

## AGENDA (FINAL as of October 26-2015)

GeneExpression Systems & Appasani Research Conferences & University of Cambridge Presents:

*10<sup>th</sup> International* **MicroRNAs/Non-Coding RNAs & Genome Editing Europe – 2015 Meeting &**  
*3rd International* **European Neurodegenerative Diseases/Optogenetics Europe – 2015 Meeting**

**Venue:** Peterhouse College, University of Cambridge, Cambridge, **United Kingdom**      **Date:** November 2 – 3, 2015  
**Organizer:** Krishnarao Appasani, PhD. GeneExpression Systems, Inc. of USA

### NOVEMBER 2, 2015, MONDAY

8:00 AM	<b>REGISTRATION OPEN:</b> Coffee/Tea & Refreshments		
<b>8:30 – 10:40 AM</b>	<b>JOINT INAUGURAL SESSION I: Chair: Krishnarao Appasani, PhD.</b>		
8:30 – 8:45 AM	Welcome Address by Organizer: <b>Krishnarao Appasani, PhD.</b> GeneExpression Systems, Inc. <b>USA</b>		
8:45 – 9:15 AM	<b>PLENARY SPEAKER: ANNA GIT, PhD.</b> Thermo Fisher Scientific Sponsored Speaker Cancer Research UK Cambridge Research Institute, University of Cambridge, Cambridge, <b>UK</b> <b>Title:</b> miRNAs in breast cancer – the landscape, the function and the woes of validation		
9:15 – 9:45 AM	<b>KEYNOTE SPEAKER: ERIC S. MISKA, PhD.</b> Herchel Smith Professor of Molecular Genetics University of Cambridge, Cambridge, <b>United Kingdom</b> <b>Title:</b> Transgenerational epigenetic inheritance and RNAe		
9:45 – 10:15 AM	<b>INDUSTRY KEYNOTE SPEAKER: JOAN FALLON, PhD.</b> Chief Executive Officer Curemark, Inc., Rye, NY, <b>USA</b> <b>Title:</b> The Role of amino acid and brain transcription factors in neurodegenerative diseases		
10:15 – 10:40 AM	<b>PLENARY SPEAKER: ANDREW BASSETT, PhD.</b> Head of Genome Engineering Oxford University of Oxford, Oxford, OX1 3RE, <b>United Kingdom</b> <b>Title:</b> Investigation of miRNA function using genome engineering		
<b>10:40 – 11:00 AM</b>	<b>20 minutes BREAK</b>		
	<b>TWO PARALLEL SESSIONS STARTS FROM NOW</b>		
	<b>MICRO RNAs, NON CODING RNAs &amp; GENOME EDITING</b> Held at Peterhouse Theater		<b>NEURO DEGENERATIVE DISEASES &amp; OPTOGENETICS</b> Held at Upper Hall
<b>11:00 – 12:45 PM</b>	<b>Session II: piRNAs/NcRNAs in Development &amp; Genome Editing</b> <b>Chair: Shawn Ahmed, PhD. USA</b>	<b>11:30 – 12:30PM</b>	<b>Session II: Neurodevelopmental Diseases</b> <b>Chair: Victoria Lunyak, PhD. USA</b>
11:00 – 11:30 AM	<b>Shawn Ahmed, PhD. PLENARY SPEAKER</b> Professor, University of North Carolina, <b>USA</b> <b>Title:</b> Adult Reproductive Diapause in response to piRNA dysfunction	11:00 – 11:30 AM	<b>Victoria Lunyak, PhD. PLENARY SPEAKER</b> Founder/CEO, Aelan Cell Technologies, Inc., <b>USA</b> <b>Title:</b> TBA
11:30 – 11:55 AM	<b>Bernard A.J. Roelen, PhD.</b> Associate Professor Utrecht University, <b>The Netherlands</b> <b>Title:</b> piRNAs in mammalian oocytes	11:30 – 12:00 PM	<b>Rosemary Fricker, PhD.</b> Reader Keele University, <b>UK</b> <b>Title:</b> Vitamins B <sub>3</sub> and D <sub>3</sub> influence the development and survival of midbrain dopamine neurons
11:55 – 12:20 PM	<b>Yoko Matsuno, MD. PhD.</b> Researcher Niigata University School of Medicine, <b>Japan</b> <b>Title:</b> Xist/XIST RNA and possible triplex formation	12:00 – 12:30 PM	<b>Giuseppe Sciamanna, PhD.</b> Researcher University Of Rome “TorVergata”, <b>Italy</b> <b>Title:</b> Role of Rhes in striatal physiology: a potential

	for localization to chromatin with redundancy		new target in L-Dopa-induced dyskinesia
12:20 – 12:45 PM	<b>Kosuke Yusa PhD.</b> Group leader Wellcome Trust Sanger Institute, <b>UK</b> <b>Title:</b> A CRISPR dropout screen identifies genetic vulnerability in acute myeloid leukaemia	---	----
<b>12:45 – 2:00 PM</b>	<b>1 Hour 15 min: Lunch Break (Provided)</b>		
<b>2:00 – 3:50 PM</b>	<b>Session III: Small RNA Profiling, MicroRNAs in Immunology &amp; Noncoding RNAs-mediated Epigenetics</b> <b>Chair: David Simpson, PhD. UNITED KINGDOM</b>	<b>2:00 – 4:00 PM</b>	<b>Session III: Neurodegenerative Diseases - I</b> <b>Chair: Dr. K. Broersen-Nutma NETHERLANDS</b>
2:00 – 2:30 PM	<b>David Simpson, PhD. PLENARY SPEAKER</b> Senior Lecturer, Queen's University Belfast, <b>UK</b> <b>Title:</b> Small RNA profiling in plasma	2:00 – 2:30 PM	<b>Dr. K. Broersen-Nutma PLENARY SPEAKER</b> Asst. Professor, University of Twente, <b>Netherlands</b> <b>Title:</b> Role of amyloid proteins and Alzheimer's disease
2:30 – 2:55 PM	<b>Hussein Fayyad-Kazan, PhD.</b> Researcher Université libre de Bruxelles, <b>Belgium</b> <b>Title:</b> Downregulation of microRNA-24 and -181 parallels the upregulation of IFN- $\gamma$ secreted by activated human CD4 lymphocytes	2:30 – 3:00 PM	<b>Peter Nilsson, PhD.</b> Professor KTH – Royal Institute of Technology, <b>Sweden</b> <b>Title:</b> Human Protein Atlas enabled neuroproteomic profiling of body fluids
2:55 – 3:10 PM	<b>Rintaro Hiraide, SHORT PRESENTATION</b> Univ. of Cambridge, Addenbrooke's Hospital, <b>UK</b> <b>Title:</b> Interferon-induced long noncoding RNA in swine	3:00 – 3:30 PM	<b>Deepak P. Srivastava PhD.</b> Lecturer, King's College London, <b>UK</b> <b>Title:</b> Estrogen modulation of synapse structure and function; Implications for neurodegenerative disorder
3:10 – 3:25 PM	<b>Antonello Mallamaci, PhD.</b> Associate Professor, SISSA, Trieste, <b>Italy</b> <b>Title:</b> Upregulating endogenous genes by an RNA-programmable artificial transactivator	3:30 – 4:00 PM	<b>Karl Emanuel Busch, PhD.</b> Chancellor's Fellow University of Edinburgh, <b>Scotland-UK</b> <b>Title:</b> The long and the short of sensory processing in <i>C. elegans</i>
3:25 – 3:50 PM	<b>Isabelle Mansuy, PhD.</b> Professor, University/ETH Zürich, <b>Switzerland</b> <b>Title:</b> Non-coding RNAs in transgenerational inheritance in mammals	---	----
<b>3:50 – 4:30 PM</b>	<b>30 min. PM REFRESHMENT BREAK</b>		
<b>4:30 – 6:40 PM</b>	<b>Session IV: MicroRNAs in Aging and Drug Resistance</b> <b>Chair: Marc Winnefeld, PhD. GERMANY</b>	<b>4:30 – 6:30 PM</b>	<b>Session IV: Neurodegenerative Diseases – II &amp; Grid Cells</b> <b>Chair: Peter Vangheluwe, PhD. BELGIUM</b>
4:30 – 5:00 PM	<b>Marc Winnefeld, PhD. PLENARY SPEAKER</b> Head of Aged Skin Lab, Beiersdorf AG, <b>Germany</b> <b>Title:</b> Identification of microRNAs involved in skin aging	4:30 – 5:00 PM	<b>Peter Vangheluwe, PhD. PLENARY SPEAKER</b> Associate Professor, Catholic University, <b>Belgium</b> <b>Title:</b> Unlocking ATP13A2/PARK9 activity protects against mitochondrial stress
5:00 – 5:25 PM	<b>Fiona Furlong, PhD.</b> Lecturer Queens University Belfast, <b>UK</b> <b>Title:</b> A miR-433 mediated mechanism of Chemoresistance	5:00 – 5:30 PM	<b>Julia Krupic, PhD.</b> Sir Henry Wellcome Postdoctoral Fellow, UCL, <b>UK</b> <b>Title:</b> Boundary induced irregularities in entorhinal grid cells

5:25 – 5:50 PM	<b>Lyudmila Gulyaeva, PhD. DB.</b> Professor Inst. of Molecular Biology & Biophysics, <b>Russia</b> <b>Title:</b> Effect of long term exposure of DDT on microRNA expression in rat female organs	5:30 – 6:00 PM	<b>Anna Häggmark, PhD.</b> Postdoctoral Scientist KTH – Royal Institute of Technology, <b>Sweden</b> <b>Title:</b> Proteomic plasma profiling within ALS
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<b>6:00 PM</b>	<b>End of 1<sup>st</sup> day session</b>	<b>6:30 PM</b>	<b>End of 1<sup>st</sup> day session</b>

### NOVEMBER 3, 2015, TUESDAY

8:00 AM	<b>REGISTRATION OPEN:</b> Coffee/Tea & Refreshments		
<b>8:45 – 10:30 AM</b>	<b>JOINT INAUGURAL SESSION IV: Chair: Krishnarao Appasani, PhD.</b>		
8:45 – 9:00 AM	Welcome Note by Organizer: <b>Krishnarao Appasani, PhD.</b> GeneExpression Systems, Inc. <b>USA</b>		
9:00 – 9:30 AM	<b>KEYNOTE SPEKER: HERMONA SOREQ, Ph.D.</b> Professor of Molecular Neuroscience The Edmond and Lily Safra Center for Brain Sciences. The Hebrew University of Jerusalem, <b>Israel</b> <b>Title:</b> From Mice to men: MicroRNA regulators of stress-induced cholinergic signaling		
9:30 – 10:00 AM	<b>KEYNOTE SPEKER: ZUZANNA IZSVAK, PhD.</b> Group Leader Max Delbruck Center for Molecular Medicine, <b>Germany</b> <b>Title:</b> Primate-specific endogenous retrovirus driven transcription defines naïve-like stem cells		
10:00 – 10:30 AM	<b>KEYNOTE SPEKER: GERO MIESENBOCK, MD., FRS.,</b> Waynflete Professor of Physiology Director, Centre for Neural Circuits and Behaviour, University of Oxford, <b>United Kingdom</b> <b>Title:</b> Light Sleep		
<b>10:30 – 11:00 AM</b>	<b>30 min BREAK</b>		
	<b>TWO PARALLEL SESSIONS STARTS FROM NOW</b>		
	<b>MICRO RNAs, NON CODING RNAs &amp; GENOME EDITING</b> <b>Held at Peterhouse Theater</b>		<b>NEURO DEGENERATIVE DISEASES &amp; OPTOGENETICS</b> <b>Held at Upper Hall</b>
<b>11:00 – 12:35 PM</b>	<b>Session V: MicroRNAs as Biomarkers &amp; Their Roles Cancer &amp; Stem Cells</b> <b>Chair: Oluf Dimitri Røe, MD, PhD. NORWAY</b>	<b>11:00 – 12:30PM</b>	<b>Session V: Molecular Imaging &amp; Optogenetics</b> <b>Chair: Dr. Albrecht Stroh, GERMANY</b>
11:00 – 11:30 AM	<b>Oluf Dimitri Røe, MD, PhD. Plenary Speaker</b> Professor, Norwegian Univ. of Sc. & Tech., <b>Norway</b> <b>Title:</b> Title: Early diagnosis of lung cancer and mesothelioma by multi-omics, techniques and feasibility	11:00 – 11:30 AM	<b>Albrecht Stroh, PhD. Plenary Speaker</b> Professor, University Mainz, <b>Germany</b> <b>Title:</b> From correlations to causality: Combining high-field fMRI, optogenetics and optical calcium recordings in rodents
11:30 – 11:55 AM	<b>Lorraine O'Driscoll, PhD.</b> Associate Professor Trinity College Dublin, <b>Ireland</b> <b>Title:</b> Exosomes, their miRNAs and Cancer	11:30 – 12:00 PM	<b>Massimo De Vittorio, PhD.</b> Director of CBNT IIT, & Università del Salento, <b>Italy</b> <b>Title:</b> Nanomachined tapered optical fibers for optogenetics
11:55 – 12:10 PM	<b>Ping Gao, PhD.</b> Professor University of Science & Technology of China, <b>China</b>	12:00 – 12:30 PM	<b>Christof Taxis, PhD.</b> Junior Group Leader Philipps-Universität Marburg, <b>Germany</b>

	<b>Title:</b> The roles of miRNAs in regulating Warburg Effect in cancer cells as well as in stem cells		<b>Title:</b> Development and application of an optogenetic tool for synthetic regulation of protein stability
<b>12:15 – 2:00 PM</b>	<b>1 Hour 45/30 min: Lunch Break (ON YOUR OWN)</b>		
<b>2:00 – 3:45 PM</b>	<b>Session VI: MicroRNAs, NcRNAs in Disease Biology</b> <b>Chair: Marie-Laure Baudet, PhD. ITALY</b>	<b>2:00 – 4:30 PM</b>	<b>Session VI: Neurodegenerative Diseases and Therapeutic Strategies</b> <b>Chair: Eilís Dowd, PhD. IRELAND</b>
2:00 – 2:30 PM	<b>Marie-Laure Baudet, PhD. Plenary Speaker</b> Principal Investigator, University of Trento, <b>Italy</b> <b>Title:</b> microRNAs: subcellular action in neurons during brain wiring	2:00 – 2:30 PM	<b>Eilís Dowd, PhD. Senior Lecturer Plenary Speaker</b> National University of Ireland, <b>Ireland</b> <b>Title:</b> Gene-environment interactions as an approach to modelling Parkinson's disease
2:30 – 2:55 PM	<b>Pieter Mestdagh, PhD.</b> Associate Professor, Ghent Univ. Hospital, <b>Belgium</b> <b>Title:</b> Long non-coding RNAs as novel targets for cancer therapy	2:30 – 3:00 PM	<b>Lad Yatish, PhD. Researcher</b> Oxford BioMedica (UK) Ltd., <b>UK</b> , <b>Title:</b> Gene therapy for the treatment of Parkinson's disease
2:55 – 3:20 PM	<b>Fergal J. O'Brien, PhD. Professor</b> Royal College of Surgeons in Ireland, <b>Ireland</b> <b>Title:</b> Collagen-based scaffolds for microRNA delivery to enhance tissue regeneration	3:00 – 3:30 PM	<b>Claire Kelly, PhD. Lecturer</b> Cardiff Metropolitan University, <b>UK</b> <b>Title:</b> Making medium spiny neurons for neural transplantation
3:20 – 3:45 PM	<b>Samantha Barichievy, PhD.</b> Sr. Res. Scientist, Astra Zeneca, <b>Sweden</b> <b>Title:</b> Non-coding RNAs and HIV	3:30 – 4:00 PM	<b>Linda Greensmith, PhD.</b> Professor, University College London, <b>UK</b> <b>Title:</b> Using Optogenetics and stem cell-derived neural grafts to restore motor function
3:45 – 4:10 PM	<b>Boye S. Nielsen, PhD. Research Manager</b> Bioneer A/S, <b>Denmark</b> <b>Title:</b> In situ hybridization applications for noncoding RNAs in basic and clinical research	<b>4:00 PM</b>	<b>CLOSE of END/Optogenetics Meeting</b>
<b>4:10 – 4:30 PM</b>	<b>20 min. PM REFRESHMENT BREAK</b>		
<b>4:30 – 6:00 PM</b>	<b>Session VII: MicroRNAs/NcRNAs in Lung Diseases &amp; Cancer Biology</b> <b>Chair: Paul S. Foster, PhD, DSc. AUSTRALIA</b>	---	----
4:30 – 5:00 PM	<b>Paul S. Foster, PhD, DSc. Plenary Speaker</b> Laureate Professor, Univ. of Newcastle, <b>Australia</b> <b>Title:</b> MicroRNAs in lung diseases	---	----
5:00 – 5:30 PM	<b>Rachael Huntley, PhD.</b> Sr. Res. Associate, University College London, <b>UK</b> <b>Title:</b> Functional annotation of cardiovascular-related miRNAs using the Gene Ontology	---	----
5:30 – 5:55 PM	<b>Aida Zamora-Contreras</b> PhD. Student, Cinvestav, <b>Mexico</b> <b>Title:</b> MicroRNAs expression in cervical carcinoma		
<b>6:00 PM</b>	<b>CLOSE of MicroRNAs Meeting</b>		