

AGENDA

GeneExpression Systems & Appasani Research Conferences Presents:

Therapeutics Discovery Symposia-2014

on

RNAi/MicroRNAs, Stem Cells & Genome Engineering / Genome Editing Meetings

MAY 5, MONDAY

8:00 AM	REGISTRATION OPEN: Coffee/Tea & Refreshments		
8:45 – 10:45 AM	JOINT INAUGURAL SESSION I: Chair: Krishnarao Appasani, PhD.		
8:45 – 9:00 AM	Welcome Address by Organizer: Krishnarao Appasani, PhD. GeneExpression Systems, Inc. USA		
9:00 – 9:35 AM	KEYNOTE SPEKER: Kai W. Wucherpennig, MD, PhD. Dana-Farber Cancer Inst., Harvard Medical School, USA Title: In vivo discovery of targets for cancer immunotherapy		
9:35 – 10:10 AM	KEYNOTE SPEKER: James J. Collins, DPhil. Howard Hughes Medical Inst., Boston University & Harvard University, USA Title: Life redesigned: The emergence of synthetic biology		
10:10 – 10:45 AM	KEYNOTE SPEKER: Chad Cowan, PhD. Massachusetts General Hospital- Harvard Medical School, USA Title: A TALEN genome-editing system for generating human stem cell-based disease models		
10:45 – 11:15 AM	30 min BREAK		
	TWO PARALLEL SESSIONS STARTS FROM NOW		
	RNAi / MicroRNAs & STEM CELLS		GENOME ENGG. / GENOME EDITING
11:15 – 12:30 PM	Session II: RNAi & MicroRNA Mechanisms Chair: Dr. Shobha Vasudevan, USA	11:15 – 12:30PM	Session II: Genome Editing in various organisms Chair: Victoria Bedell, USA
11:15 – 11:40 AM	Sam Gu, PhD. Rutgers University, USA Title: Nuclear RNAi-dependent transcriptional silencing of retrotransposons in <i>C. elegans</i>	11:15 – 11:40 AM	Victoria Bedell, MD/PhD Student Mayo Clinic Cancer Center, USA Title: <i>In vivo</i> genome editing using a high-efficiency TALEN system in Zebrafish
11:40 – 12:05 PM	Shobha Vasudevan, PhD. MGH Cancer Center-Harvard Medical School, USA Title: A specialized mechanism of microRNA-mediated translation in cellular quiescence	11:40 – 12:05 PM	Xiaohong Zhu, PhD. Purdue University, USA Title: CRISPR/Cas induced gene editing in <i>Arabidopsis</i> plants
12:05 – 12:30 PM	Jesse R. Zamudio, PhD. Massachusetts Institute of Technology, USA Title: Argonaute-bound small RNAs from promoter-proximal RNA Polymerase II	12:05 – 12:30 PM	Ankur Dalia, PhD. Tufts University School of Medicine, USA Title: Multiplex genome editing by natural transformation in bacteria
12:30 – 1:30 PM	1 Hour Lunch Break (Lunch Provided)		
1:30 – 3:35 PM	Session III: RNAi Screenings, siRNA Delivery & MicroRNA Detection methods Chair: Dr. Larry McReynolds, USA	1:30 – 3:35 PM	Session III: Synthetic Biology Chair: Dr. Claes Gustafsson, USA

1:30 – 1:55 PM	Mingyi Xie, PhD. Yale University, USA Title: Mammalian 5'-capped microRNA precursors that generate a single microRNA	1:30 – 1:55 PM	Claes Gustafsson, PhD. DNA 2.0, Inc., USA Title: Engineering biology using gene synthesis and machine learning
1:55 – 2:20 PM	Larry McReynolds, PhD. New England Biolabs, Inc. Title: MicroRNA detection using SplintR™ ligase	1:55 – 2:20 PM	Irene A. Chen, MD, PhD. University of California at Santa Barbara, USA Title: Emergence and evolution of functional RNA
2:20 – 2:45 PM	Carla P. Concepcion Memorial Sloan Kettering Institute, USA Title: Investigating the biological functions of the miR-34 family of microRNAs	2:20 – 2:45 PM	Andrew Geall, PhD. Novartis Vaccines and Diagnostics, USA Title: Using synthetic biology and self-amplifying mRNA vaccines to facilitate a rapid response to pandemic influenza
2:45 – 3:10 PM	John Paul Pezacki, PhD. National Research Council of Canada, Canada Title: siRNA delivery	2:45 – 3:10 PM	Thomas Z. Armel, PhD. Quantitative Scientific Solutions, USA Title: Applications for genome engineering Technologies
3:10 – 3:35 PM	J. Michael French Marina Biotech, Inc., USA Title: TBA	3:10 – 3:35 PM	Florian Lienert, PhD. Harvard Medical School, USA Title: Tools for genetic circuit engineering in mammalian cells
3:35 – 4:00 PM	25 min. BREAK		
4:00 – 6:10 PM	Session IV: Stem Cells Chair: Dr. Yan-Ru Lou, FINLAND	4:00 – 6:10 PM	Session IV: CRISPRs & Nuclease Technology Chair: Dr. David Edgell, CANADA
4:00 – 4:25 PM	Wa Xian, PhD. Jackson Laboratory for Genomic Medicine, USA Title: p63+/Krt5+ distal airway stem cells are essential for lung regeneration	4:00 – 4:25 PM	Arumugham Raghunathan, PhD. Horizon Discovery Ltd., UK Title: Genome editing as an emerging technology to functionalize the human genome and accelerate targeted drug discovery
4:25 – 4:50 PM	Ken Rando BioSpherix, Ltd., USA Title: Better manufacturing practice for cell therapies	4:25 – 4:50 PM	Fei Ann Ran Massachusetts Institute of Technology, USA Title: Mammalian genome engineering with the CRISPR/Cas system
4:50 – 5:15 PM	Dodanim Talavera-Adame, MD, PhD. Cedars-Sinai Medical Center, USA Title: Bone morphogenetic protein-2/-4 up-regulation promoted by endothelial cells in coculture enhances mouse embryoid body differentiation	4:50 – 5:15 PM	Hiroshi Ochiai, PhD. Hiroshima University, Japan Title: TALEN-mediated single-base-pair editing reveals the functional significance of an intergenic single nucleotide variant
5:15– 5:40 PM	Yan-Ru Lou, PhD. University of Helsinki, Finland , Title: 3D culture of human pluripotent stem cells in nanofibrillar cellulose hydrogel	5:15– 5:40 PM	David Edgell, PhD. University of Western Ontario, Canada Title: Monomeric nuclease domains for genome editing
5:40 – 6:05 PM	Jae-Won Shin, PhD. Harvard University, USA Title: Lamins regulate cell trafficking and lineage maturation of adult human hematopoietic cells	5:40 – 6:05 PM	Jun Jiang, MD. & Ph.D. University of Massachusetts Medical School, USA Title: Shutting down the extra chromosome 21 in Down syndrome cells using zinc-finger nuclease technology
6:10 PM	End of 1st day session	6:10 PM	End of 1st day session

MAY 6, TUESDAY

8:00 AM	REGISTRATION OPEN: Coffee/Tea & Refreshments		
8:45 – 10:40 AM	JOINT INAUGURAL SESSION V: Chair: Krishnarao Appasani, PhD.		
8:45 – 8:50 AM	Welcome Address by Organizer: Krishnarao Appasani, PhD. GeneExpression Systems, Inc. USA		
8:50 – 9:25 AM	KEYNOTE SPEKER: Sanjeev Gupta, MD. Albert Einstein College of Medicine-Yeshiva University, USA Title: Mechanisms in hepatic differentiation of pluripotent stem cells offer therapeutic applications for candidate human conditions		
9:25 – 9:50 AM	Christopher M. Hammell, PhD. Cold Spring Harbor Laboratory, USA Title: LIN-42, the <i>Caenorhabditis elegans</i> PERIOD homolog, negatively regulates microRNA biogenesis		
9:50 – 10:15 AM	Izuho Hatada, PhD. Gunma University, Japan Title: Genome engineering of mammalian haploid embryonic stem cells using the Cas9/RNA system		
10:15 – 10:40 AM	Aris N. Economides, PhD. Regeneron Pharmaceuticals, Inc., USA Title: Genome engineering approaches for large genomic region exchanges and conditional alleles		
10:40 – 11:00 AM	20 min BREAK		
	TWO PARALLEL SESSIONS STARTS FROM NOW		
	RNAi / Micro RNAs		STEM CELLS / GENOME ENGG/EDITING
11:00 – 12:40 PM	Session VI: Disease Biology & Therapeutics Chair: Susanna Obad, DENMARK	11:00 – 12:40PM	Session VI: Pluripotency & Signaling Chair: Karl Willert, USA
11:00 – 11:25 AM	Ryan M. O'Connell, PhD. University of Utah, USA Title: MicroRNAs regulate chronic inflammation during aging	11:00 – 11:25 AM	David Brafman, PhD, MBA University of California, San Diego, USA Title: Analysis of SOX2-expressing cell populations derived from human pluripotent stem cells
11:25 – 11:50 AM	Juan A. Gallego, MD. Hofstra North Shore-LIJ School of Medicine, USA Title: Differential expression of microRNAs in cerebrospinal fluid in patients with schizophrenia	11:25 – 11:50 AM	Hui Zhang, Ph. D. University of Nevada, Las Vegas, USA Title: Role of Sox2 in pluripotent stem cells
11:50 – 12:15 PM	Marcelo Mori, PhD. Federal University of São Paulo, Brasil Title: Short cuts to prolong health span	11:50 – 12:15 PM	Albert Q. Lam, MD. Brigham and Women's Hospital, USA Title: Directed differentiation of human pluripotent stem cells into cells of the kidney lineage
12:15 – 12:40 PM	Susanna Obad, MSc, PhD. Santaris Pharma A/S, Denmark Title: Targeting of microRNAs for therapeutics	12:15 – 12:40 PM	Karl Willert, PhD. University of California, San Diego, USA Title: Regulation of pluripotency by Wnt signaling
12:40 – 1:45 PM	1 Hour 05 min Lunch Break (ON YOUR OWN)		

1:45 – 3:25 PM	Session VII: RNAi Reagents, Chemical & High Throughput Screenings in Stem Cells Chair: Hakim Djaballah, USA	1:45 – 3:25 PM	Session VII: Pluripotency, Epigenetic Silencing & Genome Editing Chair: Dr. Tomomi Aida, JAPAN
1:45 – 2:10 PM	Hakim Djaballah, PhD. Memorial Sloan Kettering Cancer Center, USA Title: Comparative analysis of RNAi screening technologies at genome-scale	1:45 – 2:10 PM	Sei Kameoka Biogen Idec, USA Title: High throughput screenings for teratogens using human pluripotent stem cells
2:10 – 2:35 PM	Malia Potts, PhD. University of Texas Southwestern Medical School, USA Title: Broad scale mode-of-action annotation of miRNAs and chemical compounds by Functional Signature Ontology (FuSiOn)	2:10 – 2:35 PM	Fernando J. Bustos, PhD. University Medical Center Groningen, Netherlands Title: Targeted epigenetic silencing of PSD95 gene expression rescues dendritogenesis in hippocampal neurons
2:35 – 3:00 PM	Paul Feinstein, PhD. Hunter College City University of New York, USA Title: Quantitative RT-PCR-based screening in mouse ES cells	2:35 – 3:00 PM	Tomomi Aida, PhD. Tokyo Medical and Dental University, Japan , Title: <i>In vivo</i> genome editing for knockin mice production
3:00 – 3:25 PM	Susan Magdaleno, PhD. Thermo Fisher Scientific, Inc. USA Title: Using NGS with RNA Ampliseq™ to correlate siRNA transfection with knockdown in single cells	3:00 – 3:25 PM	Ayal Hendel, PhD. Stanford University School of Medicine, USA Title: Policing the Editor: Quantifying genome editing outcomes at endogenous loci using SMRT Sequencing
3:25 – 3:45 PM	20 min. BREAK		
3:45 – 4:30 PM	JOINT SESSION VIII: Chair: Dr. Krishnarao Appasani, USA		
3:45 – 4:30 PM	SPECIAL KEYNOTE LECTURE: Kevin C. Eggen, PhD. Harvard University & Harvard Stem Cell Institute, USA Title: Biology of stem cell programming and reprogramming		
4:30 PM	End of The Meeting: Concluding remarks by Organizer		

NOTE: IF any cancellations of speakers in the list happens during the meeting, the agenda will shift accordingly.