The 16th TokyoRNAClub

Organizer

Shinichi Nakagawa (RNA Biology Laboratory, RIKEN)
Yukihide Tomari (IMCB, The University of Tokyo)
Co-sponsored by
Grant-in-aid for Scientific Research on Innovative Areas

November 28 8:55 – 18:35 Takeda Hall, The University of Tokyo, Japan

8:30 – Registration

8:55 – 9:00 Opening Remarks by Yukihide Tomari

Session 1 Chair: Yukihide Tomari

9:00 - 9:25

RNA-guided DNA targeting by CRISPR-Cas9: From Basic Science to Transformative Biotechnology

Jennifer Doudna (University of California, Berkeley, USA)

9:25 - 9:50

How we made an acquaintance with piRNA and possible new functions of Piwi Vladimir A. Gvozdev (Russian Academy of Sciences, Russia)

9:50 - 10:10

Piwi-piRISC regulates binding of linker histone H1 at transposon loci Kuniaki Saito (Keio University, Japan)

10:10 – 10:30 *Coffee Break*

Session 2 Chair: Ramesh Pillai

10:30 - 10:55

Human elF3: a bridge between translation and transcription Jamie Cate (University of California, Berkeley, USA) 10:55 - 11:15

Assembly and Function of RISC

Yukihide Tomari (The University of Tokyo, Japan)

11:15 - 11:40

Orexin/Hypocretin activates mTORC1 via an Erk/Akt-independent and calcium-stimulated lysosome v-ATPase pathway

Qinghua Liu (The University of Texas, Southwestern Medical Center, USA)

11:40 – 13:00

Lunch

Session 3 Chair: Mikiko Siomi

13:00 - 13:20

De novo generation of heterochromatic siRNAs in fission yeast

Kojiro Ishii (Osaka University, Japan)

13:20 - 13:45

Transposon silencing in *Drosophila* ovaries

Zhao Zhang (Carnegie Institution for Science, USA)

13:45 - 14:10

Genome defense by germline small RNAs

Ramesh Pillai (EMBL Grenoble, France)

14:10 – 14:30

Coffee Break

Session 4 Chair: Shinichi Nakagawa

14:30 - 14:55

Regulated RNA 3' Formation: Message Ends

Gordon Simpson (University of Dundee, UK)

14:55 - 15:15

piRNAs and sex determination

Susumu Katsuma (The University of Tokyo, Japan)

15:15 - 15:35

An IncRNA regulates an environmental sex determination gene doublesex1 in *Daphnia*

Yasuhiko Kato (Osaka University, Japan)

15:35 – 15:55 *Coffee Break*

Session 5 Chair: Igor Ulitsky

15:55 - 16:20

Biosynthesis and function of circRNAs

Osnat Bartok (The Hebrew University of Jerusalem, Israel)

16:20 - 16:45

Circular RNA biogenesis

Li Yang (Shanghai Institutes for Biological Sciences, China)

16:45 - 17:05

Long noncoding RNA in the brain: Lobe-less RNA is essential for mushroom body morphogenesis in *Drosophila*

Yuji Kageyama (Kobe University, Japan)

17:05 – 17:25 *Coffee Break*

Session 6 Chair: Yuji Kageyama

17:25 - 17:50

Principles of evolution of long noncoding RNAs in vertebrates

Igor Ulitsky (Weizmann Institute of Science, Israel)

17:50 - 18:10

Structure and Function of Paraspeckles

Shinichi Nakagawa (RIKEN, Japan)

18:10 - 18:30

Search for RNA-dependent subnuclear structures in mammalian cells

Tetsuro Hirose (Hokkaido University, Japan)

18:30 – 18:35 Closing Remarks by Shinichi Nakagawa

18:35 – 20:35 Social Gathering