

Poster Program

Poster Sessions

Monday, November 7 and Tuesday, November 8

13:00–15:00

All odd number posters (P01, P03....) will present in poster session 1

All even number posters (P02, P04....) will present in poster session 2

[P01]	Ubiquitination-deficient mutations in human <i>piwi</i> cause male infertility by impairing histone-to-protamine exchange during spermiogenesis L.T. Gou, J.Y. Kang, P. Dai, X. Wang, M.F. Liu*, <i>Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China</i>
[P02]	MicroRNAs in the same clusters evolve to coordinately regulate functionally related genes Y. Wang*, J. Luo, H. Zhang, J. Lu, <i>Peking University, China</i>
[P03]	Dicer-dependent target-driven biogenesis of cognate microRNAs in human cells M. Bose*, S.N. Bhattacharyya, <i>CSIR-Indian Institute of Chemical Biology, India</i>
[P04]	Group I intron-based RNA reprogramming as an effective approach to cancer theranostics J.H. Kim ¹ , Y.H. Kim ² , J.S. Jeong ³ , I.H. Kim ² , S.W. Lee ^{*1} , ¹ <i>Dankook University, Republic of Korea;</i> ² <i>National Cancer Center, Republic of Korea;</i> ³ <i>Dong-A University College of Medicine, Republic of Korea</i>
[P05]	Transcriptional roles of cytoplasmic lncRNA LINC00844 in prostate cancer S. Lingadahalli*, X. Chen, L. Hu, E. Cheung, <i>University of Macau, Macao</i>
[P06]	NFK regulates myogenic differentiation through the control of <i>Ccnd1</i> expression Y. Yamashita*, A. Masuda, K. Ohno, <i>Nagoya University, Japan</i>
[P07]	Mir-17~92 governs the cell vulnerability in motor neuron diseases K.-C. Peng ^{1,2} , Y.-T. Tung ^{*1} , J.-A. Chen ¹ , ¹ <i>Academia Sinica, Taiwan;</i> ² <i>National Yang-Ming University, Taiwan</i>
[P08]	Evolution of an lncRNA leads to a primate-specific modulation of alternative splicing G. Shan, <i>University of Science and Technology of China, China</i>
[P09]	miR-205 host gene regulates differentiation of prostate basal cells by acting as a nuclear long noncoding RNA B. Forte ¹ , V. Profumo ¹ , D. Dolfini ² , D. Romagnoli ³ , M. Benelli ³ , M. Dugo ¹ , V. Doldi ¹ , F. Demichelis ^{3,4} , N. Zaffaroni ¹ , P. Gandellini ^{*1} , ¹ <i>Fondazione IRCCS Istituto Nazionale dei Tumori, Italy;</i> ² <i>University of Milan, Italy;</i> ³ <i>University of Trento, Italy;</i> ⁴ <i>Institute for Computational Biomedicine, Weill Medical College of Cornell University, New York, USA</i>
[P10]	Antitumor functional miRNAs are selectively enriched in extracellular vesicles released by human liver stem cells C. Gai*, A. Iavello, V. Fonsato, V.L. Frech, M.C. Deregibus, G. Camussi, <i>University of Turin, Italy</i>
[P11]	A to I RNA editing of microRNA-381 dysregulates proliferation of fibroblast-like synoviocytes Y. Tanaka-Watanabe ^{*1,2} , S. Takada ³ , H. Asahara ¹ , ¹ <i>Tokyo Medical and Dental University, Japan;</i> ² <i>Research Fellow of Japan Society for the Promotion of Science, Japan;</i> ³ <i>National Research Institute for Child Health and Development, Japan</i>
[P12]	Labeling of small non-coding RNAs by 2'O-methyltransferases for visualization and purification A. Osipenko, M. Mickute, A. Plotnikova, V. Masevicius, S. Klimasauskas, G. Vilkaitis*, <i>VU Institute of Biotechnology, Lithuania</i>
[P13]	MicroRNA functions in Arabidopsis embryos A. Plotnikova*, D. Vashisht, M. Mosiolek, M.D. Nodine, <i>Austrian Academy of Sciences, Austria</i>
[P14]	MicroRNA miR184 is reduced in human pancreatic islets and targets CRTCL1, a molecule that counteracts palmitate-induced apoptosis and functional damage in type 2 diabetes G. Sebastiani ^{*1,2} , G.E. Grieco ^{1,2} , F. Mancarella ^{1,2} , L. Nigi ^{1,2} , G. Ventriglia ^{1,2} , N. Brusco ^{1,2} , L. Marselli ³ , P. Marchetti ³ , F. Dotta ^{1,2} , ¹ <i>University of Siena, Italy;</i> ² <i>Umberto di Mario Research Foundation, Toscana Life Sciences, Siena, Italy;</i> ³ <i>University of Pisa, Italy</i>
[P15]	Mutual regulation between RNA silencing and anti-virus defense system T. Takahashi ^{*1} , Y. Nakano ¹ , K. Onomoto ² , C. Komori ¹ , M. Yoneyama ² , K. Ui-Tei ¹ , ¹ <i>The University of Tokyo, Japan;</i> ² <i>Chiba University, Japan</i>
[P16]	Functional study of super-enhancer-associated eRNAs in myogenic differentiation Y. Zhao*, X.L. Peng, J.J. Zhou, H. Sun, H.T. Wang, <i>The Chinese University of Hong Kong, Hong Kong</i>
[P17]	An integrated gene regulatory network approach for functional long noncoding RNA identification J. Zhou*, S. Zhang, H. Wang, H. Sun, <i>The Chinese University of Hong Kong, Prince of Wales Hospital, China</i>
[P18]	Functional study of long noncoding RNA SAM in skeletal muscle H.T. Wang*, H. Sun, Y.Y. Li, L.N. Lu, X.N. Chen, F.Y. Chen, J.J. Zhou, <i>The Chinese University of Hong Kong, Hong Kong</i>

[P19]	In vivo mapping of eukaryotic RNA interactomes reveals principles of higher-order organization and regulation J.G. Aw, Y. Shen, A. Wilm, M. Sun, X.N. Lim, K.-L. Boon, A. Sim, S. Tapsin, N. Nagarajan, Y. Wan*, <i>Genome Institute of Singapore, Singapore</i>
[P20]	Circulating microRNAs in group 4 medulloblastoma E. Miele ¹ , V. Alfano ¹ , Z.M. Besharat ¹ , G. Catanzaro ¹ , A. Mastronuzzi ¹ , A. Po ¹ , L. Abballe ¹ , A. Carai ¹ , F. Locatelli ¹ , E. Ferretti ^{*1} , ¹ University of Rome La Sapienza, Italy; ² Bambino Gesù Pediatric Hospital, Italy
[P21]	TRAP-T transporter TakP: a key player in resistance against selenite-induced oxidative stress in rhodobacter sphaeroides F. Adnan ^{*1} , G. Klug ¹ , ¹ National University of Sciences & Technology, Pakistan; ² University of Giessen, Germany
[P22]	The functional investigation of Dock1 circular RNA D. Liu ^{*1,2} , A.G. Bert ² , B.K. Dredge ^{1,2} , S.J. Conn ¹ , P.A. Gregory ^{1,2} , G.J. Goodall ^{1,2} , ¹ Centre for Cancer Biology, Australia; ² The University of South Australia, Australia
[P23]	Genetic interaction analysis of yeast lincRNAs reveals a trans-acting role for SUT457 in telomeric ssDNA regulation D. Kyriakou*, A. Kirmizis, <i>University of Cyprus, Cyprus</i>
[P24]	A novel long noncoding RNA lincSox2-AS maintains the cancer stem cell population in glioblastoma multiforme U. Shahzad ^{*1,2} , C. Li ² , J.J. Wang ² , A. Riemenschneider ^{1,2} , J.T. Rutka ^{1,2} , S. Das ^{1,2} , ¹ Institute of Medical Science, Faculty of Medicine, University of Toronto, Canada; ² Arthur and Sonia Labatt Brain Tumor Research Center, Hospital for Sick Children, Canada
[P25]	Elimination in cis of lncRNAs controls sexual differentiation and heterochromatin gene silencing in fission yeast L. Touat-Todeschini ¹ , Y. Schichino ² , M. Dangin ¹ , N. Thierry-Mieg ³ , R. Sachidanandam ⁴ , J. Kadlec ⁵ , R. Pillai ⁵ , A. Yamashita ² , M. Yamamoto ² , A. Verdel ^{*1} , ¹ INSERM, U823, University of Grenoble-Alpes, France; ² National Institute for Basic Biology, Okazaki, Japan; ³ CNRS, UMR 5525, University of Grenoble-Alpes, France; ⁴ Mount Sinai School of Medicine, New York, USA; ⁵ European Molecular Biology Laboratory, Grenoble, France
[P26]	Global analysis of interacting and/or regulating RNAs of a double-stranded RNA binding protein, TRBP, and its associated proteins to define the not-well-determined function Y. Nakano*, T. Takahashi, F. Murakami, K. Ui-Tei, <i>The University of Tokyo, Japan</i>
[P27]	Thermodynamic regulation of the efficiency of RNA silencing and its evolutionary perspective K. Ui-Tei ^{*1} , P.J. Kamola ² , N. Hibio ¹ , T. Takahashi ¹ , Y. Nakano ¹ , ¹ The University of Tokyo, Japan; ² Imperial College London, UK
[P28]	A novel long intergenic noncoding RNA UCC promotes colorectal cancer progression via sponging miR-143 F.T. Huang ^{*1} , W.Y. Chen ¹ , Z.Q. Gu ^{1,2} , Y.Y. Zhuang ¹ , C.Q. Li ¹ , L.Y. Wang ¹ , J.F. Peng ¹ , J. Tang ¹ , H.R. Yao ¹ , S.N. Zhang ¹ , ¹ Sun Yat-sen Memorial Hospital, Sun Yat-sen University, China; ² The Fifth Affiliated Hospital, Sun Yat-sen University, China
[P29]	Global and cell-type-specific properties of lincRNAs with ribosome occupancy H.W. Wang, Y. Wang, S.Q. Xie, Z. Xie*, <i>Sun Yat-sen University, China</i>
[P30]	MiR-582-5p/miR-590-5p targeted CREB1/CREB5-NF-κB signaling and caused opioid-induced immunosuppression in human monocytes Y. Li*, Y. Peng, <i>Sun Yat-sen Memorial Hospital, China</i>
[P31]	Panoramix—the missing link between the piRNA pathway and the general silencing machinery Y.Y. Yu ^{*1} , J.G. Gu ³ , Y.J. Jin ² , Y.L. Luo ² , J.P. Preall ² , J.M. Ma ³ , B.C. Czech ^{2,4} , G.H. Hannon ^{2,4} , ¹ Institute of Biophysics, China; ² Cold Spring Harbor Laboratory, USA; ³ Fudan University, China; ⁴ CRUK Cambridge Institute, UK
[P32]	Directing neuronal differentiation of stem cells with a small interfering RNA-complexed MRI-visible cationic polymersome to counteract inhibitory microenvironment in stroke L.J. Lu ^{*1} , Y. Wang ² , M.W. Chen ¹ , F. Zhang ¹ , B.L. Lin ¹ , M.H. Cao ¹ , X.T. Shuai ² , J. Shen ¹ , ¹ Sun Yat-sen Memorial Hospital, Sun Yat-sen University, China; ² School of Materials Science and Engineering, Sun Yat-sen University, China
[P33]	Long non-coding RNA NRON interacts with MDM2 and modulates its E3 ligase activity in breast cancer M.L. Luo*, Q.N. Guo, P. Hu, E. Song, <i>Sun Yat-sen Memorial Hospital, China</i>
[P34]	TGFβ/Smad-upregulated LncRNA-TSI inhibits Smad3 phosphorylation in renal fibrosis P. Wang ² , M.L. Luo ^{*1} , E. Song ¹ , F.F. Hou ² , ¹ Nanfang Hospital, Southern Medical University, China; ² Sun Yat-sen Memorial Hospital, Sun Yat-sen University, China
[P35]	Impact of alternative splicing on the human proteome Y. Liu ² , M. Gonzalez-Porta ³ , J. Marioni ³ , R. Aebersold ² , A. Venkitaraman ⁴ , V. Wickramasinghe ^{*1,4} , ¹ Peter MacCallum Cancer Centre, Australia; ² Institute of Molecular Systems Biology, Switzerland; ³ European Molecular Biology Laboratory–European Bioinformatics Institute, UK; ⁴ University of Cambridge, UK
[P36]	A novel AP-1/miR-101 regulatory feedback loop and its implication in the migration and invasion of hepatoma cells J.J. Liu, X.J. Lin, X.J. Yang*, L. Zhou, S. He, S.M. Zhuang, J. Yang, <i>Sun Yat-sen University, China</i>

[P37]	Functional study on non-coding RNAs within the hepatitis B virus-associated tumor microenvironment in hepatocellular carcinoma L. Zhu, C.L. Zhang, C.Z. Du, Z.X. Zhang, Y.J. Hao, J.J. Luo, R.S. Chen, P.Y. Yang*, <i>Institute of Biophysics, Chinese Academy of Sciences, China</i>
[P38]	Proteomic analysis of the PIWI interactome in <i>C. elegans</i> K.M. Suen ^{*1,2} , D. Bensaddek ³ , F. Braukmann ^{1,2} , A. Sapetschnig ^{1,2} , N. Doshi ² , A. Lamond ³ , A. Gartner ³ , E. Miska ^{1,2} , ¹ <i>The Gurdon Institute, UK</i> ; ² <i>University of Cambridge, UK</i> ; ³ <i>University of Dundee, UK</i>
[P39]	MiR-424 promotes G1/S and G2/M cell-cycle progression of esophageal squamous cell carcinomas via targeting PRKCD and WEE1 J. Wen ^{*1,2} , X.Y. Xie ^{1,2} , J.H. Fu ^{1,2} , ¹ <i>Sun Yat-sen University Cancer Center, China</i> ; ² <i>Guangdong Esophageal Cancer Institute, China</i>
[P40]	Non-coding RNAs are associated with the inflammatory marker IL-6 and are sensitive to ex vivo chromatin remodeling by valproic acid in human peripheral blood mononuclear cells R.P. Sharma*, C. Rosen, <i>University of Illinois at Chicago, USA</i>
[P41]	Peripheral cannabinoid receptor expression and clinical correlates in schizophrenia C. Rosen*, R.P. Sharma, <i>University of Illinois, USA</i>
[P42]	Long non-coding RNA modulates glycolysis by promoting the pro-OH of PKM2 in breast cancer E.W. Song, F. Zheng*, <i>Sun Yat-sen University, China</i>
[P43]	Long non-coding RNA inhibits cyclin D1 degradation and leads to tamoxifen resistance in breast cancer Q. Liu, F. Zheng*, Y.D. Li, <i>Sun Yat-sen University, China</i>
[P44]	Transcriptomic analysis of <i>C. elegans</i> transgenic animals overexpressing human alpha-synuclein (A53T): comparison to genes regulated in human Parkinson's disease brain tissues C. Wang ¹ , J. Peltonen ² , L. Heikkinen ¹ , G. Wong ^{*1} , ¹ <i>University of Macau, Macao</i> ; ² <i>University of Eastern Finland, Finland</i>
[P45]	Modification of the histone H3K4me3 epigenetic landscape in <i>Caenorhabditis elegans</i> following methylmercury exposure: a ChIP-seq and RNA-seq study M. Rudgalvyte ^{*1} , J. Peltonen ² , M. Lakso ² , G. Wong ¹ , ¹ <i>University of Macau, Macao</i> ; ² <i>University of Eastern Finland, Finland</i>
[P46]	Viral small RNAs that target plant genes and artificial miRNA that target plant viruses R. Moyle*, K. Nowak, L.-S. Pretorius, L. Carvalhais, J. Dalton-Morgan, G. Subramaniam, N. Hussein, N. Bashir, P. Schenk, <i>University of Queensland, Australia</i>
[P47]	Cancer-associated microRNAs: regulatory mechanisms and clinical significance S.M. Zhuang, <i>Sun Yat-sen University, China</i>
[P48]	Novel long intervening non-coding RNA linc-CHD1L-1 was frequently upregulated in liver cancer and contributed to hepatocarcinogenesis F.H. Tsang*, D.W. Ho, I.O.L. Ng, C.M. Wong, <i>The University of Hong Kong, Hong Kong</i>
[P49]	Deep sequencing reveals a global reprogramming of lincRNA transcriptome during EMT J.-Y. Liao*, J. Wu, J. Wang, D. Yin, <i>Sun Yat-sen Memorial Hospital, China</i>
[P50]	lincRNA DILA regulates Cyclin D1-CDK4 interaction and promotes cell-cycle progression F. Zheng ¹ , Y.D. Li ¹ , H.N. Lai ¹ , S.Y. Li ¹ , Y.J. Liu ¹ , J.J. Chu ² , E.W. Song ¹ , Q. Liu ^{*1} , ¹ <i>Sun Yat-sen Memorial Hospital, Sun Yat-sen University, China</i> ; ² <i>Zhongshan School of Medicine, Sun Yat-sen University, China</i>
[P51]	Multifunctional 5'-triphosphate siRNA to modulate tumor immunological environment for the therapy of NSCLC J. Wei*, J. Wu, G. Meng, <i>Nanjing University, China</i>
[P52]	Competing action of XIST and XACT long noncoding RNAs in the control of X chromosome activity during human early development C. Vallot ¹ , C. Patrat ^{1,2} , C. Huret ¹ , A.J. Collier ^{4,5} , M. Casanova ¹ , T.M.L. Ali ¹ , M. Tosolini ^{1,6} , N. Frydman ^{7,8} , E. Heard ² , P.J. Rugg-Gunn ^{4,5} , C. Rougeulle ^{*1} , ¹ <i>Université Paris Diderot, France</i> ; ² <i>PSL Research University, France</i> ; ³ <i>Bichat-Claude Bernard Hospital, France</i> ; ⁴ <i>The Babraham Institute, UK</i> ; ⁵ <i>University of Cambridge, UK</i> ; ⁶ <i>INRA, UK</i> ; ⁷ <i>Université Paris-Sud, UK</i> ; ⁸ <i>Hôpital Antoine Bécclère, France</i>
[P53]	lincRNA mechanism in neurogenesis and autism Q. Ma ^{*1} , C.E. Ang ¹ , O.L. Wapinski ¹ , S. Fan ² , J. Penninger ⁵ , B. Coe ³ , M. Onoguchi ¹ , A. Srivastava ^{2,4} , M. Wernig ¹ , H.Y. Chang ¹ , ¹ <i>Stanford University, USA</i> ; ² <i>Greenwood Genetic Center, USA</i> ; ³ <i>University of Washington, USA</i> ; ⁴ <i>Clemson University, USA</i> ; ⁵ <i>Institute of Molecular Biotechnology of the Austrian Academy of Science, Austria</i>
[P54]	Conservation of miRNA silencing mechanisms across 600 million years of animal evolution M. Mauri*, M. Kirchner, M. Selbach, M. Chekulaeva, <i>Max Delbrück Center for Molecular Medicine, Germany</i>