第 25 回 日本 RNA 学会年会 口頭発表

Oral Presentations of the 25th RNA Japan Meeting in TOKYO

●:筆頭著者が学生会員 First author is student member

June 26th (Wed)

09:15-09:25	Opening Remark Head organizer Kumiko Ui-Tei (The University of Tokyo)	
09:25-12:00	Session 1	Transcription · Splicing · Translation 🛛 🗉
	Chairpersons	Shintaro Iwasaki (RIKEN)
		Shunichi Kashida (xFOREST Therapeutics)
09:25-09:30	Overview	
09:30-09:55	organelles and R OMaria Hondele ¹	ses are global regulators of phase-separated
09:55-10:20	condensates OZoher Gueroui ¹	aker] ase separations in cells to manipulate RNA cherche Paris Sciences et Lettres, France)

10:20-10:30 Coffee Break

10:30-10:45 **O-01**

RNA polymerase II-mediated rDNA transcription is necessary for rDNA copy number expansion in *Drosophila*

OGeorge J. Watase^{1,2}, Yukiko M. Yamashita^{2,3,4}

(¹Department of Germline Development, Institute of Molecular Embryology and Genetics, Kumamoto University, ²Whitehead Institute for Biomedical Research, ³Massachusetts Institute of Technology, Department of Biology, ⁴Howard Hughes Medical Institute)

10:45-11:00 **O-02** 穿

Elucidation of mechanism for *Mecp2* pre-mRNA alternative splicing

○Saya Oshizuki¹, So Masaki¹, Satoshi Tanaka¹, Naoyuki Kataoka¹ (¹Graduate School of Agricultural and Life Sciences, The University of Tokyo)

11:00-11:15 **O-03** 穿

Two transcript variants of *ewsr1b* define translational timings and protein localization during zebrafish development

OKeisuke Sato¹, Ludivine Fierro¹, and Tomoya Kotani^{1,2} (¹Graduate School of Life Science, Hokkaido University, ²Faculty of Science, Hokkaido University)

11:15-11:30 **O-04** 穿

RIOK2 facilitates CLK1 localization to nuclear stress bodies by antagonizing PP1 for thermo-sensitive splicing regulation

 \bigcirc Tsuyoshi Ueno¹, Shungo Adachi², Kensuke Ninomiya³, Ichiro Taniguchi³, and Tetsuro Hirose^{1,3,4}

 $(^1Graduate$ School of Science, Osaka University, 2National Cancer Center Research Institute, 3Graduate School of FBS and 4OTRI , Osaka University)

11:30-11:45 **O-05**

Ribosome stalling induces RNF10 and stress response-mediated regulation of ribosomal subunit amounts

○Toru Suzuki¹, Sihan Li¹, Sota Ito¹, Momoko Narita¹, Chisato Kikuguchi¹, Miho Hoshi¹, Yoshitaka Matsuo¹, Toshifumi Inada¹

 $(^{1}\mbox{Division}$ of RNA and gene regulation, Institute of Medical Science, The University of Tokyo)

11:45-12:00 **O-06**

Girolline is a sequence context-selective modulator of eIF5A activity

○Tilman Schneider-Poetsch^{1*}, Yongjung Dang², Wakana Iwasaki³, Mayumi Arata⁴, Yuichi Shichino⁵, Ali Al Mourabit⁶, Celine Moriou⁶, Daniel Romo⁷, Jun O. Liu⁸, Takuhiro Ito³, Shintaro Iwasaki^{5,9} and Minoru Yoshida^{1,4,10,11*}

⁽¹Chemical Genomics Research Group, RIKEN CSRS, ²Chongqing Medical University, College of Pharmacy, China, ³Laboratory for Translation Structural Biology, RIKEN CBR, ⁴Drug Discovery Seed Compounds Exploratory Unit, RIKEN CSRS, ⁵RNA Systems Biochemistry Laboratory, RIKEN CPR, ⁶Institut de Chimie des Substances Naturelles, CNRS, France, ⁷Department of Chemistry and Biochemistry, Baylor University, USA, ⁸Department of Pharmacology and Molecular Sciences, The Johns Hopkins University School of Medicine, USA, ⁹Department of Computational Biology and Medical Sciences, The University of Tokyo, ¹⁰Office of University Professors, The University of Tokyo, ¹¹Collaborative Research Institute for Innovative Microbiology, The University of Tokyo)

12:00-13:00 Lunch

13:00-14:30 Poster session 1 (Odd-Numbered Presenters)

14:30-15:50	Session 2	RNA Structure 🛛
	Chairpersons	Kazuki Kato (Tokyo Medical and Dental University)
		Norifumi Shioda (Kumamoto University)

14:30-14:35 **Overview**

14:35-14:50 O-07 ⊕ [2023 Aoba prize winner] Structural basis for superior affinity binding of unnatural-base aptamers to Dengue antigen NS1 proteins

○Kazuhiro Sawada¹, Ryu Takayanagi¹, Michiko Kimoto², Fumiya Sano¹, Yutaro Shuto¹, Yoshiaki Kise¹, Ken-ichiro Matsunaga², Hui Pen Tan² Ichiro Hirao², and Osamu Nureki¹

(¹Department of Biological Sciences, Graduate School of Science, The University of Tokyo, ²Xenolis Pte. Ltd., ³IBB A*STAR)

14:50-15:05 **O-08**

tRNA intron and protein folding: how so close?

OSachiko Hayashi¹, Sachiko Hayashi¹, Ryujiro Nakamura², Hitomi Kato², Yuichi Shichino³, Shintaro Iwasaki^{3,4}, and Tohru Yoshihisa¹ (¹Graduate School of Science, University of Hyogo, ²Faculty of Science, University of Hyogo, ³Cluster for Pioneering Research, RIKEN, ⁴ Graduate School of Frontier Sciences, The University of Tokyo)

15:05-15:20 **O-09**

Structural basis for the efficient sulfur transfer via an *E. coli* protein TusE required for tRNA 2-thiouridine formation as elucidated by solution NMR spectroscopy

 \bigcirc Yuji Tokunaga¹, Naoki Shigi², Kenjo Miyauchi³, Yuriko Sakaguchi³, Tsutomu Suzuki³, and Koh Takeuchi¹

(¹Graduate School of Pharmaceutical Sciences, The University of Tokyo, ²AIST-Waseda University Computational Bio Big-Data Open Innovation Laboratory (CBBD-OIL), AIST, ³Department of Chemistry and Biotechnology, Graduate School of Engineering, University of Tokyo)

15:20-15:35 **O-10** 穿

Mapping of the NEAT1_2 IncRNA domains that define the micelle structure and morphology of paraspeckles

 $\bigcirc \mathsf{Sota}$ Umezaki^1, Tomohiro Yamazaki^1, Hiro Takakuwa^1, and Tetsuro $\mathsf{Hirose}^{1,2}$

 $(^1\mbox{Graduate School of Frontier Bioscience, Osaka University, <math display="inline">^2\mbox{OTRI},$ Osaka University)

15:35-15:50 **O-11**

RNA G-quadruplexes forming scaffolds for a-synuclein aggregation lead to synucleinopathy-like neurodegeneration OYasushi Yabuki^{1,2}, Kazuya Matsuo¹, Norifumi Shioda^{1,2} (¹Department of Genomic Neurology, Institute of Molecular Embryology and Genetics, The University of Kumamoto, ²School of Pharmacy, The University of Kumamoto)

protein

15:50-16:00 Coffee Break

16:00-17:30	Session 3	RNA Modification 🛛 🖾
	Chairpersons	Masatora Fukuda (Fukuoka University)
		Masayuki Sakurai (Tokyo University of Science)

16:00-16:05 **Overview**

16:05-16:30 I-3 [Invited Speaker] Coordinated changes of tRNA modifications for homeostasis

OYa-Ming Hou¹, Yuko Nakano¹, and Howard Gamper¹

(¹Thomas Jefferson University, Philadelphia, USA)

16:30-16:45 **0-12** 穿

Avoiding tRNA modification enables translation initiation with a quadruplet codon-anticodon interaction.

OMasahiro Muto¹, Asuteka Nagao¹, Kensuke Ishiguro¹, Takahiro Yokoyama¹, Yuriko Sakaguchi¹, Shungo Adachi², Shintaro Iwasaki³, Takeshi Yokoyama⁴, and Tsutomu Suzuki¹.

(¹Department of Chemistry and Biotechnology, The University of Tokyo, ²National Cancer Center Research Institute, ³RIKEN Cluster for Pioneering Research, ⁴Graduate School of Life Sciences, Tohoku University)

16:45-17:00 **0-13** 쭞

Elucidation of the pathogenic mechanism underlying Aicardi-Goutières syndrome-like encephalopathy caused by mutations in the RNA-editing enzyme ADAR1.

 \bigcirc Hyebin Yoo¹, Taisuke Nakahama^{1,2,3,4}, Yuki Kato^{1,2,3}, and Yukio Kawahara^{1,2,3,4,5}

(From the ¹Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and ²Graduate School of Medicine, ³Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), ⁴Center for Infectious Disease Education and Research (CiDER), and ⁵Genome Editing Research and Development Center, Graduate School of Medicine, Osaka University, Suita, Osaka, Japan)

17:00-17:15 **O-14**

Adenosine-to-inosine base editing by ADAR; new features for DNA regulation via R-loop structure.

OMasayuki Sakurai¹, Yuxi Yang¹, Mai Kubota², Eito Ichihashi².

(¹Research Institute for Biomedical Science, Tokyo University of Science,

²Graduate School of Biological Sciences, Tokyo University of Science)

17:15-17:30 **O-15**

Unveiling the Impact of m1 $\Psi\text{-}Modified$ mRNA on Vaccine Efficacy and Mechanisms

 \bigcirc Akiko Ogawa¹, Du Dewei¹, Takefumi Yamashita², Hiroki Ueda¹, Asuka Inoue³, Tsutomu Suzuki⁴, and Fan-Yan Wei¹

(¹Tohoku University, ²The University of Tokyo, ³Kyoto University)

June 27th (Thu)

09:15-09:55	Special Lecture 🗉		
	Chairpersons	Shinichi Nakagawa (Hokkaido University)	
		Kumiko Ui-Tei (The University of Tokyo)	
09:15-09:55	S-1 [ONLINE]		
	Developing mRN OKatalin Karikó ^{1,2}		
	(¹ University of Sz	eged, Hungary, ² University of Pennsylvania, USA)	
10:00-11:55	Session 4	Virus and Defense System	
	Chairpersons	Takashi Mino (Kyoto University)	
		Koji Onomoto (Chiba University)	
10:00-10:05	Overview		
10:05-10:30	I-4 [Invited Spe	aker]	
	critical determin Yuta Tsukamoto ¹ , (¹ Medical Faculty,	n of the first nucleotide in host capped RNA is a nant for the cap snatching of influenza viruses Manabu Igarashi ² , and ○Hiroki Kato ¹ University Hospital Bonn, University of Bonn, Bonn,	
	Germany, ² Inter University, Sappo	national Institute for Zoonosis Control, Hokkaido ro, Japan)	

10:30-10:55 I-5 [Invited Speaker] [ONLINE]

Regulation and sensing of self Z-RNA in cell death and interferon responses

OManolis Pasparakis¹

(¹Institute for Genetics and Cologne Excellence Cluster on Ageing-Associated Diseases, University of Cologne, Cologne, Germany)

10:55-11:10 **O-16**

Formation of intersegment interactions in viral droplets of influenza A virus infected cells

⊖Naoki Takizawa¹

(¹Institute of Microbial Chemistry)

11:10-11:25 **O-17** 🖲

SARS-CoV-2 nsp1 binds stalled ribosomes and promotes translational stall read-through

 \bigcirc Malvin Leonardo Pardi^{1,2}, Wakana Iwasaki³, Mari Mito⁴, Yuichi Shichino⁴, Mio Iwasaki², Takuhiro Ito³, Shintaro Iwasaki^{4,5}, and Hirohide Saito^{1,2}

(¹Graduate School of Medicine, Kyoto University, ²Center for iPS Cell Research and Application, Kyoto University, ³RIKEN Center for Biodynamics Systems Research, ⁴RIKEN Cluster for Pioneering Research, ⁵Graduate School of Frontier Sciences, The University of Tokyo)

11:25-11:40 **O-18** 🖲

The RNA silencing factor, TRBP, regulates the balance of antiviral response in mammalian cells

○Keiko Shibata¹, Harune Moriizumi¹, Koji Onomoto², Yuka Kaneko¹,
Mitsutoshi Yoneyama^{2,3}, Kumiko Ui-Tei^{4,5}, Tomoko Takahashi^{1,4}

(¹Graduate School of Science and engineering, Saitama University, ²Medical Mycology Research Center, Chiba University, ³Research Institute of Disaster Medicine, Chiba University, ⁴Graduate School of Science, The University of Tokyo, ⁵Graduate School of Frontier Sciences, The University of Tokyo)

11:40-11:55 **O-19**

Maintenance of immune homeostasis by N4bp1-mediated degradation of endogenous retroviruses RNAs Guohao Liu¹, Yeekien Chong¹, Osamu Takeuchi¹ (¹Department of Medical Chemistry, Graduate School of Medicine, Kyoto University)

- 11:55-13:00 Lunch
- 13:00-14:30 Poster session 2 (Even-Numbered Presenters)

14:30-14:55 EMBO Lecture

Communicating research, Poster presentation Ocornelius Schneider (Scientific Editor, EMBO Journal)

14:55-16:30	Session 5	Non-coding RNA 🛛 🖽
	Chairpersons	Yuka Iwasaki (RIKEN)
		Tomohiro Yamazaki (Osaka University)

14:55-15:00 Overview

15:00-15:15 **O-20**

Lipid kinase PIP5K1A regulates *let-7* microRNA biogenesis through interacting with nuclear export protein XPO5

OChun Li^{1,2}, Bohyung Yoon¹, Giovanni, Stefani¹, Frank J. Slack¹ (¹Harvard Medical School Initiative for RNA Medicine, Department of Pathology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, USA, ²Department of Molecular and Cellular Medicine, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan.)

15:15-15:30 **O-21** 穿

Mitochondrial protein Daed regulates Zuc cleavage position in piRISC maturation to optimize transposon repression

 \bigcirc Yuica Koga 1 , Shigeki Hirakata 1 , Mayu Negishi 1 , Hiroya Yamazaki 1 , Mikiko C. Siomi 1

(¹Department of Biological Sciences, Graduate School of Science, The University of Tokyo)

15:30-15:45 **0-22**

Role of transcription termination in retrotransposon silencing by the Piwi-piRNA complex in *Drosophila* ovary

○Kensaku Murano, Yaning Wu, Rin Imai, Haruhiko Siomi (Department of Molecular Biology, Keio University School of Medicine)

15:45-16:00 **0-23**

Competition between adjacent piRNA-producing sites autonomously shapes the repertoire and biogenesis efficiency of piRNAs

Jie Yu¹, Natsuko Izumi¹, Yukihide Tomari^{1,2}, Keisuke Shoji^{1,2,3}

(¹Institute for Quantitative Biosciences, The University of Tokyo, ² Graduate School of Frontier Sciences, The University of Tokyo, ³Graduate school of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology)

16:00-16:15 **O-24** 穿

Dual Mechanisms of RNase L-mediated Stress Response Regulated by RTCB Ligase Complex

 \bigcirc Yoshika Takenaka 1 , Yasutoshi Akiyama 1 , Yoshihisa Tomioka 1 and Pavel Ivanov 2,3

(¹Tohoku University Graduate School of Pharmaceutical Sciences, ²Brigham and Women's Hospital, Boston, USA, ³Harvard Medical School, Boston, USA)

16:15-16:30 **O-25** 😤

Deciphering the role of HSATIII lncRNAs in nuclear stress body formation : Insights from reconstitution studies OYuichi Matsuda¹, Manami Kakuno¹, Shungo Adachi², Tomohiro Yamazaki³, Kensuke Ninomiya³, Tetsuro Hirose^{1,3,4} (¹Graduate School of Science, Osaka University, ²National Cancer Center Research Institute, ³Graduate school of Frontier Biosciences, ⁴OTRI, Osaka University)

16:30-17:30 The General Meeting of the 25th RNA Society of Japan

June 28th (Fri)

09:15-10:35	Session 6	RNA Technology 🛛 🗉
	Chairpersons	Hirohide Saito (Kyoto University)
		Josephine Galipon (Yamagata University)

09:15-09:20 Overview

09:20-09:35 **O-26 [2023 Aoba prize winner]**

Complexity and dynamics of *in organello* translation landscape assessed by high-resolution mitochondrial ribosome profiling

○Taisei Wakigawa^{1,2}, Mari Mito¹, Haruna Yamashiro¹, Kotaro Tomuro^{1,2}, Haruna Tani³, Kazuhito Tomizawa⁴, Takeshi Chujo⁴, Asuteka Nagao⁵, Takeo Suzuki^{5,6}, Fan-Yan Wei³, Yuichi Shichino¹, Tsutomu Suzuki⁵, and Shintaro Iwasaki^{1,2}

(¹RIKEN Cluster for Pioneering Research, ²Graduate School of Frontier Sciences, The University of Tokyo, ³Institute of Development, Aging and Cancer, Tohoku University, ⁴Faculty of Life Sciences, Kumamoto University, ⁵Graduate School of Engineering, The University of Tokyo, ⁶Graduate School of Medicine, University of the Ryukyus)

09:35-09:50 **0-27** 🖲

Local translation atlas revealed by APEX-Ribo-seq

OKotaro Tomuro^{1,2}, Shintaro Iwasaki^{1,2}, and Yuichi Shichino¹ (¹RIKEN Cluster for Pioneering Research, ²Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo)

09:50-10:05 **O-28** 穿

Unbiased multi-omics profiling of splicing factors with hireCLIPseq

○ Mina Yoshida^{1,2}, Masahiko Ajiro¹, Asuka Kawachi¹, Mayumi Hanzawa¹,
Kazuki Nishimura¹, Ryoichi Maenosono¹, Takuya Izumi¹, Minori Koizumi¹,
Rei Kudo¹, Natsuko Shinohara¹, Marimu Sakumoto¹, Hirotaka Matsui¹,
Tomoya Muto¹, Shungo Adachi³, Atsushi Iwama², Genta Nagae⁴, Hiroki Ueda⁵, Hiroyuki Aburatani⁴, Akihide Yoshimi¹

(¹Div. Cancer RNA Research, NCCRI, ²Div. Stem Cell & Molecular Medicine, IMSUT, ³Div. Proteomics, NCCRI, ⁴Genome Science & Medicine Laboratory, RCAST, Tokyo Univ., ⁵Biological Data Science, RCAST, Tokyo Univ.)

10:05-10:20 **0-29**

ICLAMP: a novel technique to explore adenosine deamination via inosine chemical labeling and affinity molecular purification

○Yang Yuxi¹, Koki Nakayama¹, Shunpei Okada², Kazuki Sato³, Takeshi Wada³, Yuriko Sakaguchi⁴, Ayaka Murayama⁴, Tsutomu Suzuki⁴, Masayuki Sakurai¹

(¹Research Institute for Biomedical Science, Tokyo University of Science, ²Department of Microbiology, Faculty of Medicine, Shimane University, ³Department of Medicinal and Life Sciences, Faculty of Pharmaceutical Sciences, Tokyo University of Science, ⁴Department of Chemistry and Biotechnology, Graduate School of Engineering, University of Tokyo)

10:20-10:35 **O-30** 😤

Development of CRISPR-Cas-inspired RNA-guided proteins via click reaction and its application for live cell imaging

 \bigcirc Jun Nakamura¹, Miyako Shiraishi², Junpei Yamamoto², Keiichiro Suzuki^{1,2,3}

(¹Graduate School of Frontier Bioscience, Osaka University, ²Graduate School of Engineering Science, Osaka University, ³Institute for Advanced Co-Creation Studies, Osaka University)

10:35-10:45 Coffee Break

10:45-12:15	Session 7	RNA Therapeutics 🛛 🗉
	Chairpersons	Kazuki Sato (Tokyo University of Science)
		Tomoko Takahashi (Saitama University)

10:45-10:50 Overview

10:50-11:15 I-6 [Invited Speaker] Nuclear RNAi in Mammalian Cells Obavid R. Corey¹ (¹Department of Pharmacology, UT Southwestern Medical Center, Dallas, USA)

11:15-11:30 **O-31** 穿

Improvement of siRNA target specificity with a new 2'-modified nucleoside analog

○Kohei Nomura¹, Seongjin An², Hirotaka Murase¹, Kosuke Nakamoto¹, Yasuaki Kimura¹, Naoko Abe¹, Yoshiaki Kobayashi³, Kumiko Ui-Tei^{2,3}, Jiro Kondo⁴ and Hiroshi Abe^{1,5,6}

(¹Graduate School of Science, Nagoya University, ²Graduate School of Frontier Science, ³Graduate School of Science, The University of Tokyo, ⁴Faculty of Science and Technology, Sophia University, ⁵JST CREST, ⁶ iGCORE)

11:30-11:45 **O-32** 穿

Solid-Phase Synthesis and Properties of Boranophosphate, Phosphorothioate, and Phosphate Chimeric Oligonucleotides OYuhei Takahashi¹, Kazuki Sato¹, Takeshi Wada¹

(¹Department of Medicinal and Life Sciences, Faculty of Pharmaceutical Sciences, Tokyo University of Science)

11:45-12:00 **0-33**

Development of Chemically Modified mRNAs based on Chemical Synthesis for Highly Efficacious mRNA Therapeutics

○Yasuaki Kimura¹, Hiroto Iwai², Masakazu Honma², Hiroki Yamada², Kosuke Nakamoto¹, Masahito Inagaki¹, Fumitaka Hashiya¹, Naoko Abe¹, Junichiro Yamamoto², Hiroshi Abe^{1,3}

(¹Graduate School of Science, Nagoya Univeristy, ²Research Unit, Research Division, Kyowa Kirin Co., Ltd., ³Institute for Glyco-core Research (iGCORE), Nagoya University)

12:00-12:15 **0-34**

NMR analyses of the molecular recognition mechanism of anti-VEGF RNA aptamer

 \bigcirc Koh Takeuchi (¹Graduate School of Pharmaceutical Sciences, The University of Tokyo)

12:15-13:15 Lunch

13:15-15:25	Session 8	Physiology and Diseases 🛛 🗉
	Chairpersons	Fan-Yan Wei (Tohoku University)
		Yoshimasa Asano (Nihon University)
13:15-13:20	Overview	

13:20-13:35 O-35 🖲

Extensive Deregulation of Genes in Mouse Embryonic Germ Cells OPeilin Li¹, Haruka Narita¹, Yuta Uneme¹, Mikiko C. Siomi¹, Soichiro Yamanaka¹

(¹Graduate School of Science, The University of Tokyo)

13:35-14:00 I-7 [Invited Speaker] [ONLINE] RNAs in population genomics OQingbo S. Wang¹

(¹Calico Life Sciences LLC)

14:00-14:25 I-8 [Invited Speaker]

Black or white? A micro-RNA underlies a 100-million-year adaptive evolution in butterflies and moths

OShen Tian¹, Yoshimasa Asano², Tirtha Das Banerjee¹, Jocelyn Liang Qi Wee¹, Abigail Lamb³, Yehan Wang¹, Suriya Narayanan Murugesan¹, Kumiko Ui-Tei^{2,4}, Patricia J. Wittkopp^{3,5}, Antónia Monteiro¹

(¹Department of Biological Sciences, National University of Singapore, ²Graduate School of Science, The University of Tokyo, ³Department of Molecular, Cellular, and Developmental Biology, University of Michigan, ⁴Graduate School of Frontier Sciences, The University of Tokyo, ⁵Department of Ecology and Evolutionary Biology, University of Michigan)

14:25-14:40 **O-36**

Landscape of circadian translation rhythms in plants

○Naohiro Kawamoto¹, Mari Mito¹, Sumie Ohbu², and Shintaro Iwasaki^{1,3} (¹RIKEN Cluster for Pioneering Research, Graduate School of Science, ²RIKEN Ion Beam Breeding Group, RNC, ³School of Life Science and Technology, Tokyo Institute of Technology)

14:40-14:55 **O-37**

Translational regulation for cell type distinction and neuronal adaptation in the *Drosophila* brain

○Toshiharu Ichinose^{1,2}, Mai Kanno², Shu Kondo³, Yuichi Shichino⁴, Mari Mito⁴, Shintaro Iwasaki^{4,5}, Hiromu Tanimoto².

(¹Frontier Research Institute for Interdisciplinary Sciences, Tohoku University; ²Graduate School of Life Sciences, Tohoku University, ³Faculty of Advanced Engineering, Tokyo University of Science, ⁴RNA Systems Biochemistry Laboratory, RIKEN Cluster for Pioneering Research, ⁵Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo)

14:55-15:10 **0-38**

Conformational extension and aggregation suppression of TDP-43 by a heat resistant obscure (Hero) protein and a chaperone

 $\bigcirc {\sf Andy}$ Y.W. Lam^{1,2}, Kotaro Tsuboyama^{1,3}, Hisashi Tadakuma^{1,4} and Yukihide Tomari^{1,2}

(¹Institute for Quantitative Biosciences, The University of Tokyo, ²Graduate School of Frontier Sciences, The University of Tokyo, ³Institute of Industrial Science, the University of Tokyo, ⁴School of Life Science and Technology, Shanghai Tech University)

15:10-15:25 **0-39**

ILF3 prion-like domain regulates gene expression and fear memory under chronic stress

OAkira Yamashita^{1,2}, Yuichi Shichino¹, Kazuki Fujii^{3,4,5}, Yumie Koshidaka⁴, Mayumi Adachi⁴, Eri Sasagawa⁶, Mari Mito¹, Shinichi Nakagawa⁷, Keizo Takao^{3,4,5,6}, Shintaro Iwasaki^{1,8}, and Nobuyuki Shiina^{2,9,10}

(¹RNA Syst. Biochem. Lab., RIKEN CPR., ²Lab. of Neuronal Cell Biol., Natl. Inst. for Basic Biol., ³Dept. Behav. Physiol., Fac. of Med., Univ. of Toyama, ⁴Life Sci. Res. Ctr., Univ. of Toyama, ⁵Research Center for Idling Brain Science, Univ. of Toyama, ⁶Department of Behavioral Physiology, Grad. Sch. of Innovative Life Sci., Univ. of Toyama, ⁷RNA Biol. Lab., Fac. of Pharm. Sci., Hokkaido Univ., ⁸Dept. of Comp. Biol. and Med. Sci., Grad. Sch. of Front. Sci., Univ. of Tokyo, ⁹Expl. Res. Ctr. on Life and Living Syst. (ExCELLS), Natl. Inst. of Nat. Sci., ¹⁰Dept. of Basic Biol., SOKENDAI)

- 15:30-15:50 Awards Ceremony
- 15:50-15:55 Closing Remark

Head organizer Kumiko Ui-Tei (The University of Tokyo)