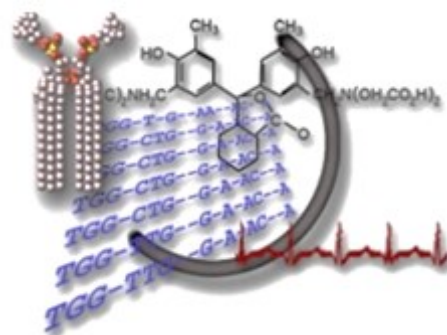


Pharmaceutical and Pharmacological Sciences Research Retreat

May 19, 2017

Kirkwood Regional Center
2301 Oakdale Blvd., Coralville, IA



Department of Pharmaceutical Sciences
and Experimental Therapeutics

Hosted by:

The Pharmacological Sciences Training Program

Department of Pharmacology

Department of Pharmaceutical Sciences
and Experimental Therapeutics

Research Retreat

Schedule

8:00 - 9:00 AM	Continental Breakfast and Poster Set up
9:00 - 9:15 AM	DEO's Welcome
9:15 - 10:40 AM	Session I: Faculty and Trainee Oral Presentations
9:15 - 9:45 AM	Greg Friestad, Ph.D., Associate Professor, Department of Chemistry
9:45 - 10:05 AM	Rondine Allen, graduate student (Rice Lab), MNPC
10:05 - 10:25 AM	Brittany Ripley, graduate student (Washington Lab), Department of Biochemistry
10:25 - 10:40 AM	Break
10:40 - 12:00 PM	Session II: Faculty and Trainee Oral Presentations
10:40 - 11:10 AM	Kevin Rice, Ph.D., Professor, MNPC
11:10 - 11:30 AM	Josie Schamp, graduate student (Doorn Lab), MNPC
11:30 - 12:00 PM	Catherine Musselman, Ph.D., Assistant Professor, Department of Biochemistry
12:00 - 1:00 PM	Lunch Break
1:00 - 2:00 PM	Poster Session
2:00 - 3:40 PM	Session III: Faculty and Trainee Oral Presentations
2:00 - 2:30 PM	Ethan Anderson, Ph.D., Associate Professor, PSET
2:30 - 2:50 PM	Christy Heidema, graduate student (DeMali Lab), Molecular & Cellular Biology Program
2:50 - 3:10 PM	Kai Rogers, graduate student (Maury Lab), Department of Microbiology
3:10 - 3:40 PM	Maria Spies, Ph.D., Associate Professor, Department of Biochemistry
3:40 - 4:00 PM	Awards and Wrap-up

Faculty Presentations are 25 minutes + 5 minutes for Q & A

Trainee Presentations are 15 minutes + 5 minutes for Q & A

Poster Presentations

by alpha order

Poster #	Presenter	Title
28	Agbor, Larry	Smooth Muscle-Specific Deletion of Cullin-3 Causes Severe Early Onset Hypertension
63	Aguirre, Arturo	Novel Quinazoline-2,4-Diones: Bacterial Type II Topoisomerase Inhibitors
22	Ahlers-Dannen, Katelin	Molecular cloning of a novel 69 kDa brain-specific isoform of Regulator of G protein Signaling 6 (RGS6)
10	Ameka, Magdalene	FGF21 Regulates Metabolism Through Adipose-Dependent and -Independent Mechanisms
45	Bell, Balyssa	Contribution of POMC and AgRP neurons to the control of metabolic autonomic nerve activity by leptin
44	Bi, Jianling	WDR26 promotes AKT2-driven breast cancer cell growth and migration
47	Caldwell, Colleen	Investigation of RTEL1 DNA Maintenance Mechanisms
66	Chheda, Pratik	Design, Synthesis and Structure-Activity-Relationships of Novel Antimalarials Targeting Apicoplast DNA Polymerase (apPOL) from <i>P. Falciparum</i>
55	Clark, Karen	CRISPR-Cas9 Gene Editing Yields a Novel Rat Model of the Metabolic Syndrome
23	Cullen, Stephen	Applications of the Radical-Polar Crossover Reaction to Medicinal Chemistry
49	de Barros, Cristina Marie	Sunitinib-loaded poly(lactic-co-glycolic acid) nanoparticles to deplete myeloid-derived suppressor cells
26	Deng, Guorui	Arginine vasopressin acts directly upon human placental trophoblasts to elicit calcium responses
51	Feddersen, Charlotte	Discovery and characterization of two drivers of hepatocellular carcinoma: <i>Gli2</i> and <i>Fign</i>
54	Flippo, Kyle	Deletion of AKAP1 in mice enhances memory, but increases ischemic sensitivity in the brain
17	Friedrich, Ryan	Access to the C15-C40 Fragment of Tetrafabricin via Configuration-Encoded 1,5-Polyol Methodology
1	Guo, Deng	mTORC1 is involved in the regulation of Bardet-Biedl syndrome (BBS) 1 gene expression
30	Hammond, Donna	Relief of Paclitaxel-induced Peripheral Neuropathy by Nicotinamide Riboside, an NAD ⁺ Precursor
58	Harmata, Gail	Acid-sensing ion channels in behavioral responses to alcohol
20	Heidema, Christy	Identifying a negative regulator of E-cadherin force transduction
59	Hu, Chunyan	Retinol Binding Protein 7 Mediates an Anti-oxidant Response to Cardiovascular Stressors by Regulating PPARγ Activity and Adiponectin in Endothelium
16	Ibrahim, Sherif	Oxidative route to N,O-acetals linked to the amide nitrogen of peptides
12	Idiga, Sharon	Novel Endocrine Circuit Regulating Sugar Satiety

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11	Jiang, Jingwei	Bardet-Biedl Syndrome 1 (BBS1) protein contributes to vascular endothelial function
60	Jong, Chian Ju	PPP2R5D mutation and cellular growth
50	Kelchen, Megan	Characterization of epidermal properties and skin surface analytes in children with infantile hemangiomas
65	Kohlmeyer, Jordan	Development of a novel porcine model for Neurofibromatosis Type 1
52	Kruger, Terra	Extracellular matrix effects on the uptake and toxicity of amyloid-beta
67	Letney, Blake	Functional Interactions of NIAM and RGS6 Tumor Suppressors in Breast Cancer
35	Li, Manshu	Study on the compatibility of Manganese mediated radical addition reaction with thiazole
34	Lin, Zhihong	Examination of the NCLX Knock-out Effects on Mitochondrial and Cytosolic Ca ²⁺ Signaling in Hippocampal Neurons
57	Linggonegoro, Danny	Physiological Significance of Angiotensin AT1A Receptors in Vasopressin-Producing Cells
43	Liu, Yujia (Jennie)	Rescuing Mitochondrial Division in Autosomal Recessive Spastic Ataxia of Charlevoix-Saguenay (ARSACS) via Chemically-Inducible Drp1 Recruitment
38	Luo, Zili	Regulator of G-protein signaling 6 (RGS6) expression in human substantia nigra pars compacta (SNc) and loss in Parkinson's disease (PD)
42	Markan, Kathleen	Investigating a Novel Mechanism for the Beiging of White Adipose Tissue
39	Merrill, Ronald	Regulation of Mitochondrial Form and Function by Splice Variants, Phosphorylation and Magnesium
48	Minerath, Rachel	CDK8-Selective Kinase Inhibitor, Senexin A, in Regulation of Heart Disease
19	Monroe, Blake	The reactive dopamine metabolite 3,4-Dihydroxyphenylacetaldehyde (DOPAL) is a potent inducer of collagen secretion in human cardiac fibroblasts
61	Mrkvicka, James	Genetic and environmental factors that suppress seizures in a fly model of epilepsy
2	Mukoda, Masashi	RhoBTB1 is a Novel Gene Protecting Against Hypertension
4	Mukoda, Masashi	RhoBTB1, a Novel PPARγ Target Gene Regulates Vascular Function
24	Nair, Anand	Effects of endothelial-specific interference with PPARγ activity in offspring born from AVP-induced preeclamptic pregnancies
18	Nakagawa, Pablo	Deletion of brain-specific isoform of renin (renin-b) increases resting metabolic rate by stimulating brown adipose tissue sympathetic nerve activity, but not insulin sensitivity

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68	O'Brien, Joseph	Assessing the cysteine dependence of small molecule inhibition of RGS4 and RGS14
64	Pearson, Nicole	Surgical removal of gut bacteria promotes weight gain via suppression of energy expenditure
31	Perschbacher, Katherine	Reduced Placental Regulator of G-Protein Signaling-2 (RGS2) and Preeclampsia
46	Rajesh, Mercy	Role of BBS proteins in insulin receptor trafficking and signaling
6	Reho, John	mTORC1 Signaling Is Required for Leucine to Induce Endothelial Dysfunction in the Mouse Aorta
3	Ripley, Brittany	Rad6-18, the master regulator of Translesion Synthesis
33	Rodriguez Cruz, Eva N.	Lateral Hypothalamic Regulation of Energy Homeostasis and Sympathetic Outflow: The Role of Leptin and Melanocortin Signaling
5	Rogers, Kai	The Effect of Macrophage M2 Polarization on Ebola Virus Infection
36	Rysted, Jacob	Functional Characterization of the Mitochondrial Na ⁺ -Ca ²⁺ Exchanger (NCLX) in the Peripheral Nervous System using NCLX Knock-out Mice
29	Saito, Kenji	Histone deacetylase 4 in steroidogenic factor-1 neurons of the ventromedial nucleus of hypothalamus is required for normal glucoregulation in female mice
37	Sanchez, Julio	Determining the role of the AT-hook and bromodomain in mediating chromatin signaling to the Brahma Subunit of the SWI/SNF Complex
15	Sandgren, Jeremy	Vasopressin Induces Discrete Symptoms of Preeclampsia through Receptor- and Gestational Age-Specific Mechanisms
40	Sapouckey, Sarah	Neurons of the Arcuate Nucleus in Mice Express Angiotensinogen
27	Sariol, Alan	Regulatory T cell memory in MHV infection
14	Shaik Amjad, Ume Salma	RABL6A, a novel critical regulator of Akt-mTOR signaling in pancreatic neuroendocrine tumor cells
25	Sheehy, Ryan	RABL6A-dependent regulation of c-Myc expression and activity is essential for cell cycle progression and survival of pancreatic neuroendocrine tumor cells
53	Singla, Sumeet	Effect of microneedles and formulation parameters on immune response in the elderly
56	Song, Jianing	E3 Ubiquitin Ligase Mutations in X-linked Intellectual Disability
62	Tadinada, Satya Murthy	Myocardial responsiveness to beta-adrenergic stimulation is unaltered by hyperinsulinemia
8	Vaddi, Prasanna	Inhibiting G protein $\beta\gamma$ signaling blocks prostate cancer stem cell-like properties and enhances the efficacy of paclitaxel

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21	Wafa, Emad	The effect of polyanhydride chemistry in particle-based cancer vaccines on the magnitude of the anti-tumor immune response
13	Warwick, Charles	Mechanisms of complement C5a-induced mechanical sensitization in mouse: The roles of macrophages, cytokines and TRPV1
32	Woll, Addison	Characterization of the RBP7 dependent PPAR γ antioxidant hub in endothelium
7	Wu, Jing	Endothelial Cullin3 Mutation Causes Vascular Dysfunction, Arterial Stiffening, and Hypertension
9	Wu, Jing	Smooth Muscle PPAR γ Mutation Causes Salt-sensitive Hypertension
41	Yang, Jianqi	Cardiovascular development defects produced by combined loss of RGS6 and oxidizable CaMKII due to defective Notch signaling

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2	Masashi Mukoda, DVM, PhD	RhoBTB1 is a Novel Gene Protecting Against Hypertension
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5	Kai Rogers	The Effect of Macrophage M2 Polarization on Ebola Virus Infection
6	John Reho, PhD	mTORC1 Signaling Is Required for Leucine to Induce Endothelial Dysfunction in the Mouse Aorta
7	Jing Wu, PhD	Endothelial Cullin3 Mutation Causes Vascular Dysfunction, Arterial Stiffening, and Hypertension
8	Prasanna Vaddi	Inhibiting G protein $\beta\gamma$ signaling blocks prostate cancer stem cell-like properties and enhances the efficacy of paclitaxel
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11	Jingwei Jiang, PhD	Bardet-Biedl Syndrome 1 (BBS1) protein contributes to vascular endothelial function
12	Sharon Idiga	Novel Endocrine Circuit Regulating Sugar Satiety
13	Charles Warwick, PhD	Mechanisms of complement C5a-induced mechanical sensitization in mouse: The roles of macrophages, cytokines and TRPV1
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