

**International Mammalian Genome Conference
2018
Draft Schedule as of 10.3.18**

Sat 11.10 2:00 - 6:00 PM **Secretariat Meeting**

Sun 11.11 9-noon **Workshops**

CRISPR
Ensembl
GeneWeaver
IMPC
Next Gen

**Lunch (not provided)
Trainee Symposium**

1:00 PM	Brake	Marisa A.	Whole Genome Sequence Analysis Issues Revealed by Evaluation of a Linkage Peak in a Dominant ENU Suppressor Mouse Line
1:15 PM	Kashfeen	Anwica	Identification and Characterization of Transposable Elements in Genetic Reference Populations
1:30 PM	Chen	Chih-Ying	A mouse translocation dysregulating topologically associating Wbscr17 and Aut2 genes associated with behavioral and neuropathological phenotypes related to the human AUTS2 syndrome
1:45 PM	Widmayer	Samuel	Genomic signatures of age-dependent hybrid male sterility in the mouse
2:00 PM	Arora	Uma	Investigating genetic diversity of centromeres: a repetitive, non-coding, unassembled region of the genome
2:15 PM	Byers	Candice	Cellular systems genetics implicates KRAB zinc finger proteins in mediating variation in chromatin state in pluripotent stem cells
2:30 PM	Lewis	Lauren	Inter-individual variability in epigenetic and genotoxic responses to 1,3-butadiene in a population-based Collaborative Cross mouse model

2:45 PM	Palmer	Joseph	Evaluating the transcriptomic plasticity of stem cell quiescence depth with age
	Break		
3:30 PM	Rodriguez-Gi	Jorge L.	Discovering Genetic Modifiers in a new Mouse Model of Niemann-Pick Disease, Type C
3:45 PM	Siebert	Amy E.	The Loss-of-Function Intolerant Actr2 Gene is Resistant to Gene Targeting and Genome Editing
4:00 PM	Chhabra	Nirav Florian	Alterations in metabolism and circadian rhythm in a Pax6 mutant mouse line
4:15 PM	Donoghue	Lauren	Pairing systems genetics and longitudinal analyses to identify regulators of complex lung disease phenotypes
4:30 PM	Son	Yuna	Variable effects of steroid treatment on patient derived keloid fibroblasts is underlying genetic/epigenetic heterogeneity the cause?
4:45 PM	Prado	Leandro	Msr1 modulates infarct volume through a collateral vessel-independent mechanism
5:00 PM	Leist	Sarah R.	Dissecting the role of TLR4 signaling during SARS- and SARS-like CoV infection in mice using the Collaborative Cross reference population and multiple mapping approaches
5:15 PM	Jaimés-Alvar	Jorge	Progression of colorectal cancer through epidermal growth factor receptor (EGFR)-independent mechanisms
	Dinner		
8:00 PM	Official Opening of meeting		
	Keynote		
8:15 PM	Magnuson	Terry	Genome-Wide Dynamics of Chromatin Modifiers

Mon 11.12

8:15 AM Opening remarks
Session 1

8:30 AM	Dunwoodie	Sally	NAD Deficiency, Congenital Malformations and Vitamin B3 Supplementation
9:00 AM	Bult	Carol	Comparative genetics and genomics of mouse strains and species at Mouse Genome Informatics (MGI)
9:15 AM	Keele	Greg	Accounting for haplotype uncertainty in QTL mapping of multiparental populations using multiple imputation
9:30 AM	Cao	Junyue	The dynamic transcriptional landscape of mammalian organogenesis at single cell resolution
9:45 AM	Keane	Thomas M.	Exploring rodent genetic and phenotypic diversity for biomedical and environmental applications
			Break
			Session 2
10:20 AM	Trainee		
10:35 AM	Trainee		
10:50 AM	Loveland	Jane	Targeted investigation of PhyloCSF regions identifies more than 100 novel protein-coding genes on the mouse reference genome
11:05 AM	Pardo-Manua	Fernando	Background-dependent mutation rate and strong deleterious effects of de novo transposition of endogenous retrovirus in mouse inbred strains
11:20 AM	Skelly	Daniel	Genetic variation influences ground state pluripotency in mouse embryonic stem cells through a hierarchy of molecular phenotypes
11:35 AM	Churchill	Gary A	Updating The Mouse Genome: The Impact of Mutation and Drift on C57BL/6J
11:50 PM			Lunch and posters (odd)
			Nomenclature Lunch
			Session 3
2:15 PM	Bryda	Elizabeth C.	Animal Modeling in the Era of Precision Medicine
2:45 PM	Gergelits	Vaclav	Identification of meiotic non-crossovers in mice

3:00 PM	Tillotson	Rebekah	The biological importance of the unique DNA binding properties of MeCP2
3:45 PM	Mogilyansky	Elena	Intestinal Tumors in Hybrids from Crosses of Collaborative Cross Mice with a Sensitized Strain Reveal an Array of Phenotypes
4:00 PM	Baker	Christopher	PRDM9 functions as a specialized meiotic pioneer factor that activates recombination hotspots by recruiting a nucleosome remodeling factor and opening chromatin
4:15 PM	Beier	David	Scarless repair of kidney injury in African Spiny mice (<i>Acomys cahirinus</i>)
5:15 PM	Buses leave for BLB or OSJ		

Tues 11.13

Session 4

8:30 AM	Dumont	Beth	Evolution and function of the mammalian pseudoautosomal region
8:50 AM	Trainee		
9:05 AM	Trainee		
9:20 AM	Bhattacharyy	Tanmoy	Dissecting the mechanistic basis of the DobzhanskyMuller incompatibility causing F1 hybrid sterility in <i>Mus musculus</i> .
9:35 AM	Aylor	David	Gene x environment interactions cause sperm decline and male infertility in mice
9:50 AM	Benavides	Fernando	Deficient LRRC8A-dependent Volume-Regulated Anion Channel (VRAC) activity is associated with male infertility in mice

Break
Session 5

10:25 AM	Mock	Beverly	Targeting the MYCG-Quadruplex Induces Cancer Cell Death
10:40 AM	Tracey	Lauren	The pluripotency regulator Prdm14 hijacks hematopoietic regulatory Cbfa2t3 to initiate leukemia in mice

			The use of an untargeted metabolomics approach to determine the functional consequences of differences in host genetics and the gut microbiota in Apc ⁺ /Min intestinal tumorigenesis
10:55 AM	Moskowitz	Jacob	
11:10 AM	Raab	Jesse	Dynamic chromatin underlies intestinal stem cell differentiation
11:25 AM	Vashi	Neeti	Determining the mechanism for lung lipid defects in a Mecp2-mutant mouse model for Rett syndrome
11:40 AM	Cordes	S P	Misregulation of an activity-dependent splicing network impacts neuronal translation and underlies autism spectrum disorders
11:55 to 1:30 Lunch /Mentor Lunch			
1:30 - 3:00 Forward Genetics Panel			
			Mutagenesis with real-time assignment of cause and effect
	Beutler	Bruce	
3:00 to 4:00 IMGS Business Meeting			
4:00 - 6:00 Poster (Even) with Rum tasting			
One hour reception/bar			
Dinner on your own			
Session 7			
8:00 PM	Noll	Kelsey E.	Role for genetic variation in the NLRP1 inflammasome locus in Influenza A Virus pathogenesis
8:15 PM	Schaefer	Alexandra	Mapping of susceptibility alleles for Ebola hemorrhagic fever pathogenesis and resistance
8:30 PM	Krementsov	Dimitry	Interactions between the host genome and the gut microbiome determine susceptibility to CNS autoimmune disease
8:45 PM	Gralinski	Lisa	Using a reduced complexity cross to identify host susceptibility factors to SARS-CoV infection
9:00 PM	Schughart	Klaus	Of mice and men the host response to influenza virus infectio

	9:15 PM	Kelada	Samir	Genetic Regulation of Airway Mucins and Consequences on Host Defense in Mice
Wed 11.14			Session 8	
	8:30 AM	Pospisilik	Andrew	Epigenetic control of complex disease susceptibility Using Advanced Mouse Populations to Probe Genes and Networks that Drive Addiction-Related Behavior
	9:00 AM	Tarantino	Lisa	
	9:15 AM	McClymont	Sarah	Exploiting dynamic open chromatin in mouse dopamine neurons reveals Parkinson-associated variation in an SNCA enhancer: a paradigm for illuminating functional noncoding variation
	9:30 AM	Salvador	Anna	Genetic control of physiological response to carbohydrate consumption
	9:45 AM	Cuomo	Danila	Assessment of early-life lead exposure in a genetically heterogeneous mouse population
			Break	
			Session 9	
	10:20 AM	Teboul	Lydia	Generation and validation of increasingly complex alleles by genome editing
	10:35 AM	Frankish	Adam	Completion of first pass GENCODE gene annotation for the mouse reference genome Elucidating the putative regulatory role of GWAS-associated neural disease variants using STARR-Seq
	10:50 AM	Law	William	Genetics of seizure sensitivity in the Collaborative Cross
	11:05 AM	Shorter	John	
	11:20 AM	McMillan	Leonard	Exploring high-throughput sequencing data using Multi-string Burrows Wheeler Transforms The expanded BXD family : A cohort for experimental systems genetics and personalized precision medicine
	11:35 AM	Arends	Danny	
	11:50 AM		Lunch	

**Secretariat lunch
Session 10**

1:30 PM	Justice	Monica J	A suppressor screen in Mecp2 mice implicates the DNA damage response in Rett Syndrome pathology
1:45 PM	Gailus-Durne	Valerie	Uqcrh KO mouse mimics mitochondrial respiratory chain disorder Discovery of new genes related to human metabolic disorders by high throughput mouse phenotyping
2:00 PM	Hrabe de Anç	Martin	
2:15 PM	Smith	Jennifer R	RGDs updated and redesigned Phenotypes and Models Portal: Data for precision models of human disease Antipsychotic behavioral phenotypes of Collaborative Cross recombinant inbred intercrosses (RIX).
2:30 PM	Giusti-Rodrig	Paola	
2:45 PM	Watkins-Cho	Dawn	Many shades of gray: a comparative analysis of pheomelanin-specific mouse mutants
			Break
			Session 11
3:20 PM	Amos-Landgr	James	Utility of the Pirr rat model of Familial Adenomatous Polyposis as a platform to test the role of the gut bacteria Desulfovibrio vulgaris on adenoma development.
3:35 PM	Svenson	Karen L	Update on housing density studies using research mice: time for a change?
3:50 PM	Herault	Yann	Standardized characterization of mouse models for genetic diseases with intellectual disabilities unravelled unique behavioural profiles Machine learning predicts association between Ythdf3 and cognition in a mouse model of
4:05 PM	Tyler	Anna L.	Alzheimers disease
5:15 PM			Buses leave for Hacienda Sieste Alegre