



Vascular Discovery: From Genes to Medicine 2021

| TIME (all times are CDT) | EVENT |
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| 8:30 to 8:45 AM | <p>Wednesday, September 22, 2021</p> <p>Conference Preview, Coffee with the Chairs</p> <p>Lars Maegdefessel, MD, PhD, Technical University Munich, Munich, Germany</p> <p>Katey Rayner, PhD, University of Ottawa Heart Institute, Ottawa, Ontario, Canada</p> |
| 8:45 to 9:00 AM | <p>Conference Opening Welcome</p> <p>8:45 Opening Remarks Donald M. Lloyd-Jones, MD, ScM, FACC, FAHA, American Heart Association President</p> <p>8:55 Welcome Remarks Lars Maegdefessel, MD, PhD, Chair, Vascular Discovery Annual Conference</p> |
| 9:00 to 10:20 AM | <p>Plenary Session 1: Vascular Complications of COVID-19</p> <p>9:00 Innate and Adaptive Immune Regulation of Thrombosis in COVID-19 Yogendra Kanthi, MD, NIH/NHLBI, Bethesda, Maryland</p> <p>9:20 Mechanisms of Endothelial Activation in Severe COVID19 Anna Randi, MD, PhD, National Heart and Lung Institute, Imperial College, London, United Kingdom</p> <p>9:40 iClinical Trials Targeting Thrombosis in COVID19; the NIH CONNECTS Network and ACTIV Trials Clyde W. Yancy, MD, MSc, Northwestern University Feinberg School of Medicine, Chicago, Illinois</p> <p>10:00 Post-session Discussion/Q&A</p> |
| 10:20 to 10:30 AM | <p>Break + Exhibits</p> |
| 10:30 to 11:50 AM | <p>Concurrent Session 01a: Highlights from the ATVB Journal</p> <p>10:30 Daniel Steinberg Early Career Investigator Award in Atherosclerosis/Lipoproteins: Novel Autoimmune IgM Antibody Attenuates Atherosclerosis in IgM Deficient Low-Fat Diet-Fed, but Not Western Diet-Fed Apoe -/- Mice</p> |



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| | <p>Olga A. Cherepanova, PhD, Lerner Research Institute, Cleveland Clinic, Cleveland OH</p> <p>10:40 Karl Link Career Investigator Award in Thrombosis: Short-Term Exposure to Waterpipe/Hookah Smoke Triggers a Hyperactive Platelet Activation State and Increases the Risk of Thrombogenesis Fatima Z. Alshbool, PhD, Texas A&M University, Kingsville, TX</p> <p>10:50 Werner Risau Early Career Investigator Award in Vascular Biology: Endothelial GLP-1 (Glucagon-Like Peptide 1) Receptor Mediates Cardiovascular Protection by Liraglutide in Mice with Experimental Arterial Hypertension Sebastian Steven, MD, University Medical Center, Mainz, Germany</p> <p>11:00 Molecular Mechanisms That Regulate Platelet Function Under Flow Elizabeth Gardiner, PhD, The Australian National University, Canberra, Australia</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| 10:30 to 11:50 AM | <p>Concurrent Session 01b: Molecular and Cellular Mechanisms of Atherosclerosis</p> <p>10:30 Abstract Presentation Number 100 Mitochondrial Dynamics Directs Macrophage Polarization During Atherosclerosis: Implications for Disease Regression Leah I Susser, My Anh Nguyen, UOHI, Ottawa, ON, Canada; Michele Geoffrion, Ottawa, ON, Canada; Mireille Khacho, Univ of Ottawa, Ottawa, ON, Canada; Katey J Rayner, UNIV OTTAWA HEART INST, Ottawa, ON, Canada</p> <p>10:45 Abstract Presentation Number 101 B1b Cell Homeostasis Is Maintained by Cd40 in Atherosclerosis Myrthe E Reiche, Amsterdam UMC, Amsterdam, Netherlands; Oom Pattarabajinard, Univ of Virginia, Charlottesville, VA; Aditi Upadhye, Univ of Virginia, Charlottesville, VA, Charlottesville, VA; Kikkie Poels, Amsterdam UMC - Location AMC, Amsterdam; Claudia van Tiel, Amsterdam UMC, Amsterdam, Netherlands; Stephen G Malin, Karolinska Instt, Stockholm, Sweden; Christoph J Binder, MEDICAL UNIVERSITY VIENNA, Vienna; Norbert Gerdes, Univ Hosp Duesseldorf, Duesseldorf; Christian Weber, KREISLAUFINSTITUT, Munich; Dorothee Atzler, KREISLAUFINSTITUT, Munich, Munich; Coleen A McNamara, UNIVERSITY VIRGINIA, Charlottesville, VA; Esther Lutgens, Amsterdam Univ Medical Ctr, Amsterdam</p> <p>11:00 Abstract Presentation Number 102 Apolipoprotein E Receptor 2 In Endothelium Affords Protection from Both Atherosclerosis and Insulin Resistance Anastasia Sacharidou, UT Southwestern Medical Center, Dallas, TX; Linzhang Huang, Institute of Material Medica, Beijing, China; Keiji Tanigaki, Chieko Mineo, Philip W Shaul, UT Southwestern Medical Center, Dallas, TX</p> <p>11:15 Abstract Presentation Number 103</p> |



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| | <p>Smooth Muscle Cell Specific Overexpression of Adamts7 Drives Atherosclerosis Development Through the Remodeling of The Extracellular Matrix Allen Chung, Columbia Univ Irving Medical Ctr, New York, NY; Hyun-kyung Chang, Rajesh Soni, Columbia Univ, New York, NY; Muredach P Reilly, Columbia University Medical Center, New York, NY; Robert C Bauer, Columbia University, New York, NY</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| 10:30 to 11:50 AM | <p>Concurrent Session 01c: Translational Science in Vascular Medicine I</p> <p>10:30 Abstract Presentation Number 104 Massively Parallel Validation of Genetic Variants with Inflammatory-specific Effects in Human Endothelial Cells Lindsey K Stolze, The Univ of Arizona, Tucson, AZ; Anu Toropainen, Tiit Ord, Univ of Eastern Finland, Kuopio, Finland; Michael B Whalen, The Univ of Arizona, Tucson, AZ; Minna Kaikkonen, Univ of Eastern Finland, Kuopio, Finland; Casey E Romanoski, Univ of Arizona, Tucson, AZ</p> <p>10:45 Abstract Presentation Number 105 Chronic Stress Primes Innate Immune Responses in Mice and Humans Tessa J Barrett, NYU SCHOOL OF MEDICINE, New York, NY; Emma Corr, Cabinteely; Coen Solingen, NYUMC LANGONE MEDICAL CENTER, New York, NY; Florencia Schlamp, Emily J Brown, NYU SCHOOL OF MEDICINE, New York, NY; Graeme J KOELWYN, New York, NY; Angela Lee, NEW YORK UNIVERSITY, New York, NY; Lianne Shanley, Trinity Coll Dublin, Dublin; Tanya Spruill, Fazli Bozal, Annika De Jong, NYU SCHOOL OF MEDICINE, New York, NY; Alexandra Newman, New York Univ, New York, NY; Kamelia Drenkova, New York Univ, New York, NY, New York, NY; Michele Silvestro, NYU Sch of Med, New York, NY; Bhama Rhamkhelawon, NYU SCHOOL OF MEDICINE, New York, NY; Harmony Reynolds, NYU SCHOOL OF MEDICINE, New York, NY; Judith S Hochman, Matthias Nahrendorf, NYU SCHOOL OF MEDICINE, New York, NY; Filip K Swirski, MASSACHUSETTS GENERAL HOSP, Boston, MA; Edward A A Fisher, NYU LANGONE MEDICAL CENTER, New York, NY; Jeffrey S Berger, NEW YORK UNIVERSITY SCHOOL OF MEDICINE, New York, NY; Kathryn J Moore, NEW YORK UNIV MEDICAL CTR, New York, NY</p> <p>11:00 Abstract Presentation Number 106 Novel Nanoparticle-mediated Robust Genome Editing Targeting the Vascular Endothelium of Postnatal And Adult Mice Xianming Zhang, Xiaojia Huang, Hua Jin, Birendra Chaurasiya, Daoyin Dong, Youyang Zhao, Northwestern U-Lurie Children's Hosp of Chicago, Chicago, IL</p> <p>11:15 Abstract Presentation Number 107 PKM2 Promotes Neutrophil Activation and Cerebral Thrombo-inflammation: Therapeutic Implications for Ischemic Stroke Nirav Dhanesha, Rakeshkumar Patel, Univ of Iowa, Iowa City, IA; Manish Jain, university of Iowa, Iowa City, IA; Mariia Kumskova, Univ of Iowa, Iowa City, IA; Daniel Thedens, Univ Iowa, Iowa City, IA; Heena M Olalde, Univ of Iowa Hosp, Iowa City, IA; Manasa Nayak, Prakash Doddapattar, Enrique C. C Leira, Anil K Chauhan, Univ of Iowa, Iowa City, IA</p> |



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| | 11:30 Post Session Live Discussion/Q&A |
| 11:50 AM to 12:00 PM | Break + Exhibits |
| 12:00 to 1:00 PM | Outstanding Mentorship of Women Award and Featured Presentation 2021 Outstanding Mentorship of Women Awardee and Featured Presentation Ann Marie Schmidt, MD, NYU Langone Health, New York, New York |
| 1:00 to 2:00 PM | Moderated Poster Session MPS01: Emerging Scientist Award for Women Competition 1:00 Introduction 1:05 Abstract Presentation Number MP01 Retinoic Acid Receptor Alpha (Rar α) In Macrophages Protects from Diet-induced Atherosclerosis In Mice Fathima Nafrisha Cassim Bawa, Yingdong Zhu, Kent State Univ, Kent, OH; Raja Gopaju, Yanyong Xu, shuwei hu, Northeast Ohio Medical Univ, Rootstown, OH; Kavita Jadhav, Kent State Univ, Kent, OH; Yanqiao Zhang, NORTHEAST OHIO MEDICAL UNIVERS, Rootstown, OH 1:15 Abstract Presentation Number MP02 Proprotein Convertase Subtilisin/kexin Type 6 (PCSK6) Is Involved in Regulation of Vasculogenesis Melody Chemaly, Karolinska Instt, Solna, Sweden; Bianca Esmee Suur, Karolinska Inst, Stockholm, Sweden; Hong Jin, Karolinska Instt, Stockholm, Sweden; Anders Malarstig, Ljubica Matic, Karolinska Instt, Solna, Sweden 1:25 Abstract Presentation Number MP03 Histone-mediated Platelet Activation and Microvesicle-induced Thrombin Generation In COVID-19 Alicia S. Eustes, Jagadish Swamy, melissa jensen, Katina M Wilson, Univ of Iowa, Iowa City, IA; Shibani M Kudchadkar, Des Moines, IA; Usha Perepu, Univ of Iowa, Iowa City, IA; Francis J Miller Jr., Duke Univeristy, Durham, NC; Steven R Lentz, UNIVERSITY OF IOWA, Iowa City, IA; Sanjana Dayal, UNIVERSITY IOWA HEALTH CARE, Iowa City, IA 1:35 Abstract Presentation Number MP04 Single Cell Profiling Identifies IgM To MDA-LDL Producing Human B Cells and Atheroprotective Role of CD24 Tanyaporn Pattarabanjird, Univ of Virginia, Charlottesville, VA; Anh Nguyen, Duke, Durham, NC; Chantel McSkimming, Univ of Virginia, Charlottesville, VA; Huy Dinh, Univ of Wisconsin, Madison, WI; Melissa Marshall, Univ of Virginia, Charlottesville, VA; Yanal Ghosheh, La Jolla Inst for Immunology, La Jolla, CA; Chirstopher Durant, La Jolla Inst of Immunology, La Jolla, CA; Jenifer Vallejo, Rishab Gulati, La Jolla Inst for Immunology, San Diego, CA; Ryosuke Saigusa, La Jolla Inst, La Jolla, CA; Fabrizio Drago, Univ of Virginia, Charlottesville, VA; |



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| | <p>Angela Taylor, Univ of Virginia, Charlottesville, VA; Ayelet Gonen, UCSD, La Jolla, CA; Sotirios Tsimikas, Yury I Miller, UNIV CALIFORNIA SAN DIEGO, La Jolla, CA; Klaus F Ley II, La Jolla Inst, La Jolla, CA; Catherine C Hedrick, La Jolla Inst for Allergy and, La Jolla, CA; Coleen A McNamara, UNIVERSITY VIRGINIA, Charlottesville, VA</p> <p>1:45 Abstract Presentation Number MP05 Sex Differences in Mortality And 30-day All Cause Readmission Following Carotid Endarterectomy Following Acute Ischemic Stroke: A Nsqip Study (2014 - 2017) Mariana M Suarez, Massachusetts Inst of Technology, Cambridge, MA; Anshul Saxena, Venkataraghavan Ramamoorthy, Muni Rubens, Peter McGranaghan, Emir Veledar, Baptist Health South Florida, Coral Gables, FL; Mahdi O Garelnabi, UMass Lowell, Lowell, MA</p> <p>1:55 Concluding Remarks</p> |
| 1:00 to 2:00 PM | <p>Moderated Poster Sessions MS02: ATVB Investigator in Training Award Competition</p> <p>1:00 Abstract Presentation Number MP06 The Signaling Roles of The Adaptor Protein Nck1 in Atherosclerosis. Mabruka Alfaidi, Milla Reddick, LSU Health Sciences Ctr-Shreveport, Shreveport, LA; Xingguo Shen, LSU HEALTH - SHREVEPORT, Shreveport, LA; Wayne Orr, LSU Health Sciences Ctr-Shreveport, Shreveport, LA</p> <p>1:15 Abstract Presentation Number MP07 Multi Omic Atlas of Human Coronary Artery Disease Junedh M Amrute, Andrea Bredemeyer, Washington Univ Sch of Med in St. Louis, Saint Louis, MO; Xin Luo, Tracy Yamawaki, Amgen Inc, South San Francisco, CA; Andrew Koenig, Cameran Jones, Washington Univ Sch of Med in St. Louis, Saint Louis, MO; Simon Jackson, Milena B Furtado, Sally Shi, Chi-Ming Li, Brandon Ason, Amgen Inc, South San Francisco, CA; Nathan O Stitzel*, Kory J Lavine, Washington Univ Sch of Med in St. Louis, Saint Louis, MO</p> <p>1:30 Abstract Presentation Number MP08 Telomerase Reverse Transcriptase Mediates Osteogenesis in Calcific Aortic Valve Rolando A Cuevas, Univ of Pittsburgh, Pittsburgh, PA; Luis Hortells, Cincinnati Children's Hosp, Cincinnati, OH; Camille Boufford, Cincinnati Children's Hosp, Cincinnati, OH, Vermillion, SD; Cailyn Regan, VMI St. Hilaire Lab, Pittsburgh, PA; Ryan Wong, Alexander Crane, Univ of Pittsburgh, Pittsburgh, PA; Claire Chu, Pittsburgh, PA; William Moorhead, UNIVERSITY OF PITTSBURGH, Pittsburgh, PA; Angela Lee, Univ of Pittsburgh, Pittsburgh, PA; Michael Bashline, Univ of Pittsburgh Medical Ce, Pittsburgh, PA; Aditi Gurkar, Aging Inst, Univ of Pitt, Pittsburgh, PA; Dennis Bruemmer, Aging Inst, Univ of Pitt, Pittsburgh, PA, Pittsburgh, PA; mauricio rojas, Aging Inst, Univ of Pitt, Pittsburgh, PA, Pittsburgh, PA, pittsburgh, PA; Thomas G Gleason, Univ of Maryland, Baltimore, MD; Marie Billaud, Ibrahim Sultan, Cynthia St. Hilaire, Univ of Pittsburgh, Pittsburgh, PA</p> <p>1:45 Abstract Presentation Number MP09</p> |



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| | <p>MLKL (Mixed Lineage Kinase Domain-like Protein) Is A Novel Regulator of The Splenic Microenvironment That Restricts Hematopoiesis During Atherosclerosis Adil Rasheed, Hailey Wyatt, Ottawa Heart Inst, Ottawa, ON, Canada; Taylor Dennison, uOttawa Heart Inst, Ottawa, ON, Canada; My-anh Nguyen, UOTTAWA HEART INSTITUTE, Ottawa, ON, Canada; Sabrina Robichaud, Ottawa Heart Inst, Ottawa, ON, Canada; Michele Geoffrion, Ottawa Heart Inst, Ottawa, ON, Canada, Ottawa, ON, Canada; Adir Baxi, Ottawa Heart Inst, Ottawa, ON, Canada; Richard Lee, Ionis Pharmaceuticals, Carlsbad, CA; Mireille I Ouimet, Univ of Ottawa, Ottawa, ON, Canada; Katey J Rayner, UNIV OTTAWA HEART INST, Ottawa, ON, Canada</p> |
| 1:00 to 2:00 PM | ePoster viewing |
| 2:00 to 3:00 PM | <p>Early Career Training Session 1: Roundtable Discussions: Insights from the Early Career Committee <i>This session focuses on how to achieve success in your graduate training, post-doctoral fellowship, and post-graduate/fellowship career transitions. Each topic is led by ATVB Early Career Committee members successful in the subject area and the informal Q&A format allows for individual at all levels to discuss and ask questions on a variety of topics.</i></p> <p>Getting Your Training Grant Funded Milka Koupenova, PhD, University of Massachusetts Medical Center, Worcester, MA Brian Kim, MD, Stanford University, Palo Alto, CA</p> <p>Building a Successful International Research Program Roberto Mota, MD, University of Pittsburgh, Pittsburgh, PA</p> <p>Setting Up Your Lab, Hiring, and Switching Universities Jaume Amengual, PhD, University of Illinois, Urbana, IL Alison Kohan, PhD, University of Pittsburgh, Pittsburgh, PA</p> <p>The Importance of Mentoring and Being Mentored Robert C. Bauer, PhD, Columbia University Medical Center, New York, NY Thomas Vallim, PhD, FAHA, University of California Los Angeles, Los Angeles, CA</p> <p>Work-Life Integration Casey E. Romanoski, PhD, University of Arizona, Tucson, AZ Gregory Payne, MD, PhD, University of Alabama at Birmingham School of Medicine, Birmingham, AL</p> <p>Strategies for Project Management Mireille Ouimet, PhD, University of Ottawa, Ottawa, Ontario, Canada Cynthia St. Hilaire PhD, FAHA, University of Pittsburgh, Pittsburgh, PA</p> |
| 3:00 to 4:00 PM | Networking, Award Presentations and Recognition, Industry Events |



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| 9:00 to 10:20 AM | <p>Thursday, September 23, 2021</p> <p>Plenary Session 2: Novel Concepts of Atherosclerosis</p> <p>9:00 Clonal Hematopoiesis and Cardiovascular Disease Benjamin L. Ebert, MD, PhD, Harvard Medical School, Dana-Farber Cancer Institute, Boston, Massachusetts</p> <p>9:20 Genetic Discovery in Trans-ethnic Cohorts for Blood Lipid Levels and Implications for Polygenic Score Development: From the Global Lipids Genetics Consortium Cristen Willer, PhD, University of Michigan Medical School, Ann Arbor, Michigan</p> <p>9:40 A Translational Brake on Cholesterol Efflux and Efferocytosis Drives Atherosclerotic Progression Ebru Erbay, MD, PhD, Cedars-Sinai Medical Center, Los Angeles, California</p> <p>10:00 Post-session Discussion/Q&A</p> |
| 10:20 to 10:30 AM | Break + Exhibits |
| 10:30 to 11:50 AM | <p>Concurrent Session 02a: Kenneth M. Brinkhous Early Career Investigator Prize in Thrombosis Competition</p> <p>10:30 Abstract Presentation Number 108 Quantitative Phosphoproteomics and Causal Analysis Reveal Distinct And Combinatorial Signaling Mechanisms In Protease-Activated Receptor PAR1 And PAR4 Platelet Activation Programs Stephanie Reitsma, OHSU, Portland, OR; John Klimek, Iván Parra-Izquierdo, Oregon Health & Science Univ, Portland, OR; Ozgun Babur, Univ of Massachusetts Boston, Boston, MA; Alexander Melrose, Tony Zheng, Oregon Health & Science Univ, Portland, OR; jiaqing pang, oregonhealth science university, portland, OR; Owen J McCarty, OREGON HEALTH SCIENCE UNIVERSITY, Portland, OR; Jessica Minnier, Oregon Health & Science Univ, Portland, OR; Phillip Wilmarth, OHSU, Portland, OR; Emek Demir, Ashok Reddy, Oregon Health & Science Univ, Portland, OR; Larry David, Joseph Aslan, Oregon Health & Science Univ, Portland, OR</p> <p>10:45 Abstract Presentation Number 109 Platelets Amplify Endotheliopathy in Covid-19 Tessa J Barrett, NYU SCHOOL OF MEDICINE, New York, NY; MacIntosh Cornwell, NYU Sch of Med, New York, NY; Khrystyna Myndzar, NYU Sch of Med, New York, NY, Brooklyn, NY; Christina Rolling, NYU SCHOOL OF MEDICINE, New York, NY; Yuhe Xia, NYU Langone Health, New York, NY; Kamelia Drenkova, NYU Langone</p> |



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| | <p>Health, New York, NY, New York, NY; Antoine Biebuyck, NYU SCHOOL OF MEDICINE, New York, NY; Alexander Fields, Univ of California, San Francisco, CA; Michael Tawil, NYU Sch of Med, New York, NY; Elliot Luttrell-Williams, NYU Langone, New York, NY; Eugene Yuriditsky, NYU, New York, NY; Grace Smith, Paolo Cotzia, Natl Cancer Inst, Bethesda, MD; Matthew D Neal, MD, Sewickley, TX; Lucy Kornblith, Stefania Pittaluga, Sewickley, TX, San Francisco, CA; Amy Rapkiewicz, mineola, NY; Hannah Burgess, Ian Mohr, mineola, NY, new york, NY; Kenneth Stapleford, New York, NY; Deepak Voora, DUKE UNIVERSITY, Durham, NC; Kelly Ruggles, Judith Hochman, DUKE UNIVERSITY, Durham, NC, New York, NY; Jeffrey S Berger, NEW YORK UNIVERSITY SCHOOL MEDICINE, New York, NY</p> <p>11:00 Abstract Presentation Number 110 C1 Esterase Inhibitor Functions as An Anticoagulant In Human And Murine Venous Thrombosis Steven P Grover, UNIVERSITY OF NORTH CAROLINA CH, Chapel Hill, NC; Kristian Hindberg, Univ of Tromso, Tromso, Norway; Alisa S Wolberg, UNIV OF NORTH CAROLINA, Chapel Hill, NC; Sigrid Braekkan, Univ of Tromso, Tromso, Norway; Nigel Mackman, Univ of Chapel Hill, Chapel Hill, NC; John-bjarne Hansen, Univ of Tromso, Tromso, Norway</p> <p>11:15 Abstract Presentation Number 111 Vein-Chip Is a New Experimental Model To Predict Pathophysiology Of SARS-CoV-2 Induced Thrombosis Navaneeth Krishna Rajeeva Pandian, TAMU, College Station, TX; John H. Connor, Boston Univ, Boston, MA; John P Cooke, HOUSTON METHODIST RESEARCH INS, Houston, TX; Abhishek Jain, Texas AnM Univ, College Station, TX</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| 10:30 to 11:50 AM | <p>Concurrent Session 02b: Irvine H. Page Junior Faculty Research Award Competition</p> <p>10:30 Abstract Presentation Number 112 Examining the Heterogeneity of Primary Human Macrophages and Pharmacogenomic Networks to Identify Novel Targets For Precision Medicine For Vascular Inflammation Julius Decano, Enrico Maiorino, Joan T. Matamalas, Sarvesh Chelvanambi, Bart Tiemeijer, Edwin D'Souza, Shin Mukai, Yoshihiro Yanagihara, Mary Whelan, Takaharu Asano, Sasha A Singh, Amitabh Sharma, Elena Aikawa, Masanori Aikawa, BWH and Harvard Medical Sch, Boston, MA</p> <p>10:45 Abstract Presentation Number 113 Cell-specific Chromatin Landscape of Human Coronary Artery Resolves Mechanisms of Disease Risk Adam W Turner, Sheng-en Hu, Jose E. Verdezoto Mosquera, Wei Feng Ma, Chani J Hodonsky, Doris Wong, Gaelle E Auguste, Katia Sol-Church, Emily Farber, Univ of Virginia, Charlottesville, VA; Soumya Kundu, Anshul B. Kundaje, Nicolas G. Lopez, Stanford Univ, Stanford, CA; Lijiang Ma, Icahn Sch of Med at Mount Sinai, New York, NY; Saikat Ghosh, CVPPath Inst, Gaithersburg, MD; Suna Onengut-Gumuscu, Univ of Virginia, Charlottesville, VA; Euan A Ashley, STANFORD UNIVERSITY, Stanford, CA; Thomas Quertermous, Stanford Univ, Stanford, CA;</p> |



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| | <p>Aloke Finn, CVPath Inst, Gaithersburg, MD; Nick J Leeper, STANFORD UNIVERSITY, Stanford, CA; Jason C. Kovacic, ST VINCENTS, Bronte Nsw, Australia; Johan L.M. Bjorkegren, Icahn Sch of medicine, New York, NY; Chongzhi Zang, Clint L Miller, Univ of Virginia, Charlottesville, VA</p> <p>11:00 Abstract Presentation Number 114 Single-cell And Spatial Transcriptomics Reveal an IL-1β Mediated VSMC Phenotypic Switch During Vasculitis And Cardiovascular Inflammation Rebecca A Porritt, Cedars Sinai Medical Ctr, Los Angeles, CA; David Zemmour, Harvard Medical Sch, Boston, CA; Masanori Abe, Youngho Lee, Angela Gomez, Shuang Chen, Timothy R Crother, Kenichi Shimada, Moshe Arditi, Magali Noval Rivas, Cedars Sinai Medical Ctr, Los Angeles, CA</p> <p>11:15 Abstract Presentation Number 115 Microskeletal Stiffness Promotes Aortic Aneurysm by Sustaining Pathological Vascular Smooth Muscle Cell Mechanosensation Via Piezo1 Tarik Hadi, NYU Langone Medical Ctr, New York, NY; Cristobal Felipe Rivera, NYU MEDICAL CENTER, New York, NY; Michele Silvestro, NYU Sch of Med, New York, NY; Thomas Maldonado, Bhama Ramkhelawon, NYU MEDICAL CENTER, New York, NY</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| | <p>Concurrent Session 02c: Translational Science in Vascular Medicine II</p> <p>10:30 Abstract Presentation Number 116 Platelet-Induced Neutrophil Extracellular Traps Drive Ischemic Stroke Brain Injury Frederik Denorme, Irina Portier, Mark J Cody, Univ of Utah, Salt Lake City, UT; Matthew D Neal, MD, Univ of Pittsburgh, Pittsburgh, PA; Matthew T Rondina, Jennifer J Majersik, Christian C Yost, Robert A Campbell, Univ of Utah, Salt Lake City, UT</p> <p>10:45 Abstract Presentation Number 117 Effect Of Home-Based Leg Heat Therapy On Walking Performance In Symptomatic Peripheral Artery Disease: A Pilot Randomized Clinical Trial Jacob Monroe, PURDUE UNIVERSITY, W Lafayette, IN; Susan Perkins, Yan Han, Raghunandan Motaganahalli, Indiana Univ Sch of Med, Indianapolis, IN; Bruno Roseguini, PURDUE UNIVERSITY, W Lafayette, IN</p> <p>11:00 Abstract Presentation Number 118 Methamphetamine Causes Endothelial Dysfunction Via Reduction of Cystathionine Gamma Lyase and Hydrogen Sulfide Bioavailability Gopi Krishna K Kolluru, John D Glawe, Sibile Pardue, Ahmad Kasabali, LSU HEALTH SCIENCES CENTER, Shreveport, LA; Saranya RAJENDRAN, Indiana Univ, Bloomington, IN; Allison L Cannon, Chowdhury S Abdullah, James G Traylor, Rodney Shackelford, Matthew D Woolard, Paari Dominic, Shenuarin Bhuiyan, Wayne W Orr, Nicholas E Goeders, LSU HEALTH SCIENCES CENTER, Shreveport, LA; Chris Kevil, LSU HEALTH SHREVEPORT, Shreveport, LA</p> <p>11:15 Abstract Presentation Number 119</p> |



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| | <p>Mitochondrial Redox Mechanisms Leading To Sustained Radiation-induced Endothelial Injury Karima Ait-Aissa, Univ of Iowa, Iowa City, IA; Olha Koval, Iowa City, IA; Nathaniel R Lindsey, Kimberly Broadhurst, Univ of Iowa, Iowa City, IA; Isabella M Grumbach, CARVER COLLEGE OF MEDICINE, Iowa City, IA</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| 11:50 AM to 12:00 PM | Break + Exhibits |
| 12:00 to 1:00 PM | Omics Bootcamp 1: Introduction to Single Cell Sequencing |
| 1:00 – 2:00 PM | <p>Moderated Poster Session MPS03: Smooth Muscle Cells and Vascular Disease</p> <p>1:00 Abstract Presentation Number MP10 The Long Non-coding RNA LINC02502 Modulates Vascular Smooth Muscle Cell Phenotype Elisabeth Haag, Tan Dang, Deutsches Herzzentrum Muenchen, Munich, Germany; Jana Wobst, German Heart Ctr Munich, Munich; Carolin Hoehne, Louise Hegge, Deutsches Herzzentrum Muenchen, Munich, Germany; Hanna Winter, Klinikum rechts der Isar der TUM, Muenchen; Lars Maegdefessel, Klinikum rechts der Isar der TUM, Muenchen, Munich; Heribert Schunkert, German Heart Ctr, Munich; Thorsten Kessler, GERMAN HEART CENTRE MUNICH, Munich</p> <p>1:10 Abstract Presentation Number MP11 Histone Methyl Transferase (suv39h1): Function In Smooth Muscle Cell Phenotypic Plasticity Payel Chatterjee, Yale Univ, New Haven, CT; Raja Chakraborty, Yi Xie, YALE UNIVERSITY, New Haven, CT; Ashley Sizer, Yale Univ, New Haven, CT; John Hwa, YALE SCHOOL MEDICINE, New Haven, CT; Kathleen A Martin, YALE SCHOOL OF MEDICINE, New Haven, CT</p> <p>1:20 Abstract Presentation Number MP12 The Epigenetic Remodeling Protein Brg1 Is Implicated In Vascular Progenitor Cell Contribution To Pathological Vascular Remodeling And Fibrosis Austin Jolly, Sizhao Lu, Allison Dubner, Keith Strand, Marie Mutryn, Karen Moulton, Raphael Nemenoff, Mary Weiser-Evans, Univ of Colorado Anschutz, Aurora, CO</p> <p>1:30 Abstract Presentation Number MP13 Small RNA Profiling Identifies Mir-200b As A Repressor Of Vascular Smooth Muscle Cell Migration And Proliferation Mingyuan Du, Cristina Espinosa-Diez, Univ of Pittsburgh, pittsburgh, PA; Mingjun Liu, Sidney Mahan, Delphine Gomez, Univ of Pittsburgh, Pittsburgh, PA</p> <p>1:40 Abstract Presentation Number MP14</p> |



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| | <p>The Profibrotic Transition Of Vascular Smooth Muscle Cells-derived Resident Vascular Adventitial Progenitor Cells Contributes To Angiotensin II-induced Cardiac Fibrosis. Sizhao Lu, Keith Strand, Austin Jolly, Allison Dubner, Marie Mutryn, Raphael A Nemenoff, Karen Moulton, Timothy A McKinsey, Mary CM Weiser-Evans, Univ of Colorado-Anschutz, Aurora, CO</p> <p>1:50 Q&A/Discussion</p> |
| 1:00 – 2:00 PM | <p>Moderated Poster Session MPS04: Translational Vascular Medicine</p> <p>1:00 Abstract Presentation Number MP15 Structural Vs. Acute Load Dependent Mechanisms for Carotid Artery Stiffening With Aging: The Multi-ethnic Study Of Atherosclerosis (MESA) Ryan Pewowaruk, Univ of Wisconsin - Madison, Madison, WI; Yacob Tedla, Vanderbilt Univ Medical Cente, Nashville, TN; Claudia E Korcarz, UNIVERSITY OF WISCONSIN, Madison, WI; Matthew C Tattersall, UNIVERSITY OF WISCONSIN HOSPITAL, Madison, TX; James H Stein, UNIV WISCONSIN MED SCH, Madison, WI; Naomi C Chesler, Adam Gepner, Univ of California, Irvine, Irvine, CA</p> <p>1:10 Abstract Presentation Number MP16 Multi-trait Gwas of Atherosclerosis Detects Novel Loci and Potential Therapeutic Targets William P Bone, Univ of Pennsylvania, Philadelphia, PA; Tiffany Bellomo, Philadelphia, PA; Brian Y Chen, Katerina A Gawronski, David Zhang, Univ of Pennsylvania, Philadelphia, PA; Joseph Park, Perelman Sch of Med at the, Philadelphia, PA; Michael Levin, Noah Tsao, Univ of Pennsylvania, Philadelphia, PA; Derek Klarin, Massachusetts General Hosp, Boston, MA; julie lynch, VA Salt Lake City, Bedford, MA; Themistocles L Assimes, STANFORD UNIVERSITY, Palo Alto, CA; Michael Gaziano, Peter Wilson, STANFORD UNIVERSITY, Palo Alto, CA, Boston, MA; Kelly Cho, VA Boston Healthcare System, Boston, MA; Marijana Vujkovic, Univ of Pennsylvania, Philadelphia, PA; the VA Million Veteran Program; Chris J O'Donnell, VA Boston Healthcare System, Boston, MA; Kyong-Mi Chang, Corporal Michael J. Crescenz VA Medical Ctr, Philadelphia, PA; Philip S Tsao, VAPAHCS - Stanford Univ, Palo Alto, CA; Daniel J Rader, Marylyn Ritchie, Univ of Pennsylvania, Philadelphia, PA; Scott Damrauer, Bryn Mawr, PA; Benjamin F Voight, Corporal Michael J. Crescenz VA Medical Ctr, Philadelphia, PA</p> <p>1:20 Abstract Presentation Number MP17 TLR4 May Play a Role In Accelerated Atherosclerosis In Beta Thalassemia Julian Hurtado, Hassan Sellak, Emory Univ, Atlanta, GA; David Robert Archer, W. Robert R Taylor, EMORY UNIVERSITY SCHOOL OF MEDICINE, Atlanta, GA</p> <p>1:30 Abstract Presentation Number MP18 Mitochondrial Inducing Factor 1 Affects Stabilization Of Advanced Atherosclerotic Lesions In Carotid Artery Disease Lukas Bischoff, Technische Univ München, München, Germany; Jessica Pauli, NONE, 80802 Munich; Valentina Paloschi, TECHNICAL UNIVERSITY MUNICH, Munich; Lars Maegdefessel, TECHNICAL UNIVERSITY MUNICH, Munich, Munich</p> <p>1:40 Abstract Presentation Number MP19</p> |



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| | <p>New Insight Into The Optimal Duration Of DAPT Following PCI In High-risk Twilight-like Patients With Acute Coronary Syndrome Haoyu Wang, Kefei Dou, Fuwai Hosp, Chinese Acad of Medical Sciences & Peking Union Medical Coll, Beijing, China</p> <p>1:50 Q&A/Discussion</p> |
| 1:00 – 2:00 PM | <p>Moderated Poster Session MPS05: Aortic Aneurysms - Novel Pathways and Targets</p> <p>1:00 Abstract Presentation Number MP20 Pd-1 Pathway Upregulation by Orchiectomy Attenuates The Aldosterone And High Salt Induced Aortic Aneurysms In Male Mice Xufang Mu, Univ of Kentucky, Lexington, KY; Shu Liu, UNIV OF KENTUCKY, Lexington, KY; Timothy McClintock, Arnold Stromberg, Alejandro Villasante-Tezanos, Ming C Gong, Univ of Kentucky, Lexington, KY; Zhenheng Guo, UNIV OF KENTUCKY, Lexington, KY</p> <p>1:10 Abstract Presentation Number MP21 Transcriptomic Modulation of Second Heart Field-derived Smooth Muscle Cells In Angiotensin Ii-infused Mice Promotes Aortopathy Hisashi Sawada, Univ of Kentucky, Lexington, KY; Chen Zhang, Yanming Li, Baylor Coll of Med, Houston, TX; Yuriko Katsumata, Univ of Kentucky, Lexington, KY; Ying H Shen, Scott A Lemaire, BAYLOR COLLEGE MEDICINE, Houston, TX; Hong S Lu, UNIVERSITY KENTUCKY, Lexington, KY; Alan Daugherty, UNIVERSITY OF KENTUCKY, Lexington, KY</p> <p>1:20 Abstract Presentation Number MP22 Effect Of Nanoparticle Size and Dose On Detection Of Aortic Injury Using Nanoparticle Contrast-enhanced Computed Tomography Laxman Devkota, Chen Zhang, Prajwal Bhandari, Baylor Coll of Med, Houston, TX; Zbigniew Starosolski, Texas Children's Hosp, Houston, TX; Ying H Shen, Scott A Lemaire, Ketan Ghaghada, Baylor Coll of Med, Houston, TX</p> <p>1:30 Abstract Presentation Number MP23 Knockout of Pgc1α In Endothelial Cells Augments Abdominal Aortic Aneurysm Formation Timothy F Fernandez, Hassan Sellak, Bernard P Lassegue, William R Taylor, Emory Univ, Atlanta, GA</p> <p>1:40 Abstract Presentation Number MP24 Disruption Of Actin Remodeling Intensifies Aneurysm-promoting Signals In Smooth Muscle Cells Zhijia Jiang, Fen Wang, Univ of Florida, Gainesville, FL; Gilbert R Upchurch Jr., Univ of FL Dept of Surgery, Gainesville, FL</p> <p>1:50 Q&A/Discussion</p> |



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1:00 – 2:00
PM

Moderated Poster Session MPS06: Update on Peripheral Artery Disease

1:00 Abstract Presentation Number MP25

Differential Expression of Ppara in Peripheral Arterial Segments Of Patients With Advanced Atherosclerosis

Connor Engel, Washington Univ in St. Louis, St. Louis, MO; Nikolai Harroun, Amanda Penrose, Mehreen Shafqat, Rodrigo Meade, Xiaohua Jin, Gayan DeSilva, Washington Univ in St. Louis, St. Louis, MO; Clay F Semenkovich, WASHINGTON UNIVERSITY, Saint Louis, MO; Mohamed Zayed, Washington Univ in St. Louis, St. Louis, MO

1:10 Abstract Presentation Number MP26

Activating P2Y₁ Receptors Improves Function in Arteries With Repressed Autophagy

Jae Cho, Seul-Ki Park, Univ of Utah, Salt Lake Cty, UT; Oh Sung Kwon, Univ of Connecticut, Storrs, CT; D. Taylor La Salle, James Cerbie, Caitlin C. Fermoye, David Morgan, Ashley Nelson, Amber Bledsoe, Leena P Bharath, Megan Tandar, Univ of Utah, Salt Lake Cty, UT; Satya P Kunapuli, TEMPLE UNIVERSITY SCHOOL MEDIC, Philadelphia, PA; Russ Richardson, Univ of Utah, Salt Lake City, UT; Pon Velayutham Anandh Babu, Sohom Mookherjee, Univ of Utah, Salt Lake City, UT; Bellamkonda K Kishore, VA Medical Ctr, Salat Lake City, UT; Fei Wang, Univ of utah, salt lake city, UT; Tianxin Yang, UNIVERSITY UTAH, Salt Lake City, UT; Sihem Boudina, Joel D Trinity, J David D Symons, Univ of Utah, Salt Lake Cty, UT

1:20 Abstract Presentation Number MP27

Endothelial Nogo-B Modulates Ischemia Induced Collateral Artery Remodeling

Cheng Zhang, Temple Univ, Philadelphia, PA; Yuanyuan Zhang, Jennifer Lucitti, Yale Univ Sch of Med,, New Haven, CT; Andrea Palos-Jasso, TEMPLE UNIVERSITY Lewis Katz Sch of Med, Philadelphia, PA; Sebastian Albinsson, Yuan Gao, Yale Univ Sch of Med, New Haven, CT; Yaru Cui, TEMPLE UNIVERSITY Lewis Katz Sch of Med, Philadelphia, PA; Takahisa Murata, Yale Univ Sch of Med, New Haven, CT; James E Faber, UNIVERSITY NORTH CAROLINA, Chapel Hill, NC; William C Sessa, YALE UNIVERSITY SCHOOL MEDICINE, New Haven, CT; Jun Yu, TEMPLE UNIVERSITY Lewis Katz Sch of Med, Philadelphia, PA

1:30 Abstract Presentation Number MP28

The Bet Bromodomain Inhibitor, (+)-JQ1, Inhibits Neointima Formation Following Acute Vascular Injury Via Pten Upregulation

Keith Strand, Univ of Colorado-Anschutz, Aurora, CO; Sizhao Lu, UNIVERSITY OF COLORADO DENVER, Aurora, CO; Marie Mutryn, Univ of Colorado Anschutz, Aurora, CO; Allison Dubner, Univ of Colorado, Aurora, CO; Austin Jolly, Univ of Colorado Anschutz, Aurora, CO; Raphael Nemenoff, Univ of Colorado Anschutz, Aurora, CO, Aurora, CO; Maria A Cavasin, Univ of Colorado, Aurora, CO; Timothy A McKinsey, UNIVERSITY OF COLORADO DENVER, Aurora, CO; Mary C Weiser Evans, UNIV COLORADO ANSCHUTZ MEDICAL CAMP, Aurora, CO

1:40 Abstract Presentation Number MP29

Skeletal Muscle Satellite Cells Enhance Vascular Growth Through Paracrine Signaling



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| | <p>Giji Joseph, Emory Univ, Atlanta, GA; Tao Yu, Sophia Mavris, EMORY UNIVERSITY, Atlanta, GA; W. Robert R Taylor, EMORY UNIVERSITY SCHOOL OF MEDICINE, Atlanta, GA; Laura M Hansen, EMORY UNIVERSITY, Atlanta, GA</p> <p>1:50 Q&A/Discussion</p> |
| 1:00 to 2:00 PM | ePoster viewing |
| 2:00 to 3:00 PM | <p>Disparities in Funding and Global Cardiovascular Outcomes: Finding Solutions <i>Organized by the ATVB Diversity Committee</i></p> <p>Introduction and Overview Francine K. Welty, MD, Harvard Medical School, Brookline, MA</p> |
| 3:00 to 4:00 PM | Networking, Award Presentations and Recognition, Industry Events |
| TIME (all times are CDT) | <p>Friday, September 24, 2021</p> <p>EVENT</p> |
| 9:00 to 10:20 AM | <p>Plenary Session 3: Invited Lecture Series</p> <p>9:00 Jeffrey M. Hoeg Arteriosclerosis, Thrombosis and Vascular Biology Award for Basic Science and Clinical Research Lecture - The Role of Pro-atherogenic Therapies in Atherosclerotic Cardiovascular Disease Nicholas J. Leeper, MD, Stanford University, Stanford, California</p> <p>9:20 Distinguished Lecture – Converging Pathways in Pulmonary Vascular Pathobiology Marlene Rabinovitch, MD, Stanford University School of Medicine, Stanford, California</p> <p>9:40 Keynote Lecture – Polygenic Scores: Potential for Clinical Utility and Therapeutic Target Identification Michael Inouye, PhD, University of Cambridge, Cambridge, United Kingdom</p> <p>10:00 Post-session Discussion/Q&A</p> |
| 10:20 to 10:30 AM | Break + Exhibits |
| 10:30 to 11:50 AM | <p>Concurrent Session 03a: Emerging Mechanisms of Atherosclerosis: LDL and Beyond</p> <p>10:30 Abstract Presentation Number 120 Genetic and Physiological Role for Hepatic C/EBPα In Plasma Lipid Metabolism</p> |



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| | <p>Krista Y Hu, Columbia Univ Irving Medical Ctr, New York, NY; Kavita Jadhav, Columbia Univ, New York, NY; Noel M Walsh, Columbia Univ Irving Medical Ctr, New York, NY; Elizabeth E Ha, Columbia Univ, New York, NY; Gabriella Quartuccia, Binghamton Univ, Binghamton, NY; Robert C Bauer, COLUMBIA UNIVERSITY, New York, NY</p> <p>10:45 Abstract Presentation Number 121 Exploiting Natural Genetic Variation in The Human Triglyceride Regulator APOA5 To Understand Its Function Sylvia Stankov, Cecilia Vitali, Univ of Pennsylvania, Philadelphia, PA; Joseph Park, Perelman Sch of Med at the, Philadelphia, PA; David Nguyen, S. Walter Englander, Univ of Pennsylvania, Philadelphia, PA; Michael C Phillips, UNIVERSITY OF PENNSYLVANIA, Glenside, PA; Nicholas J Hand, UPenn SOM, Philadelphia, PA; Daniel J Rader, Univ of Pennsylvania, Philadelphia, PA</p> <p>11:00 Abstract Presentation Number 122 The Anti-Oxidant Function Of Apolipoprotein A-I Rescues Pancreatic β-Cells From Cholesterol-Induced Mitochondrial Dysfunction Bikash Manandhar, UNSW, Sydney, Australia; Elvis Pandzic, Sydney, Australia; Nandan Deshpande, Sing-Young Chen, Valerie C. Wasinger, UNSW, Sydney, Australia; Maaik Kockx, ANZAC Res Inst, Concord, Australia; Elias Glaros, UNSW, Sydney, Australia; Kwok Leung Ong, Univ of New South Wales, Kensington, Australia; Shane Thomas, Univ of New South Wales, Sydney, Australia; Marc Wilkins, Renee Whan, UNSW, Sydney, Australia; Blake J Cochran, UNSW Sydney, Unsw Sydney, Australia; Kerry Anne Rye, Univ of New South Wales, Sydney, Australia</p> <p>11:15 Abstract Presentation Number 123 Intestinal Deletion Of 3-hydroxy-3-methylglutaryl-coenzyme A Reductase Promotes Expansion of The Resident Stem Cell Compartment Alexandria M. Doerfler, Baylor Coll of Med, Houston, TX; Jun Han, Univ of Victoria, Victoria, BC, Canada; Li Tang, Marco De Giorgi, Baylor Coll of Med, Houston, TX; Kelsey E Jarrett, UCLA, Los Angeles, CA; Ayrea Hurley, Baylor Coll of Med, Houston, TX; Ang Li, Rice Univ, Houston, TX; Marcel Chuecos, Baylor Coll of Med, Houston, TX; Pauline Morand, Univ of California Los Angeles, Los Angeles, CA; Claudia Ayala, James F Martin, Baylor Coll of Med, Houston, TX; David R. Goodlett, Univ of Victoria, Victoria, BC, Canada; Thomas A Vallim, UCLA, Los Angeles, CA; Noah Shroyer, William R Lagor, Baylor Coll of Med, Houston, TX</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| 10:30 to 11:50 AM | <p>Concurrent Session 03b: Vascular Immunity and Inflammation in Thrombosis</p> <p>10:30 Abstract Presentation Number 124 The Immunometabolic Role Of Platelets In Uncomplicated Malaria Infection Sara K Blick-Nitko, Univ of Rochester, Rochester, NY; Craig Morrell, UNIVERISTY ROCHESTER, Rochester, NY; Alison C Livada, Preeti Maurya, Sara Ture, Joshua Munger, Xenia Schafer, Univ of Rochester, Rochester, NY</p> <p>10:45 Abstract Presentation Number 125</p> |



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| | <p>Trans-ancestry Genome-wide Association Study of Varicose Veins In >1 Million Individuals Reveals Circulating Effectors of Venous Disease Michael Levin, Univ of Pennsylvania, Philadelphia, PA; Jennifer Huffman, Anurag Verma, Alexis Rodriguez, Argonne Natl Lab, Chicago, IL; Alexander G Bick, Massachusetts General Hosp, Boston, MA; Ravi Madduri, Argonne Natl Lab, Chicago, IL; Scott Damrauer, Argonne Natl Lab, Chicago, IL, Bryn Mawr, PA</p> <p>11:00 Abstract Presentation Number 126 Exposure To Thirdhand Hookah Smoke Elevates The Risk Of Thrombogenesis By Enhancing Platelet Function Ahmed Alarabi, Texas A&M Univ, Kingsville, TX; Zubair Karim, The Univ of Texas at El Paso, El Paso, TX; Patricia Lozano, Fadi T Khasawneh, Fatima Z Alshbool, Texas A&M Univ, Kingsville, TX</p> <p>11:15 Abstract Presentation Number 127 Aspirin Resistant Biomechanical Platelet Activation in Fibromuscular Dysplasia: Novel Mechanisms of Platelet Activation & Stroke Rohan Bhandari, Cleveland Clinic Fndn, Cleveland, OH; Anu Aggarwal, Cleveland, OH; Matthew Godwin, Crystal Pascual, Cleveland Clinic Fndn, Cleveland, OH; Sharon Shim, Park Ridge, IL; Natalia Fendrikova-Mahlay, Cleveland Clinic Fndn, Cleveland, OH; Stanley L Hazen, CLEVELAND CLINIC FOUNDATION, Cleveland, OH; Ayman Elbadawi, Universtiy of Texas Medical Branch, Galveston, TX; Joseph E Aslan, Oregon Health and Science Universit, Portland, OR; Scott J CAMERON, Cleveland Clinic Fndn, Solon, OH</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| 10:30 to 11:50 AM | <p>Concurrent Session 03c: Translational Aspects of Aortic Aneurysm Disease</p> <p>10:30 Abstract Presentation Number 128 Nicotine Transgenerationally Alters Gene Methylation and Abdominal Aortic Aneurysm Risk Joscha Udo Nikolaus Mulorz, Dept of Vascular and Endovascular Surgery Univ Hosp, Düsseldorf, Germany; Pireyatharsheny Mulorz, YaeHyun Rhee, Stanford Cardiovascular Inst - Stanford Univ, Stanford, CA; Markus Wagenhaeuser, Heinrich-Heine-Univ, Düsseldorf; Philip S Tsao, VAPAHCS - Stanford Univ, Palo Alto, CA; Joshua M. Spin, Stanford Cardiovascular Inst - Stanford Univ, Stanford, CA</p> <p>10:45 Abstract Presentation Number 129 BAF60c Prevents Abdominal Aortic Aneurysm Formation Through Maintaining Vascular Smooth Muscle Cell Homeostasis Guizhen Zhao, Univ of Michigan, Ann Arbor, MI; Jifeng Zhang, UNIV MICH, Ann Arbor, MI; Eugene Chen, UNIV OF MICHIGAN MEDICAL CTR, Ann Arbor, MI; Yang Zhao, UNIV OF MICHIGAN MEDICAL CTR, Ann Arbor, MI, Ann Arbor, MI; Haocheng Lu, Univ of Michigan, Ann Arbor, MI; tianqing zhu, Univ of Michigan, Ann Arbor, MI, Ann Arbor, MI; Ziji Chang, Univ of Michigan, Ann Arbor, MI, Ann Arbor, MI, Changsha</p> <p>11:00 Abstract Presentation Number 130</p> |



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| | <p>Wnt16 Deficiency Worsens Angiotensin II - Induced Aneurysmal Remodeling of Ascending Thoracic Aorta Abraham Samuel Behrmann, UT Southwestern, Dallas, TX; Dalian Zhong, Dallas, TX; Li Li, Parastoo Sabaeifard, UTSW, Dallas, TX; Mohammad Goodarzi, Andrew Lemoff, Dallas, TX; Dwight A Towler, UT SOUTHWESTERN MEDICAL CENTER, Dallas, TX</p> <p>11:15 Abstract Presentation Number 131 Gata4 Ablation in Smooth Muscle Cells Reduces Aortic Root Dilation in A Murine Model of Loeys-Dietz Syndrome Emily E. Bramel, Muzna Saqib, Johns Hopkins Sch of Med, Baltimore, MD; Tyler J Creamer, Elena Gallo MacFarlane, Johns Hopkins Univ, Baltimore, MD</p> <p>11:30 Post Session Live Discussion/Q&A</p> |
| 11:50 AM to 12:00 PM | Break + Exhibits |
| 12:00 to 1:00 PM | Omics Bootcamp 2: Single Cell Sequencing Data Analysis |
| 1:00 – 2:00 PM | <p>Moderated Poster Session MPS07: Emerging Topics in Lipid Metabolism</p> <p>1:00 Abstract Presentation Number MP30 Excess HDL Free Cholesterol Bioavailability Drives Free Cholesterol Accretion Into Macrophages And Erythrocytes In Scarb1^{-/-} Mice Jing Liu, Baiba K Gillard, Houston Methodist Res Inst, Houston, TX; Dedipya Yelamanchili, Houston Methodist Res Inst, HOUSTON, TX; Ziyi Wang, Houston Methodist Res Inst, Houston, TX; Antonio M Gotto Jr, Weill Cornell Med, New York, NY; Corina Rosales, Henry J Pownall, Houston Methodist Res Inst, Houston, TX</p> <p>1:10 Abstract Presentation Number MP31 Bmal1 Regulates Production of Larger Lipoproteins By Modulating Crebh And Apolipoprotein A 4 Xiaoyue Pan, NYU Long Island Sch of Med, Mineola, NY; M Mahmood Hussain, NYU Long Island Sch of Med, Minoela, NY</p> <p>1:20 Abstract Presentation Number MP32 Diaphanous 1 Regulates Actin Polymerization in Adipocytes: Potential Mechanism Regulating Obesity In Mice Henry H Ruiz, NYU Langone Grossman Sch of Med, New York, NY; Ann Marie Schmidt, NY, NY</p> <p>1:30 Abstract Presentation Number MP33 Coordination Of Metabolic Functions By SR-BI and PCPE2 In Adipocytes Darcy A Knaack, Medical Coll of Wisconsin, Milwaukee, WI; Mary G Sorci Thomas, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI; Michael J Thomas, MEDICAL COLLEGE WISCONSIN, Milwaukee, WI; Yiliang Chen, Medical Coll of Wisconsin, Milwaukee, WI; Daisy Sahoo, MEDICAL COLLEGE OF WISCONSIN, Milwaukee, WI</p> |



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| | 1:40 Q&A/Discussion |
| 1:00 – 2:00 PM | <p>Moderated Poster Session MSP08: Genetics & Genomics of Atherosclerosis</p> <p>1:00 Abstract Presentation Number MP35 Single-cell Analysis Uncovers Multiple Adventitial Fibroblast Populations with Expression of CAD GWAS Genes In Murine Atherosclerosis Hyun-kyung Chang, Columbia Univ, New York, NY; Eunyoung Kim, Fort Lee, NJ; Muredach P Reilly, COLUMBIA UNIVERSITY MEDICAL CENTER, New York, NY; Robert C Bauer, COLUMBIA UNIVERSITY, New York, NY</p> <p>1:10 Abstract Presentation Number MP37 Effect Of Sex Dimorphism and Pregnancy on Innate Lymphoid Cells Expressing Elabela Evila Da Silva Lopes Salle, Hesam Khodadadi, Liezl Domingo, Augusta Univ, Augusta, GA; Bruno Zavan, Federal Univ of Alfenas, Alfenas, Brazil; Jack Yu, Babak Baban, Augusta Univ, Augusta, GA</p> <p>1:20 Abstract Presentation Number MP38 Functional Investigation of a Novel Adipose Long Intergenic Non-coding RNA, Linc- ADAIN, During Obesity Marcella E O'reilly, Columbia Univ Medical Ctr, New York, NY; Chenyi Xue, Columbia Univ, New York, NY; Esther Cynn, Columbia Univ Medical Ctr, New York, NY; Wen Liu, Columbia Univ Medical Ctr, NY, NY; Lucie Zhu, Columbia Univ Medical Ctr, New York, NY; Muredach P Reilly, COLUMBIA UNIVERSITY MEDICAL CENTER, New York, NY</p> <p>1:30 Abstract Presentation Number MP39 FHL5, A Novel Cofactor Associated with Coronary Artery Disease, Regulates Smooth Muscle Cell Function Through a Transcriptional Network Linking Multiple Risk Loci Doris Wong, Univ of Virginia, Charlottesville, VA; Adam Turner, Charlottesville, VA; Mohammad Daud Khan, Univ of Virginia, Charlottesville, VA; Meredith Palmore, Univ of Virginia, Charlottesville, VA, Warrenton, VA; Noah Perry, maniselvan kuppusamy, Univ of Virginia, Charlottesville, VA; Matteo Ottolini, Charlottesville, VA; Ljubica Matic, Charlottesville, VA, Solna, Stockholm, Sweden; Ulf Hedin, KAROLINSKA INSTITUTE, Stockholm, Sweden; Lijiang Ma, KAROLINSKA INSTITUTE, Stockholm, Sweden, New York, NY; Swapnil K Sonkusare, KAROLINSKA INSTITUTE, Stockholm, Sweden, New York, NY, Charlottesville, VA; Mete Civelek, UNIVERSITY VIRGINIA, Charlottesville, VA; Jason C Kovacic, VCCRI, Randwick, Australia; Johan Bjorkegren, Icahn Sch of medicine, New York, NY; Clint L Miller, Univ Of Virginia, Charlottesville, VA</p> <p>1:40 Q&A/Discussion</p> |
| 1:00 – 2:00 PM | <p>Moderated Poster Session MSP09: Inflammation & Beyond: Mechanisms of Vascular Disease</p> <p>1:00 Abstract Presentation Number MP40 Breakpoint Cluster Region Protein Function as A Kinase Mediates the Atheroprotective Actions Of Hdl In Vascular Endothelium</p> |



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| | <p>Anastasia Sacharidou, UT SOUTHWESTERN MEDICAL CENTER, Dallas, TX; Ken Chambliss, UT Soutwestern Medical Ctr, Dallas, TX; Haiyan Chu, UTSW, Dallas, TX; Wan-Ru Lee, UTSW, Dallas, TX, Coppell, TX; Lin Xu, Philip W Shaul, UT SOUTHWESTERN MEDICAL CENTER, Dallas, TX; Chieko Mineo, UNIV TX SOUTHWESTERN MED CTR, Dallas, TX</p> <p>1:10 Abstract Presentation Number MP41 Myeloid Ccn3 Protects Against Aortic Valve Calcification Peinan Tu, Emory, Atlanta, GA; Zhiyong Lin, Emory Univ, Atlanta, GA; xianming zhou, Emory, Atlanta, GA; Hanjoong Jo, EMORY UNIVERSITY, Atlanta, GA; Nicolas Villa-roel, EMORY UNIVERSITY, Atlanta, GA, Atlanta, GA; Sandeep Kumar, Emory Univ, Atlanta, GA; Caiwen Ou, Emory, Atlanta, GA; Nianguo Dong, Emory, Atlanta, GA, Wuhan</p> <p>1:20 Abstract Presentation Number MP42 Macrophage Chromatin Remodeling Complex Subunit Baf60a in Atherosclerosis Yang Zhao, Dept of pharmacology, Univ of Michigan, Ann Arbor, MI; Yuhao Liu, Guizhen Zhao, Haocheng Lu, Ziyi Chang, Chao Xue, Eugene Chen, Jifeng Zhang, Univ of Michigan Medical Ctr, Ann Arbor, MI</p> <p>1:30 Abstract Presentation Number MP43 Liposome-human ACE2 Complex as An Engineered Decoy to Abrogate SARS-CoV-2-induced Inflammatory Responses In Macrophages Sandro Satta, UCLA, Los Angeles, CA; Zhaojie Meng, Rebecca Hernandez, UNIVERSITY OF CALIFORNIA, RIVERSIDE, Riverside, CA; Susana Cavallero, UCLA, Los Angeles, CA; Tong Zhou, Univ of Nevada, Reno, NV; Tzung K Hsiai, UCLA SCH OF MED CARDIOLOGY DIV, Los Angeles, CA; Changcheng Zhou, UNIVERSITY OF CALIFORNIA, RIVERSIDE, Riverside, CA</p> <p>1:40 Q&A/Discussion</p> |
| 1:00 – 2:00 PM | <p>Moderated Poster Session MSP10: Therapeutic Targets in Atherosclerosis</p> <p>1:00 Abstract Presentation Number MP45 The Roles of Telomeric Repeat Binding Factor 2-interacting Protein (TERF2IP) K240 Sumoylation In Endothelial Cells On Atherogenesis Masaki Imanishi, UT MD Anderson Cancer Ctr, Houston, TX; Loka reddy Velatooru, Houston Methodist Res Inst, Houston, TX; Kyung ae Ko, MD Anderson Cancer Ctr, Houston, TX; Kyung-Sun Heo, CHUNGNAM NATIONAL UNIVERSITY, Daejeon; Tamlyn Thomas, MD Anderson Cancer Ctr, Houston, TX; YOUNG JIN GI, MD ANDERSON CANCER CENTER, HOUSTON, TX; Keigi Fujiwara, U. of Texas MD Anderson Cancer Cent, Houston, TX; Nhat Tu Le, Houston Methodist Res Inst., Houston, TX; Sivareddy Kotla, Houston Methodist Res Inst., Houston, TX, Houston, TX; Junichi Abe, Univ of Texas MD Anderson Can, Houston, TX</p> <p>1:10 Abstract Presentation Number MP47 Assessment Of Atherosclerosis in A Novel Transgenic Mouse Expressing Pathogenic Levels Of Human Lipoprotein(a) Julia Assini, Chuce Xing, Justin Clark, Tasnim Reza, Robert Gros, ROBERTS RESEARCH INSTITUTE, London, ON, Canada; Michael Boffa, The Univ of Western</p> |



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| | <p>Ontario, London, ON, Canada; Marlys L Koschinsky, Western Univ, London, ON, Canada</p> <p>1:20 Abstract Presentation Number MP48 Smooth Muscle Cell-Specific Deletion Of O-GlcNAc Transferase Impedes Atherosclerotic Lesion Formation in Western Diet-fed Apoe^{-/-} Mice Saugat Khanal, Amy Mathias, Jason Lallo, Neha Bhavnani, Shreya Gupta, NorthEast Ohio Medical Univ, Rootstown, OH; Priya Raman, NEOMED - IMS, Rootstown, OH</p> <p>1:30 Abstract Presentation Number MP49 Macrophage-mediated Extracellular Digestive Exophagy of Aggregated LDL Is Responsible For The Formation Of Cholesterol Crystals In Atherosclerotic Plaques Cheng-I Jonathan J. Ma, Weill Cornell Medical Coll, New York, NY; Valeria Barbosa Lorenzi, Weill Cornell Med, New York, NY; Frederick R Maxfield, WEILL CORNELL MEDICAL COLLEGE, New York, NY</p> <p>1:40 Q&A/Discussion</p> |
| 1:00 to 2:00 PM | ePoster viewing |
| 2:00 to 3:00 PM | <p>Early Career Training Session 2: Workshop on Negotiations and Advocating for Yourself</p> <p><i>Whether you are a trainee or a supervisor, conversations that involve negotiations or advocating for yourself are some of the most stressful situations you will encounter. In this workshop we will cover tips to having these types of conversations. Scenarios will be presented, and the group will practice and discuss outcomes to different role-playing examples such as: a postdoc asking their supervisor for 20% time to work on a side project, authorship issues, and a new PI meeting with their chair to ask for more space, or an academic scientist setting up an industry collaboration.</i></p> |
| 3:00 to 4:00 PM | Networking, Award Presentations and Recognition |