Twenty-Seventh Annual Research Symposium

March 17, 2016
Blacksburg, Virginia
## Program at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00</td>
<td>Registration and Continental Breakfast</td>
</tr>
<tr>
<td>8:00</td>
<td>Welcome &amp; Introduction</td>
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<tr>
<td>8:15</td>
<td>Session I: Masters Student Presentations</td>
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<tr>
<td>10:00</td>
<td>Student Poster Presentations and Break</td>
</tr>
<tr>
<td>11:00</td>
<td>Keynote Speaker, Dr. Sandra Armstrong</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
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<tr>
<td>1:00</td>
<td>Session II: Ph.D. Student Presentations</td>
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<tr>
<td>2:00</td>
<td>Student Poster Presentations and Break</td>
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<tr>
<td>3:00</td>
<td>Session III: Ph.D. Student Presentations</td>
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<tr>
<td>6:00</td>
<td>Banquet Registration – Inn at Virginia Tech</td>
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<tr>
<td>6:30</td>
<td>Banquet Dinner and Award Ceremony</td>
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*Oral Presentations & Keynote Speaker - Classroom 102
*Poster Presentations - CVM Student Lounge

### Session III – Ph.D. Student Presentations

#### Chair: Thomas Brickler

**Shaohua Lei**  
Human Norovirus Infectivity Is Inhibited By Enterobacter Cloacae and Promoted By RAG2/IL2RG Deficiency

**Tracee Popielarczyk**  
Biomimetic Nanofiber Scaffolds Direct the Tenocytic Differentiation of Mesenchymal Stem Cells

**Miranda Vieson**  
Deep Sequencing Analysis of RNA in the Bone Marrow Following Pharmacologic Inhibition of Histone Deacetylase 6 in Diseased NZB/W F1 Mice

**Ruoxi Yuan**  
Dynamic Programming of Innate Immunity in Health and Disease

### Banquet Registration – Inn at Virginia Tech

**Banquet and Award Presentations**  
Graduate Student Awards  
Research Staff Awards  
Zoetis Award for Research Excellence
Session II: Ph.D. Student Presentations

Chair: Steven Waldrop

1:00

Thomas Brickler
Arteriogenesis as a Therapeutic Target for Traumatic Brain Injury

1:15

Qian Cao
The Non-Structural Protein Nsp2TF Of Porcine Reproductive and Respiratory Syndrome Virus Down-Regulates the Expression of Swine Leukocyte Antigen Class I

1:30

Tammy Castellucci
Use of the Anti-Secretory Drug, Racecadotril, for Treatment of Rotavirus Diarrhea in a Neonatal Gnotobiotic Pig Model

1:45

Nargesalsadat Dorratoltaj
Mathematical Modeling of HIV Viral Dynamics and Immune Response during Antiretroviral Treatment

2:00

Student Poster Presentations and Break

Poster Presenters

Poster Session 10:00

Bogers, Sophie
Catanzaro, Nicholas
Coutermarsh-Ott, Sheryl
Disney, Julia, MS
Edwards, Michael
Groom, Lauren, MS
Gudenschwager, Kristobal
Kang, Gloria
King, Jamie, MS
Liao, Xiafeng
McKell, Allison
Menciotti, Giulio
Nichols, Anne
Payne, Laura
Qin, Qizhi
Ramesh, Ashwin
Saleh, Meriam
Seward, Marion, MS
Twitchell, Erica
Venkatachalam, Backiya, MS
Villafranca, Maria Cristina
Williamson, Allan, MS

Poster Session 2:30

Aherne, Michael, MS
Awaysheh, Abdullah
Budnick, James
Chen, Miao
Eden, Kristin
Ernst, Marigold
Fagan, Erin, MS
Ives, Angela
Jue, Nathaniel, MS
Ledford, Benjamin
McDaniel, Dylan
Menarim, Bruno
Mu, Qinghui
Muro, Noelle, MS
Okyere, Benjamin
Petruzzi, Briana
Rajpar, Ibtesam
Rothschild, Daniel
Sheehan, Lauren
Trahan, Richard, MS
Waldrop, Grant
Wentworth-Morre, Wendy, MS
Yugo, Danielle

University of Maryland
Kavita Sharma
Susan Park Ochsner
## Detailed Program Schedule

**Thursday, March 17, 2016**

### 7:00

**Registration and Continental Breakfast**

### 8:00

**Welcome & Introduction**
Dean Clarke & Dr. Roger Avery, Senior Associate
Dean for Research and Graduate Studies, VMCVM

**Session I: Clinical & Basic Science MS**

**Student Presentations**

Chair: Miranda Vieson

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<tr>
<td>8:15</td>
<td>Adrian Castaneda</td>
<td>Treatment with a Selective HDAC6 Inhibitor Decreases Hallmarks of Disease in Two Murine Mouse Models</td>
</tr>
<tr>
<td>8:30</td>
<td>Elsa Ludwig</td>
<td>Serum and Synovial Fluid Serum Amyloid A as an Aid in Confirming Synovial Sepsis in the Horse</td>
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<tr>
<td>8:45</td>
<td>Nicholas Parkinson</td>
<td>Endotoxin-Induced MicroRNA Expression in Equine Peripheral Blood Mononuclear Cells</td>
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<tr>
<td>9:00</td>
<td>Amy Santonastaso</td>
<td>Can Levamisole Upregulate the Equine Cell-Mediated Immune Response in Vitro</td>
</tr>
<tr>
<td>9:15</td>
<td>Dominique Sawyere</td>
<td>Cytokine and Growth Factor Profiles in Healthy Canine Autologous Conditioned Serum</td>
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### 9:30

**Jessica Stahle**

Diffusion Weighted MR Imaging in the Differentiation between Metastatic and Benign Regional Lymph Nodes in Canine Patients with Head and Neck Disease

### 9:45

**Vincent Ziglioli**

Normalization of the Hypothalamic-Pituitary-Thyroid Axis After Levothyroxine Supplementation in Euthyroid Dogs

### 10:00

**Student Poster Presentations and Break**

### 11:00

**Keynote Speaker**

**Sandra Armstrong, PhD**

University of Minnesota
Department of Microbiology and Immunology
Microbiology Research Facility

* Bordetella Iron Acquisition: Making a Living in the Host

### 12:00

**Lunch**