## Abstracts of papers presented at the 2024 Cold Spring Harbor Asia Conference

## **RNA BIOLOGY**

September 2-September 6, 2024

Arranged by

Javier Caceres, The University of Edinburgh Ling-Ling Chen, Shanghai Institute of Biochemistry & Cell Biology, CAS Adrian Krainer, Cold Spring Harbor Laboratory Yukihide Tomari, The University of Tokyo





### RNA BIOLOGY Monday, September 2 – Friday, September 6, 2024

Monday	7:00 pm	1 Small Non-coding RNAs Keynote Speaker
Tuesday	9:00 am	2 Long Non-coding and Circular RNAs
Tuesday	2:00 pm	Poster Session
Tuesday	3:00 pm	Chinese Tea and Beer Tasting
Tuesday	7:00 pm	3 RNA Processing
Wednesday	9:00 am	4 RNA Surveillance and Translation
Wednesday	2:00 pm	Visit to Old Suzhou*
Wednesday	7:00 pm	5 RNA in Condensates
Thursday	9:00 am	6 RNA and RNP Structures
Thursday	2:00 pm	7 New Technologies in RNA Biology
Thursday	6:00 pm	Cocktails and Banquet
Friday	9:00 am	8 RNA in Disease and Therapeutics Keynote Speaker

Oral presentation sessions are located in the CSHA Auditorium Poster session and Chinese Tea & Beer Tasting are in the Lake Front Hall. Cocktail social hour is held outside in the Suz Garden.

Old Suzhou visits depart from the CSHA lobby \*optional tour requires additional fee.

Meal locations and times are as follows: Lunch: Main Cafeteria 12:00am - 1:30pm Dinner: Main Cafeteria 6:00pm - 7:30pm Banquet: Suz Garden 7:00pm

More information will be available at CSHA office. (Map at the end of this abstract book)

### **PROGRAM**

SESSION 1	SMALL NON-CODING RNAs	
Chairperson:	Yukihide Tomari, The University of Tokyo, Tokyo, Jap	an
	KEYNOTE SPEAKER	
disease Tsutomu Suzuk	<del>-</del>	1
	ation: University of Tokyo, Tokyo, Japan.	7
Drosophila me Marion Varoqui Charlotte Grima	spatial partitioning of retrotransposon niches in elanogaster i, Mourdas Mohamed, Bruno Mugat, Maelys Lemoine, aud, Séverine Chambeyron [20'+10'] ation: Institute of Human Genetics, Montpellier, France.	2
Mikiko C. Siom	<b>piRNA-mediated transposon silencing</b> <u>i</u> [20'+10'] ation: University of Tokyo, Graduate School of Science,	3
Break		
competition be Jie Yu, Natsuko	shaping of the piRNA sequence repertoire by etween adjacent ping-pong sites by Izumi, Yukihide Tomari, Keisuke Shoji [20'+10'] ation: The University of Tokyo, Tokyo, Japan.	4
An endogenou	us cluster of target-directed miRNA degradation	

sites induces decay of distinct miRNA families

Nicholas M. Hiers, Lu Li, Peike Sheng, Tianqi Li, Conner M. Traugot,
Yuzhi Wang, Michael Yao, Mingyi Xie [10'+5']

Presenter affiliation: University of Florida, Gainesville, Florida.

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PABPC1 contributes to neuronal function Shi-Meng Cao, Hao Wu, Guo-Hua Yuan, Li Yang, Ling-Ling Chen [10'+5'] Presenter affiliation: Key Laboratory of RNA Innovation, Science and Engineering, CAS Center for Excellence in Molecular Cell Science, Shanghai, China.	12
Squaring the circle?—Mechanistic studies of translation initiation on natural, coding circular RNAs in eukaryotes Philipp K. Zuber, Xueyan Li, Yifei Du, Yuliya Gordiyenko, Venki Ramakrishnan [10'+5'] Presenter affiliation: MRC-Laboratory of Molecular Biology, Cambridge, United Kingdom.	13
TUESDAY, September 3—2:00 PM	
POSTER SESSION	
TDRD12 is involved in IMC assembly and piRNA pathway in a TDRD1-dependent manner during mouse spermatogenesis Canmei Chen, Deqiang Ding Presenter affiliation: Tongji University, Shanghai, China.	14
Divergent functional evolution of sRNA processed from the 3' UTR of conserved hexose phosphate transporter coding gene uhpT	
Xiaomin Chen, Chuan Wang Presenter affiliation: Fudan University, Shanghai, China.	15
Structure and function of m6A methyltransferase <u>Ting Deng</u> , Shanshan Li, Shichen Su, Minsong Gao, Jianzhao Liu, Jinbiao Ma, Kaiming Zhang	
Presenter affiliation: Fudan University, Shanghai, China.	16
Preparation of high purity Cap0, 1, or 2 mRNA by co-transcription with novel photocaged Cap analog <u>Fumitaka Hashiya</u> , Masahito Inagaki, Naoko Abe, Zhenmin Li, Yuko Nakashima, Susit Acharyya, Zhenyu Meng, Mizuki Tada, Tatsuma Ishida, Pingxue Lyu, Yasuaki Kimura, Satoshi Uchida, Hiroshi Abe Presenter affiliation: Nagoya University, Aichi, Japan.	17

Repulsive property of Shutdown allows its release from cytosolic droplets, Yb bodies, to promote piRISC generation Shigeki Hirakata, Mikiko C. Siomi	
Presenter affiliation: The University of Tokyo, Tokyo, Japan.	18
PANDORA-seq reveals human sperm sncRNA signature endowed with sperm quality control Ruofan Huang, Yiting Yang, Xiao-Ou Zhang, Yunfang Zhang	
Presenter affiliation: School of Life Sciences and Technology, Tongji University, Shanghai, China.	19
Beyond measurement artifacts—Validating increased protein heterogeneity in fragmented mitochondria <u>Abdul Haseeb Khan</u> , Tatsuhisa Tsuboi  Presenter affiliation: Tsinghua-Shenzhen International Graduate	
School, Shenzhen, China.	20
Identification of miRNA-driven signaling axis master regulating cellular senescence via the PPP/de novo nucleic acid synthesis Soy Kim, Geunho Yook, Seojung Kim, Jianhong Ching, Jin-Hong Kim Presenter affiliation: Seoul National University, Seoul, South Korea.	21
Extensive deregulation of genes in mouse embryonic germ cells Peilin Li, Haruka Narita, Yuta Uneme, Mikiko C. Siomi, Soichiro Yamanaka Presenter affiliation: University of Tokyo, Graduate School of Science,	
Tokyo, Japan.	22
Characterization of tRNA epitranscriptome and expression profiles in mouse organs during aging Yun Li, Xin Wang, Yibo Li, Ze Shu, Wenlin Jiang, Zhili Deng, Yunfang Zhang	
Presenter affiliation: Tongji University, Shanghai, China.	23
Critical roles of the miR-17~92 family in thymocyte development, leukemogenesis, and autoimmunity  Kunyu Liao, Pengda Chen, Mengdi Zhang	
Presenter affiliation: Xiamen University, Xiamen, China.	24
RNASTOP—Prediction and optimization of mRNA stability via deep learning and heuristic search Shenggeng Lin, Dong-Qing Wei, Qinghua Jiang, Yi Xiong	
Presenter affiliation: Shanghai Jiao Tong University, Shanghai, China; Shanghai Artificial Intelligence Laboratory, Shanghai, China.	25

Deciphering RNA-RBP interactions and RNA structures by A-to-I RNA editing	
Shan Nan, Xiao Wang, Zhi-Can Fu, Chu-Xiao Liu, Li Yang, Ling-Ling Chen	
Presenter affiliation: Key Laboratory of RNA Innovation, Science and Engineering, CAS Center for Excellence in Molecular Cell Science,	26
TDRD9 is essential for transposon silencing and normal spermatogenesis in mice <u>Guanyi Shang</u> , Deqiang Ding  Presenter affiliation: Tongji University, Shanghai, China.	27
RBM4-mediated intron excision of <i>Hsf1</i> induces BDNF for cerebellar foliation Chiu-Lun Shen, Yu-Young Tsai, Shen-Ju Chou, Yao-Ming Chang, Woan-Yuh Tarn	
Presenter affiliation: Academia Sinica, Taipei, Taiwan, China.	28
Ultra-low input metabolic RNA-seq reveals dynamic transcriptional reprogramming during mouse MZT You Wu, Hanxi Shi, Rushuang Yan, Xiaoou Zhang, Yawei Gao Presenter affiliation: Tongji University, Shanghai, China.	29
Distribution of sncRNA in cells and its regulatory mechanism Ze Shu, Xin Wang, Zheng Cao, Yunfang Zhang Presenter affiliation: Tongji University, Shanghai, China.	30
Transforming chondrosarcoma from a cold tumor to a hot tumor using a chondrosarcoma-specific activating synthetic gene	
<u>Jooyeon Suh,</u> Hyeonkyeong Kim, Yi-Jun Kim, Jin-Hong Kim Presenter affiliation: Seoul National University, Seoul, South Korea.	31
The ubiquitin-specific protease USP36 SUMOylates EXOSC10 and Las1L and promotes their function in rRNA processing Xiao-Xin Sun, Yanping Li, Mushui Dai Presenter affiliation: Oregon Health & Sciences University, Portland, Oregon.	32
Identification of functionally-relevant m <sup>6</sup> A modifications in regulating 7SK-mediated RNA Pol II pause release Conner M. Traugot, Yuzhi Wang, Nicholas M. Hiers, Tianqi Li, Peike Sheng, Mingyi Xie	
Presenter affiliation: University of Florida, Gainesville, Florida.	33

Investigating the neural pathogenesis of congenital myotonic dystrophy type 1	
Lee-Hsin Wang, Wan-Hsuan Lee, Yao-Ming Chang, Shen-Ju Chou,	
Guey-Shin Wang Presenter affiliation: Institute of Biomedical Sciences, Taipei, Taiwan, China.	34
The mechanism of sperm tsRNAs mediates intergenerational	
inheritance during early embryos development Xin Wang, Zheng Cao, Rushuang Yan, Yawei Gao, Yunfang Zhang Presenter affiliation: Tongji University, Shanghai, China.	35
The landscape of N <sup>6</sup> -methyladenosine in localized primary	
prostate cancer  Xin Xu, Helen Zhu, Rupert Hugh-White, Julie Livingstone, Stefan Eng,	
Paul C. Boutros, Hansen He Presenter affiliation: University Health Network, Toronto, Canada.	36
Therapeutic application of circular RNA aptamers in a mouse	
model of psoriasis <u>Yi-Feng Xu</u> , Si-Kun Guo, Chu-Xiao Liu, Xiao Wang, Fang Nan, Jiaquan Liu, Li Yang, Ling-Ling Chen  Presenter affiliation: Key Laboratory of RNA Innovation, Science and	
Engineering, CAS Center for Excellence in Molecular Cell Science, Shanghai, China.	37
The imbalanced interaction of OMM-localized protein and IncRNA exacerbates osteoarthritis pathogenesis through dysregulating mitochondrial homeostasis	
Sangmin Yong, Myeong-Gyun Kang, Hyun-Woo Rhee, Jin-Hong Kim Presenter affiliation: Seoul National University, Seoul, South Korea; Institute for Basic Science, Seoul, South Korea.	38
Identification for noncanonical function of interferon regulatory factor 1 in cartilage DNA repair and osteoarthritis using integrated ATAC-transcriptome analysis Geunho Yook, Yongsik Cho, Hyeonkyeong Kim, Jin-Hong Kim	
Presenter affiliation: Seoul National University, Seoul, South Korea.	39
Assessment of the therapeutic efficacy of a potent MYB premRNA targeting small molecule, RTX-049, in cancer models  Jiacheng Zhang, Jawad Abid, Tessa Vlacos, Bingying Li, Shilin Chen, Miao Zhao, Xing Tang, Mary McMahon, Sridhar Narayan, Steve Lianoglou, Paul August	
Presenter affiliation: ReviR Therapeutics, Shenzhen, China.	40

Ribosomes modulate transcriptome abundance via generalized frameshift and out-of-frame mRNA decay	
Yujie Zhang, Lilit Nersisyan, Eliska Fürst, Ioannis Alexopoulos, Susanne Huch, Claudio Bassot, Elena Garre, Per Sunnerhagen, Ilaria Piazza, Vicent Pelechano	
Presenter affiliation: Karolinska Institutet, Stockholm, Sweden.	41
ADAT1 controls translation efficiency to promote AML leukaemogenesis	
Yunfang Zhang, Lin Xia, Pan Zhao, Dan Chen, Wei Xu, Xi Zhang Presenter affiliation: Tongji University, Shanghai, China.	42
NaRaDa—A comprehensive nascent RNA database Duo Li, Zhibiao Mai, Peng Tang, Chuanman Zhou, Zhenhua Zhang, Xichen Bao	
Presenter affiliation: Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, China.	43
Kinetics modeling of the translational regulation on the mitochondrial surface Jingyi Zhao, Yuping Chen	
Presenter affiliation: Tsinghua Shenzhen International Graduate School, Shenzhen, China.	44
Centromere transcription and centromere RNAs—Their roles, regulation and function during centromere establishment and maintenance Jing Zhu, Karen Wing Yee Yuen	
Presenter affiliation: University of Hong Kong, Hong Kong, China.	45
TUESDAY, September 3—3:00 PM	

**Chinese Tea and Beer Tasting** 

SESSION 3	RNA PROCESSING	
Chairperson:	<b>Javier F. Caceres</b> , The University of Edinburgh, Edinburgh, United Kingdom	
Javier F. Cacer Presenter affilia	ontrol of gene expression es [20'+10'] tion: MRC Human Genetics Unit, University of burgh, United Kingdom.	46
stability Xiang-Dong Fu	modulating transcription, splicing, and genome [20'+10'] tion: Westlake University, Hangzhou, China.	47
human promot Jiao Yang, Jing Linghu, Guiping Wang, Ao Dong [10'+5']	directionality is licensed by Integrator at active ters yang Li, Langxi Miao, Xu Gao, Wenhao Sun, Shuo Ren, Bangya Peng, Shunkai Chen, Zhongqi Liu, Bo y, Duo Huang, Jinrong Yuan, Yunkun Dang, Fan Lai tion: State Key Laboratory for Conservation and	
Utilization of Bio	o-Resources in Yunnan; School of Life Sciences, a; Southwest United Graduate School, Kunming, China.	48
Xin Man, Wentin Presenter affilia Engineering, Sh Molecular Cell S	thout spliceosomal introns ng Zhang, Qianxi Li, Jinqiu Zhou [10'+5'] tion: Key Laboratory of RNA Innovation Science and nanghai, China; CAS Center for Excellence in Science, Shanghai Institute of Biochemistry and Cell hai, China; University of Chinese Academy of ghai, China.	49
Break		
NSUN6 to prom Yuan-Yuan Zha Liu [20'+10']	go site-specific m <sup>5</sup> C modifications mediated by note mRNA stability ang, Cai-Tao Li, You-Jia Zhou, Dan-Dan Zhou, Ru-Juan tion: ShanghaiTech University, Shanghai, China.	50

Yongsheng Shi	processing and degradation [20'+10'] ation: University of California, Irvine, Irvine, California.	51
transcription in	pendent function of mRNA in regulating target gene n plants g Yuan, Yujie Liu, Yan Li, <u>Yijun Qi</u> [10'+5'] ntion: Tsinghua University, Beijing, China.	52
	WEDNESDAY, September 4—9:00 AM	
SESSION 4	RNA SURVEILLANCE AND TRANSLATION	
Chairperson:	<b>Thomas Preiss,</b> The Australian National University, Canberra, Australia	
analyses of rib Haiwang Yang, [20'+10']	table noncanonical peptides identified by integrated posome profiling and ORF features Qianru Li, Emily Stroup, Sheng Wang, Zhe Ji ation: Northwestern University, Chicago, Illinois.	53
methylcytosine Marco Guarnac Hanrong Lin, Ni Presenter affilia	ersity of NSUN enzymes and links of 5- e to mRNA translation and turnover cci, Pei-Hong Zhang, Madhu Kanchi, Yu-Ting Hung, ikolay E. Shirokikh, Li Yang, <u>Thomas Preiss</u> [20'+10'] ation: Australian National University, Canberra, r Chang Cardiac Research Institute, Sydney, Australia.	54
nature of co-trans Abdul H. Khan, M. Zid, <u>Tatsuhis</u>	protein heterogeneity stems from the stochastic anslational protein targeting in cell senescence Xuefang Gu, Matheus P. Viana, Aidan I. Brown, Brian sa Tsuboi [10'+5'] ttion: Tsinghua University, Shenzhen, China.	55
Break		
regulation Kathy F. Liu [2	me-encoded homologous helicases in translation 20'+10'] tition: University of Pennsylvania, Philadelphia,	56

	0'+10'] ition: Korea Advanced Institute of Science and nejeon, South Korea.	57
coupling mRN Pengda Chen, I Zhizhang Wang Xiao [10'+5']	o complex regulates plasma cell differentiation by A translation and decay Lianghua Lin, Kunyu Liao, Xinyong Lin, Jiali Qiang, g, Yaoyang Zhang, Dan Du, Xing Chang, Changchun ution: Xiamen University, Xiamen, China.	58
	WEDNESDAY, September 4—2:00 PM	
	Visit to Old Suzhou	
	WEDNESDAY, September 4—7:00 PM	
SESSION 5	RNA IN CONDENSATES	
Chairperson:	Tetsuro Hirose, Osaka University, Suita, Japan	
phase-separat Tetsuro Hirose,	ectural noncoding RNAs in building and regulating ed nuclear bodies  Kensuke Ninomiya, Tomohiro Yamazaki [20'+10'] tition: Osaka University, Suita, Japan.	59
Cell size modulates P-body formation by limiting molecular movement  Xuefang Gu, Tatsuhisa Tsuboi [10'+5']  Presenter affiliation: Institute of Biopharmaceutical and Health Engineering, Shenzhen, China.		60
autophagy Rudian Zhang, Chellappa, Fei	wilds of meiosis—RNA stress granules and Wenzhi Feng, Shuhong Qian, Shunjin Li, Akshay J. Wang [10'+5'] tion: UT Southwestern Medical Center, Dallas, Texas.	61

Exploiting the immunoregulatory effect of double-stranded RNAs for therapeutic applications

Short linear motif-mediated interactions play a crucial role in regulating stress granule assembly Jinjun Wu, Balint Meszaros, Moin Talukder, Hong Joo Kim, M. Madan Babu, J. Paul Taylor [10'+5'] Presenter affiliation: St. Jude Children's Research Hospital, Memphis, Tennessee.	62
TDRD1 phase separation drives intermitochondrial cement assembly to promote piRNA biogenesis and fertility Jie Gao, Jiongjie Jing, Guanyi Shang, <u>Deqiang Ding</u> [10'+5'] Presenter affiliation: Tongji University, Shanghai, China.	63
From stress adaptation to off-target immune responses—The physiological consequences of modified mRNAs <u>Anne E. Willis</u> [20'+10']  Presenter affiliation: University of Cambridge, Cambridge, United Kingdom.	64
THURSDAY, September 5—9:00 AM	
SESSION 6 RNA AND RNP STRUCTURES	
<b>Chairperson:</b> Xinshu Grace Xiao, University of California-Los Angeles Los Angeles, California	s,
Crosstalk between dsRNA editing and RNA-binding proteins in cancer immunity  Xinshu Grace Xiao [20'+10']  Presenter affiliation: University of California, Los Angeles, Los Angeles, California.	65
The role of self-derived double-stranded RNA species in tumor immune evasion  Leilei Polly Chen [20'+10']  Presenter affiliation: Cancer Science Institute of Singapore, National University of Singapore, Singapore.	66
Observation of higher-order assemblies controlled by protein one-dimensional movement Xiao-Peng Han, Ming Rao, Shu-Rui Wu, Qiurong Zhang, Fajian Hou, Shao-Qing Zhang, Ling-Ling Chen, <u>Jiaquan Liu</u> [10'+5'] Presenter affiliation: CAS Center for Excellence in Molecular Cell Science, Shanghai, China.	67

RIOK3 mediates the degradation of 40S ribosomes Zixuan Huang, Frances F. Diehl, Rachel Green, <u>Jingdong Cheng</u> [10'+5'] Presenter affiliation: Fudan University, Shanghai, China.	68
Break	
Unveiling the structural dynamics of group I introns by Cryo-EM Shanshan Li, Xiaojing Zhang, <u>Kaiming Zhang</u> [20'+10'] Presenter affiliation: University of Science and Technology of China, Hefei, China.	69
Structures of a natural circularly permuted group II intron reveal back-splicing mechanism to produce circular RNAs Xiaobin Ling, Yuqi Yao, Jinbiao Ma [10'+5'] Presenter affiliation: Fudan University, Shanghai, China.	70
Structural insights into the cross-exon to cross-intron spliceosome switch Zhenwei Zhang, Vinay Kumar, Olexandr Dybkov, Cindy Will, Jiayun Zhong, Sebastian Ludwig, Henning Urlaub, Berthold Kastner, Holger Stark, Reinhard Lührmann [10'+5'] Presenter affiliation: Max-Planck-Institute for Multidisciplinary Sciences, Göttingen, Germany; Sichuan University, Chengdu, China.	71
OLA1 promotes the splitting of ribosome on D/E-rich region Ting Yu, Xin Li, Wanlin Dong, Fuxing Zeng [10'+5'] Presenter affiliation: Southern University of Science and Technology, Shenzhen, China.	72

SESSION 7	NEW TECHNOLOGIES IN RNA BIOLOGY	
Chairperson:	<b>Juan Valcárcel,</b> ICREA and Center for Genomic Regulation (CRG), Barcelona, Spain	
regulatory fun Malgorzata E. I Gohr, Bryan M. <u>Valcárcel</u> [20' Presenter affilia Barcelona, Spa	e-wide splicing network reveals specialized ctions of the core spliceosome Rogalska, Estefania Mancini, Sophie Bonnal, Andre Dunyak, Peter G. Smith, Frédéric H. Vaillancourt, Juan +10'] ation: Center for Genomic Regulation (CRG), ain; Universitat Pompeu Fabra, Barcelona, Spain; ana de Recerca i Estudis Avançats, Barcelona, Spain.	73
for genetic info Danlin Xie, Xian Zhang, Tianxin Zhang, Yihan V	nascent RNA kinetics imaging unveils principles ormation flow in real-time ngyu Wu, Lingling Li, Rui Sun, Hongjian Qi, Yangye Zhang, Longxi Li, Jiahang Xiong, Xibo Ma, Yanxiao Van [10'+5'] ation: Westlake University, Hangzhou, China.	74
molecules with Daniel Deng, S	diction of RNA splicing modulation by small h deep learning teve Lianoglou, <u>Yang Liu</u> [10'+5'] ation: ReviR Therapeutics, Shenzhen, China.	75
neuroprotection Min Zhang, Bin Weiming Li, Ya Emmerichs, Ste Mario Schubert Presenter affilia	nammalian RNA thermometer confers on Zhang, Chengli Liu, Marco Preußner, Megha Ayachit, fei Huang, Deyi Liu, Quanwei He, Ann-Kathrin efan Meinke, Shu Chen, Lin Wang, Tom Haltenhof, t, Xin Gao, Mingchang Li, Florian Heyd [10'+5'] ation: Freie Universität Berlin, Berlin, Germany; tersity Medical School, Shenzhen, China.	76
tRNA with path disease by nath Qiuyu Wang, R	le detection of hypomodification in mitochondrial hogenic mutation associated with mitochondrial nopore sequencing yo Noguchi, Ena Tomoda, Tsutomu Suzuki [10'+5'] ation: the University of Tokyo, Tokyo, Japan.	77

# Development of hydrophobic tag purifying monophosphorylated RNA for chemical synthesis of capped mRNA and enzymatic synthesis of circular mRNA

Mami Ototake, Masahito inagaki, Seigo Kimura, Kaoru Kimura, Daisuke Kawaguchi, Hirotaka Murase, Mizuki Tada, Kosuke Fukuchi, Yinuo Gao, Kengo Kokubo, Susit Acharyya, Zheyu Meng, Tatsuma Ishida, Naoko Abe, Fumitaka Hashiya, Yashuaki Kimura, Hiroshi Abe [10'+5']

Presenter affiliation: Graduate School of Science, Nagoya University, Nagoya, Japan.

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## Circular RNA-based protein replacement therapy mitigates osteoarthritis

Jinlong Suo, <u>Ling Li</u>, Wuyuan Tan, Youkui Huang, Guanghua Lei, Lingling Chen, Weiguo Zou [10'+5']

Presenter affiliation: Key Laboratory of RNA Innovation, Science and Engineering, CAS Center for Excellence in Molecular Cell Science, Shanghai, China; School of Life Science and Technology, Shanghai, China.

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THURSDAY, September 5-6:00 PM

#### **COCKTAILS and BANQUET**

FRIDAY, September 6-9:00 AM

SESSION 8 RNA IN DISEASE AND THERAPEUTICS

Chairperson: Ling-Ling Chen, Shanghai Institute of Biochemistry and

Cell Biology, CAS, Shanghai, China

### **KEYNOTE SPEAKER**

### Antisense therapy for H3.3K27M-related diffuse midline glioma

Adrian R. Krainer [35'+10']

Presenter affiliation: Cold Spring Harbor Laboratory, Cold Spring Harbor, New York.

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Therapeutic potential of mRNA-based interventions for cardiac rare genetic disease Yuxiang Dai, Jinzhong Lin [20'+10'] Presenter affiliation: Zhongshan Hospital, Shanghai, China; Fudan University, Shanghai, China.	81
PNPT1 promotes viral proliferation by accelerating host RNA turnover in mitochondria and P bodies Yuhang Dong, Mengyang Li, Fang Wang [10'+5'] Presenter affiliation: The Fourth Military Medical University, Xi'an, China.	82
Break	
Mitochondrial dsRNAs modulate monocytic functionality in Sjögren's disease Jimin Yoon, Daesong Jang, Myung-Chul Kim, Joon Paek, Rehae Miller, Beatriz Vernonese, Rudy Alvarado, Yoosik Kim, Seunghee Cha [10'+5'] Presenter affiliation: Korea Advanced Institute of Science and Technology, Daejeon, South Korea.	83
Dysregulated spliceosomal components promote pancreatic cancer progression Ledong Wan, Kuan-Ting Lin, Yuma Ishigami, Alexander J. Kral, Dillon M. Voss, John E. Wilkinson, Youngkyu Park, David A. Tuveson, Adrian R. Krainer [10'+5'] Presenter affiliation: Stony Brook University, Stony Brook, New York.	84
De novo assembly of nuclear stress bodies restrain acute inflammatory responses Ling-Ling Chen [20'+10'] Presenter affiliation: Chinese Academy of Sciences, Shanghai, China; New Cornerstone Science Laboratory, Guangdong, China.	85