【第3日目12月3日(木)】

3S2 第2会場(神戸ポートピアホテル 本館 地下1階 偕楽1) 9:00-11:30 【E】

Nascent chains: the ribosome as a hub for protein quality control

Organizers：**Hideki Taguchi** (Tokyo Institute of Technology)
Toshifumi Inada (Tohoku University)

Introduction 【9:00】

Hideki Taguchi (Tokyo Institute of Technology)

3S2-1 【9:02】

Ubiquitylation of Stalled Ribosome Triggers Ribosome Quality Control
Toshifumi Inada (Dept. of Mol. Cell Biol.,Grad. Sch. of Pharm. Sci., Tohoku Univ.)

3S2-2 【9:24】

Structural insights into regulation and failure of eukaryotic translation termination
Roland Beckmann (Gene Center, Munich University)

3S2-3 【9:54】

Nascent chain-monitored remodeling of the Sec machinery for salinity adaptation of marine bacteria
Hiroyuki Mori[1], Eiji Ishii[1], Shinobu Chiba[2], Narimasa Hashimoto[1], Seiji Kojima[3], Michio Homma[3], Koreaki Ito[2], Yoshinori Akiyama[1] ([1]Inst. Virus Res., Kyoto Univ., [2]Kyoto Sangyo Univ., [3]Grad. Sch. Sci., Nagoya Univ.)

3S2-4 【10:16】

Mapping the cotranslational chaperone network in eukaryotic cells
Judith Frydman (Stanford University, Stanford, CA 94305)

3S2-5 【10:46】

Molecular mechanism of the translation arrest by SecM
Zhuohao Yang, Ryo Iizuka, Yuanfang Guo, Shunsuke Yamashiro, **Takashi Funatsu** (Grad. Sch. of Pharm. Sci., Univ. of Tokyo)

3S2-6 【11:08】

Global analysis of yeast protein aggregation using a reconstituted cell-free translation system
Hideki Taguchi, Eri Uemura, Tatsuya Niwa (Grad. Sch. Biosci. and Biotech., Tokyo Tech.)

3S3 第3会場(神戸ポートピアホテル 本館 地下1階 偕楽2) 9:00-11:30 【E】

Molecular Basis of Oxidative-Electrophilic Stress Response

Organizers：**Masayuki Yamamoto** (Tohoku University)
Masaaki Komatsu (Niigata University)

3S3-1 【9:00】

p62 promotes malignancy of hepatocellular carcinoma through Nrf2-dependent metabolic reprogramming
Masaaki Komatsu (Dept. Biochem., Grad. Sch. of Med., Niigata Univ.)

3S3-2 【9:30】

The regulation of p62-Nrf2-Keap1 axis in dysregulation of lipid metabolism and oxidative stress
Soo han Bae[1,2,3] ([1]Severance Biomedical Science Institute, [2]Yonsei Biomedical Research Institute, [3]Yonsei University College of Medicine)

3S3-3 【10:00】

Redox regulation of magnesium-ion transporter MagEx/CNNM
Yosuke Funato, Daisuke Yamazaki, **Hiroaki Miki** (Dept. of Cell. Reg., Res. Inst. for Microb. Dis., Osaka Univ.)

3S3-4 【10:30】

Antioxidant Electrophilic Signaling Regulated by Reactive Sulfur Species and Its Translational Biosynthesis
Takaaki Akaike (Dept. of Health Sci. and Mol. Toxicol., Grad. Sch. Med., Tohoku Univ.)

3S3-5 【11:00】

Critical Roles Keap1-Nrf2 System Plays in Stress Response

Masayuki Yamamoto（Dept. of Med. Biochem., Grad. Sch. of Med., Tohoku Univ.）

3S4 第4会場(神戸ポートピアホテル 本館 地下1階 偕楽3) 9:00-11:30 【E】

Cell and Time

Organizers：**Hitoshi Okamura**（Kyoto University）
Yumiko Saga（National Institute of Genetics）

Introduction 【9:00】

Hitoshi Okamura（Kyoto University）

3S4-1 【9:02】

「Time in the Cell」 ~ Why is the circadian clock suppressed in pluripotent stem cells?~

Kazuhiro Yagita（Dept. of Physiol. and Syst. Biosci., Grad. Sch. of Med., Kyoto Pref. Univ. of Med.）

3S4-2 【9:25】

Dynamic expression of Notch ligand Dll1 during development

Hiromi Shimojo[1,2], Hiroshi Kori[3], Akihiro Isomura[2], Toshiyuki Ohtsuka[2], Hitoshi Miyachi[2], Ryoichiro Kageyama[1,2]
([1]iCeMS, Kyoto University, [2]IVR, Kyoto University, [3]Dept. of Information Sci., Ochanomizu University）

3S4-3 【9:48】

An intrinsic buffering mechanism in spermatogonial stem cells controls the timing of mouse spermatogenesis

Yumiko Saga, Zhi Zhou（NIG）

3S4-4 【10:11】

Dynamics of stem cell system in intestinal epithelium.

Toshiro Sato, Yuki Ohta, Mariko Shimokawa, Yoshihiro Nakazato, Kosaku Nanki（Department of Gastroenterology, Keio University School of Medicine）

3S4-5 【10:34】

Liver polyploidy: Dr Jekyll or Mr Hide?

Chantal Desdouets（Institut Cochin, Inserm U1016, Paris）

3S4-6 【10:57】

Cell clock and cell cycle

Hitoshi Okamura[1,2]（[1]Dept. Systems Biol., Grad. Sch. Pharm. Sci., Kyoto Univ., [2]CREST, JST）

Discussion 【11:20】

Conclusion 【11:29】

Yumiko Saga（National Institute of Genetics）

3S14 第14会場(神戸国際会議場 1階 メインホール) 9:00-11:30 【E】

Customizing cells and organisms using genome editing

Organizers：**Takashi Yamamoto**（Hiroshima University）
Akitsu Hotta（Kyoto University）

3S14-1 【9:00】

Genome editing with programmable site-specific nucleases

Takashi Yamamoto（Dept. of Math. Life. Sci., Grad. Sch. of Sci., Hiroshima Univ.）

3S14-2 【9:10】

Structural basis for molecular mechanisms of CRISPR-Cas9

Osamu Nureki（Dept. of Bioph. and Bioch. Grad. Sch. of Sci., Univ. of Tokyo）

3S14-3 【9:30】

Genome-editing technologies in HIV research

Hirotaka Ebina, Shuhei Ueda, Yuka Kanemura, Naoko Misawa, Yoshio Koyanagi (Institute for Virus Research, Kyoto Univ.)

3S14-4 【9:50】

Improved PITCh systems: enhancing convenience, efficiency, and applicability of MMEJ-mediated gene knock-in

Tetsushi Sakuma, Shota Nakade, Yuto Sakane, Ken-ichi Suzuki, Takashi Yamamoto (Dept. of Math. and Life Sci., Grad. Sch. of Sci., Hiroshima Univ.)

3S14-5 【10:10】

Genome Editing in Stem Cells, Animals, and Plants

Jin-soo Kim[1,2] ([1]Dept. of Chemistry, Seoul National Univ., [2]Center for Genome Engineering, Institute for Basic Science)

3S14-6 【10:50】

Generation of genetically modified pigs by genome editing

Hiroshi Nagashima (Meiji University International Institute for Bio-Resource Research)

3S14-7 【11:10】

The genome editing technologies in marmoset for creating new primate models

Erika Sasaki[1,2] ([1]Dept. of App. Dev. Biol.,Central Institute for Experimental Animals, [2]Keio Advanced Research Center, Kio Univ.)

3S15 第15会場(神戸国際会議場3階 国際会議室) 9:00-11:30 【E】

Genetic/Epigenetic Regulation and Reconstitution In Vitro of Germ Cell Development

Organizers：**Mitinori Saitou** (Kyoto University)
Katsuhiko Hayashi (Kyushu University)

3S15-1 【9:00】

Stochasticity and hierarchy of spermatogenic stem cells

Shosei Yoshida (Natl. Inst. Basic Biology)

3S15-2 【9:30】

Sex Chromosomes and Mammalian Infertility

James MA Turner (Francis Crick Institute, Mill Hill Laboratory, London, UK)

3S15-3 【10:00】

Intrinsic and age-related sources of aneuploidy in eggs

Tomoya Kitajima (RIKEN CDB)

3S15-4 【10:30】

Reconstitution of mouse oogenesis in vitro

Katsuhiko Hayashi[1], Orie Hikabe[1], Nobuhiko Hamazaki[1], Norio Hamada[1], Yasuyuki Ohkawa[2] ([1]Dept. of Stem Cell Biol., Faculty of Med., Kyushu Univ., [2]Dept. of Advanced Medical Initiatives, Faculty of Med., Kyushu Univ.)

3S15-5 【11:00】

Towards Understanding and Reconstitution In Vitro of Human Germ Cell Development

Mitinori Saitou[1,2,3,4] ([1]Dept. of Anat. Cell Biol., Grad. Sch. of Med., Kyoto Univ., [2]JST, ERATO, [3]iCeMS, Kyoto Univ., [4]CiRA, Kyoto Univ.)