

# VAN LIERE RESEARCH CONFERENCE

THURSDAY, MARCH 21

OFFICE OF RESEARCH AND GRADUATE EDUCATION  
ROBERT C. BYRD HEALTH SCIENCES CENTER

11:30: Box lunches outside of BMRC conference rooms

## Noon: Session 1

### G01 BMRC: Clinical/Translational Science Scholars

- 12:00: **Amelia Adcock, M.D.** *Neuromodulation in Post Stroke Depression; Using an old tool to forge a new path forward?*
- 12:10: **Liz Engler-Chiurazzi, Ph.D.** *B cell deficiency is associated with a depressive-like phenotype in mice*
- 12:20: **Rashi Mehta, M.D.** *Intravascular polymer coating deposition during endovascular therapy*
- 12:30: **Cassie Brode, Ph.D.** *Bariatric surgery research*
- 12:40: **James Mahoney, Ph.D.** *Transcranial Magnetic Stimulation as an Adjunctive for Opioid and Polysubstance Use Disorder*

### 101 BMRC: HSC Research Highlights-Excellence Across Five Schools

- 12:00: **Brian Hendricks, Ph.D.,  
School of Public Health** *Beyond Mapping: Spatial Epidemiology-A valuable tool to address West Virginia's Health Disparities*
- 12:20: **Wei Du, M.D./Ph.D.,  
School of Pharmacy** *Targeting cdc42 for long-term hematopoietic stem cell mobilization & engraftment*
- 12:40: **Heath Damron, Ph.D.,  
School of Medicine** *Vaccines Developed by Mountaineers*

### 201 BMRC: Conference Presentation Highlights

- 12:00: **Hannah Wilson** *Breast cancer and muscle fatigue: novel targets to improve survival and quality of life*  
Cancer Cell Biology, Advisor: Emidio Pistilli, Ph.D.
- 12:10: **Eiman Aboaziza** *Vaping during Pregnancy*  
Clinical Translational Science, Advisor: Mark Olfert, Ph.D.
- 12:20: **Samuel Sprowls** *Ionizing radiation disrupts the blood-tumor barrier in a preclinical model of brain metastasis of breast cancer*  
Basic Pharmaceutical Sciences, Advisor: Paul Lockman, Ph.D.
- 12:30: **Andrya Durr** *Speckle-tracking Echocardiography Identifies Early Segmental Abnormalities Preceding Overt Cardiac Dysfunction in a db/db Mouse Model*  
Exercise Physiology, Advisor: John Hollander, Ph.D.
- 12:40: **Shannon Barth** *Early life adversity and suicide ideation and attempt among veterans in post-secondary education*  
Epidemiology, Advisor: Robert Bossarte, Ph.D.

### 301 Biomedical Sciences PhD Students

- 12:00: **Daniella Munezero** *The Exocyst protein complex is essential for Vision*  
Basic Pharmaceutical Sciences, Advisor: Visvanathan Ramamurthy, Ph.D.
- 12:10: **Savannah Sims** *Janus Kinase (JAK) 1 drives ER stress-induced gene expression in astrocytes*  
Microbiology, Immunology & Cell Biology, Advisor: Gordon Meares, Ph.D.
- 12:20: **Tanya Dilan** *ARL13B, a small GTPase, is needed for photoreceptor outer segment development, Rhodopsin trafficking and retinogenesis*  
Biochemistry & Molecular Biology, Advisor: Visvanathan Ramamurthy, Ph.D.
- 12:30: **Kayla Steinberger** *HIF-1 $\alpha$  regulates the Tie2 receptor on Tie2-expressing monocytes and perturbs Angiogenic function in breast cancer*  
Microbiology, Immunology & Cell Biology, Advisor: Timothy Eubank, Ph.D.
- 12:40: **Emily Burrage** *Xanthine Oxidase Mediates Cerebrovascular Function Impairment in Chronically Stressed Mice*  
Neuroscience, Advisor: Paul Chantler, Ph.D.

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## 1:00PM: Session 2

### G01 BMRC: Clinical/Translational Science Presentations

- 1:00: **Carrie Moore, M.D.** *Congenital Microcephaly: What contributes to small heads?*  
Department of Pediatrics, Advisor: Alicia Moise, M.D.
- 1:10: **Sundus Lateef** *High Energy beams: science fiction, or a better way to treat brain cancer?*  
Basic Pharmaceutical Sciences, Advisor: Paul Lockman, Ph.D.
- 1:20: **Jacob Mascaro** *Electrolysis as a Potential Treatment for Biofilm Removal in Total Knee Arthroplasty*  
Medicine, Advisor: Matthew Dietz, M.D.
- 1:30: **Jessica Frey, M.D.** *NoT SAD: Accelerated Transcranial Magnetic Stimulation (TMS) for Post-stroke Depression (PSD)*  
Department of Neurology, Advisor: James Simpkins, Ph.D.
- 1:40: **Jayeshkumar Patel** *What contributes to the poor health-related quality of life among long-term opioid users?*  
Pharmaceutical Systems and Policy, Advisor: Usha Sambamoorthi, Ph.D.

### 101 BMRC: HSC Research Highlights-Excellence Across Five Schools

- 1:00: **Fotinos Panagakos, D.M.D, Ph.D.** *School of Dentistry Research Update: Enhancing Engagement and Opportunities*
- 1:20: **Joy Buck, Ph.D.** *School of Nursing Highlights: Reducing Drug-related Harm through Translational Research and Collaborative Action*

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Epidemiology Advisor : Robert Bossarte, Ph.D.

### 301 BMRC: Biomedical Sciences PhD Students

- 1:00: **Tayvia Brownmiller** *The Importance of the Lnc-SPRY3 Family in Male Non-small Cell Lung Cancer Therapeutic Response*  
Cancer Cell Biology, Advisor: Ivan Martinez, Ph.D.
- 1:10: **Brenen Papenberg** *Identification of a Tobacco-Specific Molecular Signature Associated with Disparate Appalachian HNSCC*  
Cancer Cell Biology, Advisor: Scott Weed, Ph.D.
- 1:20: **Skye Hickling** *JNK acts as an internal compass for migrating cortical interneurons*  
Biochemistry & Molecular Biology, Advisor: Eric Tucker, Ph.D.
- 1:30: **Divine Nwafor** *Polymicrobial Infection Exacerbates Neuroinflammation and Worsens Alzheimer's Associated Loss in Female Alzheimer's Disease Transgenic Mice Model*  
Neuroscience, Advisor: Candice Brown, Ph.D.
- 1:40: **Kelly Fraser** *Health Effects of Carbon Nanotubes and Carbon Nanofibers: Does One Size Fit All?*  
Basic Pharmaceutical Sciences, Advisor: Aaron Erdely, Ph.D.

