



Vascular Research Initiatives Conference (VRIC) 2023

Structural and Immune Cells in Vascular Disease

*SVS Foundation Vascular Research Initiatives Conference Trainee Awardee

**Resident Research Awardee

Full presentations – 8 minutes, 5-minute presentations with 3 minutes of discussion

Quick shot presentations – 6 minutes, 3-minute presentations with 3 minutes of discussion

WEDNESDAY, MAY 10, 2023

ROOM

6:00 AM ORAL PRESENTATION DROP-OFF / POSTER PICK-UP GRAND BALLROOM SALON G

7:00 AM REGISTRATION AND CONTINENTAL BREAKFAST GRAND BALLROOM SALON G

8:00 AM INTRODUCTORY REMARKS GRAND BALLROOM SALON G

Katherine A. Gallagher, MD, Chair, SVS Basic and Translational Research Committee
Alan Dardik, MD, PhD, Editor, JVS-Vascular Science

8:13 AM ABSTRACT SESSION I - VENOUS DISEASE AND NOVEL DEVICES

Moderator: Luke Packard Brewster, MD, PhD
Moderator: Andrea Obi, MD

8:15 AM **Monocyte Toll-like Receptor 4 (tlr4) Signaling Is Essential For Post Thrombotic uPA Expression**
Full
Sriganesh Sharma, **Kiran Kumar (presenting)**, Sharika Bamezai, Mountain View, CA; Oscar Yesid Moreno Rocha, Sabrina Rocco, Kevin Dale Mangum, Catherine Luke.; Katherine A Gallagher, Bethany Moore, Peter Henke, Andrea T Obi, Univ of Michigan, Ann Arbor, MI

8:25 AM **Effects Of Cyclic Peptide Lxw7 Coating On Short Term Vascular Graft Patency Using A Porcine (Sus Scrofa) Model**
Quick shot

Matthew Vuoncino, Dake Hao, Christopher Pivetti, UC Davis, Sacramento, CA; Elan Sherazee, Nataliya Bahatyrevich, Sacramento, CA; Brendon Bagley, Amory Koch, David Grant Medical Ctr, Fairfield, CA; **Emily Byrd (presenting)**, Zoe Saenz, Monalisa Hassan, Su Yeon Lee, UC Davis, Sacramento, CA; Timothy Guenther, Aijun Wang, Univ of Wisconsin, Madison, WI; Mimmie Kwong, UC Davis, Sacramento, CA

8:33 AM **Venous Smooth Muscle Cell Reprogramming During Arteriovenous Fistula Maturation**
Quick shot
Chunhui Wang (presenting), Wei Zhang, Medical Coll of Georgia at Augusta Univ, Augusta, GA; Weichang Zhang, New Haven, CT; Huidong Shi, Medical Coll of Georgia at Augusta Univ, Augusta, GA; Kunzhe Dong, Augusta Univ, Martinez, GA; Harold Singer, Albany Medical College, Albany, NY; Alan Dardik, Yale Univ, New Haven, CT; Xiaochun Long, Augusta Univ, Augusta, GA

- 8:41 AM Quick shot** **Investigation Of Acute Distension Injury In Vein Graft Implantation Through Integrated Single-nuclei And Spatial Transcriptomic Analysis**
Marina Michaud (presenting), Emory Univ, Atlanta, GA; Lucas Mota, Harvard Univ, Boston, MA; William Pilcher, Emory Univ, Atlanta, GA; John Tomeo, Emory Univ, Atlanta, GA; Tarek Aridi, Beena Thomas, BIDMC, Boston, MA; Mojtaba Bakhtiari, Emory Univ, Atlanta, GA; Mauricio Contreras, Harvard Univ, Boston, MA; Leena Pradhan-nabzdyk, Beth Israel Deaconess Medical, Boston, MA; Frank LoGerfo, Patric Liang, Beth Israel Deaconess Medical Center, Boston, MA; Manoj Bhasin, Emory Univ, Atlanta, GA
- 8:49 AM Full** **Fatty Acid Synthase Targeting Reduces Aortic Atherosclerosis And Inflammation**
Rodrigo Meade* (presenting), Connor Engel, Larisa Belaygorod, Batool Arif, Wahid Abu-Amer, Clay F Semenkovich, Mohamed A Zayed, Washington Univ, St. Louis, MO
- 8:59 AM Quick shot** **Cell Populations In Pre-access Veins And Arteriovenous Fistulas: A Single Cell Perspective**
Miguel Gabriel Rojas, Univ of Miami, Coral Gables, FL; Laisel Martinez, Marwan Tabbara, Roberto I Vazquez-Padron, Univ of Miami, Miami, FL
- 9:07 AM Quick shot** **Histone Demethylase JARID1c Regulates T_H17 T-cells In Diabetic Wounds By Increasing IL-6 Expression In Plasmacytoid Dendritic Cells**
Chris Audu, William Melvin, Sonya Wolf, Kevin Mangum, Amrita Joshi, Katherine A Gallagher, Univ of Michigan, Ann Arbor, MI
- 9:15 AM Quick shot** **Loss Of Nuclear Receptor Subfamily 4 Group A 1 (NR4A1) Results In Impaired Post-thrombotic Vein Wall Remodeling By Promoting A Dysregulated Antifibrinolytic Phenotype In Monocytes**
Sriganesh B Sharma, Catherine E Luke, Qing Cai, Mattea Pellerito, Univ of Michigan, Ann Arbor, MI; Farouc A Jaffer, Massachusetts General Hosp, Boston, MA; Andrea T Obi, Peter K Henke, Univ of Michigan, Ann Arbor, MI
- 9:21 AM BREAK**
- 9:39 AM ABSTRACT SESSION II - VASCULAR REGENERATION, STEM CELLS AND WOUND HEALING**
- Moderator: Ulf Hedin, MD, PhD
 Moderator: Kevin W Southerland, MD
- 9:41 AM Full** **Biliverdin Reductase B Is A Plasma Biomarker For Intraplaque Hemorrhage And A Predictor Of Ischemic Stroke In Symptomatic Carotid Stenosis**
Melody Chemaly, Karolinska Inst, Solna, Sweden; David Marlevi, Maria Jesus Iglesias Mareque, KTH, Solna, Sweden; Mariette Lengquist, Karolinska Inst, Stockholm, Sweden; Malin Kronqvist, Karolinska Inst, Stockholm, Sweden; Daniel Bos, Erasmus MC Univ Medical Ctr, Rotterdam; Dianne H.K van Dam - Nolen, Dept of Radiology and Nuclear Med, Erasmus MC, Univ Medical Ctr Rotterdam, Rotterdam, Netherlands; Anja van der Kolk, UMC Utrecht, Utrecht, Netherlands; Jeroen Hendrikse, Dept of Radiology, Univ Medical Ctr Utrecht, Utrecht, Netherlands; Mohamed Kassem, Dept of Radiology and Nuclear Med, CARIM Sch for Cardiovascular Diseases, Maastricht Univ Medical Ctr, Maastricht, Netherlands; Ljubica Matic, Karolinska Inst, Solna, Stockholm, Sweden; Jacob Odeberg, KTH, Stockholm, Sweden; Margreet R De Vries, LUMC, Leiden; M E Kooi, MUMC, Maastricht; Ulf Hedin, Karolinska Inst, Stockholm, Sweden

- 9:51 AM Quick shot** **Inflammatory Macrophages Dictate Fibroblast Function Via Epigenetic Reprogramming In Diabetic Wounds**
Tyler Bauer* (presenting), Emily Barrett, Kevin Dale Mangum, Amrita Joshi, Johann Gudjonsson, Frank M Davis, Andrea T Obi, Bethany Moore, Katherine A Gallagher, Univ of Michigan, Ann Arbor, MI
- 9:59 AM Quick shot** ***Inkiln* is a Novel Long Noncoding RNA Promoting Vascular Smooth Muscle Inflammation Via Scaffolding Mkl1 and Usp10**
Wei Zhang (presenting), Augusta Univ, Augusta, GA; Nestor Ishimwe, Augusta, GA; Jessica Pauli, Molecular Vascular Med, Munich; Clint L Miller, Univ of Virginia, Charlottesville, VA; Neal L Weintraub, Augusta Univ, Augusta, GA; Lars Maegdefessel, Technical Univ Munich, Munich; Joseph M Miano, Medical Coll of Georgia, Augusta, GA; Andrew H Baker, University of Edinburgh, Edinburgh; Xiaochun Long, Augusta Univ, Augusta, GA
- 10:07 AM Quick shot** **Microbe-derived Butyrate Activation Of Free Fatty Acid Receptor-3 Reduces Neointimal Hyperplasia After Arterial Injury By Regulating Immune Response Transcription Networks In Endothelial Cells**
Jonathan Jung (presenting), Sarbjeet Niraula, James Du, Vivek Pamulapati, Jae Woong Jang, Liqun Xiong, M Luisa Iruela-Arispe, Northwestern Univ - Feinberg Sch of Med, Chicago, IL; Michael R MacArthur, Princeton Univ, Princeton, NJ; Karen J Ho, Northwestern Univ - Feinberg Sch of Med, Chicago, IL
- 10:15 AM Full** **Vascular Cell Adhesion Molecule 1 Positive Fibroadipogenic Progenitors Promote Adipogenesis In Chronic Limb Threatening Ischemia Patients**
Kaileen Fei (presenting), Qunsheng Dai, Duke Univ, Durham, NC; Derek Peters, Duke Univ, New Hill, NC; Yueyuan Xu, Brianna Garrett, Duke Univ, Durham, NC; James Otto, Duke Univ, Chapel Hill, NC; Christopher D Kontos, Duke University Medical Center, Durham, NC; Yarui Diao, Kevin Southerland, Duke Univ, Durham, NC
- 10:25 AM Quick shot** **The Aim2 Inflammasome Deters Myogenic Potential Of Muscle Satellite Cells Affected By Peripheral Artery Disease (pad) And Is A Therapeutic Target To Attenuate Myopathy**
Bowen Xie (presenting), Edwyn Assaf, Ricardo Ferrari, Rohan Kulkarni, Ryan McEnaney, Ulka Sachdev, UPMC, Pittsburgh, PA
- 10:33 AM Quick shot** **Endothelial Glucocorticoid Receptor Deficiency Affects Arteriovenous Fistula Maturation**
Weichang Zhang, Yale Univ, New Haven, CT; Luis Gonzalez, Carly Thaxton, Yuichi Ohashi, yukihiko aoyagi, Hamden, CT; Yangzhouyun Xie, New Haven, CT; Yujun Cai, Yale Sch of Med, New Haven, CT; Chang Shu, The Second Xiangya Hosp of Central South Univ, New Haven, CT; Julie Goodwin, Alan Dardik, Yale Univ, New Haven, CT
- 10:41 AM Quick shot** **Semi-automated Classification Of Peripheral Artery Disease Lesion Composition From Multi-Contrast Magnetic Resonance Histology At 9.4 Tesla With A 2 Dimensional Convolutional Neural Network Variational AutoEncoder Algorithm**
Judit Csore (presenting), DeBakey Heart and Vascular Ctr, Houston Methodist Hosp, Houston, TX; Christof Karmonik, Translational Imaging Ctr, Houston Methodist Res Inst, Houston, TX; Alan B. Lumsden, Trisha L. Roy, DeBakey Heart and Vascular Ctr, Houston Methodist Hosp, Houston, TX
- 10:47 AM BREAK**

11:10 AM	ALEXANDER W. CLOWES DISTINGUISHED LECTURE	
	Moderator: Katherine A. Gallagher, MD, Chair, SVS Basic and Translational Research Committee	
11:12 AM	Co-stimulatory Immune Checkpoints in Atherosclerosis: Novel Immunotherapeutic Targets to Combat Atherosclerotic Cardiovascular Disease	
	Esther Lutgens, MD, PhD Principal Investigator, Professor Mayo Clinic	
11:44 AM	LUNCH & POSTER PREVIEW	GRAND BALLROOM SALON F
12:44 PM	SVS FOUNDATION UPDATE AND AWARDS CEREMONY	GRAND BALLROOM SALON G
	Moderator: Raul J Guzman, MD	
	Resident Research Awardee Sneha Raju, MD, PhD(c)	
	VRIC Trainee Awardees Sharika Bamezai, BA Tyler M Bauer, MD Rodrigo Meade, BS Humraaz S Samra, MB, BCH, BAO	
12:54 PM	SVS FOUNDATION MENTORED CLINICAL SCIENTIST RESEARCH CAREER DEVELOPMENT AWARD	
	Moderator: Katherine A. Gallagher, MD, Chair, SVS Basic and Translational Research Committee	
12:56 PM	K08 Update: The Benefits of Moderate Aerobic Exercise on Maintaining Vessel Structure in Mouse Models of Aortopathy	
	Areck A Ucuzian, MD, PhD Assistant Professor, Vascular Surgeon - University of Maryland School of Medicine Vascular Surgeon - Baltimore VA Medical Center	
1:06 PM	TRANSLATIONAL PANEL	
	Moderator: Katherine A. Gallagher, MD, Chair, SVS Basic and Translational Research Committee	
1:08 PM	Deep Phenotyping of Human Atherosclerosis	
	Chiara Giannarelli, MD, PhD Associate Professor of Medicine, Cardiology and Pathology NYU Langone Health, NYU Grossman School of Medicine	
1:38 PM	Structural Triggers of Macrophages in Aortic Aneurysms	
	Bhama Ramkhelawon, PhD Assistant Professor New York University Langone Medical Center	
2:10 PM	BREAK	

2:28 PM ABSTRACT SESSION III - ATHEROSCLEROSIS AND ROLE OF THE IMMUNE SYSTEM

Moderator: Kathryn L. Howe MD, PhD
 Moderator: Nicholas J. Leeper, MD

2:30 PM Full The Histone Demethylase JMJD3 Regulates Smooth Muscle Differentiation and Is Associated With Blood Pressure

Kevin Mangum (presenting), Amrita Joshi, Sonya Wolf, Emily Barrett, Jadie Moon, Bethany Moore, Andrea T Obi, Frank Davis, Katherine A Gallagher, University of Michigan, Ann Arbor, MI

2:40 PM Quick shot Endothelial-specific Nck1 Deletion Reduces Proinflammatory Endothelial Activation And Atherosclerosis Without Affecting Ischemic Angiogenesis

Cyrine Ben Dhaou (presenting), Mabruka Alfaidi, Elizabeth Denise Cockerham, Matthew L Scott, Xinggui Shen, Arif Yurdagul Jr., Nabil Rashdan, Christopher B Pattillo, Wayne W Orr, LSU Health Sciences Center, Shreveport, LA

2:48 PM Quick shot Mini-swine Model of Hindlimb Ischemia On A Background Of Metabolic Syndrome Mimics Peripheral Artery Disease And Claudication

Ali H Hakim (presenting), Al-Murtadha Al-Gahmi, Sara Cartwright, zhen zhu, Shuai Li, Molly Schieber, Julian K Kim, George Casale, Mark A Carlson, Iraklis I Pipinos, Univ of Nebraska Medical Ctr, Omaha, NE

2:56 PM Quick shot A Targeted Nanofiber Loaded With Liver X Receptor Agonist Reduces Atherosclerotic Plaque And Prevents Hepatotoxicity

Vina Y Chhaya (presenting), Sophia Maragos, Univ of Virginia, Charlottesville, VA; Ruomeng Qiu, Simon A. Egner, Northwestern Univ, Evanston, IL; Mark R. Karver, Samuel I. Stupp, Northwestern Univ, Chicago, IL; Nick D Tshilis, Melina R Kibbe, Univ of Virginia, Charlottesville, VA

3:04 PM Full Safety And Efficacy Of Pro-efferocytic Nanoparticles To Treat Atherosclerosis In A Porcine Model

Sharika Bamezai* (presenting), Stanford Univ Sch of Med, Palo Alto, CA; Tom Alsaigh, UC San Diego Sch of Med, San Diego, CA; Mozghan Lofti, Stanford Univ Sch of Med, Palo Alto, CA; Yapei Zhang, Michigan State Univ, East Lansing, MI; Gayatri S Kumar, Fudi Wang, Stanford Univ Sch of Med, Palo Alto, CA; Jianqin Ye, Stanford, Vascular Surgery, Stanford, CA; Lingfeng Luo, Stanford Univ, Redwood City, CA; Lars Maegdefessel, Technical Univ Munich, Munich; Yoko Kojima, Stanford Univ, Stanford, CA; Manisha Kumari, Michigan State Univ, East Lansing, MI; Caitlin Bell, Stanford University, Stanford, CA; Shaunak Adkar, Stanford University, Stanford, Palo Alto, CA; Bryan R Smith, Michigan State Univ, East Lansing, MI; Nick J Leeper, Stanford University, Palo Alto, CA

3:14 PM Quick shot A Novel Model For Tracking Endothelial-derived Extracellular Vesicles In Murine Atherosclerotic Disease

Sarvatit Patel (presenting), Mandy Kunze Guo, Leandro Breda, Kamalben Prajapati, Toronto General Hosp Res Inst, Univ Health Network, Toronto, ON, Canada; Sneha Raju, TGHRI, Toronto, ON, Canada; Steven R Botts, Univ of Toronto, Toronto, ON, Canada; Garry Yu, Toronto General Hosp Res Inst, Univ Health Network, Toronto, ON, Canada; Andrew Dudley, Univ of Virginia, Charlottesville, VA; Corey A Scipione, Univ Health Network, Toronto, ON, Canada; Jason Fish, University Health Network, Toronto, ON, Canada; Kathryn Howe, Univ Health Network, Toronto, ON, Canada

3:22 PM Quick shot **A Single-cell Atlas Of Human Skeletal Muscle Tissue In Chronic Limb-threatening Ischemia**
Derek T Peters (presenting), Yueyuan Xu, James Otto, Qunsheng Dai, Kaileen Fei, Christopher D Kontos, Kevin Southerland, Yarui Diao, Duke Univ, Durham, NC

3:28 PM BREAK

3:46 PM ABSTRACT SESSION IV - AORTOPATHIES

Moderator: Bhamu Ramkhelawon, PhD
 Moderator: Jean Marie Ruddy, MD

3:48 PM Full **Vascular Smooth Muscle Cell Endoplasmic Reticulum Stress In Abdominal Aortic Aneurysm Development**
Frank Davis (presenting), Kevin Mangum, Amrita Joshi, Rachael Wasikowski, Xianying Xing, Liam Tsoi, Johann Gudjonsson, Katherine A Gallagher, Univ of Michigan, Ann Arbor, MI

3:58 PM Quick shot **Exercise Modulates Inflammatory, Cytokine, And Growth Factor Pathway Dysregulation In A Mouse Model Of Aortic Dissection And Aneurysm**
Matthew D. Cahn (presenting), Jackie M. Zhang, Fenge Ni, Ctr for Vascular and Inflammatory Diseases, Univ of Maryland Sch of Med, Baltimore, MD; Brajesh Lal, Dudley Strickland, Ctr for Vascular and Inflammatory Diseases, Univ of Maryland Sch of Med, Baltimore, MD; Areck Ucuzian, Dept of Surgery, Univ of Maryland Sch of Med, Baltimore, MD

4:06 PM Quick shot **Upregulation Of Receptor Interacting Protein Kinase-3 Augments Abdominal Aortic Aneurysms**
Jack Bontekoe (presenting), Ting Zhou, Kartik Gupta, Huan Yang, Amelia Stranz, Div of Vascular Surgery, Univ of Wisconsin-Madison Sch of Med and Public Health, Madison, WI; Mitri K Khoury, Div of Vascular and Endovascular Surgery, Massachusetts General Hosp, Boston, MA; Zulmari Silva-Pedraza, Dept of Materials Science and Engineering, Univ of Wisconsin-Madison, Madison, WI; Qiwei Wang, Dept of Cancer Biology, Dana-Farber Cancer Inst and Dept of Biological Chemistry and Molecular Pharmacology, Harvard Medical Sch, Boston, MA; Bo Liu, Div of Vascular Surgery, Univ of Wisconsin-Madison Sch of Med and Public Health, Madison, WI

4:14 PM Quick shot **A20 (tnfaip3) Knockdown Protects From Abdominal Aortic Aneurysms By Limiting Extracellular Matrix Degradation And Maintaining Aortic Smooth Muscle Cell Mass**
Tarek Aridi (presenting), Beth Israel Deaconess Medical Ctr, Boston, MA; John Gigioli, Florida Atlantic Univ, Boca Raton, FL; Nyah Patel, Jacqueline Wade, Phillip Brennan, Keyan Roshan, Cleide Angolano, Christiane Ferran, Beth Israel Deaconess Medical Ctr, Boston, MA

4:22 PM Full **Allogeneic Mesenchymal Stromal Cells Significantly Increase Type 1 Regulatory T-cells, Decrease Effector Th17 Cells, And Decrease Aneurysm Volume In A Dose Dependent Fashion In Patients With Small Abdominal Aortic Aneurysms - Results Of The Phase I Aneurysm Repression With Mesenchymal Stromal Cells (the Arrest Trial)**
Humraaz Samra* (presenting), Indiana Univ, Indianapolis, IN; Michael Ingram, Indianapolis, IN; Katherin Leckie, Indiana Univ, Indianapolis, IN; Leni Moldovan, Kristen Wanczyk, IUPUI AND VAMC, Indianapolis, IN; Lava Timsina, Mithun Sinha, Imran Khan Mohammed, Indiana Univ, Indianapolis, IN; Ravi Mylvaganam, MGH, Boston, MA; Anush Motaganahalli, Paul Territo, Indiana Univ, Indianapolis, IN; Ashley GUTWEIN, Raghunandan Motaganahalli, Indiana Univ, Indianapolis, IN; Michael P Murphy, Indiana Univ, Indianapolis, IN

4:32 PM
Quick shot

Genome-wide Association Study Of Intracranial Aneurysms Reveals Shared Heritability With Aortic Aneurysms And Atherosclerosis

Shaunak Adkar (presenting), Stanford Univ, Palo Alto, CA; Julie Lynch, VA Salt Lake City, Salt Lake City, UT; Sharika Bamezai, Sabina Sorondo, Ryan Choi, Stanford Univ, Palo Alto, CA; Michael Levin, Univ of Pennsylvania, Philadelphia, PA; Scott M Damrauer, University of Pennsylvania, Philadelphia, PA; Saiju Pyarajan, Harvard Medical Sch, Boston, MA; Philip S Tsao, VAPAHCS - Stanford Univ, Palo Alto, CA; Stephen Skirboll, Stanford Univ, Palo Alto, CA; Nick J Leeper, Stanford Univ, Palo Alto, CA; Derek Klarin, Stanford Univ, Palo Alto, CA

4:40 PM
Quick shot

High Mobility Group Box 1 Inhibition By Antisense Oligonucleotide Attenuates Angiotensin II-induced Abdominal Aortic Aneurysm

Shayan Mohammadmoradi (presenting), Univ of Kentucky, Lexington, KY; Hisashi Sawada, Sohei Ito, Adam E Mullick, Ionis Pharmaceuticals, Inc., Carlsbad, CA; Deborah A Howatt, Michael Franklin, Hong S Lu, Alan Daugherty, University of Kentucky, Lexington, KY

4:48 PM
Quick shot

Intraoperative Three-dimensional Localization Of Endovascular Stent Relative To Preoperative Computerized Tomography Images Using Spatially-tracked Ultrasound

William R. Warner (presenting), Xiaoyao Fan, Dartmouth Coll, Hanover, NH; Richard J Powell, Kirthi S. Bellamkonda, Dartmouth-Hitchcock Medical Ctr, Lebanon, NH; Keith D. Paulsen, Dartmouth Coll, Hanover, NH

5:00 PM POSTER COMPETITION AND RECEPTION GRAND BALLROOM SALON F

Moderator: Andrea Obi, MD
 Moderator: Mohamed Zayed, MD, PhD

Instructions / Announcements

	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:05 PM	1	Aneurysm/MMPs	Jonathan Krebs
	Pharmacologic Inhibition Of Ferroptosis Attenuates Abdominal Aortic Aneurysm Formation Jonathan R Krebs (presenting) , Su Gang, Victoria Leroy, Paolo A Bellotti, Guanyi Lu, Ashish Sharma, Gilbert R Upchurch Jr., Univ of FL Dept of Surgery, Gainesville, FL		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:09 PM	2	Aneurysm/MMPs	Yangzhouyun Xie
	Smooth Muscle Cell-specific MMP-3 Deletion Reduces Osteogenic Transformation And Medial Artery Calcification Yangzhouyun Xie (presenting) , Yale Sch of Med, New Haven, CT; Tonghui Lin, Beth Israel Deaconess Medical Ctr, Boston, MA; Alexa Berezowitz, Yale Sch of Med, New Haven, CT; Xue-Lin Wang, Beth Israel Deaconess Medical Ctr, Boston, MA; Yujun Cai, Raul J Guzman, Yale Sch of Med, New Haven, CT		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:13 PM	3	Aneurysm/MMPs	Hannah Mirshahi
	Genetic Basis Of Thoracic Aortic Aneurysms In A Large Unselected Clinical Population Hannah S Mirshahi (presenting) , Jeremy S Haley, Diane T Smelser, Evan J Ryer, James R Elmore, David J Carey, Geisinger, Danville, PA		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:17 PM	4	Aneurysm/MMPs	Baohui Xu
	Association Between Sars-cov-2 Infection And Abdominal Aortic Aneurysms (aaas) Baohui Xu (presenting) , Toru Ikezoe, Jia Guo, Gang Li, Makoto Samura, sihai zhao, Ronald L Dalman, Stanford Univ Sch of Med, Stanford, CA		

	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:05 PM	5	Endothelium	Sneha Raju**
<p>Endothelial Cells Communicate With Surrounding Vascular Cells Via Bidirectional And Polarized Secretion Of Extracellular Vesicular Cargo: Implications For Atherosclerotic Plaque Development</p> <p>Sneha Raju** (presenting), TGHRI, Toronto, ON, Canada; Kamalben Prajapati, Toronto General Hosp Res Inst, Toronto, ON, Canada; Mark C Blaser, Brigham and Women's Hosp, Boston, MA; Steven R Botts, Univ of Toronto, Toronto, ON, Canada; Tse Wing Winnie Ho, Keenan Ctr for Biomedical Res, St. Michael's Hosp, Toronto, ON, Canada; Crizza Ching, Univ of Toronto, Mississauga, ON, Canada; Natalie J Galant, Paradox Immunotherapeutics, Toronto, ON, Canada; Lindsey Fiddes, Faculty of Med, Univ of Toronto, Toronto, ON, Canada; Ruilin Wu, Faculty of Med, Univ of Toronto, Toronto, ON, Canada, Toronto, ON, Canada; Cassandra L Clift, Harvard Medical Sch, Boston, MA; Tan Pham, Brigham and Women's Hosp, Marlborough, MA; Sasha A Singh, HARVARD BWH, Boston, MA; Warren L Lee, Keenan Ctr for Biomedical Res, St. Michael's Hosp, Toronto, ON, Canada; Elena Aikawa, Brigham Womans Hospital, Boston, MA; Jason Fish, University Health Network, Toronto, ON, Canada; Kathryn Howe, University Health Network, Toronto, ON, Canada, Toronto, ON, Canada</p>			

	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:09 PM	6	Endothelium	Zhen Chen
<p>Regulation Of Endotheliopathy By Chromatin-associated Long Non-coding Rna</p> <p>Zhen B Chen (presenting), Xiaofang Tang, Kiran Sriram, Yingjun Luo, Dongqiang Yuan, Naseeb Kaur Malhi, Xuejing Liu, Rama Natarajan, City of Hope, Duarte, CA</p>			

	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:13 PM	7	Endothelium	Michelle Roberts
<p>Phenotypic And Molecular Effects Of Testosterone Gender-affirming Hormone Therapy On The Vascular Endothelium Of Transgender Men</p> <p>Michelle L Roberts (presenting), Justin Westhoff, Jingli Wang, Rong Ying, Susanne M Cabrera, Michael E Widlansky, Medical Coll of Wisconsin, Milwaukee, WI</p>			

	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:17 PM	8	Endothelium	Isra Marei
<p>Altered Gene Expression And Impaired Repair Functions Of Circulating Endothelial Colony-Forming Cells From Diabetic Patients</p> <p>Isra Marei (presenting), Weill Cornell Med Qatar/ Imperial Coll London, Doha, Qatar; Binitha Thomas, Weill Cornell Med Qatar, Doha, Qatar; Blerina Ahmetaj-Shala, Imperial Coll London, London, United Kingdom; Omar Chidiac, Tanwir Habib, El-Naas Ahmed, Anam Ehtesham, Azwa Dilawar, Leena Elsheikh Aboidris, Weill Cornell Med Qatar, Doha, Qatar; Muhammed Jameesh Moidy, Amin Jayyousi, Jassim M Al suwaidi, Hamad Medical Corp, Doha, Qatar; Charbel A Abi Khalil, Weill Cornell Med Qatar, Doha, Qatar; Jane A Mitchell, Imperial Coll London, London, United Kingdom; Chris R. Triggler, Weill Cornell Med Qatar, Doha, Qatar</p>			

	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:05 PM	9	PVD	Jordan Stafford
	<p>A Novel Retrievable Drug Delivery Stentgraft To Enhance Paclitaxel Delivery For Restenosis Jordan F Stafford (presenting), The Ohio State Univ, Columbus, OH; Dahlia Kenawy, Foued Amari, Columbus, OH; Saami K Yazdani, Wake Forest Univ, Winston Salem, NC; Bryan Tillman Sr., Ohio State Univ, Columbus, OH</p>		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:09 PM	10	PVD	Rohan Kulkarni
	<p>Purinergic Receptor P2Y6 Mediates Perfusion Recovery After Femoral Artery Ligation. Rohan N Kulkarni (presenting), Dylan McCreary, Nolan Skirtich, Michael Calderon, Univ of Pittsburgh, Pittsburgh, PA; Ryan M McEnaney, VA Pittsburgh Healthcare System, Pittsburgh, PA</p>		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:13 PM	11	PVD	Hui Liu
	<p>Ex Vivo MRI Detection Of Seeded Adventitial Cells On Human Vein Grafts Hui Liu (presenting), Kevin Kim, Anna Naumova, Univ of Washington, Seattle, WA; Gale L Tang, VA PSHCS Univ of Washington, Seattle, WA</p>		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:17 PM	12	PVD	Oscar Moreno Rocha
	<p>Technique For Testing Drug-coated Balloons In Deep Veins In Vivo Oscar Y Moreno Rocha (presenting), Kiran Kumar, Sabrina Rocco, Sriganesh Sharma, Catherine Luke, Laura Durham, Amber Clay, Sharika Bamezai, Daniel D Myers Jr., Thomas Wakefield, Peter Henke, Andrea T Obi, Univ of Michigan, Ann Arbor, MI</p>		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:05 PM	13	Thrombosis/Inflammation	Zhao-Jun Liu, MD
	<p>E-selectin-Overexpressing Mesenchymal Stem Cell-based Therapy Augments Cutaneous Wound Healing In Ischemic Limbs Carlos T Huerta, Yulexi Ortiz, Yan Li, Antoine Ribieras, Francesca Voza, Nga Le, Zhao-Jun Liu (presenting), Omaidia Caridad Velazquez, Univ of Miami Miller Sch of Med, Miami, FL</p>		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:09 PM	14	Thrombosis/Inflammation	Wenli Liu
	<p>Blockade Of IL-6 Signaling Alleviates Atherosclerosis In Tet2 Deficient Clonal Hematopoiesis Wenli Liu (presenting), Nan Wang, Alan Tall, Columbia Univ, New York, NY</p>		

	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:13 PM	15	Thrombosis/Inflammation	Amit Chandra
	Role Of An Endothelial-enriched Lncrna On Inflammatory Signaling And Vascular Endothelial Function Amit Chandra (presenting) , Vinay Randhawa, Boston, MA; Jingshu Chen,; Mark W Feinberg, Brigham and Women's Hospital, Boston, MA		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:17 PM	16	Thrombosis/Inflammation	Li Guo
	Actin Bundling Protein L-plastin Regulates Platelet Production, Spreading and Thrombosis Li Guo (presenting) , Bloodworks Res Inst, Univ of Washington, Seattle, WA; Shancy Jacob, Bhanu Kanth Manne, Seema Bhatlekar, Program in Molecular Med, Univ of Utah, Salt Lake City, UT		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:05 PM	17	Vascular Biology	Katherine Hekman
	Physiologic Oxygen Conditions Preserve Ipsc-ec Progenitor Identity Katherine Hekman (presenting) , Ottis Scrivner, Atlanta VA, Decatur, GA; Dylan McLaughlin, Atlanta, GA		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:09 PM	18	Vascular Biology	Fengshi Li
	Inhibition Of Tirma-gly-gcc Ameliorates Neointimal Formation Via Cbx3-mediated Vascular Smooth Muscle Cells Phenotypic Switching Fengshi Li (presenting) , Zhihua Rong, Changwei Liu, Peking Union Medical Coll Hosp, Beijing, China		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:13 PM	19	Vascular Biology	Debolina Banerjee
	Antidiabetic Agent, Canagliflozin, Is A Potent Vasodilator Of The Coronary Microvasculature Debolina Banerjee (presenting) , Hang Xing, Jun Feng, Frank Sellke, Brown Univ, Rhode Island Hosp, Providence, RI		
	<u>Poster ID</u>	<u>Poster Category</u>	<u>Presenter</u>
5:17 PM	20	Vascular Biology	Mark Broadwin
	Metabolic Syndrome Induced Metabolomic Alterations In A Porcine Model Of Chronic Myocardial Ischemia Mark Broadwin (presenting) , Dwight Harris, Boston, MA; Debolina Banerjee, Madigan Stanley, Frank Sellke, Anny Usheva, Rhode Island Hosp, Providence, RI		



5:30 PM

Winners announced

6:00 pm

Reception ends. **Presenters, please remove posters by 6PM, or they will be discarded.** If you have a poster that will be at the AHA's Vascular Discovery, you are responsible to move it.