

[O-1AS-01]

冬眠と代謝制御

**Metabolic regulation in hibernation**

2023/11/27 09:02 ~ 2023/11/27 09:23

[O-1AS-01-01]

**シリアンハムスターから学ぶ、哺乳類の冬眠達成に関わる先天性・後天性因子について**

On the Intrinsic and extrinsic factors that contribute to hibernation ~ a lesson from Syrian hamsters

**Presenter and Affiliations**

○山口 良文<sup>1,2</sup> 中川 哲<sup>1,2</sup> 大塚 玲桜<sup>2</sup> 松岡 七々香<sup>2</sup> 奥津 風香<sup>2</sup> 山下 純平<sup>1</sup> 山内 彩加林<sup>1</sup>  
 (1. 北大・低温研・冬眠 2. 北大・環境科学院・生物圏)

○Yoshifumi Yamaguchi<sup>1,2</sup> Satoshi Nakagawa<sup>1,2</sup> Reo Otsuka<sup>2</sup> Nanaka Matsuoka<sup>2</sup> Fuuka Okutsu<sup>2</sup> Junpei Yamashita<sup>1</sup> Akari Yamauchi<sup>1</sup>  
 (1. HIB, ILTS, Hokkaido Univ. 2. Bio, Grad. Sch. of Env. Sci., Hokkaido Univ.)

2023/11/27 09:23 ~ 2023/11/27 09:58

[O-1AS-01-02]

**Reversible hibernation phenotypes in brown bears**

Reversible hibernation phenotypes in brown bears

**Presenter and Affiliations**

○Joanna Kelley<sup>1,2</sup> Blair Perry<sup>3,2</sup> Charles Robbins<sup>3,2</sup> Heiko Jansen<sup>4,2</sup>  
 (1. Ecol. and Evol. Biol., UC Santa Cruz, USA 2. Bear Center, Wash State Univ., USA 3. Biol. Sciences, Wash State Univ., USA 4. IPN, Wash State Univ., USA)

2023/11/27 09:58 ~ 2023/11/27 10:33

[O-1AS-01-03]

**Sharing Resources During Lean Times: a Functional Role for the Gut Microbiome During Hibernation**

Sharing Resources During Lean Times: a Functional Role for the Gut Microbiome During Hibernation

**Presenter and Affiliations**

○Hannah Carey<sup>1</sup>  
 (1. Dept. of Comparative Biosciences, Univ of Wisconsin-Madison)

2023/11/27 10:33 ~ 2023/11/27 10:54

[O-1AS-01-04]

**マウス日内休眠における近交系特異的低温耐性は細胞にも宿る**

Strain-specific mouse cells embody organismal-level cold resistance during daily torpor

**Presenter and Affiliations**

○砂川 玄志郎<sup>1</sup>  
 (1. 理研・BDR)  
 ○Genshiro Sunagawa<sup>1</sup>  
 (1. RIKEN BDR)

2023/11/27 10:54 ~ 2023/11/27 11:15

[O-1AS-01-05]

## 冬眠様状態における脳機能ダイナミクスの解明

Dynamics of brain function in hibernation-like state

### Presenter and Affiliations

- 平野 有沙<sup>1</sup> 櫻井 武<sup>1</sup>  
(1. 筑大・医学医療系/IIIS)
- Arisa Hirano<sup>1</sup> Takeshi Sakurai<sup>1</sup>  
(1. Inst. of Med./IIIS, Univ. of Tsukuba)

[O-1AS-02]

大気中粒子・化学物質の生体影響の最前線：感染からアレルギーまで

## Frontiers of Biological Effects of Airborne Particles and Chemicals: From Infection to Allergy

2023/11/27 09:05 ~ 2023/11/27 09:16

[O-1AS-02-01]

### 角膜感染症と環境要因の関連

Association of corneal infectious diseases and environmental factors

### Presenter and Affiliations

- 宮崎 大<sup>1</sup>  
(1. 鳥取大)
- Dai Miyazaki<sup>1</sup>  
(1. Tottori Univ)

2023/11/27 09:16 ~ 2023/11/27 09:27

[O-1AS-02-02 (1P-493)]

### スギ花粉抗原『Cryj2』は皮膚バリア機能の低下と色素沈着を促進させる

Japanese cedar pollen antigen "Cryj2" promotes pigmentation and deterioration of skin barrier function

### Presenter and Affiliations

- 金海 俊<sup>1</sup> 本間 俊之<sup>1</sup>  
(1. 富士フイルム(株)・バイオ研)
- Shun Kaneumi<sup>1</sup> Toshiyuki Homma<sup>1</sup>  
(1. Bio Sci & Eng Lab.,FUJIFILM Corp.)

2023/11/27 09:27 ~ 2023/11/27 09:38

[O-1AS-02-03]

### たばこ曝露の生体影響解析に向けたタバコ抽出物投与システムの確立

Establishment of Tobacco Extract Administration System for Analysis of Biological Effects of Tobacco Exposure

### Presenter and Affiliations

- 吉田 安宏<sup>1</sup>  
(1. 産医大・免疫学・寄生虫学)
- Yasuhiro Yoshida<sup>1</sup>  
(1. Univ. of Occ and Env Health)

2023/11/27 09:38 ~ 2023/11/27 09:49

[O-1AS-02-04]

### 黄砂粒子が肺に急性炎症を来たすメカニズムについての検討

The mechanism of acute lung inflammation caused by Asian sand dust particles

### Presenter and Affiliations

○佐川友哉<sup>1,2</sup>市瀬孝道<sup>1</sup>高野裕久<sup>3,4</sup>

(1. 京大院・地球環境学 2. 京府医院・免疫内科学 3. 京先端大・国際学術 4. 京大院・工)

○Tomoya Sagawa<sup>1,2</sup>Takamichi Ichinose<sup>1</sup>Hirohisa Takano<sup>3,4</sup>

(1. Grad. Sch. of Global Environ. Studies, Kyoto Univ. 2. Dept. of Infl. and Immu., Grad. Sch. of Med. Sci., Kyoto Pref. Univ. of Med. 3. Inst. for Int. Acad. Res., Kyoto Univ. of Adv. Sci. 4. Grad. Sch. of Eng., Kyoto Univ.)

2023/11/27 09:49 ~ 2023/11/27 10:00

[O-1AS-02-05]

### Biological effect analysis of environmental pollutants attached with LPS

Biological effect analysis of environmental pollutants attached with LPS

#### Presenter and Affiliations

○宋媛<sup>1</sup>

(1. Department of Clinical Laboratory, The Fourth Hospital of Hebei Medical University, Shijiazhuang, China)

○Yuan Song<sup>1</sup>

(1.)

2023/11/27 10:00 ~ 2023/11/27 10:11

[O-1AS-02-06 (1P-615)]

### 微粒子取り込みを担う呼吸器上皮M細胞の分化制御機構の解明

Characterization of airway M cell: a potential contribution to inhaled microparticle uptake and respiratory diseases

#### Presenter and Affiliations

○木村俊介<sup>1,4</sup>河合真吾<sup>1</sup>山田恭央<sup>1</sup>中村有孝<sup>1,2</sup>澤新一郎<sup>3</sup>長谷耕二<sup>1</sup>

(1. 慶應・薬学・生化学 2. 和歌山県立医大・薬学・病態生理 3. 九大・生体防御研・粘膜防御 4. JSTさきがけ)

○Shunsuke Kimura<sup>1,2</sup>Shingo Kawai<sup>1</sup>Takahiro Yamada<sup>1</sup>Yutaka Nakamura<sup>1,3</sup>Shinichiro Sawa<sup>4</sup>Koji Hase<sup>1</sup>

(1. Div. of Biochem., Facu. of Pharm., Keio Univ. 2. PRESTO, JST. 3. Dept. of Microbiol. and Immunol., Sch. of Pharma., Sci., Wakayama Med. Univ. 4. Divi. of Mucosal Immunol., Res., Center for Sys. Immunol., Med. Inst. of Bioreg., Kyushu Univ.)

2023/11/27 10:11 ~ 2023/11/27 10:22

[O-1AS-02-07]

### 発生源の異なる環境中微粒子による呼吸器・免疫系影響の異同と粒子の局在

Differences in the effects of environmental particles collected from different sources on the respiratory and immune systems and localization of particles

#### Presenter and Affiliations

○本田晶子<sup>1</sup>市瀬孝道<sup>2</sup>高野裕久<sup>3,2</sup>

(1. 京大院・工 2. 京大院・地球環境 3. 京先端大・国際学術)

○Akiko Honda<sup>1</sup>Takamichi Ichinose<sup>2</sup>Hirohisa Takano<sup>3,2</sup>

(1. Grad. Sch. of Eng., Kyoto Univ. 2. Grad. Sch. of Global Environ. Studies, Kyoto Univ. 3. Inst. for Int. Acad. Res., Kyoto Univ. of Adv. Sci.)

2023/11/27 10:22 ~ 2023/11/27 10:33

[O-1AS-02-08]

### 地下鉄空間における粒子状物質の主成分である酸化鉄の遺伝子毒性・アレルギー応答

Genotoxicity and allergic response of iron oxide, a major component of particulate matter in subway spaces

#### Presenter and Affiliations

○石川良賀<sup>1</sup>市瀬孝道<sup>1</sup>高野裕久<sup>1,2</sup>

(1. 京大・院地球環境 2. 京先端大・国際学術)

○Raga Ishikawa<sup>1</sup>Takamichi Ichinose<sup>1</sup>Hirohisa Takano<sup>1,2</sup>

(1. Grad. Sch. of Global Environ. Studies, Kyoto Univ. 2. Inst. for Int. Acad. Res., Kyoto Univ. of Adv. Sci.)

2023/11/27 10:33 ~ 2023/11/27 10:44

[O-1AS-02-09]

## 抗酸化酵素の機能を発現する人工酵素：低分子金属錯体からナノザイムへ

Artificial enzymes expressing antioxidant enzyme functions: from small metal complexes to nanozymes

### Presenter and Affiliations

○人見 穰<sup>1</sup>

(1. 同志社大・院理工・応用化学)

○Yutaka Hitomi<sup>1</sup>

(1. Dept. of Appl. Chem., Grad. Sch. of Sci. Eng., Doshisha Univ.)

2023/11/27 10:44 ~ 2023/11/27 10:55

[O-1AS-02-10]

## Inhalation of polystyrene microplastics induces murine multiple organ injury

Inhalation of polystyrene microplastics induces murine multiple organ injury

### Presenter and Affiliations

○He Miao<sup>1</sup>

(1. PROF of CMU)

2023/11/27 10:55 ~ 2023/11/27 11:03

[O-1AS-02-11]

## ジャカルタでの大気汚染による結膜炎に対する洗眼により採取した粒子の解析

Analysis of atmospheric particles washed away by Eyewashes in Jakarta

### Presenter and Affiliations

○三村 達哉<sup>1</sup> Willitri A. Sunarya<sup>2</sup> 辻 和宏<sup>3</sup> 西山 美穂<sup>3</sup>

(1. 帝京大・眼科 2. Rohto・Lab 3. ロート製薬)

○Tatsuya Mimura<sup>1</sup> Willitri A. Sunarya<sup>2</sup> Kazuhiro Tsuji<sup>2</sup> Miho Nishiyama<sup>2</sup>

(1. Teikyo Univ 2. Rohto)

[O-1PS-01]

動植物を通じて考えるリプログラミング原理と多様性

## Principles and diversity of nuclear reprogramming across kingdoms

2023/11/27 16:02 ~ 2023/11/27 16:25

[O-1PS-01-01]

## Epigenetic reprogramming of imprinting at meiosis

Epigenetic reprogramming of imprinting at meiosis

### Presenter and Affiliations

○Frédéric Berger<sup>1</sup> Sean A. Montgomery<sup>1 2 3</sup>

(1. Gregor Mendel Institute, Austrian Academy of Sciences, Vienna BioCenter; Dr. Bohr-Gasse 3, 1030 Vienna, Austria.  
2. Centre for Genomic Regulation (CRG), Barcelona Institute of Science and Technology (BIST), Barcelona, Spain 3.  
Universitat Pompeu Fabra (UPF), Barcelona, Spain)

2023/11/27 16:25 ~ 2023/11/27 16:48

[O-1PS-01-02]

## DNA damage triggered cellular reprogramming in the moss *Physcomitrium patens*

DNA damage triggered cellular reprogramming in the moss *Physcomitrium patens*

### Presenter and Affiliations

○Nan Gu<sup>1 2 3</sup> Gergo Palfalvi<sup>4</sup> Yosuke Tamada<sup>2 3 5</sup>

(1. Ctr. Innov. Spt., Utsunomiya Univ. 2. Sch. Eng., Utsunomiya Univ. 3. REAL, Utsunomiya Univ. 4. Dept. Comp. Dev.

2023/11/27 16:48 ~ 2023/11/27 17:08

[O-1PS-01-03]

### 植物の器官再生応答における特異的な細胞リプログラミング制御

Specific regulation on cellular reprogramming during diverse regenerative responses in plants

#### Presenter and Affiliations

- 池内 桃子<sup>1</sup>  
(1. 奈良先端大・バイオ)
- Momoko Ikeuchi<sup>1</sup>  
(1. NAIST, bio)

2023/11/27 17:08 ~ 2023/11/27 17:31

[O-1PS-01-04]

### Cell types of regeneration: specialized wound epidermis

Cell types of regeneration: specialized wound epidermis

#### Presenter and Affiliations

- Can Aztekin<sup>1</sup>  
(1. EPFL, School of Life Sciences)

2023/11/27 17:31 ~ 2023/11/27 17:51

[O-1PS-01-05]

### マウス初期胚核の物理的リプログラミング

Physical reprogramming of embryonic nuclei in mouse

#### Presenter and Affiliations

- 宮本 圭<sup>1</sup>  
(1. 近大・生物理工)
- Kei Miyamoto<sup>1</sup>  
(1. BOST, Kindai Univ.)

2023/11/27 17:51 ~ 2023/11/27 18:14

[O-1PS-01-06]

### 核移植クローンから見てくるゲノムリプログラミングについて

What does nuclear transfer tell us about genomic reprogramming?

#### Presenter and Affiliations

- 小倉 淳郎<sup>123</sup>  
(1. 理化学研究所バイオリソース研究センター 2. 理化学研究所開拓研究本部 3. 筑波大学大学院農学生命プログラム)
- Atsuo Ogura<sup>123</sup>  
(1. RIKEN BioResource Center 2. RIKEN Center for Pioneering Research 3. Program in Life and Agricultural Sciences, University of Tsukuba)

[O-1PS-02]

### 細胞内の鉄の動態から拓くオルガネラの生物学

### Cultivating organelle biology from cellular iron dynamics

2023/11/27 16:05 ~ 2023/11/27 16:20

[O-1PS-02-01]

### 鉄代謝に関わる新たな分子メカニズム

Newly uncovered regulatory systems of iron metabolism

### Presenter and Affiliations

- 築取 いずみ<sup>1</sup>  
(1. 京大・院医・細胞機能制御学)
- Izumi Yanatori<sup>1</sup>  
(1. Dept. of Mol. Cell Phys., Grad. Sch. of Med., Univ. of Kyoto)

2023/11/27 16:20 ~ 2023/11/27 16:40

[O-1PS-02-02 (1P-405)]

### ミトコンドリア-小胞体接触場を介したミトコンドリア鉄供給機構

Machinery of iron supply to mitochondria via ER-mitochondria contact site

### Presenter and Affiliations

- 大塩 聖<sup>1</sup> 椎葉 一心<sup>1</sup> 柳 茂<sup>1</sup> 伊藤 直樹<sup>1</sup>  
(1. 学習院大・理・生命科学)
- Hijiri Oshio<sup>1</sup> Isshin Shiiba<sup>1</sup> Shigeru Yanagi<sup>1</sup> Naoki Ito<sup>1</sup>  
(1. Dept. of Life Sci., Fac. of Sci., Gakushuin Univ.)

2023/11/27 16:40 ~ 2023/11/27 16:55

[O-1PS-02-03]

### ミトコンドリア膜構造の変化による細胞内鉄動態の制御

Intracellular iron movement via mitochondrial-derived structures

### Presenter and Affiliations

- 田中 敦<sup>1,2</sup> 戸由 菜月<sup>2</sup> 宇佐美 勁<sup>2</sup> 築取 いずみ<sup>3</sup> Heidi M. McBride<sup>4</sup>  
(1. 山形大・院医・先進的医科学 2. 山形大・医・メディカルサイエンス推進研 3. 京都大・院医・細胞機能制御学 4. Montreal Neuro. Inst., McGill Univ.)
- Atsushi Tanaka<sup>1,2</sup> Natsuki Toyoshi<sup>2</sup> Tsuyoshi Usami<sup>2</sup> Izumi Yanatori<sup>3</sup> Heidi M. McBride<sup>4</sup>  
(1. Grad. Sch. of Med., Yamagata Univ. 2. Res. Inst. of Med. Sci., Yamagata Univ. 3. Grad. Sch. of Med., Kyoto Univ. 4. Montreal Neuro. Inst., McGill Univ.)

2023/11/27 16:55 ~ 2023/11/27 17:15

[O-1PS-02-04]

### 鉄貯蔵タンパク質フェリチンはNCOA4依存的に液滴形成することでマクロオートファジーとミクロオートファジーの2つの経路でリソソームに輸送される

Ferritin phase separation driven by NCOA4, which facilitates ferritin degradation by macroautophagy and endosomal microautophagy

### Presenter and Affiliations

- 山本 林<sup>1</sup>  
(1. 日本医科大学・先端医学研究所)
- Hayashi Yamamoto<sup>1</sup>  
(1. Dept. Mol. Oncol., Inst. Adv. Med. Sci., Nippon Med. Sch.)

2023/11/27 17:15 ~ 2023/11/27 17:35

[O-1PS-02-05 (1P-111)]

### フェリチノファジーにはじまる核への鉄供給を介した脂肪細胞分化のエピゲノム制御

Epigenetic regulation of adipocyte differentiation via iron supply to the nucleus initiated by ferritinophagy

### Presenter and Affiliations

- 稲垣 毅<sup>1</sup>  
(1. 群大・生調研・代謝エピジェネティクス)
- Takeshi Inagaki<sup>1</sup>  
(1. Lab. of Epigenet. & Met, IMCR, Gunma Univ.)

2023/11/27 17:35 ~ 2023/11/27 17:55

[O-1PS-02-06]

### 金属輸送体ZIP13と鉄を介する新しい脂肪分解の制御機構

ZIP13-iron axis is a new regulatory mechanism for lipolysis

#### Presenter and Affiliations

- 福中 彩子<sup>1</sup>  
(1. 群大・生体調節)
- Ayako Fukunaka<sup>1</sup>  
(1. IMCR, Univ. of Gunma)

2023/11/27 17:55 ~ 2023/11/27 18:15

[O-1PS-02-07]

### Designing Tailored Thiosemicarbazones with Bespoke Properties: The Styrene Moiety Imparts Potent Activity, Inhibits Heme Centre Oxidation, and Results in a Novel Stealth Zinc(II) Complex

Designing Tailored Thiosemicarbazones with Bespoke Properties: The Styrene Moiety Imparts Potent Activity, Inhibits Heme Centre Oxidation, and Results in a Novel Stealth Zinc(II) Complex

#### Presenter and Affiliations

- Busra Kaya<sup>1</sup> Mahendiran Dharmasivam<sup>1</sup> Tharushi Wijesinghe<sup>1</sup> Mahan Gholam Azad<sup>1</sup> Miguel A. Gonzalvez<sup>2</sup> Mohammed Hussaini<sup>1</sup> Jason Chekmarev<sup>1</sup> Paul V. Bernhardt<sup>2</sup> Des R. Richardson<sup>3 1</sup>  
(1. CBDD, Griffith Univ. Drug Discovery, Griffith Univ. 2. Sch. of Chem. and Mol. Biosci., Univ. of Queensland 3. Dept. of Path. and Biol. Responses, Nagoya Univ. Graduate Sch. of Med.)

[O-2AS-01]

遺伝子制御ダイナミクスの解明：イメージングからシングルセルオミックスへ、そしてその先へ

### Resolving gene regulatory dynamics: from imaging to single-cell omics and beyond

2023/11/28 09:01 ~ 2023/11/28 09:20

[O-2AS-01-01]

### Stochastic pausing and nucleosome occupancy generates transcriptional bursting at latent HIV-1 promoters

Stochastic pausing and nucleosome occupancy generates transcriptional bursting at latent HIV-1 promoters

#### Presenter and Affiliations

- Vera Slaninova<sup>1</sup> Christine Moene<sup>2</sup> Rachel Topno<sup>1</sup> Hussein Karaki<sup>1</sup> Marie-Cécile Robert<sup>1</sup> Flavia Mazzarda<sup>1</sup> Arnaud Krebs<sup>2</sup> Ovidiu Radulescu<sup>3</sup> ○Edouard Bertrand<sup>1</sup>  
(1. IGH, CNRS and Univ. Montpellier 2. EMBL 3. LPHI, University of Montpellier)

2023/11/28 09:20 ~ 2023/11/28 09:39

[O-2AS-01-02]

### Multimodal chromatin tracing法による転写動態に伴う高次ゲノム構造変化の解明

Changes in higher-order genomeic structures during transcriptional dynamics revealed by multimodal chromatin tracing

#### Presenter and Affiliations

- 落合 博<sup>1</sup>  
(1. 九大・生医研・遺伝子発現動態)
- Hiroshi Ochiai<sup>1</sup>  
(1. Div. of Gene Exp. Dyn., MIB, Kyushu Univ.)

2023/11/28 09:39 ~ 2023/11/28 09:58

[O-2AS-01-03]

## Differential regulation of large-scale chromosome conformations in live cancerous and non-cancerous osteoblasts

Differential regulation of large-scale chromosome conformations in live cancerous and non-cancerous osteoblasts

### Presenter and Affiliations

Madhoolika Bisht<sup>1</sup> Yu-Chieh Chung<sup>2</sup> Sydney Willey<sup>2</sup> Benjamin Sunkel<sup>3</sup> Meng Wang<sup>3</sup> Benjamin Stanton<sup>4,3,2</sup> Li-Chun Tu<sup>2,5,6</sup>

( 1. Dept. of Mol. Genet., OSU 2. Dept. of Biol. Chem. Pharm., OSUMC 3. Ctr. for Childhood Cancer and Blood Dis, NCH 4. Dept. of Pediatr., OSUMC 5. OSUCCC 6. Ctr. for RNA Biol., OSU )

2023/11/28 09:58 ~ 2023/11/28 10:17

[O-2AS-01-04]

## 組織形成を理解するための単一細胞マルチオミクスの開発

Development of Single-Cell Multi-Omics for Understanding Tissue Formation

### Presenter and Affiliations

原田 哲仁<sup>1</sup> 富松 航佑<sup>1</sup> 藤井 健<sup>1</sup> ○大川 恭行<sup>1</sup>

( 1. 九大・生医研 )

Akihito Harada<sup>1</sup> Kosuke Tomimatsu<sup>1</sup> Takeru Fujii<sup>1</sup> ○Yasuyuki Ohkawa<sup>1</sup>

( 1. Med. Inst. Bioreg., Kyushu Univ. )

2023/11/28 10:17 ~ 2023/11/28 10:36

[O-2AS-01-05]

## Gene Co-regulation by Genome Topology in Single Cells

Gene Co-regulation by Genome Topology in Single Cells

### Presenter and Affiliations

○Zhe J. Liu<sup>1</sup>

( 1. Howard Hughes Medical Institute, Janelia Research Campus, Ashburn, VA )

2023/11/28 10:36 ~ 2023/11/28 10:55

[O-2AS-01-06]

## クロマチンによる遺伝子制御の構造基盤

Structural basis of gene regulation by chromatin

### Presenter and Affiliations

○胡桃坂 仁志<sup>1</sup>

( 1. 定量研・東大 )

○Hitoshi Kurumizaka<sup>1</sup>

( 1. IQB, The Univ. of Tokyo )

2023/11/28 10:55 ~ 2023/11/28 11:14

[O-2AS-01-07]

## Single Molecule Imaging of Endogenous Transcription and Translation Coupling in Living Cells

Single Molecule Imaging of Endogenous Transcription and Translation Coupling in Living Cells

### Presenter and Affiliations

○Timothy Stasevich<sup>1</sup> O'Neil Wiggan<sup>1</sup> Linda S. Forero-Quintero<sup>1</sup> Tatsuya Morisaki<sup>1</sup>

( 1. Dept. of Biochem. and Mol. Biology, Colorado State Univ. )



[O-2AS-02]

細胞核の進化と多様性

Evolution and diversification of the cell nucleus

2023/11/28 09:01 ~ 2023/11/28 09:24

[O-2AS-02-01]

### The endoplasmic reticulum connects to the nucleus via constricted junctions that get specialized during the cell cycle

The endoplasmic reticulum connects to the nucleus via constricted junctions that get specialized during the cell cycle

#### Presenter and Affiliations

Helena Bragulat-Teixidor<sup>1</sup> Keisuke Ishihara<sup>2</sup> ○大塚 正太郎<sup>1</sup>

(1. Max Perutz Labs, a joint venture of the University of Vienna and the Medical University of Vienna, Vienna Biocenter, Vienna, Austria 2. Department of Computational and Systems Biology, School of Medicine, University of Pittsburgh, Pittsburgh, PA, USA)

Helena Bragulat-Teixidor<sup>1</sup> Keisuke Ishihara<sup>1</sup> ○Shotaro Otsuka<sup>1</sup>  
(1.)

2023/11/28 09:24 ~ 2023/11/28 09:34

[O-2AS-02-02 (1P-411)]

### 核サイズ制御における小胞体構造と脂質代謝の役割

Role of endoplasmic reticulum structure and lipid synthesis in nuclear size control

#### Presenter and Affiliations

○久米 一規<sup>1</sup> 平松 暖海<sup>1</sup> Paul Nurse<sup>2</sup>

(1. 広大・院統合生命 2. Francis Crick Inst.)

○Kazunori Kume<sup>1</sup> Harumi Hiramatsu<sup>1</sup> Paul Nurse<sup>2</sup>

(1. Grad. Sch. of Int. Sci. for Life, Hiroshima Univ. 2. Francis Crick Inst.)

2023/11/28 09:34 ~ 2023/11/28 09:51

[O-2AS-02-03]

### 真核生物における分裂期染色体サイズのアロメトリー

Allometry in chromosome dimensions: new insights into mitotic chromosome compaction in eukaryotes.

#### Presenter and Affiliations

○角井 康貢<sup>1</sup>

(1. 早大・高等研)

○Yasutaka Kakui<sup>1</sup>

(1. WIAS, Waseda Univ.)

2023/11/28 09:51 ~ 2023/11/28 10:08

[O-2AS-02-04]

### ゼブラフィッシュ初期発生過程におけるDNA複製ドメイン動態

DNA replication domain dynamics during early zebrafish development

#### Presenter and Affiliations

○佐藤 優子<sup>1</sup> 小田 春佳<sup>1,2</sup> 高橋 沙央里<sup>3</sup> 平谷 伊智朗<sup>3</sup> 木村 宏<sup>1</sup>

(1. 東工大・IIR 2. CNRS IGH 3. RIKEN BDR)

○Yuko Sato<sup>1</sup> Haruka Oda<sup>1,2</sup> Saori Takahashi<sup>3</sup> Ichiro Hiratani<sup>3</sup> Hiroshi Kimura<sup>1</sup>

(1. Tokyo Tech IIR 2. CNRS IGH 3. RIKEN BDR)

2023/11/28 10:08 ~ 2023/11/28 10:31

[O-2AS-02-05]

### Dodecaploid *Xenopus longipes* provides insight into the emergence of size scaling

## relationships during development

Dodecaploid *Xenopus longipes* provides insight into the emergence of size scaling relationships during development

### Presenter and Affiliations

- Rebecca Heald<sup>1</sup> Kelly Miller<sup>1</sup> Clotilde Cadart<sup>1</sup>  
(1. MCB Dept, UC Berkeley)

2023/11/28 10:31 ~ 2023/11/28 10:48

[O-2AS-02-06]

## 哺乳類着床前発生における核DNA-細胞質比の重要性

Impact of the nuclear DNA -to-cytoplasmic ratio in mammalian preimplantation development

### Presenter and Affiliations

- 大杉 美穂<sup>1,2</sup> 潘 韜<sup>1</sup> 島袋 航弥<sup>1</sup> 平良 夏実<sup>2</sup>  
(1. 東大・院総合文化・広域科学 2. 東大・院理・生物科学)
- Miho Ohsugi<sup>1,2</sup> Tao Pan<sup>1</sup> Kouya Shimabukuro<sup>1</sup> Natsumi Taira<sup>2</sup>  
(1. Dept. of Life Sci., Grad. Sch. of Arts & Sci., Univ. of Tokyo 2. Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo)

2023/11/28 10:48 ~ 2023/11/28 10:58

[O-2AS-02-07 (1P-364)]

## 生きたマウス卵子内で再構成した人工細胞核におけるヘテロクロマチン構造

Heterochromatin structure within artificial cell nuclei formed by DNA microinjected in living mouse oocytes.

### Presenter and Affiliations

- 米澤 直央<sup>1</sup> 信藤 知子<sup>2</sup> 平岡 泰<sup>3</sup> 原口 徳子<sup>3</sup> 山縣 一夫<sup>1</sup>  
(1. 近大・院生物理工・生物工 2. 慶大・医 3. 阪大・生命機能)
- Nao Yonezawa<sup>1</sup> Tomoko Shindo<sup>2</sup> Yasushi Hiraoka<sup>3</sup> Tokuko Haraguchi<sup>3</sup> Kazuo Yamagata<sup>1</sup>  
(1. BOST., Kindai Univ. 2. Med, Keio Univ. 3. FBS., Osaka Univ.)

2023/11/28 10:58 ~ 2023/11/28 11:15

[O-2AS-02-08]

## テトラヒメナのDNA削減機構と核の二型化の進化的背景

Mechanism of programmed DNA elimination and evolutionary insights into nuclear dualism in *Tetrahymena*

### Presenter and Affiliations

- 片岡 研介<sup>1</sup>  
(1. 基生研)
- Kensuke Kataoka<sup>1</sup>  
(1. National Institute for Basic Biology)

[O-2PS-01]

## クロススケール計測技術で細胞内のメソスケールの構造動態に迫る

Cross-scale analyses visualize the mesoscale structural dynamics in cells

2023/11/28 16:00 ~ 2023/11/28 16:25

[O-2PS-01-01]

## クライオ電子顕微鏡によるM13ファージの構造

Complete atomic structure of M13 phage by cryo-electron microscopy

### Presenter and Affiliations

- 楊 景霏<sup>1</sup> 柳澤 春明<sup>1</sup> 中木戸 誠<sup>2</sup> 津本 浩平<sup>2</sup> ○ 吉川 雅英<sup>1</sup>  
(1. 東京大学・大学院・医学系研究科・生体構造学 2. 東京大学・大学院・工学系研究科・生命分子解析学)
- Jingfei Yang<sup>1</sup> Haruaki Yanagisawa<sup>1</sup> Makoto Nakakido<sup>1</sup> Kohei Tsumoto<sup>1</sup> ○ Masahide Kikkawa<sup>1</sup>

(1. Department of Cell Biology and Anatomy, Graduate School of Medicine, The University of Tokyo)

2023/11/28 16:25 ~ 2023/11/28 16:47

[O-2PS-01-02]

### 粗視化分子モデルを用いたタンパク質と脂質膜の動的構造解析

Coarse-grained modeling and simulations of protein and lipid dynamics

#### Presenter and Affiliations

○杉田 有治<sup>123</sup>

(1. 理研・開拓・杉田理論分子 2. 理研・R-CCS・粒子系生物物理 3. 理研・BDR・分子機能シミュレーション)

○Yuji Sugita<sup>123</sup>

(1. Theoretical Sci. Lab., RIKEN CPR 2. Comp. Biophys. Team, RIKEN R-CCS 3. Lab. for Biomol. Func. Sim. RIKEN BDR)

2023/11/28 16:47 ~ 2023/11/28 17:09

[O-2PS-01-03]

### High-resolution spatial multi-omics: resolving subnuclear compartments in single cells in complex tissues

High-resolution spatial multi-omics: resolving subnuclear compartments in single cells in complex tissues

#### Presenter and Affiliations

○Yodai Takei<sup>1</sup>

(1. BBE, Caltech)

2023/11/28 17:09 ~ 2023/11/28 17:31

[O-2PS-01-04]

### クロススケール計測の医学・生物学的応用

Biological and Medical Applications of Cross-scale Measurements

#### Presenter and Affiliations

○仁田 亮<sup>1</sup>

(1. 神大・院医・生体構造解剖学)

○Ryo Nitta<sup>1</sup>

(1. Div. Struct. Med. Anat., Kobe Univ. Grad. Sch. Med.)

2023/11/28 17:31 ~ 2023/11/28 17:53

[O-2PS-01-05]

### クライオ電子顕微鏡を用いた神経変性疾患の病態解明

Molecular understanding of pathogenic proteins in neurodegenerative diseases using cryogenic electron microscopy

#### Presenter and Affiliations

○樽谷 愛理<sup>12</sup>

(1. Inst. of Neuropathol., Univ. Med. Ctr. Göttingen 2. 都医学研・脳神経科学)

○Airi Tarutani<sup>12</sup>

(1. Inst. of Neuropathol., Univ. Med. Ctr. Göttingen 2. Dept. of Brain and Neurosci., Igakuken)

2023/11/28 17:53 ~ 2023/11/28 18:15

[O-2PS-01-06]

### クロススケール計測によるアミロイドの構造と機能の解析

Structural and Functional analyses of amyloid fibrils by cross-scale measurements

#### Presenter and Affiliations

○田中 元雅<sup>1</sup> 玉井 真悟<sup>12</sup> 野村 高志<sup>1</sup> シェン ハワード<sup>12</sup> 小見 悠介<sup>1</sup> 中川 幸姫<sup>1</sup>

(1. 理研・脳神経科学研究センター 2. 東京医科歯科大・院・医歯学総合)

[O-2PS-02]

明らかになった左右非対称性形成機構の進化的多様性と共通性

Evolutionary diversity and conservation in mechanisms of left-right asymmetry

2023/11/28 16:01 ~ 2023/11/28 16:21

[O-2PS-02-01]

Wnt5a下流因子として同定されたE3ユビキチンライゲースHUWE1はノードにおける平面内極性構築を制御する

HUWE1, a Wnt5a downstream target, regulates the establishment of planar cell polarity during early development in mouse

Presenter and Affiliations

- 安島 理恵子<sup>1,2</sup>  
(1. 基生研・初期発生 2. 総研大)
- Rieko Ajima<sup>1,2</sup>  
(1. Div. of Embryology, NIBB 2. SOKENDAI)

2023/11/28 16:21 ~ 2023/11/28 16:41

[O-2PS-02-02]

ツールキット遺伝子の保存性を疑う：初期発生を司る遺伝子群のレパートリ可塑性

Non-conserved gene repertoires regulating early embryogenesis

Presenter and Affiliations

- 工樂 樹洋<sup>1</sup>  
(1. 国立遺伝研)
- Shigehiro Kuraku<sup>1</sup>  
(1. NIG)

2023/11/28 16:41 ~ 2023/11/28 16:54

[O-2PS-02-03 (1P-628)]

マウスノード繊毛の基底小体において、繊毛の運動に依存的に左右非対称性が形成される。

Left-right asymmetry is formed in the basal bodies of the mouse node cilia in a cilia motility-dependent manner.

Presenter and Affiliations

- 餘家 博<sup>1</sup> 谷口 篤史<sup>1,2</sup> 野中 茂紀<sup>1,3</sup>  
(1. 基生研 2. 北大・電子研・社会創造数学研究センター 3. 生命創成探究センター)
- Hiroshi Yoke<sup>1</sup> Atsushi Taniguchi<sup>1,2</sup> Shigenori Nonaka<sup>1,3</sup>  
(1. NIBB 2. MSC, RIES, Hokkaido Univ. 3. ExCELLS)

2023/11/28 16:54 ~ 2023/11/28 17:14

[O-2PS-02-04]

マウスノード不動繊毛は変形の向きを感知して左右軸を決定する：非対称性を生み出すメカニカルな機構

Mouse nodal immotile cilia sense bending direction for left-right determination: Mechanical regulation in initiation of symmetry breaking

Presenter and Affiliations

- 加藤 孝信<sup>1</sup>  
(1. 東大・院医・細胞生物)
- Takanobu Katoh<sup>1</sup>  
(1. Dept. Cell Biol., Grad. Sch. Med., The Univ. of Tokyo.)

2023/11/28 17:14 ~ 2023/11/28 17:34

[O-2PS-02-05]

**神経系の左右非対称性形成の基盤となる細胞キラリティの進化的多様性と共通性**

Evolutionary diversity and conservation in cell chirality underlying the formation of left-right brain asymmetry

**Presenter and Affiliations**

- 玉田 篤史<sup>1</sup>  
(1. 関西医大・医・iPS応用医学)
- Atsushi Tamada<sup>1</sup>  
(1. Dept. of iPS Appl. Med., Kansai Med. Univ.)

2023/11/28 17:34 ~ 2023/11/28 17:54

[O-2PS-02-06]

**消化管の捻転と伸長は上皮組織のキラルな細胞スライドと収斂伸長により独立に制御される**

Twist and elongation of gut tube independently arise through chiral cell sliding and convergent extension, respectively, in epithelial tissue

**Presenter and Affiliations**

- 稲木 美紀子<sup>1</sup> 奥田 覚<sup>2</sup> 松野 健治<sup>1</sup>  
(1. 阪大・院理・生物科学 2. 金沢大・ナノLSI)
- Mikiko Inaki<sup>1</sup> Satoru Okuda<sup>2</sup> Kenji Matsuno<sup>1</sup>  
(1. Dept. of Biol. Sci., Grad. Sch. of Sci., Osaka Univ. 2. NanoLSI, Kannazawa Univ.)

2023/11/28 17:54 ~ 2023/11/28 18:14

[O-2PS-02-07]

**細胞骨格によって決定される植物成長に見られる左右性**

Left-right handedness in plant growth as governed by cytoskeleton

**Presenter and Affiliations**

- 中村 匡良<sup>1</sup>  
(1. 名古屋大・ITbM)
- Masayoshi Nakamura<sup>1</sup>  
(1. ITbM, Nagoya U.)

[O-3AS-01]

**ウイルスによるNaturalな外部刺激が細胞内・生体内で引き起こすイベントを知る**

**What will happen in your bodies and cells upon virus infection?**

2023/11/29 09:00 ~ 2023/11/29 09:25

[O-3AS-01-01]

**抗DNAウイルス応答シグナル (STINGシグナル) の終息機構**

Molecular mechanism underlying the termination of STING signalling

**Presenter and Affiliations**

- 田口 友彦<sup>1</sup>  
(1. 東北大・院生命科学)
- Tomohiko Taguchi<sup>1</sup>  
(1. Grad. Sch. of Life Sci., Tohoku Univ.)

2023/11/29 09:25 ~ 2023/11/29 09:50

[O-3AS-01-02]

**ウイルス感染による細胞老化の誘導とその宿主への影響**

Induction of cellular senescence by viral infection and its effects on the host

### Presenter and Affiliations

- 原 英二<sup>1</sup>  
(1. 阪大・微研)
- Eiji Hara<sup>1</sup>  
(1. RIMD, Osaka Univ.)

2023/11/29 09:50 ~ 2023/11/29 10:25

[O-3AS-01-03]

### Towards a Lassa Fever vaccine: electron microscopy imaging of a vaccine-induced antibody response

Towards a Lassa Fever vaccine: electron microscopy imaging of a vaccine-induced antibody response

### Presenter and Affiliations

- Erica Ollmann Saphire<sup>1</sup> Adrian Enriquez<sup>1</sup> Onyeka Chukwudozie<sup>1</sup> Ruben Diaz Avalos<sup>1</sup> Kathryn Hastie<sup>1</sup>  
(1. La Jolla Institute for Immunology)

2023/11/29 10:25 ~ 2023/11/29 10:50

[O-3AS-01-04]

### サシチョウバエ熱シチリアウイルス由来NSsタンパク質による統合的ストレス応答抑制の構造基盤

Structural basis for the suppression of the integrated stress response by protein NSs from Sandfly fever Sicilian virus

### Presenter and Affiliations

- 柏木 一宏<sup>1</sup> 七野 雄一<sup>2</sup> 大崎 達哉<sup>3</sup> 築地 仁美<sup>4</sup> 岩崎 信太郎<sup>2</sup> 池内 与志保<sup>3</sup> ○伊藤 拓宏<sup>1</sup>  
(1. 理研・BDR 2. 理研・CPR 3. 東大・生産研 4. 愛知学院大・薬学部)
- Kazuhiro Kashiwagi<sup>1</sup> Yuichi Shichino<sup>2</sup> Tatsuya Osaki<sup>3</sup> Hitomi Tsuiji<sup>4</sup> Shintaro Iwasaki<sup>2</sup> Yoshiho Ikeuchi<sup>3</sup> ○Takuhiro Ito<sup>1</sup>  
(1. RIKEN BDR 2. RIKEN CPR 3. IIS, Univ. of Tokyo 4. Dept. of Pharm. Health Care and Sci., Aichi Gakuin Univ.)

2023/11/29 10:50 ~ 2023/11/29 11:15

[O-3AS-01-05]

### 外来性レトロウイルスHTLV-1の挿入による宿主ゲノム・エピゲノムの攪乱

Disturbance of the host genome and epigenome caused by integration of an exogenous retrovirus HTLV-1

### Presenter and Affiliations

- 佐藤 賢文<sup>1</sup>  
(1. 熊大・ヒトレトロ研・ゲノミクス)
- Yorifumi Satou<sup>1</sup>  
(1. Kumamoto University)

[O-3AS-02]

多モデルから考える減数分裂期組換えの多様性と根幹

Diverse mechanisms and principle of meiotic recombination among multiple organisms

2023/11/29 09:05 ~ 2023/11/29 09:21

[O-3AS-02-01]

### 線虫DSB-1<sup>Rec114</sup>のリン酸化制御が減数分裂前期におけるDNA二重鎖切断量を調節する

Phosphoregulation of DSB-1<sup>Rec114</sup> mediates control of meiotic double-strand break activity in *C. elegans*

### Presenter and Affiliations

- 佐藤一カールトン 綾<sup>1</sup> 亀田 啓太<sup>1</sup> 笹川 創平<sup>1</sup> Guo Heyun<sup>1</sup> Carlton Peter<sup>1</sup>  
(1. 京大・生命科学)

○Aya Sato-Carlton<sup>1</sup> Keita Kameda<sup>1</sup> Sohei Sasagawa<sup>1</sup> Guo Heyun<sup>1</sup> Peter Carlton<sup>1</sup>  
(1. Grad. Sch. of Biostudies, Kyoto Uni.)

2023/11/29 09:21 ~ 2023/11/29 09:37

[O-3AS-02-02]

### 分裂酵母における減数分裂期相同組換え開始機構

Assembly of DSB-competent meiotic chromosomes in fission yeast

#### Presenter and Affiliations

○山田 貴富<sup>1</sup>久郷 和人<sup>2</sup>山下 朗<sup>3</sup>太田 邦史<sup>4</sup>村上 浩士<sup>5</sup>

(1. 鎌倉女子大・家政・管理栄養 2. かずさDNA研究所 3. 基礎生物学研究所 4. 東大・総合文化・広域科学 5. 中大・理工・生命)

○Takatomi Yamada<sup>1</sup> Kazuto Kugou<sup>2</sup> Akira Yamashita<sup>3</sup> Kunihiro Ohta<sup>4</sup> Hiroshi Murakami<sup>5</sup>

(1. Kamakura Women's Univ. 2. Kazusa DNA Res. Inst. 3. National Inst. Basic Biol. 4. Univ. Tokyo 5. Chuo Univ.)

2023/11/29 09:37 ~ 2023/11/29 09:53

[O-3AS-02-03]

### 減数分裂期DSB両端でのSpo11の時間差除去においてMre11エキソヌクレアーゼ活性が重要な機能を果たす

Mre11 exonuclease activity is critical for the asymmetric releasing of Spo11-oligo DNA at meiotic programmed DSB ends

#### Presenter and Affiliations

○篠原 美紀<sup>1,2</sup>

(1. 近畿大・院農・バイオ 2. 近畿大・農・アグリ技研)

○Miki Shinohara<sup>1,2</sup>

(1. Dept. of Ad. Bio. Sci. Grad. Sch. of Agri., Kindai Univ. 2. ATIRI, Kindai Univ.)

2023/11/29 09:53 ~ 2023/11/29 10:09

[O-3AS-02-04]

### テロメアブーケ変異体ゼブラフィッシュにおける減数分裂期の組換え

Meiotic recombination in telomere bouquet-defective zebrafish

#### Presenter and Affiliations

○今井 裕紀子<sup>1</sup>

(1. 遺伝研・小型魚類遺伝)

○Yukiko Imai<sup>1</sup>

(1. Model Fish Genetics, NIG)

2023/11/29 10:09 ~ 2023/11/29 10:25

[O-3AS-02-05 (1P-095)]

### 担子菌酵母で明らかにするBRCA2の機能

Exploiting Basidiomycota yeast as a model to study BRCA2

#### Presenter and Affiliations

Maierdan Palihati<sup>1</sup> 岩崎 博史<sup>2,1</sup> 坪内 英生<sup>2,1</sup>

(1. 東工大・生命理工 2. 東工大・科技創研)

Maierdan Palihati<sup>1</sup> Hiroshi Iwasaki<sup>2,1</sup> Hideo Tsubouchi<sup>2,1</sup>

(1. LifeSci., Tokyo Tech. 2. IIR, Tokyo Tech.)

2023/11/29 10:25 ~ 2023/11/29 10:41

[O-3AS-02-06 (1P-087)]

### Transcription-replication conflictsにおけるクロマチン構造変化とDNA修復経路

Chromatin remodeling and DNA repair in Transcription-replication conflicts.

### Presenter and Affiliations

- 宇井 彩子<sup>1</sup>  
(1. 東北大)
- Ayako Ui<sup>1</sup>  
(1. Tohoku University)

2023/11/29 10:41 ~ 2023/11/29 10:57

[O-3AS-02-07]

### 染色体軸構造のリモデリングを介した減数分裂期DNA二本鎖切断と交叉型組換え制御

Remodeling of chromosome axis ensures meiotic DNA break formation and repair via crossing-over

### Presenter and Affiliations

- 伊藤 将<sup>1</sup> 篠原 彰<sup>1</sup> 太田 邦史<sup>2</sup>  
(1. 阪大・蛋白研 2. 東大・院総合文化)
- Masaru Ito<sup>1</sup> Akira Shinohara<sup>1</sup> Kunihiro Ohta<sup>2</sup>  
(1. IPR, Osaka Univ. 2. Grad. Sch. of Arts and Sci., Univ. of Tokyo)

2023/11/29 10:57 ~ 2023/11/29 11:13

[O-3AS-02-08]

### シナプトネマ複合体はゼブラフィッシュの減数分裂時の染色体のもつれを制限する

The synaptonemal complex limits meiotic chromosome entanglements in zebrafish

### Presenter and Affiliations

- Sean Burgess<sup>1</sup> Ivan Olaya<sup>1</sup> Ilara Yilmaz<sup>1</sup> Alex Neupauer<sup>1</sup>  
(1. Dept. of Mol. Cell. Biol., Univ. of California)

[O-3PS-01]

### 進化する共生の理解

### Evolving Understanding of Evolving Symbiosis

2023/11/29 16:00 ~ 2023/11/29 16:15

[O-3PS-01-01]

### 共生の根源的な理解への実験進化アプローチ

Experimental evolutionary approaches to fundamental understanding of symbiosis

### Presenter and Affiliations

- 深津 武馬<sup>1234</sup>  
(1. AIST 2. Univ. Tokyo 3. Univ. Tsukuba 4. ERATO Fukatsu Evolving Symbiosis Project)
- Takema Fukatsu<sup>1234</sup>  
(1. AIST 2. Univ. Tokyo 3. Univ. Tsukuba 4. ERATO Fukatsu Evolving Symbiosis Project)

2023/11/29 16:15 ~ 2023/11/29 16:40

[O-3PS-01-02]

### 小事が大事：様々な単一の変異が大腸菌を昆虫の相利共生者にする可能性

The things have small beginnings: various single mutations could make Escherichia coli an insect mutualist

### Presenter and Affiliations

- 古賀 隆一<sup>1</sup>  
(1. 産総研・生物プロセス)
- Ryuichi Koga<sup>1</sup>  
(1. AIST, Biopro. Inst.)

2023/11/29 16:40 ~ 2023/11/29 17:05



[O-3PS-01-03]

## 共生進化の理解へ向けた構成的・定量的アプローチ

Exploring the universality of symbiosis: constructive and quantitative approaches to symbiotic evolution

### Presenter and Affiliations

- 古澤 力<sup>1,2</sup>  
(1. 理研・生命機能 2. 東大・生物普遍性)
- Chikara Furusawa<sup>1,2</sup>  
(1. BDR, RIKEN 2. Universal Biology Institute, Univ. of Tokyo)

2023/11/29 17:05 ~ 2023/11/29 17:30

[O-3PS-01-04]

## マイクロ流体デバイスとラマン分光を用いた共生細菌の生体外解析

Ex vivo analysis of symbiont bacteria using microfluidic devices and Raman spectroscopy

### Presenter and Affiliations

- 若本 祐一<sup>1</sup>  
(1. 東大・院・総合文化)
- Yuichi Wakamoto<sup>1</sup>  
(1. Grad. Sch. of Arts and Sci., Univ. of Tokyo)

2023/11/29 17:30 ~ 2023/11/29 17:55

[O-3PS-01-05]

## マウス腸内適応時の大腸菌遺伝子変異と食事との関連

Genetic mutations in *E. coli* during mouse intestinal adaptation: Linking diet optimization for the host

### Presenter and Affiliations

- 福田 真嗣<sup>1,2,3,4,5</sup>  
(1. 慶大・先端生命研 2. 順大・院医 3. 神奈川産技総研 4. 筑大・TMRC 5. メタジェン)
- Shinji Fukuda<sup>1,2,3,4,5</sup>  
(1. Inst. Adv. Biosci., Keio Univ. 2. Grad. Sch. of Med., Juntendo Univ. 3. KISTEC 4. TMRC, Univ. Tsukuba 5. Metagen)

[O-3PS-02]

## TORシグナル：カノンと変奏

### TOR signaling: Canon and Variation

2023/11/29 16:03 ~ 2023/11/29 16:28

[O-3PS-02-01]

## Metabolic Control of TORC1

Metabolic Control of TORC1

### Presenter and Affiliations

- Claudio De Virgilio<sup>1</sup>  
(1. Dept. of Biol., Univ. of Fribourg, Switzerland)

2023/11/29 16:28 ~ 2023/11/29 16:43

[O-3PS-02-02]

## 酵母トア複合体 1 (TORC1) の tRNA を介したアミノ酸センシングのしくみ

Mechanism of tRNA-mediated amino acid sensing by yeast Tor complex1

### Presenter and Affiliations

- 鎌田 芳彰<sup>1,2</sup>  
(1. 基礎生物学研究所 2. 総研大)

○Yoshiaki Kamada<sup>1,2</sup>  
(1. National Institute for Basic Biology 2. SOKENDAI)

2023/11/29 16:43 ~ 2023/11/29 16:58

[O-3PS-02-03]

### 出芽酵母においてTORC1活性化に關与するシステインセンサーPib2の研究

Pib2 is a cysteine sensor involved in TORC1 pathway in *Saccharomyces cerevisiae*

#### Presenter and Affiliations

- 曾慶忠<sup>1</sup> 荒木保弘<sup>2</sup> 野田健司<sup>1,2</sup>  
(1. Graduate School of Frontier Biosciences, Osaka University 2. Graduate School of Dentistry, Osaka University)
- Qingzhong Zeng<sup>1</sup> Yasuhiro Araki<sup>1</sup> Takeshi Noda<sup>1</sup>  
(1. Center for Frontier Oral Science)

2023/11/29 16:58 ~ 2023/11/29 17:13

[O-3PS-02-04]

### FYVE1/FREE1 はシロイヌナズナTORC1のアミノ酸による活性化に關与する

FYVE1/FREE1 is involved in the amino acids responsive-TORC1 activation in *Arabidopsis thaliana*

#### Presenter and Affiliations

- 谷川美頼<sup>1,2</sup> 磯野江利香<sup>2</sup> 前田達哉<sup>1</sup>  
(1. 浜松医大・医学部 2. コンスタンツ大学)
- Mirai Tanigawa<sup>1,2</sup> Erika Isono<sup>2</sup> Tatsuya Maeda<sup>1</sup>  
(1. Hamamatsu Univ. Sch. of Med. 2. Univ. of Konstanz)

2023/11/29 17:13 ~ 2023/11/29 17:28

[O-3PS-02-05]

### TORC1が局在するシグナリングエンドソーム：わかっていること、いないこと

TORC1-containing signaling endosome: What's known and what's next?

#### Presenter and Affiliations

- 畠山理広<sup>1</sup>  
(1. アバディーン大学)
- Riko Hatakeyama<sup>1</sup>  
(1. University of Aberdeen)

2023/11/29 17:28 ~ 2023/11/29 17:43

[O-3PS-02-06]

### 分裂酵母TORC1は高温環境下における細胞増殖を抑制する

TORC1 signaling negatively regulates cellular growth of fission yeast at high temperatures

#### Presenter and Affiliations

- 両角佑一<sup>1</sup> 中瀬由起子<sup>1</sup> 塩崎一裕<sup>1,2</sup>  
(1. 奈良先端大・バイオ 2. University of California, Davis)
- Yuichi Morozumi<sup>1</sup> Yukiko Nakase<sup>1</sup> Kazuhiro Shiozaki<sup>1,2</sup>  
(1. Dev. Bio. Sci., NAIST 2. Dept. of Microbiol. and Mol. Genet., UC Davis)

2023/11/29 17:43 ~ 2023/11/29 17:58

[O-3PS-02-07]

### 有性生殖開始を制御する分裂酵母のTOR経路

Molecular genetic approach to reveal TOR-mediated regulation of sexual differentiation in fission yeast

#### Presenter and Affiliations

○大坪 瑤子<sup>1</sup> 山下 朗<sup>1</sup>  
(1. 基生研)

○Yoko Otsubo<sup>1</sup> Akira Yamashita<sup>1</sup>  
(1. Nat. Inst. Basic. Biol.)

2023/11/29 17:58 ~ 2023/11/29 18:13

[O-3PS-02-08]

### mTORC1はP-bodyを形成しm<sup>6</sup>A修飾mRNAの翻訳を抑制する

mTORC1-dependent Regulation of Liquid-Liquid Phase Separation and Translation

#### Presenter and Affiliations

○中津海洋<sup>1</sup> 松本有樹修<sup>2</sup> 松本雅記<sup>3</sup> 中山敬一<sup>4,5</sup> 白根道子<sup>1</sup>

(1. 名市大・院薬 2. 名大・理 3. 新潟大・医 4. 東京医歯大・高等研究院 5. 九大・生医研)

○Hirokazu Nakatsumi<sup>1</sup> Akinobu Matsumoto<sup>2</sup> Masaki Matsumoto<sup>3</sup> Keiichi I Nakayama<sup>4,5</sup> Michiko Shirane<sup>1</sup>

(1. Grad. Sch. Pharm. Sci., Nagoya City Univ. 2. Grad. Sch. Sci., Nagoya Univ. 3. Grad. Sch. Med. Dent. Sci., Niigata Univ. 4. Adv. Res. Inst., Tokyo Med. Dent. Univ. 5. Med. Inst. Bioreg., Kyushu Univ.)

[O-4AS-01]

### オルガノイド研究が解く生物の共通原理と種の個性

#### Organoid biology uncovering the universality and uniqueness of species

2023/11/30 09:05 ~ 2023/11/30 09:30

[O-4AS-01-01]

### SYNTHETIC DEVELOPMENTAL BIOLOGY: Cross-species comparison and manipulation of organoids

SYNTHETIC DEVELOPMENTAL BIOLOGY: Cross-species comparison and manipulation of organoids

#### Presenter and Affiliations

○戎家 美紀<sup>1</sup>

(1. Physics of Life, TU Dresden)

○Miki Ebisuya<sup>1</sup>

(1.)

2023/11/30 09:30 ~ 2023/11/30 09:55

[O-4AS-01-02]

### 異種間キメラにおける異常を介した発生メカニズムの理解

Understanding Developmental Mechanisms through Abnormalities Occurring in Interspecies Chimeras

#### Presenter and Affiliations

○正木 英樹<sup>1</sup> 中内 啓光<sup>1,2</sup>

(1. 東京医科歯科大・高等研究院 2. スタンフォード大学医学部・遺伝学部門)

○Hideki Masaki<sup>1</sup> Hiromitsu Nakauchi<sup>1,2</sup>

(1. TMDU-ARIS, Tokyo Med. Dent. Univ. 2. Dept. Genetics, Stanford Univ. Sch. of Med.)

2023/11/30 09:55 ~ 2023/11/30 10:20

[O-4AS-01-03]

### 肺泡オルガノイドによるヒトとマウスで保存された肺線維症発症機構の発見

Lung alveolar organoids discover conserved molecular etiology in human and mouse lung fibrosis.

#### Presenter and Affiliations

○森本 充<sup>1</sup>

(1. 理研BDR・呼吸器形成)

○Mitsuru Morimoto<sup>1</sup>

(1. RIKEN BDR・Lung Dev & Reg)

2023/11/30 10:20 ~ 2023/11/30 10:45

[O-4AS-01-04]

### 生殖系オルガノイドによる生殖細胞および性腺の性分化過程の再構築

Reproductive organoid: Reconstitution of sex-determination of germ cells and gonads.

#### Presenter and Affiliations

○林 克彦<sup>1,2,3</sup> 吉野 剛史<sup>2</sup> 白澤 篤<sup>3</sup> 庄野 真由美<sup>1</sup>

(1. 大阪大・院医・生殖遺伝 2. 大阪大・WPI/PRIME 3. 九州大・院医・ヒトゲノム)

○Katsuhiko Hayashi<sup>1,2,3</sup> Takashi Yoshino<sup>2</sup> Atsushi Shirasawa<sup>3</sup> Mayumi Shono<sup>1</sup>

(1. Dept. of Genome Biol. Grad. Sch. of Med., Osaka Univ. 2. WPI/PRIME, Osaka University 3. Dept. of Stem Cell Biol and Med., Grad. Sch. of Med. Sci., Kyushu Univ.)

2023/11/30 10:45 ~ 2023/11/30 11:10

[O-4AS-01-05]

### Reproducing mammalian ventral hindgut development using human pluripotent stem cells generates bladder organoids.

Reproducing mammalian ventral hindgut development using human pluripotent stem cells generates bladder organoids.

#### Presenter and Affiliations

○高里 実<sup>1</sup>

(1. 理研・生命機能科学)

○Minoru Takasato<sup>1</sup>

(1. RIKEN BDR)

[O-4AS-02]

腎臓から全身のホメオスタシスを学ぶ

### Learning systemic homeostasis thorough kidneys

2023/11/30 09:00 ~ 2023/11/30 09:19

[O-4AS-02-01]

### フェロトーシス細胞死と腎障害

Ferroptosis in kidney diseases

#### Presenter and Affiliations

○三島 英換<sup>1,2</sup>

(1. ヘルムホルツセンターミュンヘン 2. 東北大・院医)

○Eikan Mishima<sup>1,2</sup>

(1. Helmholtz Munich 2. Grad. med., Tohoku Univ)

2023/11/30 09:19 ~ 2023/11/30 09:38

[O-4AS-02-02]

### マルチオミクス解析により明らかにされる慢性腎臓病の病態と個別化医療の実現

The pathophysiology of chronic kidney disease revealed by multi-omics analysis and the implementation of precision medicine.

#### Presenter and Affiliations

○道家 智仁<sup>1</sup>

(1. 名古屋大学・腎臓内科)

○Tomohito Doke<sup>1</sup>

(1. Dept. of Nephrology, Grad. Sch. of Univ. of Nagoya)

2023/11/30 09:38 ~ 2023/11/30 09:57

[O-4AS-02-03]

### 近位尿細管細胞のホメオスタシスーVaspin/GRP78研究の展開ー

Homeostasis of Proximal Tubular Cells -Advances in Vaspin/GRP78 Research-

#### Presenter and Affiliations

- 中司 敦子<sup>1</sup>  
(1. Okayama University Hospital)
- Atsuko Nakatsuka<sup>1</sup>  
(1. Division of Kidney, Diabetes and Endocrine Diseases)

2023/11/30 09:57 ~ 2023/11/30 10:16

[O-4AS-02-04 (1P-953)]

### 炎症性因子の発現制御に関わるタンパク質架橋化酵素 トランスグルタミナーゼ1の機能解明

Functional analysis of Transglutaminase1, a protein cross-linking enzyme involved in the regulation of inflammatory factor expression.

#### Presenter and Affiliations

- 藤澤 優斗<sup>1</sup>  
(1. 名大)
- Yuto Fujisawa<sup>1</sup>  
(1. Univ. of Nagoya)

2023/11/30 10:16 ~ 2023/11/30 10:35

[O-4AS-02-05]

### シングルセル解析による転写性エンハンサーアトラスの構築

An atlas of transcribed enhancers for decoding human diseases

#### Presenter and Affiliations

- 小口 綾貴子<sup>1,2,3</sup> 村川 泰裕<sup>1,2</sup>  
(1. 理研・IMS 2. 京大・ASHBi 3. 京大・院医・腎臓内科学)
- Akiko Oguchi<sup>1,2,3</sup> Yasuhiro Murakawa<sup>1,2</sup>  
(1. RIKEN, IMS 2. ASHBi, Kyoto Univ 3. Dept. of Nephrology, Grad. Sch. of Med., Kyoto Univ.)

2023/11/30 10:35 ~ 2023/11/30 10:54

[O-4AS-02-06 (1P-024)]

### ゲノム・エピゲノム編集機能を拡張させるgRNA改変技術

gRNA modification technology extending capability of genome and epigenome editing

#### Presenter and Affiliations

- 川又 理樹<sup>1</sup> 鈴木 洋<sup>2</sup> 鈴木 淳史<sup>1</sup>  
(1. 九大・生医研 2. 名大・院医)
- Kawamata Masaki<sup>1</sup> Hiroshi Suzuki<sup>2</sup> Atsushi Suzuki<sup>1</sup>  
(1. Kyushu Univ. MIB 2. Nagoya Univ. Grad. Sch. Med.)

2023/11/30 10:54 ~ 2023/11/30 11:13

[O-4AS-02-07]

### 腎臓のDNA損傷が惹起するエピゲノム変化を介した全身ホメオスタシスの変容

Altered homeostasis through epigenetic changes caused by kidney DNA damage

#### Presenter and Affiliations

- 林 香<sup>1</sup>  
(1. 慶應・腎内代内科)
- Kaori Hayashi<sup>1</sup>  
(1. Dept. of Internal Med., Keio Univ.)

[O-4PS-01]

表現型可塑性とエピゲノム制御による生物の適応戦略

Adaptive tactics via phenotypic plasticity and epigenomic regulations

2023/11/30 16:08 ~ 2023/11/30 16:38

[O-4PS-01-01]

**Socially generated molecular physiological variation of monomorphic ant *Diacamma***

Socially generated molecular physiological variation of monomorphic ant *Diacamma*

### Presenter and Affiliations

- 岡田 泰和<sup>1</sup>  
(1. Dept. of Biol. Sci. Tokyo Metropolitan Univ.)
- Yasukazu Okada<sup>1</sup>  
(1.)

2023/11/30 16:38 ~ 2023/11/30 17:08

[O-4PS-01-02]

**トゲウオから探るトランスクリプトーム応答とエピゲノム制御の多様化を生む遺伝機構**

Genetic mechanisms underlying variation in transcriptome response and epigenetic regulation in sticklebacks

### Presenter and Affiliations

- 石川 麻乃<sup>1</sup>  
(1. 東大・院新領域・先端生命)
- Asano Ishikawa<sup>1</sup>  
(1. Dept. of Integr. Biosci., Grad. Sch. of Front. Sci., Univ. of Tokyo)

2023/11/30 17:08 ~ 2023/11/30 17:38

[O-4PS-01-03]

**植物の季節応答におけるH3K27me3 抑制修飾の役割**

The role of H3K27me3 repressive modification in the seasonal response of plants

### Presenter and Affiliations

- 工藤 洋<sup>1</sup>  
(1. 京大・生態研)
- Hiroshi Kudoh<sup>1</sup>  
(1. CER, Kyoto Univ.)

2023/11/30 17:38 ~ 2023/11/30 18:08

[O-4PS-01-04]

**シロイヌナズナ属異質倍数体の環境頑健性**

Environmental robustness of Arabidopsis allopolyploid species

### Presenter and Affiliations

- 清水 健太郎<sup>1,2</sup>  
(1. チューリッヒ大・進化環境研 2. 横浜市大・木原生研)
- Kentarō Shimizu<sup>1,2</sup>  
(1. Dept. Evol. Biol. Env. Studies, Univ. Zurich 2. Kihara Inst. Biol. Sci., Yokohama City Univ.)

[O-5AS-01]

社会性行動の動的な制御を支える神経基盤

Neural basis for dynamic modulation of social behaviors

2023/12/01 09:01 ~ 2023/12/01 09:23

[O-5AS-01-01]

## Adaptation of Social Behaviors in Medaka Larvae: Exploring the Neural Mechanisms in Response to Resource Localization

Adaptation of Social Behaviors in Medaka Larvae: Exploring the Neural Mechanisms in Response to Resource Localization

### Presenter and Affiliations

○ Yasuko Isoe<sup>1</sup> Florian Engert<sup>1</sup>  
(1. Dept. of MCB, Harvard University)

2023/12/01 09:23 ~ 2023/12/01 09:45

[O-5AS-01-02]

## 意思決定における手綱核・脚間核経路による内受容知覚と外受容知覚の制御と統合

Regulation and integration of interoception and exteroception by the habenula-interpeduncular pathway in decision making.

### Presenter and Affiliations

○ 岡本 仁<sup>1</sup>  
(1. 理研脳センター)  
○ Hitoshi Okamoto<sup>1</sup>  
(1. RIKEN CBS)

2023/12/01 09:45 ~ 2023/12/01 10:07

[O-5AS-01-03]

## 観察恐怖課題における腹内側前頭前野の機能と自他の神経表象

Neural representation of self- and other-states in the ventromedial prefrontal cortex during observational fear

### Presenter and Affiliations

○ 黄子彦<sup>1,2</sup> ジョン ミョン<sup>1,2</sup> 田尾 賢太郎<sup>2</sup> 度会 晃行<sup>2</sup> 王 牧芸<sup>2</sup> 伊藤 広朗<sup>1,2</sup> 奥山 輝大<sup>1,2</sup>  
(1. 東大・院医・分子細胞生物学 2. 東大・定量研)  
○ Ziyang Huang<sup>1,2</sup> Myung Chung<sup>1,2</sup> Kentaro Tao<sup>2</sup> Akuyuki Watarai<sup>2</sup> Mu-Yun Wang<sup>2</sup> Hiroh Ito<sup>1,2</sup> Teruhiro Okuyama<sup>1,2</sup>  
(1. Dept. of Mol. Cell Biol., Grad. Sch. of Med., Univ of Tokyo 2. IQB, Univ of Tokyo)

2023/12/01 10:07 ~ 2023/12/01 10:29

[O-5AS-01-04]

## Neural Control of the Homeostatic Need for Social Interaction

Neural Control of the Homeostatic Need for Social Interaction

### Presenter and Affiliations

○ Ding Liu<sup>1</sup> Mostafizur Rahman<sup>1</sup> Autumn Johnson<sup>1</sup> Catherine Dulac<sup>1</sup>  
(1. Harvard University, Howard Hughes Medical Institute)

2023/12/01 10:29 ~ 2023/12/01 10:51

[O-5AS-01-05]

## 逃避行動を制御する視床下部オキシトシン神経回路の同定

A hypothalamic oxytocin circuit acts as a behavioral switch between approach and avoidance

### Presenter and Affiliations

○ 小坂田 拓哉<sup>1</sup>  
(1. ニューヨーク大学医学部神経科学部門)  
○ Takuya Osakada<sup>1</sup>  
(1. New York University School of Medicine Neuroscience Institute)

2023/12/01 10:51 ~ 2023/12/01 11:13

[O-5AS-01-06]

### 父性養育行動スイッチとしてのバソトシン-オキシトシン受容体クロストーク

A Vasotocin-to-Oxytocin Receptor Crosstalk Underlying Parental Behavioral Transition in Male Mice

#### Presenter and Affiliations

稲田 健吾<sup>1</sup> ○ 宮道 和成<sup>1</sup>  
(1. 理研BDR)

Kengo Inada<sup>1</sup> ○ Kazunari Miyamichi<sup>1</sup>  
(1. RIKEN BDR)

[O-5AS-02]

### 機能ゲノミクスとシングルセル生物学の融合

#### Integration of functional genomics and single cell biology

2023/12/01 09:00 ~ 2023/12/01 09:05

[O-5AS-02-01]

### Spatial dissection of cellular heterogeneity in human cancer tissues

Spatial dissection of cellular heterogeneity in human cancer tissues

#### Presenter and Affiliations

○ 永江 玄太<sup>1</sup> 油谷 浩幸<sup>1</sup>  
(1. 東大・先端研・ゲノムサイエンス&メディシン)

○ Genta Nagae<sup>1</sup> Hiroyuki Aburatani<sup>1</sup>  
(1. Genome Sci. & Med., Res. Cent. for Adv. Sci. and Tech. (RCAST), Univ. of Tokyo)

2023/12/01 09:05 ~ 2023/12/01 09:22

[O-5AS-02-02]

### The chromatin accessibility dynamics in cell fate decisions during zebrafish early embryogenesis

The chromatin accessibility dynamics in cell fate decisions during zebrafish early embryogenesis

#### Presenter and Affiliations

○ Xi Chen<sup>1</sup>  
(1. Dept. of Sys. Biol., Sch. of Life Sci., SUSTech)

2023/12/01 09:22 ~ 2023/12/01 09:39

[O-5AS-02-03]

### Single-cell analysis reveals recurring programs in cancer microenvironment

Single-cell analysis reveals recurring programs in cancer microenvironment

#### Presenter and Affiliations

○ Jongeun Park<sup>1</sup>  
(1. Grad. School. of Med. Sci. and Eng., KAIST, South Korea)

2023/12/01 09:39 ~ 2023/12/01 09:56

[O-5AS-02-04 (1P-161)]

### singleCellHaystack: A universal tool for predicting differentially active features in single-cell and spatial genomics data

singleCellHaystack: A universal tool for predicting differentially active features in single-cell and spatial genomics data



## Presenter and Affiliations

○Alexis Vandenbon<sup>1</sup> Diego Diez<sup>2</sup>  
( 1. Institute of Life and Medical Sciences, Kyoto University 2. Immunology Frontier Research Center, Osaka University )

2023/12/01 09:56 ~ 2023/12/01 10:13

[O-5AS-02-05]

### シングルセル解析/空間解析でリンパ腫微小環境を探索する

Dissecting lymphoma microenvironment with single-cell/spatial analysis

## Presenter and Affiliations

○安部 佳亮<sup>1</sup>  
( 1. 筑波大・血液内科 )  
○Yoshiaki Abe<sup>1</sup>  
( 1. Dept. Hematol, Univ. of Tsukuba )

2023/12/01 10:13 ~ 2023/12/01 10:30

[O-5AS-02-06 (1P-955)]

### マルチオミクス解析によるヒト心臓の組織微小環境の解明

Spatially resolved multiomics of human cardiac niches

## Presenter and Affiliations

○金丸 和正<sup>1</sup> James Cranley<sup>1</sup> Michela Nosedà<sup>2</sup> Sarah Teichmann<sup>1,3</sup>  
( 1. Cellular Genomics, Wellcome Sanger Institute 2. National Heart and Lung Institute, Imperial College London 3. Department of Physics, Cavendish Laboratory, University of Cambridge )  
○Kazumasa Kanemaru<sup>1</sup> James Cranley<sup>1</sup> Michela Nosedà<sup>2</sup> Sarah Teichmann<sup>1,3</sup>  
( 1. Cellular Genomics, Wellcome Sanger Institute 2. National Heart and Lung Institute, Imperial College London 3. Department of Physics, Cavendish Laboratory, University of Cambridge )

2023/12/01 10:30 ~ 2023/12/01 10:47

[O-5AS-02-07]

### Single-cell genomics meets human genetics

Single-cell genomics meets human genetics

## Presenter and Affiliations

○Anna Cuomo<sup>1</sup>  
( 1. Garvan Institute of Medical Research )

2023/12/01 10:47 ~ 2023/12/01 11:04

[O-5AS-02-08]

### 1細胞マルチモーダル技術の統計モデリングにより疾患ゲノムデータから原因変異と遺伝子を同時特定する

Finding causal mechanisms of human diseases by integrative analyses of genetics and single-cell genomics

## Presenter and Affiliations

○坂上 沙央里<sup>1,2</sup>  
( 1. ハーバード大学 2. ブロード研究所 )  
○Saori Sakaue<sup>1,2</sup>  
( 1. Harvard Medical School 2. Broad Institute )

2023/12/01 11:04 ~ 2023/12/01 11:09

[O-5AS-02-09]

### 自然免疫応答の遺伝的多様性を一細胞分解能で理解する

## Presenter and Affiliations

- 熊坂 夏彦<sup>1</sup>  
(1. 成育・エコチル調査研究部)
- Natsuhiko Kumasaka<sup>1</sup>  
(1. MSC for JECS, HCCHD)

### [O-5PS-01]

#### 合成バイオテクノロジーとその将来展望

#### Synthetic biotechnology and beyond

2023/12/01 16:05 ~ 2023/12/01 16:30

[O-5PS-01-01]

#### 染色体複製サイクル再構成系とその将来展望

Replication Cycle Reaction and Beyond

## Presenter and Affiliations

- 末次 正幸<sup>1</sup>  
(1. 立教大・理)
- Masayuki Suetsugu<sup>1</sup>  
(1. Sch. of Sci. Rikkyo univ.)

2023/12/01 16:30 ~ 2023/12/01 16:55

[O-5PS-01-02]

#### 人工細胞リアクタテクノロジー

Artificial cell reactor technology

## Presenter and Affiliations

- 野地 博行<sup>1</sup>  
(1. 東大・院工・応用化学)
- Hiroyuki Noji<sup>1</sup>  
(1. Dept. of App. Chem., Grad. Sch. of Eng., Univ. of Tokyo)

2023/12/01 16:55 ~ 2023/12/01 17:20

[O-5PS-01-03]

#### RNA依存性プロテアーゼ、CRISPR-Cas7-11の発見と細胞操作技術への応用

CRISPR-Cas7-11 is a target RNA-guided RNase/Protease and its application to cell biology

## Presenter and Affiliations

- 加藤 一希<sup>4</sup> 岡崎 早恵<sup>1</sup> Cian Schmitt-Ulms<sup>2</sup> Kaiyi Jiang<sup>2</sup> Wenyuan Zhou<sup>2</sup> 諫山 縁<sup>1</sup> Omar O Abudayyeh<sup>2</sup> Jonathan S Gootenberg<sup>2</sup> 西増 弘志<sup>1,3</sup>  
(1. 東大・先端研 2. McGovern Inst. for Brain Res., MIT 3. 東大・院工・化生 4. 東京医科歯科・統合研究機構・分子機構免疫学分野)
- Kazuki Kato<sup>1</sup> Sae Okazaki<sup>2</sup> Cian Schmitt-Ulms<sup>3</sup> Kaiyi Jiang<sup>3</sup> Wenyuan Zhou<sup>3</sup> Yukari Isayama<sup>2</sup> Omar O Abudayyeh<sup>3</sup> Jonathan S Gootenberg<sup>3</sup> Nishimasu Hiroshi<sup>2,4</sup>  
(1. Dept. of Molecular and Mechanistic Immunol., Tokyo Med. and Dent. Univ. 2. RCAST, Univ. of Tokyo 3. McGovern Inst. for Brain Res., MIT 4. Dept. of Chem. and Biotech., Grad. Sch. of Eng., Univ. of Tokyo)

2023/12/01 17:20 ~ 2023/12/01 17:45

[O-5PS-01-04]

#### 生命現象の光操作技術の創出

Manipulating biological systems by light

## Presenter and Affiliations

○佐藤 守俊<sup>12</sup>

(1. 東大・院総合文化 2. 神奈川県立産業技術総合研究所)

○Moritoshi Sato<sup>12</sup>

(1. Grad. Sch. of Arts and Sci., Univ. of Tokyo 2. KISTEC)

2023/12/01 17:45 ~ 2023/12/01 18:10

[O-5PS-01-05]

### 植物の力を利用した標的タンパク質分解

Targeted protein degradation with the power of plant

## Presenter and Affiliations

○鐘巻 将人<sup>123</sup>

(1. 遺伝研・遺伝メカニズム研究系 2. 総研大・先端学術院 3. 東大・院理・生物科学)

○Masato Kanemaki<sup>123</sup>

(1. Dep. of Chrom. Sci., Nat. Inst. of Genet. 2. Grad. Inst. Advan. Stud., SOKENDAI 3. Dept. of Biol. Sci., Grad. Sch. of Sci., Univ. of Tokyo)