

# AGENDA (FINAL as of AUGUST 17, 2015)

GeneExpression Systems & Appasani Research Conferences of USA Presents:

## Epigenomics & Metabolomics - 2015 Meeting

Venue: Courtyard MARRIOTT Hotel, 777 Memorial Drive, Cambridge, MA 02139, USA on August 24 – 25, 2015

**Organizer:** Krishnarao Appasani, PhD. GeneExpression Systems, Inc. of USA

	<b>AUGUST 24, Monday</b>		<b>AUGUST 25, Tuesday</b>
<b>8:00 AM</b>	<b>REGISTRATION OPEN:</b> Coffee/Tea & Refreshments	<b>8:00 AM</b>	<b>REGISTRATION OPEN:</b> Coffee/Tea & Refreshments
9:00 – 9:05 AM	<b>Welcome Note by Organizer:</b> Krishnarao Appasani, PhD., MBA, USA	9:00 – 9:05 AM	<b>Introduction of Session Chair by:</b> Krishnarao Appasani, PhD., MBA, USA
<b>9:00 – 10.40 AM</b>	<b>Session I: Inaugural Session</b> <b>Chair: Laurie Jackson-Grusby, PhD. USA</b>	<b>9:00 – 10.25 AM</b>	<b>Session V: Epigenomics in Auto-immune &amp; Metabolic Diseases</b> <b>Chair: Wesley Brooks, PhD., MBA.</b>
9:05 – 9:35 AM	<b>Laurie Jackson-Grusby, Ph.D., Plenary Speaker</b> Children's Hospital, Harvard Medical School, USA <b>Title: TBA</b>	9:05 – 9:35 AM	<b>Wesley Brooks, PhD., MBA Plenary Speaker</b> University of South Florida & CUPRX, LLC, USA <b>Title: Epigenetics and autoimmune diseases: Involvement of the X chromosome, nucleolus and polyamines</b>
9:35 – 10:15 AM	<b>Metabolomics Innovator Award Presentation to:</b> <b>Joel Hirschhorn, MD, PhD. KEYNOTE SPEAKER</b> Broad Institute of MIT and Harvard, USA <b>Title: From human genetics to biology for obesity, height, and other polygenic traits</b>	9:35 – 10:00 AM	<b>Alison Burkart, PhD.</b> Joslin Diabetes Center, USA <b>Title: Insulin resistance reduces oxidative metabolism and metabolic flexibility in Human iPS Cells</b>
10:15 – 10:40 AM	<b>Takeo Kubota, MD, PhD.</b> University of Yamanashi, Japan <b>Title: Therapeutic strategies for mental and neurodevelopmental disorders based on epigenetic mechanism</b>	10:00 – 10:25 AM	<b>Junco Warren (Junko Shibayama), PhD.</b> University of Utah, USA <b>Title: Integrated Physiology and Systems Biology of Smyd1</b>
<b>10:40 – 11:00 AM</b>	<b>20 Minutes AM Break</b>	<b>10:25 – 10:50 AM</b>	<b>30 Minutes AM Break</b>
<b>11:00 – 12:45 PM</b>	<b>Session II: Chromatin Biology &amp; Regulation</b> <b>Chair: Amar J. S. Klar, PhD. USA</b>	<b>10:50 – 12:35 AM</b>	<b>Session VI: Sequencing Technologies &amp; Variations</b> <b>Chair: Corina Shtir, PhD. USA</b>
11:00 – 11:30 AM	<b>Amar J. S. Klar, PhD. Plenary Speaker</b> National Cancer Institute-NIH, USA <b>Title: Selective chromatid segregation epigenetic mechanism explains body laterality development of diverse eucaryotes</b>	10:50 – 11:20 PM	<b>Corina Shtir, PhD. Plenary Speaker</b> Thermo Fisher Scientific, USA <b>Title: Personalized Medicine based on the population scale programs</b>
11:30 – 11:55 AM	<b>David S. Gross, PhD.</b> Louisiana State Univ. Health Sciences Center, USA <b>Title: Hsf1-regulated genes loop, crumple and coalesce into transcriptionally active foci in response to heat shock</b>	11:20 – 11:45 AM	<b>Konstantin Volyansky, PhD.</b> Philips Research North America, USA <b>Title: A novel phylogeny-based computational framework for heterogeneity assessment and characterization in single cell Sequencing data</b>
11:55 – 12:20 PM	<b>Julie Secombe, PhD.</b> Albert Einstein College of Medicine, USA <b>Title: KDM5: More than just a demethylase</b>	11:45 – 12:10 PM	<b>Lana Saleh, PhD.</b> New England Biolabs, Inc., USA <b>Title: Biochemical characterization of a Naegleria TET-like oxygenase and its application in single-molecule sequencing of 5-methylcytosine</b>

12:20 – 12:45 PM	<b>Michal Stachowiak, PhD.</b> University of Buffalo School of Medicine, <b>USA</b> <b>Title:</b> Global developmental gene programming with FGFR1	12:10 – 12:35 PM	<b>Aleksandar Milosavljevic, PhD.</b> Baylor College of Medicine, <b>USA</b> <b>Title:</b> Epigenomic deconvolution yields insights into the biology of complex tumor tissues
<b>12:45 – 2:00 PM</b>	<b>Lunch Break 1 hour 15 min (Will be provided)</b>	<b>12:35 – 1:45 PM</b>	<b>Lunch Break 1 hour 10 min. (Will be provided)</b>
<b>2:00 – 3:20 PM</b>	<b>Session III: Epigenetics in Stem Cells &amp; Cancer</b> <b>Chair: Alex Meissner, PhD. USA</b>	<b>1:45 – 4:00 PM</b>	<b>Session VII: Emerging Trends in Epigenomics &amp; Metabolomics: YOUNG SCIENTIST SESSION</b> <b>Chair: Sibaji Sarkar, PhD. USA</b>
2:00 – 2:30 PM	<b>Alex Meissner, PhD. Plenary Speaker</b> Harvard University & The Broad Institute, <b>USA</b> <b>Title:</b> Epigenetic dynamics in pluripotent cells	1:45 – 2:15 PM	<b>Anand Minajigi, PhD.</b> Massachusetts General Hospital, <b>USA</b> , <b>Title:</b> Partners of silence: role of Xist interactome in X inactivation
2:30 – 2:55 PM	<b>James L. Sherley, MD., PhD.</b> Asymmetrex, LLC., <b>USA</b> <b>Title:</b> Outsourcing the wide range evaluation of epigenetic biomarkers for tissue stem cell detection and quantification	2:15 – 2:40 PM	<b>Diane H. Moon, PhD.</b> Boston Children's Hospital, <b>USA</b> <b>Title:</b> Regulation of the telomerase RNA component ( <i>TERC</i> ) in bone marrow failure disorders
2:55 – 3:20 PM	<b>Bodour Salhia, PhD.</b> Translational Genomics Research Institute, <b>USA</b> <b>Title:</b> Circulating DNA Methylation changes associated metastatic breast cancer	2:40 – 3:05 PM	<b>Yiyi Ma, PhD.</b> Boston University School of Medicine, <b>USA</b> <b>Title:</b> Epigenetics and gene-by-environment interactions
<b>3:20 – 3:45 PM</b>	<b>PM Break 25 min - Visit of Exhibits/Posters</b>	3:05 – 3:30 PM	<b>Nicolas Rohner, PhD.</b> Harvard Medical School, <b>USA</b> <b>Title:</b> Cavefish as a model for population differences in metabolic evolution
<b>3:45 – 5:30 PM</b>	<b>Session IV: Epigenetics-based gene silencing &amp; Epigenetics Regulation in Neurological Diseases</b> <b>Chair: Takeo Kubota, MD, PhD. JAPAN</b>	<b>3:30 PM</b>	<b>End of the Conference: Concluding Remarks</b>
3:45 – 4:10 PM	<b>Sibaji Sarkar, PhD. Plenary Speaker</b> Boston University School of Medicine, <b>USA</b> <b>Title:</b> Epigenetic Regulation of Gene Silencing in Cancer Cells		
4:10 – 4:35 PM	<b>Koji Hayakawa, PhD.</b> University of Tokyo, <b>Japan</b> <b>Title:</b> Epigenetic regulation by nutrient-sensing factors in the degeneration of induced orexin neurons		
4:35 – 5:00 PM	<b>Ram Madabhushi, PhD.</b> Picower Institute For Learning & Memory, MIT, <b>USA</b> <b>Title:</b> A distinct epigenetic signature defines neural cells in familial Alzheimer's disease		
<b>5:00 PM</b>	<b>End of day Sessions</b>		