

**One Image, 100 Words**  
**McKnight Research Evening**  
**Tuesday, February 27<sup>th</sup>, 2018**

**1. *Can we cure stress with an antibody?***

Presenter: Hunter Futch (Golde Lab), Neuroscience

**2. *Phase Transition: Proteins turn to liquids***

Presenter: Dr. David Borchelt, Neuroscience

Coauthors: Maria Caolina Gallego Iradi, Hilda Brown, Haley Strunk, Chun-Run Chen, Jada Lewis

**3. *Smelling the roses***

Presenter: Dr. Jeff Martens, Pharmacology and Therapeutics

**4. *Image-based representation of major protein biomarkers linked to different pathophysiologic processes in traumatic brain injury***

Presenter: Dr. Kevin K. Wang, Psychiatry

**5. *In vivo optogenetic stimulation of the soma of AT1AR neurons within the MNPO/OVLT activated AVP neurons in the PVN***

Presenter: **TBD** (Krause/de Kloet Labs), Pharmacodynamics and Physiology

**6. *Using AAV to trace respiratory pathways***

Presenter: Dr. Jay Nair (Mandel/Fuller Labs), Neuroscience and Physical Therapy

**7. *Orbitofrontal Thickness in anxiety disorder patients***

Presenter: Dr. Nicola Sambuco (Lang Lab), Clinical and Health Psychology

Co-authors: Hilbrandt, Lang

**8. *Location, location, location; Why where a receptor is, matters***

Presenter: Dr. Jeremy McIntyre, Neuroscience

**9. *Positron Tomography and its uses in neurodegenerative diseases***

Presenter: Dr. Steve DeKosky, Neurology

**10. *Developing an aged rat model of medial temporal lobe tauopathy***

Presenter: Dr. Sarah Johnson (Burke/Bizon Labs), Neuroscience

Co-authors: Joe McQuail, Melissa Letinski, Sahil Ghay, Benoit Giasson, Paramita Chakrabarty, Peter Rapp, Sara Burke, Jennifer Bizon

**11. *Intermittent hypoxia, (respiratory) motor neuron plasticity and therapeutics (SCI, ALS)***

Presenter: Dr. Gordon S. Mitchell, Physical Therapy

Co-authors: Raphael Perim, Latoya Allen, Marissa Ciesla, Arash Tadjalli, Yasin Seven, Mia Kelly, Ela Sajjadi, Alec Simon, Juan Santiago-Moreno, Mohamed El-Chami, Shakeel Ahmed, Amy Poirier, Juliet Santiago, Ashley Holland, Ashley Ross, Kelsey Stefan, Amanda Zwick, Kristin Smith, Zach Asa and Elisa Gonzalez-Rothi.

**12. Regenerating vasculature in a tissue-engineered electrical nerve interface**

**Presenter:** Eric Atkinson (Otto Lab), Biomedical Engineering

**13. Neurobiology of hoarding disorder**

**Presenter:** Dr. Jessica Zakrzewki (Mathews Lab), Psychiatry

**14. RAN translation, ruby slippers, and disease**

**Presenter:** Dr. Laura Ranum (Ranum/Swanson Labs), Molecular Genetics & Microbiology

**Co-authors:** Tao Zu, John D Cleary, Yanjing Liu, Monica Banez-Coronel, Jodi Bubenik, Fatma Ayhan, Anthony T Yachnis Maurice Swanson

**15. rAAV-driven Alzheimer's disease inclusion pathology in brain slice cultures**

**Presenter:** Dr. Cara Croft (Golde Labs), Neuroscience

**16. Variance vs Velocity and Acceleration in the Hippocampus**

**Presenter:** Jack Kennedy (Maurer Lab), Neuroscience

**17. Visualizing your Research**

**Presenter:** Elaina Buffkin (Golde/DeLeon Labs), Neuroscience and Anthropology

**18. C. elegans seam cell as a model to study stem cell biology**

**Presenter:** Yi Sheng (Xiao Lab), Department of Aging & Geriatric Research

**19. Title: What allows for us to orient to novel stimuli?**

**Presenter:** Dr. Luke Stetzk (Wesson Lab), Pharmacology and Therapeutics

**20. RNA-Nanoparticles in Brain Tumors**

**Presenter:** Dr. Adam Grippin (D Mitchell Lab), Neurosurgery

**Co-authors:** Hector Mendez-Gomez, Elias Sayour, and Duane Mitchell

**21. Novel Mouse Models of tauopathy**

**Presenter:** Dr. Paramita Chakrabarty, Neuroscience

**Co-authors:** Emily J Koller, Elsa Gonzalez De La Cruz, Timothy A Machula, Katherine D Gaines, Kristen R Ibanez, Cara J Riffe, Daniel Ryu, Xuefei Liu, Kevin H Strang, Christopher Janus, Todd E Golde, Benoit I Giasson

**22. Title: A widespread visually-sensitive functional network in essential tremor**

**Presenter:** Dr. Derek Archer (Vaillancourt Lab), Health and Human Performance

**Co-Authors:** Stephen A. Coombes, Winston T. Chu, Jae Woo Chung, Roxana G. Burciu, Michael S. Okun, Aparna Wagle Shukla, David E. Vaillancourt

**23. EnCor Biotechnology Inc: A fairly useful local company**

**Presenter:** Dr. Gerry Shaw, Encor

**24. Posterior Cortical Atrophy with Vertical Egocentric Quadrantic Visual Neglect**

**Presenter:** Dr. Ken Heilman, Neurology