**Host:** Oklahoma Medical Research Foundation (OMRF)

**Organizing Committee:**
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**Advisory Committee:**

**Meeting Secretary:** Mia Pederson-Rambo, Mia-Pederson-Rambo@omrf.org, (405) 271-7048

**Program:** Thursday, October 25, 2018

<table>
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<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00 – 8:00 AM</td>
<td>Registration, Lytle Foyer&lt;br&gt;Poster set up, Lytle Foyer&lt;br&gt;Breakfast, Conference Center A</td>
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<tr>
<td>8:00 – 8:10 AM</td>
<td>Conference Opening/Welcome Remarks&lt;br&gt;Lijun Xia/Rodger McEver, Wileman Auditorium</td>
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<tr>
<td>8:10 – 9:50 AM</td>
<td><strong>Session I: Biogenesis and Clearance</strong>&lt;br&gt;Wileman Auditorium&lt;br&gt;Chair: Gilbert White, MD (Blood Center of Wisconsin)&lt;br&gt;Rodger McEver, MD (OMRF)</td>
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<td>8:10 – 8:30 AM</td>
<td>Role of Platelet GPIbalpha in TPO Production&lt;br&gt;Heyu Ni, MD, PhD, University of Toronto</td>
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<td>8:30 – 8:50 AM</td>
<td>Mitochondria and platelet cell death&lt;br&gt;Shawn Jobe, MD, PhD, Blood Center of Wisconsin</td>
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<td>8:50 – 9:05 AM</td>
<td>Novel strategies for the use of CRISPR/Cas9 to edit the genes of IPs cells prior to their differentiation into megakaryocytes so as to generate platelets with improved hemostatic effectiveness&lt;br&gt;Alyssa Moroi, PhD, Blood Center of Wisconsin</td>
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<td>9:05 – 9:20 AM</td>
<td>Inter-individual differences in PAR4 activation&lt;br&gt;Benjamin Tourdot, PhD, University of Michigan Medical School</td>
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<td>9:20 – 9:35 AM</td>
<td>Role of somatic mutations and clonal thrombopoiesis in immune thrombocytopenia&lt;br&gt;Sami Ibrahimi, MD, Stephenson Cancer Center, University of Oklahoma Health Sciences Center</td>
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<td>9:35 – 9:50 AM</td>
<td>Exomes as a risk factor of cancer-associated thrombosis&lt;br&gt;Tejasv Dudiki, PhD, Cleveland Clinic</td>
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<td>9:50 – 10:05 AM</td>
<td>Coffee break - Conference Center A</td>
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<td>10:05 – 12:05 PM</td>
<td><strong>Session II: Adhesion, Aggregation, and Secretion</strong>&lt;br&gt;Wileman Auditorium&lt;br&gt;Chairs: Edward Plow, PhD (Cleveland Clinic – Lerner Research Institute), Peter Newman, PhD (Blood Center of Wisconsin)</td>
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<td>10:05 – 10:25 AM</td>
<td>GPIb-IX mechanosensory domain and Bernard-Soulier syndrome&lt;br&gt;Renhao Li, PhD, Emory University</td>
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<td>10:25 – 10:45 AM</td>
<td>The small GTPase Rap1 as a master regulator of platelet activation: from bench to clinic, and back&lt;br&gt;Wolfgang Bergmeier, PhD, University of North Carolina School of Medicine</td>
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<tr>
<td>10:45 – 11:05 AM</td>
<td>A specific phosphorylation event regulates the function of kindelin-3 in hematopoietic and non-hematopoietic cells&lt;br&gt;Edward Plow, MD, Cleveland Clinic</td>
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</tbody>
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11:05 – 11:20 AM Maternal anti-αIIb alloantibodies may disrupt hematopoietic stem cell migration and distribution in fetal and neonatal alloimmune thrombocytopenia  
Brigitta Elaine Oswald, MSc candidate, University of Toronto

11:20 – 11:35 AM Platelet Vesicle-Associated Membrane Proteins (VAMPs) control thrombosis and hemostasis  
Smita Joshi, PhD, University of Kentucky Lexington

11:35 – 11:50 AM New Mechanisms regulating platelet ROS generation  
M. Keegan Delaney, PhD, University of Illinois at Chicago

11:50 – 12:05 PM Stable isotope-resolved metabolomics (SIRM) reveals extensive metabolic reprogramming during platelet activation  
Qingjun Wang, PhD, University of Kentucky College of Medicine

12:05 – 2:00 PM Poster session, Lytle Foyer  
Lunch provided concurrently, Conference Center A

2:00 – 3:40 PM Session III: Platelet and Coagulation  
Wileman Auditorium  
Chairs: Charles Esmon, PhD (OMRF)  
James Morrissey, PhD (University of Michigan)

2:00 – 2:20 PM Platelet TFPIα: The function of an anticoagulant protein in a procoagulant cell  
Alan Mast, PhD, Blood Research Institute/Blood Center of Wisconsin

2:20 – 2:40 PM Plasma and platelet FXIII in venous thrombosis  
Alisa S. Wolberg, PhD, UNC School of Medicine at Chapel Hill

2:40 – 2:55 PM Inorganic polyphosphate amplifies HMGB1-mediated von Willebrand factor release and platelet string formation on endothelial cells  
Indranil Biswas, PhD, OMRF

2:55 – 3:10 PM The role of platelet-derived polyphosphate in coagulation  
Stephanie Smith, PhD, University of Michigan

3:10 – 3:25 PM Determining the role of platelets in the pathogenesis of venous thrombosis (VT)  
Jean Marie Mwiza, PhD candidate, University of North Carolina

3:25 – 3:40 PM Platelet specific deletion of UCP-2 reduces frequency of thrombus formation  
Rhonda Souvenir, PhD, University of Iowa, Carver College of Medicine

3:40 – 3:55 PM Coffee break - Conference Center A

3:55 – 5:15 PM α-granule cargo release is initiated by SNARE-dependent matrix decondensation in mouse platelets  
Brian Storrie, PhD, University of Arkansas for Medical Sciences

5:15 – 5:30 PM Ticagrelor reduces thromboinflammatory markers in patients with pneumonia  
Travis Sexton, PhD, University of Kentucky College of Medicine

5:30 – 5:45 PM Targeting thymidine phosphorylase for thrombotic diseases: How far are we?  
Wei Li, MD, PhD, Marshall University Joan C. Edwards School of Medicine

6:00 – 9:00 PM Conference Reception/Dinner at Oklahoma’s National Cowboy & Western History Museum

Friday, October 26, 2018

7:00 – 8:00 AM Registration, Lytle Foyer  
Poster Session, Lytle Foyer  
Breakfast, Conference Center A

8:00 – 9:50 AM Session V: Platelets, Diseases, and Translational Research, Wileman Auditorium  
Chairs: James George, MD (University of Oklahoma), Susan Smyth, MD, PhD (University of Kentucky)

8:00 – 8:20 AM Pathogenesis of Thrombotic Microangiopathy  
X. Long Zheng, MD, PhD, The University of Alabama Birmingham

8:20 – 8:40 AM Platelets and the Progression of Ovarian Cancer  
Vahid Afshar-Kharghan, MD, University of Texas MD Anderson Cancer Center

8:40 – 9:00 AM Inflammation regulates platelet gene expression and function.  
Matthew Rondina, MD, University of Utah Health Sciences Center

9:00 – 9:20 PM Autocrine activation of human platelets by epidermal growth factor and EGF receptor-dependent tumorigenesis  
Thomas McIntyre, PhD, Lerner Research Institute, Cleveland Clinic
9:20 – 9:35 PM  Targeting 12-LOX for limiting thrombosis without significant effects on bleeding.  Reheman Adili, MD, University of Michigan Medical School

9:35 – 9:50 PM  Increased activated platelet binding to T cells in lung cancer patients is correlated with history of thrombosis  Claire Meikle, MD, PhD candidate, University of Toledo College of Medicine

9:50 – 10:05 AM  Coffee break - Conference Center A

10:05 – 11:40 AM  Session VI: Emerging Trends  Wileman Auditorium  Chairs: Leslie Parise, PhD (UNC at Chapel Hill), Nigel Mackman, PhD (UNC at Chapel Hill)

10:05 – 10:25 AM  Inflammasome activation triggers DIC: a novel mechanism of thrombocytopenia in sepsis  Zhenyu Li, MD, PhD, University of Kentucky College of Medicine

10:25 – 10:45 AM  Analysis of protease activated receptor mechanism by hydrogen deuterium exchange  Marvin Nieman, PhD, Case Western Reserve University

10:45 – 11:05 AM  Phenotyping platelets in hemodynamic settings of thrombosis and hemostasis  Scott Diamond, PhD, University of Pennsylvania

11:05 – 11:25 AM  Platelet TGF-β in aortic valve fibrosis  Jasim Ahamed, PhD, OMRF

11:25 – 11:40 AM  Identification of highly conserved ADAMTS-13 domains essential for allosteric regulation using phylogenetic and functional analysis  Joshua Muia, PhD, Washington University School of Medicine, St. Louis

11:40 – 11:55 AM  Closing Remarks/Adjourn  Wileman Auditorium  Boxed lunch provided - Conference Center A