MONDAY, MAY 4, 2020

7:00 AM  REGISTRATION AND CONTINENTAL BREAKFAST

8:00 AM  INTRODUCTORY REMARKS

Luke Brewster, MD, Chair, Research and Education Committee
Ali AbuRahma, MD, SVS Vice-President
Peter Lawrence, MD, SVS Foundation
Alan Dardik, MD, PhD, Editor, JVS-Vascular Science

ABSTRACT SESSION I: ARTERIAL REMODELING AND DISCOVERY SCIENCE FOR VENOUS DISEASE

Moderator: Ulka Sachdev, MD
Moderator: Sanjay Misra, MD

8:15 AM  Elastic Fibers Of The Internal Elastic Lamina Are Unraveled But Not Created With Expanding Arterial Diameter In Arteriogenesis

Derek Afflu, Univ of Pittsburgh Medical Ctr, PITTSBURGH, PA; Dylan D McCreary, Nolan Skirtich, VA PHS, Pittsburgh, PA; Kathy Gonzalez, UPMC, Pittsburgh, PA; Edith Tzeng, UNIVERSITY PITTSBURGH, Pittsburgh, PA; Ryan M McEnaney VA PHS, Pittsburgh, PA

8:25 AM  Loss of Myeloid Specific Protein Phosphatase 2a Accelerates Experimental Venous Thrombus Resolution

Andrea TObi, Renee Beardslee, Catherine Luke, UNIVERSITY OF MICHIGAN, Ann Arbor, MI; Andrew Kimball, Univ of Alabama Birmingham, Birmingham, AL; Abigail R Dowling, Qing Cai, Sriganesh Shama, UNIVERSITY OF MICHIGAN, Ann Arbor, MI; Katherine A Gallagher, Peter Henke, UNIVERSITY MICHIGAN, Ann Arbor, MI; Bethany Moore

8:35 AM  A Synthetic Resolvin Analogue (Benzo-Rvd1) Attenuates Vascular Smooth Muscle Cell (VSMC) Migration And Neointimal Hyperplasia

Evan C Werlin, Alexander Kim, SMITH CARDIOVASCULAR RESEARCH BLDG, San Francisco, CA; Hideo Kagaya, UC SF, San Francisco, CA; Mian Chen, SMITH CARDIOVASCULAR RESEARCH BLDG, San Francisco, CA; Bian Wu, Giorgio Mottola, UCSF, San Francisco, CA; Matthew R Spite, HARVARD MEDICAL SCHOOL, Boston, MA; Brian Sansbury, Brigham and Women's Hosp, Boston, MA; Michael S Conte, UC SAN FRANCISCO, San Francisco, CA

8:45 AM  Evaluation Of A Targeted Drug Eluting Intravascular Nanotherapy To Prevent Neointimal Hyperplasia In A Novel Atherosclerotic Rat Model

Emily R Newton, Univ of North Carolina, Chapel Hill, NC; Brooke Dandurand, UNC Sch of Med, Chapel Hill, NC; David C Gillis, Kui Sun, Robin Siletzky, Univ of North Carolina, Chapel Hill, NC; Mark R Karver, Samuel I Stupp, Northwestern

CANCELED
Univ, Chicago, IL; NICK D TSIHLIS, UNC-CHAPEL HILL, Chapel Hill, NC; Melina R KIBBE, Univ of North Carolina, Chapel Hill, NC

8:55 AM  
Programmed Death Ligand-1 Regulates T-cells And M2 Macrophages To Control Wall Thickening During Arteriovenous Fistula Maturation  
Yutaka Matsubara, Luis Gonzalez, Jia Liu, Arash Fereydooni, John Langford, Shin-rong Lee, Jolanta Gorecka, Mingjie Gao, Xixiang Gao, Ryosuke Taniguchi, Bogdan Yatsula, Alan Dardik, Dept of Surgery, Yale Univ Sch of Med, New Haven, CT

9:05 AM  
Liposomal Delivery System Functionalized For Actively Targeting An Ex Vivo Model Of Vascular Disease  
Phillip P Rideout, Lauren B Grimsley, Joshua D Arnold, Michael R Buckley, Raymond A Dieter III, Michael M McNally, Michael B Freeman, Oscar H Grandas, Deidra J Mountain, Univ of Tennessee Graduate Sch of Med, Knoxville, TN

9:15 AM  
TRPC6 Depletion Results In Loss Of Myocardin And Phenotypic Modulation In Vascular Smooth Muscle Cells  
Andrew H. Smith, Priya Putta, Erin Driscoll, Pinaki Chaudhuri, Cleveland Clinic, Cleveland, OH; Michael Rosenbaum, Louis Stokes Cleveland VAMC, Cleveland, OH; Linda M. Graham, Cleveland Clinic, Cleveland, OH

9:25-9:30  
Periadventitial Delivery Of Simvastatin From Microparticles Attenuates Arteriovenous Fistula Outflow Vein Neointimal Hyperplasia  
Chenglei Zhao, Mayo Clinic, Rochester, MN; Sean T Zuckerman, Affinity Therapeutics, LLC, Cleveland, OH; Chuanqi Cai, Michael L Simeon, Avishek Singh, Sreenivasulu Kilari, Mayo Clinic, Rochester, MN; Julius N Korley, Affinity Therapeutics, LLC, Cleveland, OH; Sanjay Misra, MAYO CLINIC, Rochester, MN

ABSTRACT SESSION II: VASCULAR REGENERATION, STEM CELLS AND WOUND HEALING

Moderator: Jayer Chung, MD  
Moderator: Ngan Huang, PhD

9:30 AM  
* Autophagy Remodels Mitochondria During Differentiation And Enhances Longevity Through Ulk1 Kinase Signaling Of Induced Pluripotent Stem Cell-derived Endothelial Cells  
Katherine E Hekman, Kyle Koss, David Zivancic, Northwestern Univ, Chicago, IL; Congcong He, Chicago, IL; Jason A Wertheim, Northwestern Univ, Chicago, IL

9:40 AM  
* Downregulation Of Inflammation And A Cascade Of Pro-angiogenic Signals Mediate The Beneficial Effects Of Gene-modified Stem Cell Therapy In Hindlimb Ischemia  
Hallie J Quiroz, Univ of Miami, Miami, FL; Hongwei Shao, Yan Li, Samantha F Valencia, Punam Parikh, Univ of Miami, Miami, FL; Yulexi Ortiz, Univ of Miami Miller Sch of Med, Miami, FL; Roberta Lassance Soares, Univ of Miami, Miami, FL; Zhao-jun Liu, Univ of Miami Miller, Miami, FL; Omaida Caridad Velazquez, Univ of Miami Miller Sch of Med, Miami, FL

CANCELED
9:50 AM  
**Prediction Of Walking Performance After Revascularization Of Arteries Supplying The Lower Extremities Of Claudicating Patients With Peripheral Artery Disease**  
Shuai Li, Jonathan Robert Thompson, Univ of Nebraska Med Ctr, Omaha, NE; Sara A Myers, Univ of Nebraska at Omaha, Omaha, NE; Julian K Kim, UNIV NEBRASKA MEDICAL CENTER, Omaha, NE; Panagiotis Koutakis, Florida State Univ, Tallahassee, FL; Mark Williams, Creighton Cardiac Ctr, Omaha, NE; Zhen Zhu, Univ of Nebraska Med Ctr, Omaha, NE; Molly Schieber, Univ of Nebraska Medical Cnt, Omaha, NE; Timothy Lackner, Gregory Wilcockson, Christina Shields, Kataryina Brunette, Holly Despiegelaere, Univ of Nebraska Med Ctr, Omaha, NE; Iraklis I Pipinos, UNIV NEBRASKA MEDICAL CTR, Omaha, NE; George Casale, Univ of Nebraska Medical Cent, Omaha, NE

10:00 AM  
**Differential Expression Of Canonical Mitosis And Dna-damage Repair Pathways Characterize Muscle Satellite Cells Affected By Pad**  
Ricardo Ferrari, Guangzhi Cong, Bryan Thompson, Debbie Hollingshead, Janette Lamb, Xiangdong Cui, Ulka Sachdev, UPMC, Pittsburgh, PA

10:10 AM  
**Fluvastatin And Vegf Containing Resins Promote Angiogenesis And Arteriogenesis**  
Furqan Muqri, SUNY Upstate Medical Ctr & Syracuse VA Medical Ctr, Syracuse, NY; Dandan Guo, SUNY Upstate Medical Univ, Syracuse, NY; Mohammed Kassem, Mary DaCosta, SUNY Upstate Medical Ctr & Syracuse VA Medical Ctr, Syracuse, NY; David Bruch, SUNY Upstate Medical Univ, Syracuse, NY; Kristopher Maier, SUNY Upstate Medical Ctr & Syracuse VA Medical Ctr, Syracuse, NY; Juntao Luo, SUNY Upstate Medical Ctr, Syracuse, NY; Vivian Gahtan, SUNY Upstate Medical Ctr & Syracuse VA Medical Ctr, Syracuse, NY

10:20 AM  
**Increased Neutrophil Elastase Expression In Regions Of High Intraluminal Thrombus Deposition In Human Abdominal Aortic Aneurysms.**  
Matthew Levesque, Lauren Bath, Max Rady Coll of Med, Winnipeg, MB, Canada; Annie Ducas, Royal Victoria Regional Health Ctr, Barrie, ON, Canada; April Boyd, Health Sciences Ctr, Winnipeg, MB, Canada

10:30 AM  
**Impact Of Dietary Tungsten And Topical Nitrite In Diabetic Wound Healing And The Composition Of The Wound Microbiome**  
Kathy Gonzalez, Karim M Salem, UPMC, Pittsburgh, PA; Barbara Methé, Kelvin Li, Guifying Hong, Univ of Pittsburgh, Pittsburgh, PA; Edith Tzeng, UNIVERSITY PITTSBURGH, Pittsburgh, PA

10:40-10:45  
**MicroRNA-181b Regulates Critical Limb Ischemia In Diabetic Mice**  
Henry S Cheng, Brigham and Women's Hosp, Boston, MA; Daniel Perez-Cremades, BWH, Boston, MA; Marc P Bonaca, CPC Clinical Res, Aurora, CO; Mark Feinberg, Brigham and Women's Hosp, Boston, MA

10:45-10:50  
**Nitric Oxide Bioavailability Is Reduced In Peripheral Artery Disease In Association With Increased Oxidative Stress And An Altered Biopterin System**  
Ahmed Ismaeel, Evlampia Papoutsi, Florida State Univ, Tallahassee, FL; William T Bohannon, Robert Smith, Baylor Scott and White Heath, Temple, TX; Robert Brumberg, Vascular Surgery Associates, Tallahassee, FL; Carlos H Castro, Jeffrey S Kirk, Capital Regional Medical Ctr, Tallahassee, FL; Iraklis I Pipinos, UNIV

CANCELED
### 10:50 AM  
**BREAK**

### 11:15 AM  
**Introduction: ALEXANDER W. CLOWES DISTINGUISHED LECTURE**  
*Moderator: Scott M. Damrauer, MD*

### 11:20 AM  
**SPECIAL SESSION I: ALEXANDER W. CLOWES DISTINGUISHED LECTURE**

**Molecular Mechanisms of AAA Disease**  
Philip S. Tsao, PhD  
Associate Chief of Staff for Precision Medicine  
VA Palo Alto Health Care System  
Director, VA Palo Alto Epidemiology Research and Information Center (ERIC) for Genomics  
Professor, Medicine (Cardiovascular Medicine)  
Stanford University School of Medicine

### 11:50 AM  
**LUNCH WITH QUICKSHOT POSTER PREVIEWS**

### 12:50 PM  
**In Memoriam: Dr. Thomas Monahan**  
Jason MacTaggart, MD

### 1:00 PM  
**SVS FOUNDATION UPDATE AND AWARDS CEREMONY**

Peter Lawrence, MD, SVS Foundation

**VRIC Trainee Awards**

Derek Afflu, MD, University of Pittsburgh Medical Center  
Frank Davis, MD, University of Michigan Medical Center  
Katherine Hekman, MD, PhD, Northwestern Univ. Feinberg School of Medicine  
Hallie Quiroz, MD, University of Miami Medical Center

### 1:10 PM  
**SPECIAL SESSION II: SVS Foundation Mentored Clinical Scientist Research Career Development Award**

*Moderator: Luke Brewster, MD*  
*Moderator: Katherine Gallagher, MD*

Presented by Recipient of the 2018 SVS Foundation Mentored Clinical Scientist Research Career Development Award

Bao-Ngoc H. Nguyen, MD  
George Washington University School of Medicine & Health Sciences  
K08 Project: The Role of Poly-ADP-ribose Polymerase in Angiogenesis of Ischemic-diabetic Wound Healing

### 1:25 PM  
**European Society for Vascular Surgery - Young Researcher Prize Winner Presentation**

**CANCELED**
### ABSTRACT SESSION III: AORTOPATHIES AND NOVEL VASCULAR DEVICES

Moderator: Jason MacTaggart, MD  
Moderator: Bhama Ramkhelawon, PhD

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<th>Time</th>
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<th>Authors</th>
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<tr>
<td>1:35 PM</td>
<td>Epigenetic Modifications Influence Macrophage-mediated Inflammation In Abdominal Aortic Aneurysms</td>
<td>Frank Michael Davis, Aaron Dendekker, Amrita Joshi, Sonya Wolf, Christopher Audu, William J Melvin, UNIVERSITY OF MICHIGAN, Ann Arbor, MI; Hong Lu, UNIV KENTUCKY, Lexington, KY; Alan Daugherty, UNIVERSITY OF KENTUCKY, Lexington, KY; Johann Gudjonsson, UNIVERSITY OF MICHIGAN, Ann Arbor, MI; Katherine A Gallagher, UNIVERSITY MICHIGAN, Ann Arbor, MI</td>
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<td>1:45 PM</td>
<td>The Perfuse Dual Chamber Stent Improves Donor Organ Recovery In A Porcine Model</td>
<td>Bryan W. Tillman, Catherine Go, Brian Frenz, UNIV OF PITTSBURGH MED CTR, Pittsburgh, PA; Moataz Elsisy, UNIV OF PITTSBURGH, Pittsburgh, PA; Youngjae Chun, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA</td>
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<td>1:55 PM</td>
<td>Endovascular Repair Of Blunt Thoracic Aortic Trauma Is Associated With Increased Left Ventricular Mass, Hypertension, And Off-target Aortic Remodeling</td>
<td>Alexey Kamenskiy, Univ of Nebraska Omaha, Omaha, NE; Paul Aylward, Univ of Nebraska Medical Cent, Omaha, NE; Anastasia Desyatova, Univ of Nebraska Omaha, Omaha, NE; Matthew DeVries, Christopher Wichman, Univ of Nebraska Medical Ctr, Omaha, NE; Jason N Mactaggart, Univ of Nebraska Medical Cent, Omaha, NE</td>
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<td>2:05 PM</td>
<td>Maresin 1 Attenuates Murine Abdominal Aortic Aneurysms Via Vascular Smooth Muscle Cell Dependent TGF-β Signaling</td>
<td>Craig T Elder, Univ of Florida, Gainesville, FL; Gang Su, Gainesville, FL; Amanda Filberto, Univ of Florida Coll of Me, GAINESVILLE, FL; Guanyi Lu, Univ of Florida Coll of Me, GAINESVILLE, FL, Gainesville, FL; Zhihua Jiang, UNIVERSITY OF FLORIDA COM, Gainesville, FL; Ashish Sharma, UNIVERSITY OF FLORIDA, Gainesville, FL; Gilbert R UPCHURCH Jr., Univ of FL Dept of Surgery, Gainesville, FL</td>
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<td>2:15 PM</td>
<td>A Theranostic Role For Ccr2 In Rodent Abdominal Aortic Aneurysm Development And Rupture</td>
<td>Sergio Sastriques Dunlop, Washington Univ Sch Med, Saint Louis, MO; Batool Arif, Sean English, Washington Univ Sch Med, SAINT LOUIS, MO</td>
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<td>2:25 PM</td>
<td>Polygenic Risk Score Identifies Patients At Increased Risk For Abdominal Aortic Aneurysm And May Benefit From Ultrasound Screening</td>
<td>Derek Klarin, Univ of Florida Coll of Med, Gainesville, FL; Ozan Dikilitas, Mayo Clinic, Rochester, MN; Brooke Wolford, Univeristy of Michigan, Ann Arbor, MI; Michael Levin, Univ of Pennsylvania Sch of Med, Philadelphia, PA; Ishan Paranjpe, Mount Sinai Sch of Med, New York, NY; Renae Judy, Univ of Pennsylvania Sch of Med, Philadelphia, PA; Julie Lynch, Dept of Veterans Affairs, Salt Lake City Health Care System, Salt Lake City, UT; Themistocles L Assimes, Stanford Univ Sch of Med, Palo Alto, CA; Yan Sun, Emory Univ, Atlanta, GA; Daniel Rader, Univ of Pennsylvania Sch of Med, Philadelphia, PA; Peter W</td>
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Wilson, Emory Univ Sch of Med, Atlanta, GA; Salvatore Scali, Scott Berceli, Univ of Florida Coll of Med, Gainesville, FL; Sekar Kathiresan, Verve Therapeutics, Cambridge, MA; Pradeep Natarajan, Massachusetts General Hosp, Boston, MA; Girish Nadkarni, Mount Sinai Sch of Med, New York, NY; Cristen Willer, Univ of Michigan, Ann Arbor, MI; Iftikhar Kullo, Mayo Clinic, Rochester, MN; Scott M Damrauer, Universiy of Pennsylvania Sch of Med, Philadelphia, PA; Philip Tsao, Stanford Univ Sch of Med, Palo Alto, CA

2:35 PM Pharmacological Inhibition Of Bruton's Tyrosine Kinase Attenuates Experimental Abdominal Aortic Aneurysms
Baohui Xu, STANFORD UNIVERSITY SCHOOL OF MEDIC, Stanford, CA; yankui li, Stanford Univ Sch of Med, Stanford, CA; Gang Li, STANFORD UNIVERSITY SCHOOL OF MEDIC, Stanford, CA; Yingbin Ge, Nanjing Medical Univ, Nanjing, China; Jia Guo, Stanford Univ Sch of Med, Stanford, CA; Weirong Fang, China Pharmaceutical Univ, Nanjing, China; Wei Wang, Xiangya Hosp, Central South Univ, Chnagsha, China; Fanru Shen, STANFORD UNIVERSITY SCHOOL OF MEDIC, Stanford, CA; Takahiro Shoji, Vascular Surgery, Stanford, Stanford, CA; Toru Ikezoe, Xiaoya Zheng, STANFORD UNIVERSITY SCHOOL OF MEDIC, Stanford, CA; Shai Zhao, Stanford Univ Sch of Med, Stanford, CA; Xiaofeng Chen, TAIZHOU HOSPITAL, Taizhou, Masaaki MIYATA, KAGOSHIMA CITY HOSPITAL, Kagoshima, Japan; Alan Daugherty, UNIVERSITY OF KENTUCKY, Lexington, KY; Hong Lu, Univ of Kentuky Sch of Med, Lexington, KY; Ronald L DALMAN, STANFORD UNIVERSITY MEDICAL CE, Stanford, CA

2:45-2:50 Landscape Of Human Secretome In Abdominal Aortic Aneurysm Profiled By Single-cell RNA Sequencing.
Bhama Ramkhelawon, NYU MEDICAL CENTER, New York, NY; Tarik Hadi, NYU Langone Medical Ctr, New York, NY; Michele Silvestro, NYU Sch of Med, New York, NY

2:50 PM BREAK

3:05 PM TRANSLATIONAL PANEL: Immunology and Vascular Disease
Moderator: Katherine Gallagher, MD
Moderator: Ali AbuRahma, MD, SVS Vice-President

Myocardial Infarction and Cross Disease Communication
Kathryn J. Moore, PhD
Professor of Cell Biology
Director, NYU Cardiovascular Research Center
New York University Langone Health

The Balance of Life and Death in Atherosclerosis
Katey Rayner, PhD
Associate Professor
Member, College of the Royal Society of Canada
Department of Biochemistry, Microbiology & Immunology
Faculty of Medicine, University of Ottawa Heart Institute

CANCELED
ABSTRACT SESSION IV: ATHEROSCLEROSIS AND ROLE OF THE IMMUNE SYSTEM

Moderator: Ryan McEnaney, MD
Moderator: Mireille Ouimet, PhD

4:05 PM  Absence Of Cpla2 In Lrp1 Smooth Muscle Cell Deficient Mice Promotes Severe Aortic Atherosclerotic Disease
Roberto Ivan Mota Alvidrez, Shirling Tsai, Joachim Herz, Univ of Texas Southwestern Medical Ctr, Dallas, TX

4:15 PM  Chitinase-3-like Protein 1: From A Biomarker In Cardiovascular Disease To Its Functional Role In Atherosclerosis
Pavlos Tsantilas, Dept of Vascular and Endovascular Surgery, Klinikum Rechts der Isar, Technicul Univ of Munich, Germany; Ying Wang, Stanford Univ, E Palo Alto, CA; Yoko Kojima, Stanford Univ, Stanford, CA; Jianqin Ye, Stanford, Vascular Surgery, Stanford, CA; Alyssa Flores, Stanford Univ, Stanford, CA; Kai-Uwe Jar, Stanford Univ, Stanford, CA, Stanford, CA; Ulf Hedin, KAROLINSKA INSTITUTE, Stockholm, Sweden; Philip S Tsao, Stanford Univ, Stanford, CA; Lars Maegdefessel, Stanford Univ, Stanford, CA, Munich; Nick J Leeper, STANFORD UNIVERSITY, Stanford, CA

4:25 PM  Vascular Smooth Muscle Cells Release Protease Nexin-1 In Cell Models Of Atherosclerosis And Human Carotid Plaque
Elizabeth L Chou, MGH Vascular Surgery, Boston, MA; Christian L Lino Cardenas, MGH CVRC, Boston, MA; Mark F Conrad, MGH Vascular Surgery, Boston, MA; Mark E Lindsay, MASSACHUSETTS GENERAL HOSPITAL, Boston, MA

4:35 PM  Circulating Fatty Acid Synthase And Diabetes Are Independently Associated With Chronic Limb Threatening Ischemia
Shirli Tay, Amanda Penrose, Gayan S De Silva, Yan Yan, Washington Univ Sch of Med, St. Louis, MO; Clay F Semenkovich, WASHINGTON UNIV SCH OF MED, Saint Louis, MO; Mohamed A Zayed, WASHINGTON UNIVERSITY SCHOOL M, Saint Louis, MO

4:45-4:50  ZEB2 Regulates Activation And Exhaustion Programming Of CD8 TCells In Atherosclerosis
Dawn Fernandez, Nicolas F Fernandez, adeeb Rahman, Christopher Hill, Mount Sinai, New York, NY; Roza Shamailova, Icahn Sch of Med, New York, NY; Seunghee Kim-schulze, J Mocco, Peter Faries, Miriam Merad, Chiara Giannarelli, Mount Sinai, New York, NY

4:50-4:55  The Role Of Mast Cells In Atherosclerotic Plaque Calcification
Nikolaos Taxiarchis Skenteris, Malin Kronqvist, Mariette Lengquist, Karolinska Inst, Solna, Sweden; Ulf Hedin, Karolinska Inst, Stockholm, Sweden; Erik L Biessen, Maastricht Univ Medical Ctr, Maastricht, Netherlands; Ljubica Matic, Karolinska Inst, Stockholm, Sweden

CANCELED
POSTER SESSION TITLES AND AUTHORS

Structural Mapping Of Rare Exonic Missense Variants In ANGPTL3 Reveals Differential Pathogenic Mechanisms

Serial Ct Surveillance Of Abdominal Aortic Aneurysm Diameter Demonstrates Predominantly Linear Growth (N-TA-CT)
Sydney L Olson, Univ of Wisconsin-Madison, Madison, WI; Mamiker Wijesinha, Univ of Maryland Sch of Med, Baltimore, MD; Annalise M Panthofer, Univ of Wisconsin-Madison, Madison, WI; William C Blackwelder, Univ of Maryland Sch of Med, Baltimore, MD; Gilbert R Upchurch Jr., Univ of FL Dept of Surgery, Gainesville, FL; Michael Terrin, Univ of Maryland Baltimore, Baltimore, MD; John A Curci, Vanderbilt Univ Medical Ctr, Nashville, TN; Bernard Timothy Baxter, Nebraska Med, Omaha, NE; Jon Matsumura, UNIVERSITY WISCONSIN, Madison, WI

Pre-stiffened Arteries From Fibulin-5 Knockout Mice Have Accelerated Atherosclerosis After Partial Carotid Ligation
Feifei Li, Sandeep Kumar, Emory Univ, Atlanta, GA; Hanjoong Jo, EMORY UNIVERSITY, Atlanta, GA; Luke P Brewster, EMORY UNIVERSITY HOSPITAL, Atlanta, GA

Local Aortic Wall Expansion Measured With Automated Image Analysis

Identification Of A Sortable Phenotype To Isolate Protease-producing Myeloid Cells From Human Abdominal Aortic Aneurysm And Chronic Obstructive Pulmonary Disease Tissue
Matthew J Kelly, Malcolm DeCamp, Univ of Wisconsin-Madison, Madison, WI; Dai Yamanouchi, UNIVERSITY OF WISCONSIN MADISON, Madison, WI

10-year Nationwide Outcomes Show That Females Have A Higher Risk Of Death, But A Lower Risk Of Major Amputation After Revascularization For Acute Limb Ischemia
Jessica M Mayor, Jason L Salemi, Deepa Donganwar, Hamisu Salihu, Miguel Montero-Baker, Joseph L Mills Sr.: Baylor Coll of Med, Houston, TX

Viscoelastic Patch De-adhesion From Wrinkling Surfaces As Models Of Realistic Thrombus Behavior
Nhung Nguyen, Sachin Velankar, Dept of Chemical Engineering, Univ of Pittsburgh, Pittsburgh, PA; Edith Tzeng, Dept of Surgery, Univ of Pittsburgh Medical Ctr, Pittsburgh, PA; Enrique Cerda,
Dept of Physics, Univ de Santiago de Chile, Santiago, Chile; Luka Pocivavsek, Dept of Surgery, The Univ of Chicago, Chicago, IL

**Single-Cell Transcriptomic Analysis Identifies Differences In Skeletal Muscle Macrophages In A Human Critical Limb Ischemia Patient And A Murine Model Of Hindlimb Ischemia**
Lindsey Olivere, Duke Univ Sch of Med, Durham, NC; Yu Xiang, James Otto, Timothy McCord, Christopher Kontos, Yarui Diao, Kevin Southerland, Duke Univ, Durham, NC

**Sex Differences In The Prevalence Of Diastolic Dysfunction In Peripheral Arterial Disease Patients Undergoing Percutaneous Transluminal Angioplasty**
Kyung-hee Kim, Sejong General Hosp, Incheon, Korea, Republic of; Seung-woon Rha, KOREA UNIV GURO HOSP, Seoul, Korea, Republic of; Yoonjee Park, Korea Univ. Guro Hosp, Seoul; Jae Kyeong Byun, Korea Univ. Guro Hosp, Seoul, Seoul; Byoung Geol Choi, CIRI, Seoul; J in Oh Na, CIRI, Seoul, Seoul; Chang Gyu Park, Korea university, guro hospital, Seoul, Korea, Republic of; Hong-Seog Seo, Korea Univ Guro-Hosp, Seoul

**Serum Hepatocyte Growth Factor Level As The Biomarker For Postoperative Intimal Hyperplasia**
Mitsuhiro Yamamura, Hyogo Coll of Med, Nishinomiya, Hyogo, Japan; Masaaki Ryomoto, Hyogo College of Med, Nishinomiya, Hyogo, Japan; Naosumi Sekiya, Hisashi Uemura, Hyogo Coll of Med, Nishinomiya, Hyogo, Japan; Masayuki Nishiyama, Hyogo Coll of Medicine, Nishinomiya, Hyogo, Japan; Taichi Sakaguchi, Hyogo Coll of Med, Nishinomiya, Hyogo, Japan

**Artificial Intelligence System Performance For Autonomous Aortic Interventions**
Dimitrios Miserlis, UTSA - UTHSCSA, San Antonio, TX; TEJA GUDA, UTSA, San Antonio, TX; Mark G Davies, UTHSCSA, San antonio, TX; AMIR JAFARI, MILTIADIS ALAMANITIS, UTSA, San Antonio, TX

**Towards Automated Detection Of Peripheral Artery Disease Using Electronic Health Records**
Vivian Ho, Stanford Univ Sch of Med, Stanford, CA; Nick J Leeper, Nigam H Shah, STANFORD UNIVERSITY, Stanford, CA; Elsie Ross, Stanford Univ Sch of Med, Stanford, CA

**Long-term Survival After Amputation Among Medicare Patients With Concomitant Diabetes And Peripheral Artery Disease**
J Aaron Barnes, Mark A Eid, Zachary J Wanken, Dartmouth-Hitchcock Medical Ctr, Lebanon, NH; Barbara Gladders, Andrea M Austin, The Dartmouth Inst, Lebanon, NH; Richard J Powell, David H Stone, Dartmouth-Hitchcock Medical Ctr, Lebanon, NH; Mark W Feinberg, Brigham and Womens Hosp, Boston, MA; Marc P Bonaca, CPC Clinical Res, Aurora, CO; Mark A Creager, Philip P Goodney, Dartmouth-Hitchcock Medical Ctr, Lebanon, NH

**Loss Of CCN3 Promotes MMP-2 Activity In Conditioned Media Of Human Vascular Smooth Muscle Cells**
Bo Li, John A Curci, Vanderbilt Univ. Medical Ctr, Nashville, TN

**Contrast Enhanced Computed Tomographic Angiography Protocol For The Assessment Of Thoracic Aortic Diameters In A Murine Model**
Microstructural Analysis Of Healthy And Chronically Dissected Human Aortic Tissue Using Diffusion Tensor Magnetic Resonance Imaging
Scott T Robinson, Univ of Michigan, Ann Arbor, MI; Alan Stone, Trinity Coll Dublin, Dublin, Ireland; Ruth Levey, Natl Univ of Ireland Galway, Galway, Ireland; Rachel Beatty, Natl Univ of Ireland Galway, Galway, Ireland; Brooke Tomifoglio, Trinity Coll Dublin, Dublin, Ireland; Peter Henke, Univ of Michigan, Ann Arbor, MI; Tiona Lally, Trinity Coll Dublin, Dublin, Ireland; Garry P Duffy, Natl Univ of Ireland Galway, Galway, Ireland

"Compression Therapy Is Contraindicated In Patients With Peripheral Arterial Disease": An Outdated Concept?
Joyce Lu, M. Ashraf Mansour, Spectrum Health, Grand Rapids, MI

MicroRNA-196 From Stem Cell Derived Exosomes Suppresses Elastin Mediated Macrophage Expression Of Pro-inflammatory Cytokines.
Adam Oskowitz, UCSF, San Francisco, CA; Robert Raffaj Jr., Univ of California San Francisco, San Francisco, CA; Laura Bouchareycha, UCSF - SFVA Medical Ctr, San Francisco, CA; Michael S Conte, UC SAN FRANCISCO, San Francisco, CA

Satellite Cell Expression Of Rage Is Important For Collateral Vessel Formation
Giji Joseph, William Robert Taylor, Emory Univ, Atlanta, GA; Laura M Hansen, EMMORY UNIVERSITY, Atlanta, GA

Wnt16 Regulates Vascular Matrix Metabolism And Arterial Stiffness In The Ldlr-/- Mouse Model Of Diet-induced Metabolic Syndrome
Abraham Samuel Behmann, UT Southwestern, Dallas, TX; Dalian Zhong, Parastoo Sabaeifard, Li Li, Mohammad Goodarzi, Andrew Lemoff, Dwight A Towler, UT SOUTHWESTERN MEDICAL CENTER, Dallas, TX

Biomaterials-based Delivery Of Angiogenic Messenger RNA Enhances Arteriogenesis In A Porcine Model Of Limb Ischemia
Ngan F Huang, STANFORD UNIVERSITY, Stanford, CA; Tatiana Zaitseva, Fibralign Corp, Union City, CA; Guang Yang, STANFORD UNIVERSITY, Stanford, CA; Dimitris Dionyssiou, Fibralign Corp, Union City, CA; Maedeh ZAMANI, Fibralign Corp, Union City, CA, Palo Alto, CA; Steve Sawamura, Fibralign Corp, Union City, CA; Eduard Jakubov, PhaRNA, Houston, TX; Richard Hallett, Dominik Fleischmann, STANFORD UNIVERSITY, Stanford, CA; Michael Paukshto, Fibralign Corp, Union City, CA

Reduced CD73 Activity Increases Elastin And Contractility In Vascular Smooth Muscle Cells
Ryan Wong, Jack Callahan, William J Moorhead III, Claire C Chu, Cynthia St Hilaire, Univ of Pittsburgh, Pittsburgh, PA

Critical Role Of The Cytosolic Dna Sensor Cgas In Aortic Degeneration, Dissection, And Rupture
Wei Luo, Yang Li, Yidan Wang, Lin Zhang, Baylor college of medicine, Houston, TX; Chen Zhang, Baylor college of medicine, Houston, TX; Yanming Li, Baylor college of medicine, Houston, TX; Pingping Ren, BAYLOR COLLEGE OF MEDICINE, Houston, TX; Ashley Dawson, Waled Ageedi, Baylor college of medicine, Houston, TX; Joseph S Coselli, Baylor Coll of Med, Houston, TX; Scott A Lemaire, Ying H Shen, BAYLOR COLLEGE MEDICINE, Houston, TX
Monosomy X In Female Mice Influences The Regional Formation And Severity Of Angiotensin II-induced Aortopathies
Yasir Alsiraj, Univ of Kentucky, Lexington, KY; Sean E Thatcher, UNIVERSITY OF KENTUCKY, Lexington, KY; Eric Blalock, Univ of Kentucky, Lexington, KY; Lisa A Cassis, UNIVERSITY KENTUCKY, Lexington, KY

Regression Of Advanced Atherosclerotic Lesions In Response To Long Term Chow Diet Feeding Is Associated With Increased IL-1β-dependent Endo-Mt
Santosh Kamewar, Richard Baylis, Xenia Bradley, Vaishnavi Kamewar, university of Virginia, charlottesville, VA; Gabriel Alencar, UNIVERSITY OF VIRGINIA, Charlottesville, VA; Gary K Owens, UNIVERSITY VIRGINIA, Charlottesville, VA

Inhibition Of Ligand Dependent AT1A Receptor Activity Attenuates Thoracic Aortic Aneurysms In A Marfan Mouse Model
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A Multidimensional Measure Of Chronic Stress, Coronary Artery Disease, And Association With Metabolic And Immune Pathways In Psoriasis
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Mitigating Effects Of Pentagalloyl Glucose On Topical Elastase And Calcium Chloride Models Of Murine Abdominal Aortic Aneurysms
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Tissue Factor-Targeted Nanoparticles Enhance Delivery Of A Synthetic Pro-resolving Lipid Mediator (SPM) To Injured Vascuature
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Ischemic-trained Monocytes Improve Hindlimb Ischemia Outcomes
Gustavo Falero-Diaz, Catarina Barboza, Felipe Pires, Roberto I Vazquez-Padron, UNIVERSITY OF MIAMI, Miami, FL; Omaida Caridad Velazquez, Univ of Miami Miller Sch of Med, Miami, FL; Roberta M Lassance-Soares, UNIVERSITY OF MIAMI, Miami, FL
Targeted Mir-146a; An Innovative Treatment Modality For Shear Stress-induced Vascular Inflammation.

Islam Mohamed, California Northstate Univ, Elk Grove, CA; Kimberly Rooney, Emory Univ, Atlanta, GA; Katherine Ferrara, Stanford Univ, Stanford, CA; Charles D Searles Jr., EMORY UNIVERSITY, Atlanta, GA

A Novel Mouse Arteriovenous Fistula Model Recapitulates Central Venous Stenosis

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