Front. Bio., Osaka Univ., ²Theoretical Bio, RIKEN, Japan, ³Faculty of Science and Engineering, Waseda Univ., Japan, ⁴Biomedical 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 Sakata¹, OYasutaka Imai¹, Mitsugu Maeno² (¹Graduate School of Science and Technology, Niigata University, ²Department of Biology, Faculty of Science, Niigata University)
- P2-138 Zebrafish Gata4 regulates the gene expression of connexin 36.7**
OHisako Miyagi, Yumiko Tanaka, Keijiro Munakata, Ippei Kasajima, Kakon Nag, Naznin Sultana, Shigehisa Hirose, Nobuhiro Nakamura (Dep. Biol. Sci., Tokyo Tech.)
- P2-139 Hemodynamics-dependent valvulogenesis of zebrafish heart mediated by miR-21**
(WS5a-2) OToshihiro Banjo¹, Minoru Omi¹, Kota Miyasaka¹, Yasuyuki Kida², Toshihiko Ogura¹ (¹IDAC, Tohoku Univ., ²Salk Institute)
- P2-140 Roles of C2H2-type zinc finger proteins, Zbtb11 and Znf668, in Otx2 functions in early *Xenopus* eye development**
OYumeko Satou¹, Takashi Shibano¹, Shuji Takahashi², Makoto Asashima³, Masanori Taira¹ (¹Dept. of Biol. Sci, Grad. Sch. of Sci., Univ. of Tokyo, ²KOMEX, ³AIST)
- P2-141 Epicardial growth factors are required for myocardial maturation before the onset of coronary circulation**
OMakiko 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**
ONatsuno Suda¹, Daisuke Shirakawa¹, Takehiko Itoh¹, Masashige Bando², Katsuhiko Shirahige², Kohsuke Kataoka³, Cheryll Tickle⁴, Mikiko Tanaka¹ (¹Tokyo Inst. Tech., ²Univ. of Tokyo, ³NAIST, ⁴Univ. of Bath)
- P2-143 Understanding the Role of Wnt5a in the Morphogenesis of the Vertebrate Body Plan**
ORieko Ajima^{1,2}, Kristin Biris¹, Lino Tessarollo³, Stephen Lockett⁴, Mark Lewandoski¹, Terry P. Yamaguchi¹ (¹CDBL, NCI-Frederick, NIH, USA, ²FBS, Osaka Univ., ³MCGP, NCI-Frederick, NIH, USA, ⁴OMAL, NCI-Frederick, NIH, USA)
- P2-144 Dynamical property of gene regulatory network generating left-right asymmetry in mice embryo**
(WS5a-9) ODaisuke Saito¹, Tetsuya Nakamura², Hiroshi Nakamura², Atsushi Mochizuki¹ (¹Theoret. Biol. Lab. RIKEN, ²Dev. Genet. Group, Grad. Sch. Frontier Biosci., Osaka Univ.)
- P2-145 LGR4 plays an important role in female reproductive tract development.**
OMasae Koizumi^{1,2}, Kazunori Oyama², Akihiro Nawa¹, Katsuhiko Nishimori² (¹Dept. of ObGyn, Grad. Sch. of Med., Univ. of Ehime, ²Lab. of Mol. Biol., Dept. of Agr. Sci. Univ. of Tohoku.)
- P2-146 Heparan sulphate (HS) changes the specificity of FGF signalling during inner ear induction**
OYuko Muta, Akira Honda, Siu-Shan Mak, Raj Ladher (RIKEN CDB)
- P2-147 Retromer and small GTPase-dependent recycling luminal protein controls apical ECM organization and epithelial tube size**
(WS5a-1) OBo 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**
OYo-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**
OMami Takayama, Taku Hiramatsu, Eisuke Nishida (Dept. Cell & Develop. Biol., Grad. Sch. Biostudies, Kyoto Univ.)
- P2-150 Dynein arms assembly and transport in mammal**
(WS5a-7) OYasuko Asai, Tetsuya Nakamura, Kyosuke Shinohara, Hiroshi Hamada (Developmental Genetics Group Graduate School of Frontier Biosciences OSAKA UNIVERSITY)
- P2-151 Isl1-specific Shh knockout shows craniofacial defects**
OMohammad 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**
OHideto Osada, Kota Miyasaka, Toshihiko Ogura (Dept. of Dev. Neurobiol., IDAC, Tohoku Univ.)
- P2-153 Developmental defects of gustatory papillae in *Six* gene-knockout mice.**
OKeiko Ikeda¹, Yuko Suzuki², Kiyoshi Kawakami³ (¹Dept. Biol., Hyogo College of Med., ²Dept. of Psychol. Sci., Health Sciences Univ. of Hokkaido, ³Div. Biol., Jichi Med. Univ.)

- P2-154 Thyroid gland 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 Mochizuki¹, Shohei Suzuki¹, Asako Sakaue-Sawano², Atsushi Miyawaki², Ichiro Masai¹ (¹Developmental Neurobiology Unit, Okinawa Institute of Science and Technology Graduate School University, ²RIKEN BSI)
- P2-156 Promoter analysis of the mouse GDNF gene in mouse gonadal cell lines**
 ○Rima Kitazumi¹, Yoshiko Kuroda¹, Kyoko Harikae¹, Yoshimi Aiyama¹, Miyuri Kawasumi², Naoki Tsunekawa¹, Masami Kanai-Azuma², Masamichi Kurohmaru¹, Yoshiakira Kanai¹ (¹Department of Veterinary Anatomy, The University of Tokyo, ²Center 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 Ohta¹, Daisuke Niimori^{1,4} (¹Dept of Dev. Neurobio., Graduate School of Med. Sci., Univ. of Kumamoto, ²Global COE Cell Fate Regulation Research and Education Unit, Univ. of Kumamoto, ³Dep. of Internal Medicine 2, Faculty of Medicine, Univ. of Oita, ⁴Dep. 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 Matsuo¹, Yumiko Saga², Hiroyuki Takeda¹, Sumito Koshida¹ (¹Grad. Sch. of Sci., Univ. of Tokyo, ²Div. 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 Yu¹, Li-Ru You², Chun-Ming Chen¹ (¹Inst. of Genome Sci., NYMU, Taipei, Taiwan, ²Inst. of BMB, NYMU, Taipei, Taiwan)
- P2-162 Cloning of FoxN1 gene in *Xenopus laevis*.**
 ○Naoya Imura, 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 Yoshida¹, Hidetaka Shiratori¹, Aiko Kawasumi¹, Kyosuke Shinohara¹, Yasuko Asai¹, Hiroshi Hamada¹, Jose Antonio Belo², Shigenori Nonaka³, Hiroshi Sasaki⁴, Genta Sasaki¹, Junichi Nakai⁵, Ivana Kuo⁶, Barbara Ehrlich⁶, Bernd Dworniczak⁷, Petra Pennekamp⁷ (¹FBS, Osaka Univ., ²Instituto Gulbenkian de Ciencia, Portugal, ³National Institute for Basic Biology, Japan, ⁴RIKEN Center for Developmental Biology, Japan, ⁵Saitama University Brain Science Institute, Japan, ⁶Department of Pharmacology, Yale University School of Medicine, USA, ⁷Institute 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 Hino³, Helen Quach¹, Shimin Lim^{1,4}, Naoto Ueno⁵, Christoph Winkler², Masahiko Hibi³, Karuna Sampath^{1,2,4} (¹Temasek Life Sciences Laboratory, ²National University of Singapore, ³Nagoya University, ⁴Nanyang Technological University, ⁵National 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 Tsukahara¹, Peter Anderson³, Hiroe Sugizaki¹, Ryuichi Nishinakamura⁴, Chulan Kwon³, Kazuko Koshiba¹, Jun.K Takeuchi^{1,5} (¹IMBC, the University of Tokyo, ²Graduate School of Science, the university of Tokyo, ³Johns Hopkins University, ⁴Kumamoto University, ⁵JST PRESTO)
- P2-168 ECLP functions in ciliogenesis and Hedgehog signaling in mouse embryo.**
 ○Yanick Botilde, Satoko Yoshida, Hiroshi Hamada (Grad. scho. of Fron. Biosci., 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 Homeogenetic mechanism of sequential segmentation in polychaete**
 (WS5a-10) Nao Niwa¹, Ai Akimoto-Kato¹, Masashi Sakuma², OShigeo Hayashi¹ (¹RIKEN Center for Developmental Biology, ²Institute 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 Fujimoto¹, Satomi S Tanaka¹, Yasuka L Yamaguchi¹, Yoshiakira Kanai², Kenichirou Morohashi³, Kiyoshi Kawakami⁴, Ryuichi Nishinakamura¹ (¹Dept. of Kid. Dev., IMEG, Kumamoto Univ., ²Dept. of Vet. Ana., The Univ. of Tokyo, ³Dept. of Mol. Biol., Grad. Sch. of Med. Sci., Kyusyu Univ., ⁴Div. 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 Hosoya³, Kunito Kawasaki^{1,2}, Shogo Kawano⁴, Akira Nasu⁵, Junya Toguchida⁵, Katsumasa Fujita⁶, Hiroaki Nakamura³, Gen Kondoh⁷, Kazuhiro Nagata¹ (¹Laboratory of Molecular and Cellular Biology, Faculty of Life Sciences, Kyoto Sangyo University, ²Department of Molecular and Cellular Biology, Institute for Frontier Medical Sciences, Kyoto University, ³Department of Oral Histology, Matsumoto Dental University, ⁴Department of Frontier Biosciences, Osaka University, ⁵Department of Tissue Regeneration, Institute for Frontier Medical Sciences, Kyoto University, ⁶Department of Applied Physics, Osaka University, ⁷Laboratory of Animal Experiments for Regeneration, Institute for Frontier Medical Sciences, Kyoto University)

Neural function and development

- P2-174 Genetic manipulation of Madagascar Ground Gecko unveils unique characteristics of reptilian cortical neural stem cells**
 (WS6a-8) ○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} (¹Dept. Mol. Neurobiol., Grad. Sch. Life Sciences, Tohoku Univ., ²IDAC, Tohoku Univ.)
- P2-176 Novel genes of neural crest cells generation elucidated by gene expression analysis.**
 ○Tutomu Motohashi¹, Daisuke Kitagawa¹, Takanori Wakaoka², Natsuki Watanabe¹, Takahiro Kunisada¹ (¹Dep. of Tissue & Organ Development, Regeneration & Advanced Med. Sci., Grad. Sch. of Med., Gifu Univ., ²Dep. of Otolaryngology, Grad. Sch. of Med., Gifu Univ.)
- P2-177 Tre1 GPCR signaling orients stem cell divisions in the Drosophila central nervous system**
 (WS6a-1) ○Shigeaki Yoshiura, Nao Ohta, Fumio Matsuzaki (RIKEN Center for Developmental Biology)
- P2-178 Development of circadian clock in the suprachiasmatic nuclei of teleost fish**
 Nanako Watanabe¹, Yuichiro Fujinami², Daisuke Shimizu², Susumu Uji³, Hayato Yokoi¹, ○Tohru Suzuki¹ (¹Grad Schl Agric Sci, Tohoku Univ, ²Tohoku Natl Fish Res Inst, ³Natl Res Inst Aquaculture)
- P2-179 Expression and functional study of foxp4 in the central nervous system of zebrafish**
 ○Wai Kei Wong¹, Nga Chu Lui¹, Kin Ming Kwan^{1,2,3} (¹School of Life Sci., The Chinese Univ. of H.K., ²Center for Cell and Developmental Biology, The Chinese Univ. of H.K., ³State Key Lab. of Agrobiotechnology (The Chinese Univ. of H.K.))
- 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.**
 (WS6a-4) ○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 Enomoto² (¹Graduate School of Biostudies, Kyoto University, ²Laboratory for Neuronal Differentiation and Regeneration, RIKEN Center for Developmental Biology)
- P2-183 Neural activity regulates proper restitution of phototaxis via novel neuropeptide genes during head regeneration in planarian**
 (WS6a-5) ○Takeshi Inoue¹, Tomomi Takano², Yoshihiko Umesono¹, Kiyokazu Agata¹ (¹Dep. of Biophys, Grad. Sch. of Sci., Kyoto Univ, ²Center 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 Okubo¹, Shinji Takada² (¹Department of Laboratory Animal Science, School of Medicine, Kitasato University, ²Okazaki 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 Kawada¹, Mariko Kinoshita-Kawada¹, Shigeru Yanagi², Ichiro Masai¹, Yi Rao³, Jane_Y. Wu⁴ (¹OIST, ²Sch. of Life Sci., Tokyo Univ. of Pharm. and Life Sci., ³Peking Univ. Sch. of Life Sci., ⁴Dept. of Neurology, Northwestern Univ. Feinberg Sch. of Med.)
- P2-186** **Phosphorylation control of Gogo receptor by Insulin signaling coordinates the developmental timing of the neuronal circuit wiring**
 (WS6a-2)
 ○Takashi Suzuki^{1,2}, K Mann², S Berger-Mueller², M Wang², S H Luu², S Ohler², S Hakeda-Suzuki² (¹Core Div. Adv. Study, Dept. Bioscience, Tokyo Inst. Tech., ²Max 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 Kawano¹, Xiaohong Song^{1,2}, Hideaki Tanaka^{1,2}, Kunimasa Ohta¹ (¹Dep. Dev. Neurobiol., Grad. Sch. Life Sci., Kumamoto Univ., ²Global COE Kumamoto University)
- P2-188** **Draxin from neocortical neurons controls thalamocortical projections into the neocortex**
 ○Yohei Shinmyo¹, Asrafuzzaman Riyadh^{1,2}, Mahmud Hossain^{1,2}, Giasuddin Ahmed^{1,2}, Iftekhhar B. Naser^{1,2}, Xiaohong Song^{1,2}, Ayako Ito^{1,2}, Hirohide Takebayashi³, Kunimasa Ohta¹, Hideaki Tanaka^{1,2} (¹Dept. of Dev. Neurobiol., Kumamoto Univ., ²GCOE, Kumamoto Univ., ³Dept. of Morphol. Neural Sci., Kumamoto Univ.)
- P2-189** **Involvement of En-2 in tectal laminar formation in chick embryos**
 (WS6a-9)
 ○Minoru Omi¹, Yuji Watanabe^{1,2}, Harukazu Nakamura^{1,2} (¹Dept. of Mol. Neurobiol., Grad. Sch. Life Sci., Tohoku Univ., ²Dept. of Mol. Neurobiol., IDAC, Tohoku Univ.)
- P2-190** **Remodeling and Life-long Maintenance of Dendritic Arbors of Neurons**
 ○Kohei Shimono¹, Takafumi Nomura¹, Tadao Usui¹, Atsushi Toyoda², Tadashi Uemura¹ (¹Grad. Sch. Biostudies, Kyoto Univ., ²National Institute of Genetics)
- P2-191** **Role of type IV collagen in axogenesis of cerebellar granule cells in zebrafish**
 ○Miki Takeuchi¹, Takashi Shimizu^{1,2}, Kazuhide Asawaka³, Koichi Kawakami³, Shigenobu Yonemura⁴, Masahiko Hibi^{1,2} (¹Bioscience and Biotechnology Center, Nagoya Univ., ²Graduate School of Science, Nagoya Univ., ³National Institute of Genetics, ⁴RIKEN Center for Developmental Biology)
- P2-192** **Cdk5 plays multiple roles in cortical neuronal migration and morphological changes**
 (WS6a-10)
 ○Takeshi Kawauchi^{1,2}, Yoshiaki V. Nishimura^{1,3}, Mima Shikanai¹, Koh-ichi Nagata³, Kazunori Nakajima¹ (¹Dept. of Anat., Keio Univ. Sch. of Med., ²PRESTO, JST, ³Dept. 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 Suto¹, Noriko Osumi², Noritaka Ichinohe¹ (¹Dep. of Ultrastructural Res., National Inst. of Neurosci., NCNP, ²Div. 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** **A path of growing blood vessels in the spinal cord is determined by an interface between differentiated and undifferentiated neurons**
 (WS6a-7)
 ○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** **Dickkopfs regulate organ growth during lateral line development in zebrafish**
 (WS6a-6)
 ○Hironori Wada¹, Koichi Kawakami² (¹PRESTO, Japan Science and Technology Agency, ²National 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 Sasakawa² (¹National Institute of Genetics, ²Riken CDB, ³Department 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 Shinoda¹, Mayumi Okamoto¹, Ken Sagou¹, Hiroaki Takagi², Masahiro Ueda³, Sachiko Tsukita⁴, Toshihiko Fujimori⁵, Takaki Miyata¹ (¹Dept. Anatomy and Cell Biology, Nagoya Univ. Grad. Sch. of Med., ²Dept. Physics, Nara Medical Univ., ³Lab. for Nanobiology, Grad. Sch. of Frontier Biosciences, Osaka Univ., ⁴Lab. of Bioscience, Grad. Sch. of Frontier Bioscience and Grad. Sch. of Med., Osaka Univ., ⁵Div. 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**
OXianjue 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**
OTatsuru 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**
OTaketo Yamada, Kohji Yamada (Dept. Pathol., Sch. of Med., Keio Univ.)
- P3-004** **Modulation of JNK signaling by Toll pathway in Drosophila**
OChen 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.**
OTakashi Nakamura^{1,2}, Mizuho Sato¹, Norihiro Isida-Kitagawa², Ryo Iwamoto¹, Eisuke Mekada¹ (¹Dept. of Cell Biol., Research Institute for Microbial Diseases, Osaka Univ., ²Dept. of Mol. Oncology, Graduate School of Biological Sciences, Nara Inst. of Science and Technology)
- P3-006** **A dual and opposite role of NLK-mediated Lef1 phosphorylation on the Wnt/ β -catenin signaling.**
(WS1b-9) OTohru 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**
OToyoko Akiyama¹, Ai Shinomiya¹, Keiji Kinoshita², Makoto Mizutani³, Yoichi Matsuda³ (¹Dept. of Biol., Keio Univ., ²Lab. of Animal breeding and Genetics, Hiroshima Univ., ³Avian Biosci. Res. Center, Nagoya Univ.)
- P3-008** **Genetic interaction between Wingless and JNK signaling transduction pathways**
OShiping 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.**
OShizuka 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**
OHiroto Mizushima¹, Takuya Murata^{2,3}, Ichino Chinen¹, Hiroki Moribe¹, Shigeo Yagi⁴, Robert M Hoffman^{5,6}, Tadashi Kimura³, Kiyoshi Yoshino³, Yutaka Ueda³, Takayuki Enomoto³, Eisuke Mekada¹ (¹Dept. Cell Biol., Res. Inst. Microbial Diseases, Osaka Univ., ²Obst. & Gyn. Osaka-Saiseikai-Nakatsu Hosp., ³Dept. Obst. & Gyn. Osaka Univ. Sch. of Med., ⁴AntiCancer Inc. Japan, ⁵AntiCancer Inc., ⁶Dept. Surgery, UCSD)
- P3-011** **Novel Roles of Glycosylation in *Drosophila* Innate Immunity**
(WS1b-7) OMiki Yamamoto-Hino^{1,2}, Takako Shibano², Wakae Awano², Masatoshi Muraoka³, Hideyuki Okano¹, Satoshi Goto^{1,2} (¹Dept. of Physiol., School of Med., Keio Univ., ²Mitsubishi-Kagaku Inst. Life Sc., ³Tokyo Metropolitan Inst. of Med. Sci.)
- P3-012** **Analysis of multinucleation induced by Aurora kinase B siRNA.**
OKeiichiro 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*.**
OHaruhiko Asakawa¹, Yuji Chikashige^{2,3}, Chizuru Ohtsuki¹, Masaaki Iwamoto², Yasushi Hiraoka^{1,2,3}, Tokuko Haraguchi^{1,2,3} (¹Grad. Sch. of Frontier Biosci., Osaka Univ., ²Advanced ICT Res. Inst. Kobe, NICT, ³Grad. Sch. of Sci. Osaka Univ.)
- P3-014** **Sbno1 is required for survival of differentiating neurons and morphogenesis of the neural stem cells**
OYu Katsuyama¹, Hideaki Imai², Taku Sugiyama¹, Noriko Osumi¹, Toshio Terashima² (¹Div. of Develop. Neurosci. Tohoku Univ. Graduate School of Medicine, ²Div. 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 Sugawara¹, Yumi Fukuzaki¹, Banri Yamanoha², Shinichi Kogure¹ (¹Dep. of Bioinfo., Grad. Sch. of Engr., Soka Univ., ²Dep. of Environ. for Symb., Engr. Soka Univ.)
- P3-016** **Nucleoporin Nup358/RanBP2 associates with Karyopherin β1 to orchestrate accurate chromosome segregation in mitosis**
 (WS1b-3)
 ○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 Osumi¹, Yoshio Wakamatsu¹ (¹Div. of Develop. Neurosci., Grad. Sch. of Med., Tohoku Univ., ²Div. of Orthod. Dentofacial Orthop., Grad. Sch. of Dent., Tohoku Univ.)
- P3-018** **Regulation of polyadenylation in starfish oocytes arrested at MI**
 ○Hiroe Ochi¹, Masatoshi Hara², Kazunori Tachibana², Saki Aoto¹, Kazuyoshi Chiba¹ (¹Department of Biological Sciences, Ochanomizu Univ., ²Graduate School of Bioscience, Tokyo Institute of Technology)
- P3-019** **532 nm low-power laser irradiation promoted on cell proliferation of human-derived glioblastoma**
 ○Yumi Fukuzaki¹, Haruna Sugawara¹, Banri Yamanoha², Shinichi Kogure¹ (¹Dep. of Bioinfo., Grad. Sch. of Engr., Soka Univ., ²Dep. 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 Fujimuro¹, Tadashi Watanabe¹, Hiroki Kagawa¹, S. Diane Hayward² (¹Dept. of Cell Biol., Kyoto Pharm. Univ., ²Sidny Kimmel Canc. Cent., Johns Hopkins School of Med.)
- P3-022** **Equarin is involved as an FGF signaling modulator in chick lens differentiation**
 ○Xiaohong Song¹, Yuya Sato², Athary Felemban¹, Ayako Ito¹, Mahmud Hossain¹, Hiroshi Ochiai³, Takashi Yamamoto³, Kiyotoshi Sekiguchi², Hideaki Tanaka¹, Kunimasa Ohta¹ (¹Dep. Dev. Neurobio., Grad. Sch. LifeSci., Kumamoto Univ., GCOE, Kumamoto, ²Laboratory of Extracellular Matrix Biochemistry, Institute for Protein Research, Osaka University, 3-2 Suita, Osaka, ³Department of Mathematical and Life sciences, Graduate School of Science, Hiroshima University, 1-3-1 Higashi-Hiroshima, Hiroshima)
- P3-023** **P90 RSK arranges Chk1 in the nucleus for monitoring of genomic integrity during cell proliferation**
 (WS1b-5)
 ○Hidemasa Goto^{1,2}, Ping Li¹, Kousuke Kasahara^{1,3}, Makoto Matsuyama¹, Zhonghua Wang¹, Yasushi Yatabe⁴, Tohru Kiyono⁵, Masaki Inagaki^{1,3} (¹Div. of Biochem., Aichi Cancer Ctr. Res. Inst., ²Dept. of Cell. Oncol., Nagoya Univ. Grad. Sch. of Med., ³Dept. of Oncol., Grad. Sch. of Pharmaceutical Sci., Nagoya City Univ., ⁴Dept. of Pathol. and Mol. Diagnostics, Aichi Cancer Center Hosp., ⁵Div. of Virol., Natl. Cancer Ctr. Res. Inst.)
- P3-024** **Analysis of programmed cell death in *Xenopus* embryos using a FRET-based caspase biosensor**
 ○Kazuhiro Sakamaki¹, Makoto Suzuki², Chiyo Takagi², Yusuke Hara², Katsuya Kominami¹, Kumiko Chiba¹, Hiroshi Y. Kubota³, Naoto Ueno² (¹Grad. Sch. of Biostudies, Kyoto Univ., ²Dept. Dev. Biol., NIBB, ³Grad. 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 Li¹, Shih-Chen Fan¹, Ching-Wen Liu², Li-Ching Chang¹ (¹Dept. of Occup. Ther., I-Shou Univ., ²Fac. of Pharma., Kaohsiung Med. Univ.)
- P3-028** **Epithelial cell-intrinsic Notch signaling plays an essential role in the maintenance of gut homeostasis**
 (WS1b-10)
 ○Yuuki Obata^{1,2}, Daisuke Takahashi², Kisa Kakiguchi³, Shigenobu Yonemura³, Takashi Kanaya², Koji Hase⁴, Hiroshi Ohno^{1,2} (¹Grad. Sch. of Med., Univ. of Chiba, ²Lab. for Epithelial Immunobiology, RCAI, RIKEN, ³Lab. for Electron Microscope, CDB, RIKEN, ⁴Lab. 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 Kumagai¹, Michiyuki Matsuda^{1,2} (¹Lab. of Bioimaging and Cell Signaling, Grad. Sch. of Biostudies, Kyoto Univ., ²Dep. 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 A specific amino acid metabolic state of human ES/iPS cells and its significance**
 (WS1b-8) ○Nobuaki Shiraki¹, Yasuko Shiraki³, Genta Nagae⁴, Tomonori Tsuyama¹, Hiroyuki Aburatani⁴, Kazuhiko Kume¹, Fumio Endo³, Shoen Kume^{1,2} (¹Dep. of Stem Cell Biol., IMEG, Kumamoto Univ., ²GCOE, Kumamoto Univ., ³Dep. of Pediatrics, Graduate School of Med. Sci., Kumamoto Univ., ⁴Genome 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 Ishigaki¹, Yuka Nakamura¹, Manabu Murakami¹, Mamoru Ozaki¹, Mitsumasa Hashimoto², Kuniyoshi Iwabuchi², Hideaki Nakagawa¹, Naohisa Tomosugi¹, Tsutomu Takegami¹ (¹Med. Res. Inst., Kanazawa Med. Univ., ²Dept. Biochem., Kanazawa Med. Univ.)
- P3-037 How do adult mammalian cardiomyocytes maintain the proliferation arrest?**
 ○Shoji Tane¹, Satoshi Yoshitome², Yukio Satoh¹, Noriko Iwamoto¹, Hitomi Okayama¹, Aiko Ikenishi¹, Toshinori Hayashi¹, Takashi Takeuchi¹ (¹Division of Biosignaling, School of Life Science, Tottori University, ²Department 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 Shuto¹, Kosuke Tanegashima², Kenji Suzuki², Takahiko Hara², Shinichi Abe¹, Kou Eto¹, Yuki Nakayama³ (¹GSST, Kumamoto Univ., ²Tokyo Metropolitan Institute of Medical Science., ³Priority Organization for Innovation and Excellence, Kumamoto Univ.)
- P3-040 Correlation analysis of the molecular conformation and signal-responsiveness of RAF by FRET imaging in individual cells.**
 (WS1b-1) ○Kayo Hibino^{1,2}, Masahiro Ueda¹, Yasushi Sako² (¹QBIC, RIKEN, ²ASI, RIKEN)
- P3-041 Analysis of the royal jelly proteome and characterization of the functions of its derivation glands by using proteomics**
 ○Toshiyuki Fujita¹, Hiroko Kozuka-Hata², Hiroko Kondo², Takekazu Kunieda¹, Masaaki Oyama², Takeo Kubo¹ (¹Dept. of Biol. Sci., Grad. Sch. of Sci. Univ. of Tokyo, ²Med. Proteomics Lab., Inst. of Med. Sci., Univ. of Tokyo)
- P3-042 Karyotype Analysis of Schizosaccharomyces pombe variants.**
 ○Yuji Chikashige^{1,2}, Chihiro Tsutsumi¹, Miho Yamane¹, Kasumi Okamasa¹, Chie Mori¹, Tokuko Haraguchi^{1,2}, Yasushi Hiraoka^{1,2,3} (¹National Institute of Information and Communications Technology, ²Department of Biology, Graduate School of Science, Osaka University, ³Graduate 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 Serine/Threonine phosphatase PP5 regulates LRRK1 kinase activity during mitosis**
 (WS1b-4) ○Kazuhito Sai, Hiroshi Hanafusa, Kunihiro Matsumoto (Dept. Biol. Sci., Grad. Sch. 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 Kira¹, Tamotsu Yoshimori^{1,2}, Takeshi Noda^{1,2} (¹Graduate school of Frontier Bioscience, Osaka University, ²Department of Genetics, Graduate School of Medicine, Osaka University)
- P3-048 Nuclear envelope assembly at the DNA-coated polystyrene beads during mitosis**
 ○Shouhei Kobayashi¹, Tomoko Kojidani¹, Hiroko Osakada¹, Chie Mori¹, Takako Koujin¹, Yasushi Hiraoka^{1,2,3}, Tokuko Haraguchi^{1,2,3} (¹Advanced ICT Research Institute Kobe, National Institute of Information and Communications Technology, ²Graduate School of Frontier Biosciences, Osaka University., ³Graduate School of Science, Osaka University.)
- P3-049 Cyclic phosphatidic acid protects hypoxia induced apoptosis in neuroblastoma**
 ○Katsura Maeda-Sano^{1,2}, Mari Gotoh¹, Harumi Hotta³, Hiromu Murofushi¹, Kimiko Murakami-Murofushi¹ (¹Graduate School of Humanities and Sciences, Ochanomizu University, ²Reserch Department, ALBION CO., LTD., ³Department of Autonomic Neuroscience, Tokyo Metropolitan Institute of Gerontology)
- P3-050 Analysis of Rab5 in fission yeast**
 (WS1b-2) ○Yuta Tsukamoto¹, Chisako Katayama¹, Masaaki Miyamoto^{1,2} (¹Dep. of Biol., Grad. Sch. of Sci., Kobe Univ., ²CSREA, Kobe Univ.)
- P3-051 Regulation of the Rac activator Tiam1 by aPKC phosphorylation**
 ○Kenji Matsuzawa¹, Takashi Watanabe¹, Shujie Wang², Toshinori Matsui¹, Mai Kakeno¹, Kozo Kaibuchi¹ (¹Dept. of Cell Pharmacol., Grad. School of Med., Nagoya Univ., ²Dept. 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 α 1.**
 ○Chihiro Kimoto¹, Noriko Yasuhara², Yoshihiro Yoneda^{1,2} (¹Biomol. Dyn. Group., Grd. Sch. of F.B.S., Osaka Univ., ²Biochem., Grd. Sch. of Med., Osaka Univ.)
- P3-054 Importin α regulates the stem cell differentiation**
 ○Noriko Yasuhara¹, Ryosuke Yamagishi², Hiroki Kaneko², Chihiro Kimoto³, Yoshihiro Yoneda^{1,3} (¹Biochem., Med., Osaka Univ., ²Int. Sci., Col. of Hum. and Sci., Nihon Univ., ³Biomol. Dynamics, Frontier Biosci., Osaka Univ.)
- P3-055 Identification of integrin α PS3 β v as a receptor for phagocytosis of apoptotic cells in *Drosophila* embryos**
 (WS1b-6) ○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 Ayukawa¹, Yusuke Hara^{1,2}, Hiromi Akagawa^{1,2}, Tatsuya Sudo¹, Masashi Iwamura¹, Ayano Ishizuka¹, ○Hidenobu Tsujimura¹ (¹Dev. Biol., Tokyo Univ. of Agric. and Tech., ²Biol. 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'y 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 Dynamics of cultured human epidermal keratinocyte stem cells**
 (WS2b-4) ○Daisuke Nanba¹, Fujio Toki¹, Natsuki Matsushita¹, Hiroshi Toki², Shigeki Higashiyama¹, Yann Barrandon³ (¹ProMRes, Ehime Univ., ²RCNP, Osaka Univ., ³LDCS, EPFL)

- P3-062 Proximal limb structure is regenerated by BMP-mediated mechanism in axolotl limb regeneration**
 ○Aki Makanae¹, Miyuki Moriyasu¹, Akira Satoh^{1,2} (¹RCIS, Okayama Univ., ²PRESTO, JST)
- P3-063 Transportation of Transplantable Cell Sheets for Regenerative Medicine Treatment**
 ○Takayuki Nozaki¹, Yoshinori Oie², Shizu Takeda¹, Keisuke Mori¹, Noboru Moriya¹, Kazuo Saito¹, Ryuhei Hayashi², Kohji Nishida² (¹Central Research Laboratory, Hitachi, Ltd., ²Department of Ophthalmology, Osaka University Graduate School of Medicine)
- P3-064 Tsukushi maintains the growth and undifferentiated properties of stem/progenitor cells as a niche molecule**
 (WS2b-3)
 Ayako Ito¹, Yohei Shinmyo¹, Nahoko Kaneko², Yuki Hirota², Jun Hatakeyama¹, Masahiro Yamaguchi³, Kenji Shimamura¹, Kazunobu Sawamoto², Hideaki Tanaka¹, Okunimasa Ohta¹ (¹Div. of Dev. Neurobiol., Kumamoto Univ., ²Nagoya City University, Nagoya, Japan, ³University of Tokyo, Tokyo, Japan)
- P3-065 Sea urchin egg preservation and the spontaneous cell death of preserved egg.**
 ○Masato Kiyomoto (Tateyama Mar. Lab., Mar. Coastal Res. Center, Ochanomizu Univ.)
- P3-066 Requirement of ADP-Ribosylation Factor 6 for the Development of Mouse Germ Cells**
 ○Hiroshi Hasegawa^{1,2}, Yusuke Kanai¹, Tsunaki Hongu¹, Yasunori Kanaho¹ (¹Dept. of Physiol. Chem., Fac. of Med., Univ. of Tsukuba, ²Lab. of Dev. Neurosci., Fac. of Med., Univ. of Tsukuba)
- P3-067 A putative somatic role of the germline-specific gene *piwi* in the central nervous system of *Ciona intestinalis***
 (WS2b-1)
 ○Kotaro Shimai¹, Aoi Ichinose¹, Takeo Horie², Yuki Miyamoto¹, Yasuko Terashima¹, Koki Nihitsuji³, Maki Shirae-Kurabayashi⁴, Akira Nakamura⁴, Rie Kusakabe⁵, Kunio Inoue⁵, Takehiro G. Kusakabe¹ (¹Dep. Bio., Fac. Sci. Eng., Konan Univ., ²Shimoda Marine Research Center, University of Tsukuba, Japan, ³Graduate School of Life Science, University of Hyogo, Japan, ⁴RIKEN CDB, Japan, ⁵Graduate 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 Kato¹, Rie Saba¹, Yumiko Saga^{1,2,3} (¹Div. of Mam. Dev., Natl. Inst. of Genet., ²Dept. of Genet, SOKENDAI, ³Dept. of Biol. Sciences, Grad. Schl of Science, Univ. of Tokyo,)
- P3-070 A toxic protein in cultured cells is functional only in mammalian mature sperm formation**
 (WS2b-10)
 ○Nobuyoshi Takasaki¹, Kouichi Tachibana¹, Satoshi Ogasawara¹, Hideki Matsuzaki¹, Jun Hagiuda², Hiromichi Ishikawa², Keiji Mochida³, Kimiko Inoue³, Narumi Ogonuki³, Atsuo Ogura³, Toshiaki Noce⁴, Chizuru Ito⁵, Kiyotaka Toshimori⁵, Hisashi Narimatsu¹ (¹Medical Glycoscience, AIST, ²Tokyo Dental Collage, ³Riken BRC, ⁴Keio University, ⁵Chiba 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 Selective epigenetic gene regulation via DNA demethylation and bivalent histone modification in primordial germ cells.**
 (WS2b-9)
 ○Kentarō Mochizuki¹, Makoto Tachibana², Mitunori Saitou³, Yuko Tokitake¹, Yasuhisa Matsui¹ (¹Inst. of Development, Aging and Cancer, Tohoku Univ., ²Inst. for Virus Res., Kyoto Univ., ³Grad. 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 Yuasa¹, Yasushi Hiromi^{1,2} (¹Div. of Developmental Genetics, National Inst. of Genetics (NIG), ²SOKENDAI)
- P3-076 Keeping the balance of differentiation within the stem cell precursor pool in the *Drosophila* ovary**
 (WS2b-6)
 ○Shinya Matsuoka^{1,2}, Miho Asaoka^{1,2}, Yasushi Hiromi^{1,2} (¹National Institute of Genetics, ²SOKENDAI)

- P3-077 Development of the model system for molecular genetics for the regenerative studies in urodeles.**
 OToshinori 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.**
 OSoichiro Ogaki¹, Nobuaki Shiraki¹, Kazuhiko Kume¹, Shoen Kume^{1,2} (¹Div. of Stem Cell Biol., IMEG, Kumamoto Univ, ²GCOE., Kumamoto Univ)
- P3-079 A high throughput screening system for molecules promoting pancreatic β -cell differentiation of ES cells.**
 (WS2b-5) ODaisuke Sakano^{1,2}, Nobuaki Shiraki¹, Masateru Kataoka¹, Kazuhide Kikawa^{1,3}, Fumio Endo³, Kazuhiko Kume¹, Motonari Uesugi⁴, Shoen Kume^{1,2} (¹Div. of Stem Cell Biol., IMEG, Kumamoto Univ., ²G-COE, Kumamoto Univ., ³Dept. of Pediatrics, Graduate School of Medical Sciences, Kumamoto Univ, ⁴iCeMS, Kyoto Univ.)
- P3-080 Six1 and Six4 homeodomain proteins act downstream to BMP signal in mouse primordial germ cell formation.**
 OSatomi S. Tanaka¹, Yasuka L. Yamauchi¹, Yuka Fujimoto¹, Kiyoshi Kawakami², Ryuichi Nishinakamura¹ (IMEG, Kumamoto Univ., ²Jichi Medical Univ.)
- P3-081 Roles of DNA repairing factor Rad18 in maintenance of mouse spermatogonial stem cell**
 ONatsuko Iyoda¹, Mai Akihisa¹, Saori Ochi², Satoshi Tateishi³, Kentaro Yomogida⁴ (¹Graduate School of Human Envi. Sci. Mukogawa Womens Univ, ²Dept. of Food Sci Nutri., Mukogawa Womens Univ, ³Inst. of Mol. Embryol. Gent. Kumamoto Univ, ⁴Inst. of Biosci. Mukogawa Womens Univ)
- P3-082 Pgc protects germ plasm RNAs from miRNA-mediated degradation in *Drosophila* primordial germ cells.**
 (WS2b-7) OKazuko 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***
 OKazutaka Hosoda¹, Osamu Nishimura², Shigenobu Yazawa¹, Yoshihiko Umesono³, Kiyokazu Agata¹ (¹Dept. of Biophys., Kyoto Univ., ²GCOE, Kyoto Univ., ³RIKEN CDB)
- P3-084 Establishment of nitroreductase-mediated cell ablation using Cre-loxP system in zebrafish**
 OKazunori Ando, Nozomi Yoshinari, Atsushi Kawakami (Tokyo Inst. Tech.)
- P3-085 Analysis of the expression patterns of Cell cycle regulator genes during newt cardiac regeneration**
 OKakira Matsumoto¹, Toshinori Hayashi¹, Naoki Yokotani¹, Eri Kawaguchi², Osamu Nishimura², Takeshi Inoue², Kiyokazu Agata², Takashi Takeuchi¹ (¹School of life sciences, Tottori University, ²Graduate school of science, Kyoto University)
- P3-086 Amphibian retinal regeneration is triggered by matrix metalloproteinase and is accompanied with epigenetic modification**
 OH Naitoh¹, E Okuhara¹, Y Ueda¹, N Sudou^{2,3}, H Ogino^{2,3}, M Araki¹ (¹Dev. Neurobiol. Lab., Dept. of Biol. Sci., Nara Women's University, Graduate School, ²Graduate School of Biol. Sci., Nara Institute of Science and Technology, ³JST, CREST)
- P3-087 Neural stem/progenitor cells in the iris tissues of the chick embryo**
 (WS2b-2) OM Araki¹, T Ishikawa¹, A Fujihara¹, M Kosaka² (¹Dev. Neurobiol. Lab., Nara Women's University, ²Human 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**
 OMakoto Kashima¹, Taisuke Ishiko¹, Haruhiko Siomi², Kuniaki Saito², Mikiko C. Siomi², Eri Kawaguchi³, Osamu Nishimura³, Shigenobu Yazawa³, Norito Shibata³, Kiyokazu Agata¹ (¹Dept. of Biophys., Grad. Sch. of Sci., Uni. of Kyoto, ²Dept. of Mol. Biol., Sch. of Med., Uni. of Keio, ³GCOE 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***
 OYuko 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**
 OYoshiko Kametani^{1,2}, Shinji Takada¹, Didier Y Stainier² (¹Okazaki Inst. Integrative Bioscience, ²UCSF)
- P3-091 Protein analysis of grimp, a gene involved in early regeneration of *Enchytraeus japonensis* (Enchytraeidae, Oligochaeta)**
 Chikako Yoshida-Noro^{1,2}, OGaku Sato¹, Shota Noguchi¹, Yoshikazu Mikami³, Tomihisa Takahashi³, Makoto Takeo^{4,5}, Shin Tochinai⁴ (¹Dept. Appl. Mol. Chem., CIT, Nihon Univ., ²ARISH, Nihon Univ. & Div. Cell Regen. & Transpl., Nihon Univ. Sch. Med., ³Dept. Anat., Nihon Univ. Sch. Dent., ⁴Fac. Sci., Hokkaido Univ., ⁵New York Univ. Sch. Med.)

- P3-092** **The germ plasm-independent mechanism for the germ cell specification in *C. intestinalis***
(WS2b-8) ◯Maki Shirae-Kurabayashi¹, Yasunori Sasakura², Akira Nakamura³, Takashi Yamamoto¹ (¹Dept. of Math. and Life Sci., Hiroshima Univ., ²Shimoda Mar. Res. Cent., Univ. Tsukuba, ³RIKEN 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 Moriyama¹, Munehiro Asally¹, Koichi Kawakami³, Yoshihiro Yoneda^{1,2} (¹Grad. Sch. of Frontier Biosciences, Osaka Univ., ²Dept. of Biochem., Grad. Sch. of Med., Osaka Univ., ³Div. of Mol. and Dev. Biol., National Institute of Genetics)
- P3-094** **Toward the transcriptome of stem cells in the sponge *Ephydatia fluviatilis***
◯Alexandre Alie¹, Tetsutaro Hayashi², Nori Satoh³, Osamu Nishimura⁴, Kiyokazu Agata¹, Noriko Funayama¹ (¹Laboratory of Molecular Developmental Biology, Dpt of Biophysics, Graduate School of Science, Kyoto University, ²Genome Resource and Analysis Unit, RIKEN Center for Dev. Biol., ³Marine Genomics Unit, Okinawa Institute of Science and Technology, ⁴Global 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. Mochizuki¹, Mihoko Hosokawa^{1,2}, Ami Katanaya¹, Eri Hayashi¹, Norio Nakatsuji^{1,2}, Shinichiro Chuma¹ (¹Dep. of Dev. and Differ., Inst. for Frontier Med.Sci., Kyoto Univ., ²Inst. 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 Torigata¹, Daisuke Okuzaki^{1,2}, Norikazu Yabuta¹, Hiroshi Nojima^{1,2} (¹Dept. Mol. Genet. RIMD, Osaka Univ., ²DDCID, RIMD, Osaka Univ.)
- P3-097** **A transcription factor Abf1 facilitates ORC binding onto the *Saccharomyces cerevisiae* replication origin via histone acetylase Gcn5.**
(WS3b-2) ◯Hidetsugu Kohzaki^{1,2,3}, Kaeko Kamei^{2,4}, Yota Murakami^{1,5} (¹Dept. Cell Biol., IVR, Kyoto Univ., ²Venture Lab., Kyoto Inst. Tech, ³Japan Leukaemia Research Fund, ⁴Dept. Biomolecular Engineering, Kyoto Inst. Tech, ⁵Dept. Chem., Faculty of Science, Hokkaido Univ.)
- P3-098** **Roles of actin-related proteins in chromatin function and nuclear organization**
(WS3b-3) Yukako Oma¹, Hiroshi Kitamura¹, Tatsunori Konishi¹, Susan Gasser², Pavel Hozak³, ◯Masahiko Harata¹ (¹Lab. of Mol. Biol., Grad. Sch. of Agri. Sci, Tohoku Univ., ²Friedrich Miescher Institute for Biomedical Research, ³Department 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 Sultan¹, Hitoshi Ueda^{1,2} (¹Grad. Sch. of Nat. Sci. and Tech., Okayama Univ., ²Dept. of Bio. Fac. of Sci. Okayama Univ.)
- 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**
(WS3b-6) ◯Yukimasa Shibata^{1,2}, Hitoshi Sawa^{2,3}, Kiyoji Nishiwaki¹ (¹Dep. of Biosci., Sch. of Sci. and Tech., Kwasei Gakuin Univ., ²RIKEN CDB, ³NIG)
- P3-102** **Exportin 4 interacts with Sox9 through the HMG box and inhibits the DNA binding of Sox9**
(WS3b-5) ◯Hidesato Ogawa^{1,2}, Megumi Tsuchiya², Tokuko Haraguchi^{1,2}, Yasushi Hiraoka^{1,2} (¹Advanced ICT Research Institute Kobe, NICT, ²Graduate School of Frontier Biosciences, Osaka Univ.)
- P3-103** **The H3K27 demethylase, JMJD3, is essential for *Xenopus* eye development**
◯Akane Kawaguchi¹, Haruki Ochi^{1,2}, Norihiro Sudou^{1,2}, Hajime Ogino^{1,2} (¹Nara Institute of Science and Technology, ²JST, 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** **PRDM14 promotes active DNA demethylation through base excision repair pathway in embryonic stem cells.**
(WS3b-1) ◯Yoshiyuki Seki¹, Yuichi Kumaki², Mitunori Saitou³, Masaki Okano², Kuniaki Ebi¹ (¹Dep. of Bio., Sch. of Sci. and Tech., K.G., Univ., ²Lab. for Mam. Epi. Stud., RIKEN CDB, ³Dep. 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, OLeo Tsuda (National Center for Geriatrics and Gerontology)
- P3-107** **Expression profiles of individual blastomeres in the early *Ciona intestinalis* embryo**
OTerumi 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**
OHiroshi 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**
OMakoto 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**
OTakashi Kondo, Haruhiko Koseki (RCAI, RIKEN)
- P3-111** **DNA-methyltransferase 1 functions as a suppressor of neuronal differentiation in late-gestational neural stem cells.**
OHirofumi 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**
OFumitaka Inoue¹, Daisuke Kurokawa^{1,2}, Maiko Takahashi¹, Shinichi Aizawa¹ (¹CDB, RIKEN, ²MMBS, Univ. Tokyo)
- P3-113** (WS3b-9) **Chk1 phosphorylates the tumor suppressor Mig-6, regulating the activation of EGF signaling**
OMasatoshi 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**
OYuji Kamioka¹, Kenta Sumiyama², Rei Mizuno¹, Michiyuki Matsuda¹ (¹Grad. Sch. of Med., Kyoto Univ., ²National Institute of Genetics, Div. of Pop. Genet.)
- P3-115** (WS4b-9) **Label-free Raman observation of cytochrome c dynamics in apoptotic cells**
OMasaya Okada¹, Nicholas I. Smith², Almar F. Palonpon³, Satoshi Kawata^{1,4}, Mikiko Sodeoka^{3,4}, Katsumasa Fujita^{1,3} (¹Dept. of Appl. Phys., Univ. of Osaka, ²Immunol. Front. Res. Ctr., Univ. of Osaka, ³JST, ⁴RIKEN)
- 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, OYoshinobu 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**
OTomohiro 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**
OTakashi Murata^{1,3}, Shigenori Nonaka^{2,3}, Mitsuyasu Hasebe^{1,3} (¹Div. of Evol. Biol., Natl. Inst. for Basic Biol., ²Lab. for Spatiotemporal Regul., Natl. Inst. for Basic Biol., ³Dept. 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.**
OTogo Shimozawa¹, Kazuo Yamagata², Hiroshi Nakayama³, Yasuhito Kosugi³, Yuko Mimori-Kiyosue¹ (¹Opt. Image Analysis Unit, RIKEN Cent. for Dev. Biol., ²Dept. of Exp. Gen. Res., Gen. Inf. Res. Cent., Res. Inst. for Micro. Dis., Osaka Univ., ³Life Sci. HQ., Prod. Mark. Sec., Yokogawa Electric Co.)
- P3-120** (WS4b-5) **Biomolecular imaging of *C. elegans* by MALDI-IMS**
OSaira Hameed¹, Yoshishige Kimura¹, Yuki Sugiura², Takahiro Hayasaka¹, Naok_Goto Inoue³, Mitsutoshi Setou¹ (¹Dept. of Cell Bio. and Anatomy, Hamamatsu Univ. School of Med., Japan, ²Dept. of Medical Biochemistry, School of Med., Keio Univ., Japan, ³Graduate School of Human Health Sci., Tokyo Metropolitan Univ., Japan)
- P3-121** **Visualization of ERK activity in the intestine of living mice.**
ORei Mizuno^{1,2}, Yuji Kamioka¹, Yoshiharu Sakai², Michiyuki Matsuda¹ (¹Dept. of Pathol. and Biol. of Diseases, Grad. Sch. of Med., Kyoto Univ., ²Dept. of Gastrointestinal Surg., Grad. Sch. of Med., Kyoto Univ.)

- P3-122** **Fine mapping of autophagy-related proteins during autophagosome formation in *Saccharomyces cerevisiae***
(WS4b-10)
○Kuninori Suzuki¹, Manami Akioka², Chika Kondo², Yoshinori Ohsumi² (¹Bioimaging Center, Grad. School of Frontier Sciences, Univ. of Tokyo, ²Frontier Research Center, TITECH)
- P3-123** **Improved single-molecule speckle microscopy methods which enable to analyze dynamics of various actin structures.**
(WS4b-8)
○Sawako Yamashiro¹, Hiroaki Mizuno¹, Matthew B. Smith², Gillian L. Ryan², Dimitrios Vavylonis², Naoki Watanabe¹ (¹Tohoku University Graduate School of Life Sciences, ²Dept. of Physics, Lehigh Univ., Bethlehem, PA, USA)
- P3-124** **Kinetic analysis and live imaging of whole mouse embryo**
(WS4b-2)
○Kenichi Nakazato¹, Atsushi Mochizuki¹, Takehiko Ichikawa², Shigenori Nonaka² (¹Theoretical Biology Laboratory, RIKEN, ²NIBB)
- 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 Chansela¹, Takahiro Hayasaka², Noritaka Masaki², Morakot Sroyraya¹, Saowaros Suwansa-ard¹, Attakorn Engsusophon¹, Prasert Sobhon¹, Mitsutoshi Setou² (¹Dept. of Anat., Fac. of Sci., Mahidol Univ. BKK., ²Dept. of Cell Biol. and Anat., Hamamatsu Univ. Sch. of Med., Handayama, Higashi-ku, Hamamatsu)
- P3-126** **Functions and spatiotemporal activation patterns of Rho family GTPases in living new neurons migrating in the postnatal mouse brain.**
(WS4b-4)
○Takao Hikita¹, Akihisa Ohno¹, Masato Sawada¹, Haruko Ota¹, Michiyuki Matsuda², Kazunobu Sawamoto¹ (¹Dept. of Dev. and Regene. Biol., Nagoya City Uni. Grad. Sch. of Med. Sci., ²Lab. 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 Sedohara¹, Hideyuki Okano², Erika Sasaki¹ (¹Department of Applied Developmental Biology, Central Institute for Experimental Animals, ²Department 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** **Reconsidering the mechanistic view of embryogenesis.**
(WS5b-10)
○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** **Comparative gene expression analysis of heterochronic development of marsupial cranial neural crest**
(WS5b-6)
○Yoshio Wakamatsu¹, Noriko Osumi¹, Kunihiro Suzuki² (¹Div. of Dev. Neurosci., Grad. Sch. of Med., Tohoku Univ., ²Nihon 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 Jang³, Jianbo Wang⁵, Anthony Wynshaw-Boris⁵, Richard R. Behringer³, Hiroshi Sasaki^{1,2,4} (¹Graduate school of medicine, Univ. of Osaka, ²RIKEN CDB, ³Univ. of Texas MDACC, ⁴Univ. of Kumamoto, Institute of Molecular Embryology and Genetics., ⁵Dept. of Pediatrics and Medicine, Univ. of California, San Diego.)
- P3-135** **Maternal mRNA recruitment is required for DNA replication in mouse zygote**
(WS5b-1)
○Shin Murai¹, Yusuke Fukuda², Yukiko Katagiri², Mineto Morita², Shigeru Yamashita¹ (¹Dept of Biochem, Toho Univ, Sch of Med, ²Dept 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** **The forkhead transcription factor *FoxB1* mediates body axis coordination and developmental canalization during early *Xenopus* embryogenesis.**
 (WS5b-2) ○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** **Phylogenetic analyses have revealed a unique origin of NAP, a Volvocales unconventional actin, in Chlorophyta.**
 ○Takako Kato-Minoura¹, Kumiko Karino¹, Nobuyuki Akimoto¹, Norito Yoshiga¹, Seishiro Aoki² (¹Dept. of Biol. Sci., Fclty. of Sci. and Eng., Chuo Univ., ²Dept. 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** **Development of a new culture method for a precursor to the neural crest and pre-placodal ectoderm**
 (WS5b-7) ○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** **Evolution of a tissue-specific silencer underlies divergence in the expression of paralogues**
 (WS5b-9) ○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 Envntl. 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 Inyawilert¹, Shih-Han Wang¹, Chao-Jung Chen², Pin-Chi Tang¹, San-Yuan Huang¹ (¹Department of Animal Science, National Chung Hsing University, ²Graduate Institute of Integrated Medicine China Medical University)
- P3-150** **Conservation and diversity of *Six1* gene enhancers in chordates**
 (WS5b-8) ○Shigeru Sato¹, Keiko Ikeda¹, Go Shioi², Kazuki Nakao², Shinichi Aizawa², Hiroshi Yajima¹, Kiyoshi Kawakami¹ (¹Div. of Biology, Ctr. for Mol. Med., Jichi Med. Univ., ²LARGE, 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 phylogenetically remote ascidian from *Ciona intestinalis*.**
 ○Yuka Sekigami¹, Takuya Kobayashi¹, Ai Omi¹, Tetsuro Ikuta¹, Asao Fujiyama², Noriyuki Satoh³, Hidetoshi Saiga¹ (¹Tokyo Metropolitan University, ²NIG, ³OIST)
- P3-153** **Antagonizing Retinoic Acid and FGF/MAPK pathways control posterior body patterning in the invertebrate chordate *Ciona intestinalis*.**
 (WS5b-4) ○Andrea Pasini¹, Raoul Manenti², Ute Rothbacher¹, Patrick Lemaire³ (¹IBDML Institut de Biologie du Developpement de Marseille-Luminy, CNRS, ²Universita di Milano, Milan, Italy, ³CRBM, Montpellier, France)

- P3-154** Regulation of *orthodenticle* and Wnt/Cad signaling pathway in anterior-posterior axis patterning during cricket early embryogenesis
(WS5b-3)
○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** Visualizing morphogen diffusion dynamics during lung branching morphogenesis in vitro.
(WS6b-8)
○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 Lee¹, Yoshihiro Morishita² (¹Kyushu Univ., ²RIKEN, CDB)
- P3-160** Analysis of pattern formation in multicellular cyanobacteria by CA model
(WS6b-1)
○Jun-ichi Ishihara^{1,2}, Masashi Tachikawa², Hideo Iwasaki¹, Atsushi Mochizuki² (¹Dept. of Electr. Engin. and Biosci., Waseda Univ., ²Theoretical Biology Laboratory, RIKEN)
- P3-161** Biochemical and functional analyses of rdd, novel secretory proteins, in *Xenopus* embryo
○Jong-chan Lim¹, Sayaka Kurihara¹, Rie Tamaki¹, Yutaka Mashima¹, Mitsugu Maéno² (¹Grad. Sch. of Sci., Niigata Univ., ²Dept. of Biol., Fac. of Sci., Niigata Univ.)
- P3-162** Exploring Molecular Functions of Atypical Cadherins Dachous and Fat that Affect Morphogenesis at Multiple Levels from Cell to Organ
○Masaki Arata¹, Yutaro Nishino¹, Kousuke Mouri¹, Toshiyuki Harumoto¹, Yuzo Watanabe¹, Motoki Saito¹, Tadashi Uemura^{1,2} (¹Graduate School of Biostudies, Kyoto University, Japan, ²CREST, JST)
- P3-163** Live cell imaging of collective migration in 3D morphogenesis of epithelial cells
(WS6b-6)
○Misako Imai, Takeomi Mizutani, Kazushige Kawabata, Hisashi Haga (Transd. Life Sci., Grad. Sch. of Life Sci., Hokkaido Univ.)
- P3-164** Angiotensin 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** Dynamic calcium signals in the node of mouse embryo during the time course of left-right axis formation
(WS6b-7)
○Daisuke Takao¹, Rieko Kanda¹, Tomomi Nemoto², Hiroko Kajiura-Kobayashi¹, Takehiko Ichikawa¹, Shigenori Nonaka¹ (¹Lab. for Spatiotemporal Regulations, NIBB, ²Lab. 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** Mathematical analysis for vascular and spot patterns by auxin and PIN dynamics in plant development
(WS6b-3)
○Yoshinori Hayakawa^{1,2}, Atsushi Mochizuki^{1,2} (¹Dept Comput. Intelligence & Sys. Science, Tokyo Institute of Technology, ²Theoretical 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 Seki¹, Takayuki Suzuki², Hitoshi Yokoyama¹, Koji Tamura³ (¹Dept. of Dev. Biol. and Neurosci., Grad. Sch. of Life Sci., Tohoku Univ., ²Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.)
- P3-172** **The relation of a periodic pattern formation to iterative protrusion structures in *Neobectkia* leaves.**
 (WS6b-2) ○Akiko Nakamasu¹, Nobuhiko_J Suematsu^{1,2}, Seisuke Kimura³ (¹MIMS, Meiji Univ., ²Graduate School of Advanced Mathematical Sciences, Meiji University, ³Department 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** **Regulation of the systemic growth by insulin-like peptides during *Drosophila* development**
 (WS6b-5) Naoki Okamoto, Tomoka Murai, ○Takashi Nishimura (Lab. of Growth Control Signaling, RIKEN CDB)
- P3-176** **Functional analysis of a novel PCP regulator Jitterbug**
 Tomonori Ayukawa¹, Takehiko Sasaki², ○Masakazu Yamazaki¹ (¹Akita Univ. Sch. of Med., ²Dept. 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 Shioi¹, Mariko Hirano³, Shinichi Aizawa¹ (¹RIKEN Kobe, ²Div. of Dev Neurobiol., Grad. Sch. of Med., Kobe Univ., ³Dept. of Surg. Path., Harvard Med. Sch.)
- P3-178** **Building up the spiculous skeleton: the collaborative work of multiple types of cells in sponges**
 (WS6b-4) Yudai J Nakata¹, Kazushi Arima¹, Sohei Nakayama^{1,2}, Kiyokazu Agata¹, ○Noriko Funayama¹ (¹Dept. of Biophysics, Graduate school of Science, Kyoto Univ., ²Division of Multicellular organization, National Institute of Genetics)
- P3-179** **Structure and formation of the serrated tooth margin of sharks.**
 ○Eri Ushimura¹, Masatoshi Goto², Shinji Shimoda³, Ichiro Sasagawa⁴, Kohei Hatta¹ (¹U of Hyogo, ²Tsurumi U, Junior College, ³Tsurumi U, ⁴Nippon Dental U)
- P3-180** **Quantitative Measurement of Cellular Dynamics of *Drosophila* Tracheal Invagination**
 ○Takuya Maeda¹, Takefumi Kondo¹, Andreas Altenburger¹, Mayuko Nishimura¹, Shuichi Onami², Shigeo Hayashi¹ (¹Morph. Signal., CDB, RIKEN, ²Dev. Dyn., QBiC, RIKEN)
- P3-181** **Quantitative geometrical analysis of tissue deformation during vertebrate limb development**
 (WS6b-9) ○Yoshihiro Morishita¹, Takayuki Suzuki² (¹RIKEN CDB, ²Graduate 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 Nishida¹, Kazutaka Akagi², ○Hitoshi Ueda^{1,2} (¹Fac. of Sci., Okayama Univ., ²Grad. 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** **D Secondary Neurulation: The tail-specific neural formation is supported by a novel type of neural stem cells**
(P1-001)
○Teruaki Kawachi, Eisuke Shimokita, Yoshiko Takahashi (Graduate School of Biological Sciences, Nara Institute of Science and Technology) P.293
- 15:10 **JYSS1-2** **C Pregnenolone is required for the centrosomal localization of sSgo1 to maintain the centriole engagement.**
(P1-003)
○Mayumi Hamasaki^{1,2}, Shigeru Matsumura¹, Fumiko Toyoshima¹ (¹Inst. for Virus Res., Kyoto Univ., ²Grad. Sch. Biostudies, Kyoto Univ.) P.293
- 15:20 **JYSS1-3** **D Molecular mechanism of the production of neuronal diversity in the Drosophila visual center**
(P1-006)
○Takumi Suzuki¹, Masako Kaido¹, Rie Takayama¹, Makoto Sato^{1,2} (¹Brain/Liver Interface Medicine Research Center, Kanazawa Univ., ²PRESTO) P.293
- 15:30 **JYSS1-4** **C Identification of novel maternal neurogenic genes that are potential components of Notch signaling in Drosophila**
(P1-009)
○Kenjiroo Matsumoto¹, Naoki Aoyama¹, Ryo Hatori¹, Takuma Gushiken¹, Akira Ishio¹, Takahiro Seto¹, Yu Atsumi¹, Tomoko Yamakawa¹, Takeshi Sasamura¹, Kenji Matsuno^{1,2} (¹Dept. of Biol. Sci. & Technol., Tokyo Univ. of Sci., ²Res. Inst. Sci./Tec., Tokyo Univ. of Science) P.293
- 15:40 **JYSS1-5** **D Expression timing of Gdf11 and hindlimb position**
(P1-012)
○Yoshiyuki Matsubara, Atsushi Kuroiwa, Takayuki Suzuki (Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.) P.294
- 15:50 **JYSS1-6** **C Augmin plays a dominant role in phragmoplast microtubule generation.**
(P1-015)
○Tomohiro Miki, Yuki Nakaoka, Gohta Goshima (Div. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ.) P.294
- 16:00 **JYSS1-7** **D Homeodomain-interacting protein kinase 2 promotes Wnt/β-catenin signaling thorough stabilization of Dishevelled in vertebrate posterior development.**
(P1-018)
○Nobuyuki Shimimizu, Tohru Ishitani (Div. of Cell Reg. Sys., M.I.B., Univ. of Kyushu.) P.294
- 16:10 **JYSS1-8** **Essential role of p130Cas in cutaneous mechanotransduction**
(P1-021)
○Mayumi Takeya¹, Keiichi Haketa¹, Shinya Kasamatsu¹, Akira Hachiya¹, Yuushi Okumura², Takeshi Nikawa², Takashi Kitahara¹ (¹Biol. Sci. Lab., Kao Corp., ²Inst of Health Biosci., Univ. of Tokushima. Grad. Schl.) P.294
- 16:20 **JYSS1-9** **D Comparative analyses of expression patterns of genes involved in early development between Xenopus and Cynops.**
(P1-024)
○Kenta Ito^{1,2}, Chikara Hashimoto^{1,2} (¹Dept. of Biol. Sci., Sch. of Sci, Osaka Univ., ²JT Biohistory Research Hall) P.295
- 16:30 **JYSS1-10** **C The roles of the trans-Golgi network and RAB11 family on endocytosis of receptor kinase FLS2 in plant cells**
(P1-027)
○Seung-won Choi¹, Takayuki Tamaki¹, Tomohiro Uemura¹, Takashi Ueda¹, Akihiko Nakano^{1,2} (¹Dept. of Biol. Sci., Grad. Sch. of Sci., Univ of Tokyo, ²Mol. Membrane Biol. Lab, RIKEN Advanced Science Institute) P.295
- 16:40 **JYSS1-11** **D Promoter-associated noncoding RNAs mediate oocyte-activation-induced CpG and non-CpG demethylation in the early mouse embryo**
(P1-030)
○Nobuhiko Hamazaki, Takuya Imamura (gCOE., Div. of Biol. Sci., Grad. Sci., Univ. of Kyoto) P.295
- 16:50 **JYSS1-12** **D Novel motif of FoxD3 to get involved in neural crest gene regulatory network.**
(P1-033)
○Hiroki Ono¹, Jr-Kai Yu^{2,3}, Hiroshi Wada¹ (¹Graduate School of Life and Environmental Sciences, Univ. of Tsukuba, ²Academia Sinica, ³National Taiwan University) P.295
- 17:00 **JYSS1-13** **Cereblon is a component of aggresome**
(P1-036)
○Satoru Wakabayashi¹, Haruka Yamada¹, Toru Asahi^{1,2}, Naoya Sawamura^{1,2} (¹Faculty of Science and Engineering., Waseda Univ., ²Consolidated Research Institute for Advanced Science and Medical Care (ASMew), Waseda Univ.) P.296

- 17:10 **JYSS1-14** **D Medaka fused 4 mutant, which exhibits a fusion of vertebrae, encodes *her7* gene**
(P1-039) ○Shiho Tomizawa, Keiji Inohaya, Tohru Imatomi, Akira Kudo (Dep. of Biol. Info., Tokyo Tech) P.296
- 17:20 **JYSS1-15** **P7BP1 E3 ubiquitin ligase controls the quality of PTS2 receptor, Pex7p**
(P1-042) ○Yasuhiro Miyauchi¹, Kosuke Kuroda², Satoru Mukai¹, Yukio Fujiki^{1,2} (¹Dept. of Biol., Fac. of Sci., Kyushu Univ., ²Grad.Sch. of Sys. Life Sci., Kyushu Univ.) P.296
- 17:30 **JYSS1-16** **The pronuclear formation from sperm nuclei in the cell-free system from mouse oocytes**
(P1-045) ○Fukashi Inoue¹, Kaori Yamada¹, Tadashi Yamamoto¹, Takeo Kishimoto², Miho Ohsugi¹ (¹Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo, ²Dep. of Biol. Inform., Grad. Sch. of Biosci. and Biotech., Tokyo Tech) P.296
- 17:40 **JYSS1-17** **C The protective influence of syntaxin3 from the oxidative stress in HaCaT keratinocytes**
(P1-048) ○Takafumi Miyazaki, Yohei Hirai (Dep. Bioscience., Grad. Sch. Sci. Technol., Kwansai Gakuin Univ.) P.297
- 17:50 **JYSS1-18** **Targeted disruption of EGFP transgene in *Xenopus laevis* using customized transcription activator-like effector nucleases (TALENs)**
(P1-051) ○Ken-ichi T. Suzuki¹, Keiko Kashiwagi², Tetsushi Sakuma², Yukiko Isoyama², Hiroshi Ochiai³, Akihiko Kashiwagi², Takashi Yamamoto² (¹CMES, Ehime Univ. and Hiroshima Univ., ²Graduate School of Science, Hiroshima University, ³Research Institute for Radiation Biology and Medicine, Hiroshima University) P.297
- 18:00 **JYSS1-19** **C A Novel Microtubule Binding Protein, MARKAP, plays essential roles for the Golgi-Ribbon Formation by Regulating Golgi-Nucleated Microtubules**
(P1-054) ○Yoshinori Satoh¹, Kenji Hayashi², Yoshiko Aman², Takahisa Maki³, Ikuko Hayashi³, Shigeo Ohno¹, Atsushi Suzuki² (¹Dep. Mol. Cel. Biol., Grad. Sch. of Med., Yokohama City Univ., ²Div. Med. Biosci. Dep. Mol. Cel., Grad. Sch. of Med., Yokohama City University., ³Supramol. Biol. Inter. Grad. Sch. of Arts and Sci., Yokohama City University) P.297
- 18:10 **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.**
(P1-057) ○Kyota Yasuda¹, Tomoya Kotani², Masakane Yamashita² (¹Grad. Sch. of Life Sci., Hokkaido Univ., ²Dept. of Biol. Sci., Fac. of Sci., Hokkaido Univ.) P.297
- 18:20 **JYSS1-21** **C Dynamin affects cytokinesis in *Dictyostelium* cells**
(P1-060) ○A.Y.K. MD. MASUD RANA¹, Shinya Miyagishima², Shigehiko Yumura¹ (¹Department of Functional Molecular Biology, Graduate School of Medicine, Yamaguchi University, ²Symbiosis and Cell Evolution Lab, Center for Frontier Research, National Institute of Genetics, 1111 Yata, Mishima, Shizuoka 411-8540) P.298
- 18:30 **JYSS1-22** **D Microtubule interacting protein Dogi is required for neurite branching and elongation in *Drosophila* olfactory projection neurons**
(P1-063) ○Chisako Sakuma¹, Vladimir I Gelfand⁵, Liqun Luo⁴, Masayuki Miura^{1,3}, Takahiro Chihara^{1,2,4} (¹Dept. Genetics, Grad. Sch. Pharm. Sci, Univ. Tokyo, ²PRESTO, JST, Japan, ³CREST, JST, Japan, ⁴HHMI, Dept. Biol., Stanford Univ. USA, ⁵Dept. 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** **D Extrinsic factor controls blastema proliferation and survival during fin fold regeneration**
(P1-066) ○Tomoya Hasegawa, Teruhiro Nakajima, Takashi Ishida, Atsushi Kawakami (Dept. Biol. Info., Tokyo Inst. Tech) P.298
- 15:10 **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**
(P1-069) ○Naomi Shinotsuka¹, Yoshifumi Yamaguchi^{1,2}, Keiko Nonomura¹, Ayako Yoshida¹, Kiwamu Takemoto^{3,4}, Keisuke Kuida⁵, Hiroki Yoshida⁶, Masayuki Miura^{1,2} (¹Dep. of Genetics, Grad. of Pharm. Sci., Univ. of Tokyo, ²CREST, ³Grad. Sch. Med., Yokohama City Univ., ⁴PREST, ⁵Millennium, The Takeda Oncology Company, ⁶Grad. Sch. Med., Saga Univ.) P.298
- 15:20 **JYSS2-3** **C Rab33a mediates anterograde vesicular transport for membrane exocytosis and axon outgrowth**
(P1-072) ○Hitomi Nakazawa¹, Tadayuki Sada¹, Michinori Toriyama¹, Kenji Tago¹, Tadao Sugiura², Mitsunori Fukuda³, Naoyuki Inagaki¹ (¹Grad. Sch. of Biol. Sci., Nara Inst. of Sci. and Technol., ²Grad. Sch. of Inform. Sci., Nara Inst. of Sci. and Technol., ³Grad. Sch. of Life Sci., Tohoku Univ.) P.299

- 15:30 **JYSS2-4** **█ Exophilin7 promotes fusion of undocked granule in pancreatic β cells**
(P1-075)
ORay Ishizaki, Hao Wang, Jun Xu, Kazuo Kasai, Hiroshi Gomi, Tetsuro Izumi (Dept. of Molecular Medicine, IMCR, Gunma Univ.) P.299
- 15:40 **JYSS2-5** **█ The impact of extracellular syntaxin4 on HaCaT keratinocyte behavior**
(P1-078)
ONanako Kadono¹, Yoji Okugawa¹, Kiichiro Nakajima², Yohei Hirai¹ (¹Dep. Bioscience., Grad. Sch. Sci. Technol. Kwansai Gakuin Univ., ²KNC Laboratories, KNC bio research center) P.299
- 15:50 **JYSS2-6** **█ A Myelin Gene Regulatory Transcription Factor Regulates Cell Differentiation**
(P1-080)
OHiroshi Senoo¹, Tsuyoshi Araki², Masashi Fukuzawa¹, Jeffrey G. Williams² (¹Department of Biology, Faculty of Agriculture and Life Science, University of Hirosaki, ²College of Life Sciences, Welcome Trust Building, University of Dundee) P.299
- 16:00 **JYSS2-7** **█ Correction error of kinetochore-microtubule attachment induces mitotic centrosome disintegration**
(P1-083)
OKenji Iemura, Tadashi Yamamoto, Miho Ohsugi (Div. of Oncol., Inst. of Med. Sci., Univ. of Tokyo) P.300
- 16:10 **JYSS2-8** **█ Spatiotemporally controlled cell-cycle transitions coupled to anterior-posterior axis formation in a chordate.**
(P1-086)
OYosuke Ogura, Yasunori Sasakura (Shimoda Marine Res. Cen., Univ. of Tsukuba) P.300
- 16:20 **JYSS2-9** **█ Mathematical analysis of growth control mechanisms in the Drosophila wing disc**
(P1-089)
OKen-ichi Hironaka¹, Yoshihiro Morishita² (¹Math. Bio. Lab., Grad. Sch. of Sys. Life Sci., Kyushu Univ., ²Lab. for Dev. Morphogeometry, RIKEN CDB) P.300
- 16:30 **JYSS2-10** **█ 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***
(P1-092)
OTakayuki Hirota^{1,2}, Hiroshi Ohta^{1,2}, Mayo Shigeta³, Hitoshi Niwa³, Mitinori Saitou^{1,2} (¹Grad. Sch. Med., Kyoto Univ., ²ERATO, JST, ³RIKEN CDB) P.300
- 16:40 **JYSS2-11** **█ Chemical screening of protein kinase affected mitochondrial ATP synthesis.**
(P1-095)
OKanako Sugawara^{1,2}, Makoto Fujikawa^{1,3}, Masasuke Yoshida^{1,2} (¹JST, ICORP, ATP-synthesis Regulation Project, ²Faculty of Life Science, Kyoto Sangyo University, ³Department of Biochemistry, Faculty of Pharmaceutical Sciences, Tokyo University of Science) P.301
- 16:50 **JYSS2-12** **█ Post-transcriptional regulation of gene expression by *Khd1*, *Ccr4*, and *Pbp1*.**
(P1-098)
OYuichi Kimura, Kenji Irie (Grad. Sch. of Comprehensive Human Sci., Univ. of Tsukuba) P.301
- 17:00 **JYSS2-13** **█ The LIM-homeodomain factors regulate early eye development in the chick**
(P1-101)
OJunji Inoue¹, Takumi Kawaue¹, Satoshi Ishihara¹, Yuuki Ueda¹, Sumihare Noji¹, Hideyo Ohuchi^{1,2} (¹Department of Life Systems, Institute of Technology and Science, The University of Tokushima, ²Department 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** **█ Shh-Fgf18 regulation is disrupted in tooth root development of *Ptc* mes mutants**
(P1-104)
OMasato Ota, Shigeru Okuhara, Sachiko Iseki (Unit. of Mol. Craniofacial Emb., Tokyo Med. Dent. Univ.) P.301
- 17:20 **JYSS2-15** **█ NDR kinase is required for ciliogenesis through the phosphorylation of Rabin8**
(P1-107)
OYuta Homma¹, Shuhei Chiba¹, Yuta Amagai¹, Shinichiro Kanno², Akira Yasui², Mitsunori Fukuda³, Kensaku Mizuno¹ (¹Dept. Biomol. Sci., Grad. Sch. Life Sci., Tohoku Univ., ²IDAC, Tohoku Univ., ³Dept. Dev. Biol. & Neurosci., Grad. Sch. Life Sci., Tohoku Univ.) P.302
- 17:30 **JYSS2-16** **█ Metastatic behavior of human cancer cells in chicken embryos: site-specific exit from a blood vessel and attraction to peripheral ganglia**
(P1-110)
OTaiji Yasue, Yoshiko Takahashi (NARA Institute of Science and Technology) P.302
- 17:40 **JYSS2-17** **█ Vinexin alters properties of focal adhesion depending on extracellular matrix stiffness**
(P1-113)
OTakafumi Ichikawa¹, Hiroshi Yamashita¹, Yasuhisa Kimura¹, Ichiro Harada³, Kazumitsu Ueda^{1,2}, Noriyuki Kioka¹ (¹Div. of Appl. Life Sci., Grad. Sch. of Agri., Kyoto Univ., ²iCeMS, Kyoto Univ., ³Dep. Biomol. Eng., Grad. Sch. of Biosci and Biotech., Tokyo Inst. of Tech.) P.302
- 17:50 **JYSS2-18** **█ Analysis of cell movement in the multicellular tissue of *Dictyostelium discoideum* by 4D live-imaging.**
(P1-116)
OToru Uchikawa¹, Masato Yasui¹, Masahiro Ueda¹, Kei Inouye² (¹Graduate School of Frontier Biosciences, Osaka Univ., ²Department of Botany, Graduate School of Science, Kyoto Univ.) P.302

- 18:00 **JYSS2-19** **D** **Analysis of Notch signaling pathway in the water flea, *Daphnia magna*.**
(P1-119) ○Masaki Uehara, Saori Ohmiawa, Shinichi Tokishita, Yasuhiro Shiga (Sch. of Life Sci., Tokyo Univ. of Pharm. & Life Sci.) P.303
- 18:10 **JYSS2-20** **C** **The functional and morphological control of B16 melanoma cells by syntaxin3**
(P1-122) ○Michiko Shono, Ryosuke Yoshioka, Yohei Hirai (Dept.Life Sci., Univ. of Kwansai) P.303
- 18:20 **JYSS2-21** **D** **Melanosome transfer during skin pigmentation: a novel method to study intercellular signaling between melanocytes and keratinocytes *in vivo***
(P1-125) ○Hidetaka Murai, Ryosuke Tadokoro, Ken-ichiro Sakai, Yoshiko Takahashi (Nara Institute of Science and Technology) P.303
- 18:30 **JYSS2-22** **D** **Advanced methods for the construction, evaluation and application of TALENs**
(P1-128) ○Tetsushi Sakuma^{1,2}, Sayaka Hosoi¹, Hiroshi Ochiai^{2,3}, Tatsuya Miyamoto³, Shinya Matsuura³, Naoaki Sakamoto³, Sumihare Noji⁴, Takashi Yamamoto¹ (¹Dept. of Math. and Life Sci., Grad. Sch. of Sci., Hiroshima Univ., ²JSPS Research Fellow, ³Dept. of Rad. Biol., Res. Inst. for Rad. Biol. and Med., Hiroshima Univ., ⁴Dept. 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** **C** **Live-cell imaging of sperm cell delivery during double fertilization in *Arabidopsis thaliana***
(P1-131) ○Yuki Hamamura¹, Tetsuya Higashiyama^{2,3} (¹Live-imaging center, Nagoya Univ., ²Divi. Sci., Nagoya Univ., ³JST, ERATO) P.304
- 15:10 **JYSS3-2** **C** **Role of Adf1 in the process of formation and contraction of the contractile ring in fission yeast cells.**
(P1-134) ○Ei-ichi Uyeda, Jun Kashiwazaki, Issei Mabuchi (Dept. of Life Sci., Facult. of Sci., Gakushuin Univ.) P.304
- 15:20 **JYSS3-3** **C** **Temperature dependency of Ca²⁺ dynamics in a migrant cell.**
(P1-137) ○Hideki Itoh¹, Madoka Suzuki^{2,3}, Kotaro Oyama¹, Shin'ichi Ishiwata^{1,2,3} (¹Dept. of Pure and Appl. Phys., Grad. Sch. of Adv. Sci. and Eng., Waseda Univ., ²WABIOS, Waseda Univ., ³Org. Univ. Res. Init., Waseda Univ.) P.304
- 15:30 **JYSS3-4** **C** **Evolution of ER stress response -UPR in *Ciona intestinalis*-**
(P1-140) ○Shogo Yamaguchi¹, Ryotarou Senoo¹, Daisuke Mimaki¹, Tokiro Ishikawa¹, Yutaka Satou², Kazutoshi Mori¹ (¹Department of Biophysics, Graduate School of Science, Kyoto University, ²Department of Zoology, Graduate School of Science, Kyoto University) P.304
- 15:40 **JYSS3-5** **D** **The active stem cell specific expression of sponge Musashi homolog *Ef1MsiA* suggests its involvement in maintaining the stem cell state**
(P1-143) ○Kazuko Okamoto¹, Mikiko Nakatsukasa², Alexandre Alie¹, Kiyokazu Agata¹, Noriko Funayama¹ (¹Dept. Biophys. Grad. Sch. Sci., Kyoto univ., ²CDB, RIKEN) P.305
- 15:50 **JYSS3-6** **D** **Raldh2, an enzyme involved in retinoic acid (RA) biosynthesis, is essential for osteogenesis in the medaka vertebral column.**
(P1-146) ○Mai Tasaki, Keiji Inohaya, Satoshi Ohisa, Akira Kudo (Dept. Biol. Info., Tokyo. Inst. Tech.) P.305
- 16:00 **JYSS3-7** **Modelling wave propagation dynamics in MDCK wound healing assay.**
(P1-149) ○Yusuke Sawabu¹, Masaharu Nagayama², Takashi Miura³, Hiroyuki Kitahata⁴ (¹Div. of Math. and Phys. Sci., Inst. of Nat. Sci. and Tech., Kanazawa Univ., ²Fac. of Math. and Phys., Inst. of Sci. and Eng., Kanazawa Univ., ³Dept. of Anat. and Dev. Bio., Kyoto Univ. Grad. Sch. of Med., ⁴Dept. of Phys., Chiba Univ., Grad. Sch. of Sci.) P.305
- JYSS3-8** **Withdraw**
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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(株))

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(株) 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. **バイオイメーキ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 -ミクロとマクロを繋ぐ-**
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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