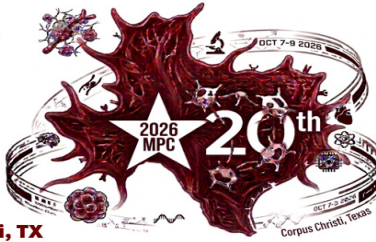


20th MIDWEST PLATELET CONFERENCE

Oct 7-9, 2026, Corpus Christi, TX

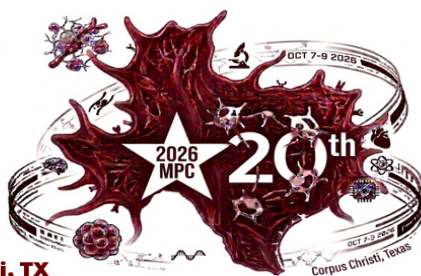


Conference Sponsors



20th MIDWEST PLATELET CONFERENCE

Oct 7-9, 2026, Corpus Christi, TX



Conference Program

Wednesday, October 7, 2026

5:00-8:30PM

Registration

6:30-8:30pm

SCIENTIFIC SESSION 1: *The Bio-Engineering Frontier & New Approach Methodologies (NAMs)*

Co-Chairs/Moderators:

Lijun Xia and Debra Newman

15 min/5 min

Heyu Ni (University of Toronto)

Crosstalk Between Platelets and Immune System: A Story of Atorvastatin

15 min/5 min

Anandi Krishnan (Rutgers University)

The Versatile Platelet: a Bridge to Translational Medicine

15 min/5 min

Abhishek Jain (Texas A&M University)

Platelets-on-Chip: Hemostasis to Immunomodulatory Functions in Thrombosis and Cancer Models

15 min/5 min

Emily P. Mihalko (University of Pittsburgh)

Functional Platelet Phenotyping Under Flow to Assess Hemostatic Dysfunction and Rescue

15 min/5 min

Marie Hollenhorst (Harvard Medical School)

Glycoantigens in Immune-Mediated Platelet Disorders

8 min/2 min

Krista Hilmas (Abstract Presenter; NC State University and UNC)

Sexual Dimorphism in PLP-mediated Clotting Mechanics

8 min/2 min

Yan Zhang Trainee (Abstract Presenter; Texas A&M University)

The cGAS-STING Axis Regulates Platelet Activation and Thrombosis

8:30-10:30pm

RECEPTION and POSTER SESSION 1

Thursday, October 8, 2026

6:15- 7:00am "Sunrise Yoga/Run" on the beach for early-rising attendees.

6:30-8:00am Breakfast (Omni Hotel Breakfast Room)

7:00-8:00am Registration

8:00-8:20am **Conference Welcome**

Dr. Indra Reddy, Vice President/Chief Operating Officer of Health Science Center, Texas A&M University, and **Dr. Mansoor Khan**, Dean of Irma Lerma Rangel College of Pharmacy

8:20-10:00am SCIENTIFIC SESSION 2: Platelet Signaling, Thrombopoiesis, and Activation

Co-Chairs/Moderators: **Bojing Shao and Qingchao Qiu**

15 min/5min

Sidney (Wally) Whiteheart (University of Kentucky)

Platelet "Cell Biology" is Surprising: Roles for Secretion, Endocytosis, and Bioenergetics in Hemostasis and Beyond

15 min/5 min

Randal Westrick (Oakland University)

Arl6ip5 Deficiency Protects Against Thrombosis and Results in a Mouse Hyperventilation Phenotype

15 min/5 min

Hervé Falet (Versiti)

Novel Insights into Platelet and Megakaryocyte Integrin $\beta 1$ Regulation by PACSIN2

15 min/5 min

Liang Zheng (University of Kansas)

ANKRD26 Regulation and Platelet Homeostasis

8 min/2 min

Andrew Mack (Abstract Presenter; University of Illinois at Chicago)

Activation of FAK and PYK2 by Reactive Oxygen Species in Platelets and their Roles in Mediating Integrin Outside-in Signaling

8 min/2 min

Yizhi Jiang (Abstract Presenter; Oklahoma Medical Research Foundation)

Platelet GNE Regulates Thrombopoiesis and Platelet Clearance

10:00-10:30am

Networking/Coffee Break

10:30am-12:00pm	SCIENTIFIC SESSION 3: The Platelet-Metabolic Nexus
<i>Co-Chairs/Moderators:</i>	Jesse Rowley and Yana Roka-Moiia
15 min/5 min	Sanjana Dayal (University of Iowa) <i>Protective Mechanisms of Age-associated Platelet Activation and Thrombosis</i>
15 min/5 min	Maria Barrachina (Nationwide Children's Hospital) <i>Lipid Landscapes of Thrombopoiesis: How Saturated Fat Reshapes Platelet Formation and Function</i>
15 min/5 min	Wei Li (Marshall University) <i>Teaching an Old Dog New Tricks: Emerging Roles of Na/K Homeostasis and Sex Hormones in Thrombotic Disease</i>
15 min/5 min	Tyler Benson (University of Cincinnati) <i>Intraluminal Thrombus Growth, Platelet Activation, and Progression of Abdominal Aortic Aneurysms</i>
8 min/2 min	Olamilekan George (<u>Abstract Presenter</u> ; Medical College of Wisconsin) <i>DAZAP2 is a Novel ADAMTS7-Interacting Protein Expressed in Human and Murine Platelets</i>
12:00-12:10pm	Lunch Transition Time
12:10-1:00pm	Lunch & Career Development/Options Workshop
<i>Co-Chairs/Moderators:</i>	Congqing Wu and Melissa Jauquet
12 min	Transitioning to Independence (Ze Zheng , Versiti)
12 min	Industry and Academia Partnerships (Beth Bouchard , Prolytix)
12 min	Federal Government (Peter Newman , Versiti)
15 min	Panel Discussion/Questions
1:00-2:00pm	POSTER SESSION 2
2:00-3:30pm	SCIENTIFIC SESSION 4: Platelet Architects of Disease I
<i>Co-Chairs/Moderators:</i>	Mark Larson and Abigail Kordeliski
15min/5 min	Jaehyung Cho (Washington University St. Louis) <i>The Paradox of Hypoxia in Platelet Activation and Arterial Thrombosis</i>

- 15 min/5 min **Shahnaz Qadri** (Texas A&M University)
Environmental Sensing by Platelet Ion Channels: Emerging Roles in Homeostasis and Thrombosis
- 15 min/5 min **Anu Aggarwal** (Cleveland Clinic)
The Mechanism of Thrombosis in Fibromuscular Dysplasia
- 15 min/5 min **Robert Lee** (University of North Carolina at Chapel Hill)
Impact of Injury Compression on Hemostatic Plug Formation in Mouse Models of Platelet Dysfunction
- 8 min/2 min **Abigail Ajanel** (Abstract Presenter; Washington University in Saint Louis)
The role of PEAR1 in Platelet Function in Aging

3:30-3:50pm Networking Break

3:50-5:40pm SCIENTIFIC SESSION 5: Platelet Architects of Disease II

Co-Chairs/Moderators: **Brian Storrie and Aroub Alfraihat**

- 15 min/5 min **Xiaoping Du** (University of Illinois at Chicago)
New Roles of Platelets and G13-integrin Interaction in Thrombo-inflammatory Diseases
- 15 min/5 min **X. Long Zheng** (University of Kansas)
Novel Therapeutics for TTP
- 15 min/5 min **Ishac Nazy** (McMaster University)
Beyond HIT: The Emerging Spectrum of Thrombotic Anti-PF4 Immune Disorders
- 15 min/5 min **Jasim Ahamed** (Oklahoma Medical Research Foundation)
Role of Platelet TGF-beta1 in Normal and Disease States
- 15 min/5 min **James Michael** (Thomas Jefferson University)
Emerging Inflammatory Mechanisms that Drive Heparin-induced Thrombocytopenia
- 8 min/2 min **Sravva Nimmala** (Abstract Presenter; Oakland University)
Regulation of TLT-1 Ectodomain Shedding: A PKC ADAM10/17 Signaling Axis in Platelet Biology

6:00pm Transportation to USS Lexington Via Bus

6:45-10:45pm

20th Anniversary Banquet & Reception (USS Lexington)

History of the USS Lexington

Celebration of 20th MPC: Remarks by Peter Newman (Versiti)

Friday, October 9, 2026

6:30-8:00am Breakfast (Omni Hotel Breakfast Room)

8:00-10:00am

SCIENTIFIC SESSION 6: Novel Antiplatelets and Advanced Technologies

Co-Chairs/Moderators: **Joshua Muia and Alexander Dupuy**

15min/5min

Renren Wen (Versiti)

Prothrombotic B-cell Responses: Friend or Foe

15min/5min

Michael Holinstat (University of Michigan)

Targeting the Platelet for Prevention and Treatment of Rare Microvascular Thrombotic Diseases

15min/5min

Andrew Yee (Baylor College of Medicine)

Dissecting Ligands of Platelet Receptors

15min/5min

Rajan Sah (Washington University)

Mechanoelectrical Regulation of Purinergic Signaling in Platelets: A Novel Therapeutic Target

15min/5min

Xu Han (Case Western Reserve University)

Towards the Structural-Omics of Platelet Membrane Proteins

15 min/5 min

Elizabeth (Beth) Middleton (University of Utah)

The Cell Behind the Platelet: Megakaryocytes in Lung Injury.

10:00-10:30am

Networking Break & 21st Midwest Platelet Conference Presentation of Host Sites/Voting

10:30am-12:00pm

SCIENTIFIC SESSION 7: Hot Topics (Top Scoring Trainee Abstracts)

Chair/Moderator:

Yunfeng Chen

12min/3min

Caitlin Schneider (Michigan State University)

Resolution of Experimental Acute Liver Injury is Accelerated by Targeting VWF-Platelet Interactions

- 12min/3min **Anthony Sloan** (Cleveland Clinic)
A Sex-Specific Platelet Switch Controls Anti-Tumor Immunity in Glioblastoma
- 12min/3min **Sadia Kamal** (Texas A&M University)
Paternal Thirdhand Cigarette Smoke and Electronic Waterpipe Vapor Exposure and Platelet Dysfunction in Offspring Mice
- 12min/3min **Shayan Mohammadmoradi** (University of Kentucky)
Same Platelet, Different Disease: The Circulating Platelet Transcriptome Encodes an Insult-Specific Fingerprint Across Cardiovascular and Metabolic Disease
- 12min/3min **Kamal Kumar** (University of Utah)
Loss of Mitochondrial Fission Protein Fis1 Impairs Platelet Function Despite Preserved Mitochondrial Morphology
- 12min/3min **Nuoya Peng** (Versiti)
Platelets Transfer Functional mRNA Cargo to Other Cells During Thrombosis

12:00-12:30pm **Closing Remarks, Boxed Lunch (To Go) & Awards Presentation**
Awards Presentation

Poster Presentations*

October 7: 8:30-10:30pm and October 8: 1:00-2:00pm

***Presenters must be present for both sessions**

Poster	Name	Abstract Title
1	Ajanel, Abigail	The Role of PEAR1 in Platelet Function in Aging
2	Alarabi, Ahmed	Platelet Releasate from Patients with Myocardial Infarction Remodels Alternative Splicing in Human Coronary Artery Endothelial Cells: Bioinformatic Analysis
3	Alfraihat, Aroub	From Father to Offspring: Paternal Exposure to Conventional and Emerging Tobacco Products Drives Intergenerational Thrombosis and Platelet Dysfunction
4	Ali, Hamdy	Paternal E-Hookah Exposure Induces a Prothrombotic Phenotype in Offspring through Alterations in Platelet Transcriptome: An Exploration of Intergenerational Epigenetic Mechanisms
5	Amanfo, Adwoa	RGS16 Serves as a Platelet-Intrinsic Brake on Platelet Activation and Thrombus Formation
6	Andrianova, Izabella	A Possible Role of CD38 in a Platelet Activity for a Common Racially Diverse PAR4 Variant
7	Araujo, Gabriel	PP1 β Regulates Actomyosin Dynamics and Megakaryocyte Maturation Required for Platelet Production
8	Bai, Yanyan	Comparative and Additive Effects of a New Anti-Platelet Agent without Bleeding with Current Anti-Platelet Drugs in Treating Myocardial Ischemia-Reperfusion Injury
9	Ballard-Kordeliski, Abigail	Platelet Hyperactivity in a Murine Model of Preeclampsia
10	Chai, Zhuodong	Dissecting the Myeloid-Driven Immune Regulators in Persistent Autoimmune Coagulopathy Following COVID-19 Infection
11	Dunn, Emily	NBEAL2 Deficiency Drives Early Abdominal Aortic Aneurysm Rupture in Males and Overrides Female Protection
12	George, Olamilekan	DAZAP2 is a Novel ADAMTS7-Interacting Protein Expressed in Human and Murine Platelets
13	Hajimirzaei, Sahelosadat	Platelets in Pulmonary Fibrosis: Protective Ally or Pathogenic Driver?
14	Hein, Sofia	Investigation of Platelet Reactivity Across Diverse Populations and Development of a Personalized Polyunsaturated Fatty Acid Therapeutic Model
15	Hilmas, Krista	Sexual Dimorphism in PLP-Mediated Clotting Mechanics
16	Hossain, Sukria	Identification of YdcS as a Novel Virulence Factor in <i>Escherichia coli</i> Pathogenesis
17	Huynh, Khanh	Endocytosis-Dependent Potassium Efflux Activates NLRP3 and Promotes Thromboinflammation During <i>Klebsiella pneumoniae</i> Infection
18	Jauquet, Melissa	A Quantitative Fibrinolysis Assay to Investigate the Roles of Platelets and von Willebrand Factor in Tissue-Type Plasminogen Activator Resistance to Fibrinolysis
19	Jiang, Yizhi	Platelet GNE Regulates Thrombopoiesis and Platelet Clearance

Poster	Name	Abstract Title
20	Jones, Curtis	Long-Term Stable Functionally Competent Cryopreserved Platelets for Platelet Research
21	Kadu, Kavita	Tunable Fabrication of 2D Layered Magnesium Nanosilicates with Hemostatic Properties
22	Kamal, Sadia	Paternal Thirdhand Cigarette Smoke and Electronic Waterpipe Vapor Exposure and Platelet Dysfunction in Offspring Mice
23	Kumar, Kamal	Loss of Mitochondrial Fission Protein Fis1 Impairs Platelet Function Despite Preserved Mitochondrial Morphology
24	Mack, Andrew	Activation of FAK and PYK2 by Reactive Oxygen Species in Platelets and Their Roles in Mediating Integrin Outside-in Signaling
25	Mehrpour-Karmakan, Narges	Role of Protein S in Myeloproliferative Neoplasms Hypercoagulable State
26	Mohammadmoradi, Shayan	Same Platelet, Different Disease: The Circulating Platelet Transcriptome Encodes an Insult-Specific Fingerprint Across Cardiovascular and Metabolic Disease
27	Nimmala, Sravya	Regulation of TLT-1 Ectodomain Shedding: A PKC ADAM10/17 Signaling Axis in Platelet Biology
28	Onunkun, Afolashade	Clopidogrel Disrupts Blood-Brain Barrier Integrity in Hypertensive Mice
29	Peng, Nuoya	Platelets Transfer Functional mRNA Cargo to Other Cells During Thrombosis
30	Qiu, Qingchao	Platelet C1N85 Deficiency Attenuates Venous Thrombosis and Dampens Immunothrombotic Mediators in a Mouse IVC Stenosis Model
31	Ramezanpour, Nahid	The Role of the Exon 7–Encoded Insert in Syk Interdomain B in Platelet Function
32	Roka Moiiia, Yana	Remodeling Platelet Surface Glycosylation via Upregulation of α IIb β 3 & GPVI on Activated Platelets: Think Horses, Not Zebras
33	Rousseau, Zackary	Platelet CLEC-2 Activation Leads to GPIIb/IIIa Shedding: implications for Doxorubicin Chemotherapy and Thrombosis
34	Sah, Rajan	LRRC8 Complexes Are ATP Release Channels Regulating Platelet Activation and Arterial Thrombosis
35	Schneider, Caitlin	Resolution of Experimental Acute Liver Injury Is Accelerated by Targeting VWF-Platelet Interactions
36	Shao, Bojing	Calcium Influx-Independent Function of P2X1 in Platelet Activation
37	Sloan, Anthony	Platelets Regulate Glioblastoma Growth and Immunity via Sex-Dependent PAR4 - Estrogen Receptor Beta Signaling
38	Smith, Alexis	Fibrinogen is Associated with ApoB/LDL in Plasma and in Platelets

Poster	Name	Abstract Title
39	Storrie, Brian	Probing Structural Effects on Puncture Wound Thrombus Formation of Individual Gene Knockouts and Specific Inhibitors of Platelet Activation and Adherence
40	Suresh, Sreelakshmy	Shear and IL-6 Control Platelet and Fibrin Deposition on SARS-CoV-2-Exposed Human Endothelium in Vessel-Chips
41	Tan, Xuqian	EnsembleSeg-Plt: CryoET Segmentation Tool for All Platelet Organelles
42	Tranter, John David	Investigating the Functional Contributions of LRRC8 Channel Subunits to Platelet ATP Release and Function
43	Wang, Qingjun	Glucose-6-Phosphate Dehydrogenase Regulates Platelet Redox Signaling and Function
44	Wang, Zhaohui	Overcoming Time-Sensitivity Challenge - A Novel Platelet Protection Tube
45	Wu, Bocheng	Discovery of Small Molecule Regulators of vWF-A1 Domain as Potential Anti-Thrombosis Drugs
46	Yang, Ling	Mitochondria Coordinate NAIP/NLRC4 Inflammasome Signaling and Inflammatory Cell Death
47	Zhang, Nanyan	Development of Chimeric Autoantibody Receptor T Cells for GPIIb-IIIa-Specific B Cell Depletion in Immune Thrombocytopenia
48	Zhang, Yan	The cGAS-STING Axis Regulates Platelet Activation and Thrombosis
49	Zhang, Yaping	A Critical Role of Lyn in the Crosstalk Between GPIb-IX and Collagen Receptor GPVI in Platelet Response to Collagen
50	Zheng, Kaiwen	The Role of Metabolic Plasticity and Mitochondrial Bioenergetics in Platelet Clot Contraction
51	Zhi, Huiying	A Functionally Distinct HPA-1a-Specific Alloantibody Derived from a Woman Who Gave Birth to Infants Suffering with Fetal/Neonatal Alloimmune Thrombocytopenia Activates Platelets via FcγRIIa