Draft 3/25/26

THOMAS L. PETTY
ASPEN LUNG CONFERENCE
68th Annual Meeting
"Pulmonary Vascular Disease: The Vascular Niche and Its Interactions in Lung Homeostasis and Disease"
June 9-12, 2026

Monday, June 8, 2026 -- Evening

5:00-7:00 PM Evening Registration — Gant Conference Center

Tuesday, June 9, 2026 – Morning

7:45-7:55 AM Welcome/Introduction — Tim Lahm, M.D., Co-Chair; Eva Nozik, M.D., Co-Chair; Yen-Rei Andrea Yu, M.D., Ph.D., Co-Chair

7:55-8:20 AM **Patient Experience: Resilience and Recovery in Pulmonary Hypertension**
Eric Borstein/Los Angeles, CA

8:20-8:30 AM **The Thomas L. Petty Aspen Lung Conference: A Historical Perspective**
Dennis E. Doherty, M.D., FCCP
Professor of Medicine/University of Kentucky
Secretary/Treasurer, National Lung Health Education Program

Theme 1: Novel Insights in Pulmonary Hypertension Phenotypes and Vascular Remodeling in Pulmonary Circulation-Moderators: Todd Bull, M.D., Sandeep Sahay, M.D., Tatiana Kurdoshova, M.D.

8:30-9:05 AM THOMAS L. PETTY LECTURE

"NOVEL PULMONARY HYPERTENSION PHENOTYPES AND MECHANISMS OF VASCULAR REMODELING"

Anna R. Hemnes, M.D.
Professor and Elsa S. Hanigan Chair in Medicine
Director, Division of Allergy, Pulmonary and Critical Care Medicine
Director, Center for Lung Research
Vanderbilt University Medical Center
Nashville, Tennessee

9:05-9:30 AM **Discussion**

9:30-9:45 AM *SPATIAL TRANSCRIPTOMIC ATLAS OF THE HUMAN LUNG IN PAH.* ***Adam J Brownstein[1]****, *Brenda Wong[1], Aneta Gandjeva[2], Gregory Fishbein[1], Rubin Tuder[2], Jason Hong[1]. [1]University of California, Los Angeles; [2]University of Colorado Denver School of Medicine, Aurora, CO.*

9:45-10:00 AM *PROTEIN CODING RNA TRANSCRIPTS ASSOCIATED WITH PULMONARY HYPERTENSION IN THE RNA SEQUENCING STUDY FROM THE PVDOMICS COHORT.* ***Gabriele Grunig[1]****, *R. Kim[1] E. B. Rosenzweig[2], J. Leopold[3], P. M. Hassoun[4], S. C. Mathai[4], C. Simpson[4], R. Mehra[5], M. Aldred[6], B. Borlaug[7], R. P. Frantz[7], F. P. Rischard[8] A. Hemnes[9] G. J. Beck[10], N. S. Hill[11], W.H.W. Tang[10] , S. C. Erzurum[10], S. A. Comhair[10], E. Horn[12], W. C. King[10], J. Barnard[10], [1]Med, NYU Grossman School Med, New York, NY; [2]Pediatrics, NY Med College, Valhalla, NY; [3]Cardiovas Med, Brigham Women's Hosp, Harvard Med School, Boston, MA; [4]Johns Hopkins Univ School of Med, Baltimore, MD; [5]U Washington, Seattle, WA; [6] Indiana U, Indianapolis, IN; [7]Mayo Clinic, Rochester, MN; [8]U Arizona, Tucson, AZ; [9]Vanderbilt U, Nashville, TN; [10]Cleveland Clinic Foundation, Cleveland, OH; [11]Tufts Med Ctr, Boston, MA; [12]Weill Cornell Med Ctr, New York, NY.*

10:00-10:30 AM **.....Coffee Break** ***(Refreshments for conference participants only)***

Tuesday, June 9, 2026 -- Morning

Theme 1: ***Novel Insights in Pulmonary Hypertension Phenotypes and Vascular Remodeling in Pulmonary Circulation-Moderators: Laszlo Farkas, M.D., Troy Stevens, Ph.D., Christine Farrell, M.D.***

10:30-11:05 AM **JAN AND PETER HENSON LECTURE**

"ADAPTABLE AND HEMODYNAMIC HUMAN ENDOTHELIAL CELLS IN SPECIFYING FUNCTIONAL PULMONARY VASCULATURE"

Shahin Rafii, M.D.
Arthur B. Belfer Professor of Genetic Medicine
Chief, Division of Regenerative Medicine
Director, Ansary Stem Cell Institute
Weill Cornell Medicine
New York, New York

11:05-11:30 AM Discussion

11:30-11:45 AM *A CHIMERIC HUMAN-MOUSE LUNG ENDOTHELIAL MODEL OF PULMONARY VASCULAR DISEASE USING INDUCED PLURIPOTENT STEM CELLS.* ***Alexander M. Holtz[1,2]****, *Marcus Vorpah[1,2]*, *Mohamed J. Ahmed[2,3]*, *Eric D. Austin[4]*, *Pushpinder S. Bawa[2]*, *Carlos Villacorta-Martin[2]*, *Darrell N. Kotton[2,5]*, *[1]Division of Genetics and Genomics, Boston Children's Hospital, Boston, MA; [2]Center for Regenerative Medicine, Boston University and Boston Medical Center, Boston, MA; [3]Hamdan Bin Mohammed College of Dental Medicine, Dubai, UAE; [4]Department of Pediatrics, Vanderbilt University Medical Center, Monroe Carell Jr. Children's Hospital, Nashville, TN; [5]The Pulmonary Center and Department of Medicine, Boston University Chobanian & Avedisian School of Medicine, Boston, MA.*

11:45-12:00 PM *SPATIAL ANALYSIS OF VASCULAR NICHES REVEALS A ROLE FOR KIT -- SIGNALING IN PULMONARY HYPERTENSION.* ***Yuling Deng[1]****, *Shunning Liang[1]*, *Bin Liu[1]*, *Mengcheng Shen[2]*, *Susan Lin[1]*, *Zhiyu Dai[1]*, *[1]Division of Pulmonary and Critical Care Medicine, Department of Medicine, School of Medicine, Washington University in St. Louis, St. Louis, MO; [2]Division of Cardiology, Department of Medicine, School of Medicine, Washington University in St. Louis, St. Louis, MO.*

12:00-1:30 PM **.....Lunch** ***(lunch not provided by conference)***

Tuesday, June 9, 2026 -- Afternoon

***Theme 2**: The Vascular Niche in the Pulmonary Circulation: Modifying Resident Cell Function To Treat Pulmonary Vascular Diseases-Moderators: Zhiyu Dai, Ph.D., Ke Yuan, Ph.D., Julia Woodcock, Ph.D.*

1:30-2:05 PM GILES F. FILLEY LECTURE

"THERAPEUTIC APPROACES TO TARGETING ENDOTHELIAL CELLS AND THEIR PROGENITORS IN THE PUMONARY CIRCULATION"

Vladimir Kalinichenko, M.D., Ph.D.
Professor and Director
Phoenix Children's Research Institute
University of Arizona College of Medicine/Phoenix
Phoenix Children's Hospital
Phoenix, Arizona

2:05-2:30 PM Discussion

2:30-2:45 PM *TOP1 signaling in Pulmonary Arterial Hypertension.* *Dmitry Goncharov*[*1], Lifeng Jiang[1], Iryna Zhyvylo[1], Derek Lin[1], Neil J. Kelly[4], Lisa Franzi[1], Aisha Saiyed[1], Nicholas J. Kenyon[1,5], John R. Greenland[6,7], Paul J. Wolters[6], Stephen Y. Chan[3,4], Horace Delisser[8], Tatiana V. Kudryashova[3,4],* ***Elena A. Goncharova[1]****, [1]University of California, Davis School of Medicine, Davis, CA; [2]Veterans Affairs Pittsburgh Healthcare System, Pittsburgh, PA; [3]Center for Pulmonary Vascular Biology and Medicine, Pittsburgh, Heart, Lung, and Blood Vascular Medicine Institute, University of Pittsburgh, Pittsburgh, PA; [4]Division of Cardiology, University of Pittsburgh School of Medicine, Pittsburgh, PA; [5]VA Northern California Healthcare System, Mather, CA; [6]University of California, San Francisco School of Medicine; [7]San Francisco Veterans Affairs Health Care System, San Francisco, CA; [8]University of Pennsylvania Perelman School of Medicine, Philadelphia, PA.*

2:45-3:00 PM *AN EPIGENETIC DEFICIENCY IN ENDOTHELIAL CELLS LEADS TO SPONTANEOUS PULMONARY HYPERTENSION.* *Van Dung Nguyen[1],* ***Bisheng Zhou[1]*****,** *[1]Department of Pharmacology and Regenerative Medicine, Center for Lung and Vascular Biology, University of Illinois College of Medicine, Chicago, IL.*

3:00-3:30 PM .....Break ***(Refreshments for conference participants only)***

Tuesday, June 9, 2026 -- Afternoon

Theme 2: ***The Vascular Niche in the Pulmonary Circulation: Modifying Resident Cell Function To Treat Pulmonary Vascular Diseases-Moderators: Roberto Machado, M.D., Elena Goncharova, Ph.D., Joseph Hippensteel, M.D.***

3:30-4:05 PM **MARVIN I. SCHWARZ LECTURE**

"ENDOTHELIUM AS AN ENDOCRINE ORGAN: THE MULTISYSTEM IMPACT OF THE PULMONARY CIRCULATION DURING LUNG INJURY AND SEPSIS"

Eric P. Schmidt, M.D.
Chief, Division of Pulmonary and Critical Care Medicine
Associate Professor of Medicine
Harvard Medical Center
Boston, Massachusetts

4:05-4:30 PM **Discussion**

4:30-4:45 PM *ENDOTHELIAL GLYCOCALYX DESTRUCTION IN SEPSIS IS MEDIATED BY CELL-FREE HEMOGLOBIN-INDUCED UPREGULATION OF LUNG ENDOTHELIAL HEPARANASE.* ***Lorraine B Ware****, AM Bogart, N Putz, HNR Lee, D Aslaner, KJ Riedmann, JE Meegan, K Oshima, CM Shaver, JA Bastarache, EP Schmidt, JA Bastarache. Dept of Medicine, Vanderbilt University, Nashville TN and Dept of Medicine, Massachusetts General Brigham, Boston, MA,*

4:45-5:00 PM *Rgs5 DRIVES PERICYTE DIFFERENTIATION AND MICROVASCULAR REMODELING IN PULMONARY HYPERTENSION. Yunhye Kim , Yan Li ,* ***Ke Yuan****, Division of Pulmonary Medicine, Boston Children's Hospital, Harvard Medical School, Boston, MA.*

5:00-7:00 PM **POSTER VIEWING** ***(Refreshments for conference participants only)***

Wednesday, June 10, 2026 -- Morning

***Theme 3**: The Vascular Niche in the Pulmonary Circulation: Modifying Circulating and Recruited Cell Function to Treat Pulmonary Vascular Diseases-Moderators: Jason Elinoff, M.D., Micheala Aldred, Ph.D., Claudia Mickael, Ph.D.*

8:00-8:35 AM **ROGER S. MITCHELL LECTURE**

"TARGETING IMMUNE CELL DYSFUNCTON IN THE VASCULAR NICHE OF PULMONARY HYPERTENSION"

Mark R. Nicolls, M.D.
Chief, Division of Pulmonary, Allergy and Critical Care Medicine
Associate Dean for Research
Stanford Professor of Pulmonary and Critical Care Medicine
Stanford University
Palo Alto, California

8:35-9:00 AM **Discussion**

9:00-9:15 AM *BMPR2 DEFICIENCY-INDUCED TREG DYSREGULATION EXACERBATES THE DEVELOPMENT OF PULMONARY ARTERIAL HYPERTENSION.* ***Dongeon Kim[1,2]****, *Shady Younis[1,2], Seunghee Lee[1,2], Kyle Song[1,2], Evan Bao[2], Peter Kao[1], Xinguo Jiang[2], Amy Tian[2], and Mark Nicolls[1,2], [1]Department of Medicine, Stanford University (Stanford, CA); [2]Veterans Affairs Palo Alto Health Care System (Palo Alto, CA).*

9:15-9:30 AM *SPATIAL AND MOLECULAR PROFILING OF TISSUE-DERIVED SOLUBLE AND MATRIX-BOUND EXTRACELLULAR VESICLES IN PULMONARY HYPERTENSION.* ***Sushil Kumar[1]****, *Ram R. Prasad[1], Hui Zhang[1], Brittny A. McKeon[1], Xinbo Yu[1], Suzette Riddle[1], Christina Coughlan[1], Kirk Hansen[1], Kurt R. Stenmark[1], [1]University of Colorado Anschutz Medical Campus, Aurora, CO.*

9:30-10:00 AM **.....Coffee Break** ***(Refreshments for conference participants only)***

Wednesday, June 10, 2026 -- Morning

Theme 3: ***The Vascular Niche in the Pulmonary Circulation: Modifying Circulating and Recruited Cell Function to Treat Pulmonary Vascular Diseases-Moderators: Ralph Schermuly, Ph.D., Cassidy Delaney, M.D., Caitlin Lewis, Ph.D.***

10:00-10:35 AM STATE OF THE ART

Craig N. Morrell, D.V.M., Ph.D.
University of Rochester School of Medicine, Rochester, New York
"Harnessing Interactions Between Platelets and Vascular Wall Cells in Pulmonary Vascular Diseases"

10:35-11:00 AM Discussion

11:00-11:15 AM *LET THE CELLS MINGLE: RECIPROCAL INTERCELLULAR CROSSTALK PROTECTS THE PULMONARY VASCULATURE FROM HUMAN IMMUNODEFICIENCY VIRUS-DRIVEN VASCULAR INJURY.* ***Noelia C. Lujea[1]****, Javaria Baig[1], Amanda K. Garcia[1], Ava G. Oliver[1], Christopher K. Marpa[1], Mario Rodriguez[1], Minh T. Nguyen[2], Eli Heath[3], Isabel Castro-Piedras[4], Sharilyn Almodovar[1], [1]Department of Immunology & Molecular Microbiology, TTUHSC, Lubbock, Texas; [2]Department of Chemistry & Biochemistry, Texas Tech University, Lubbock, Texas; [3]Department of Chemical Engineering, Edward E. Whitacre Jr. College of Engineering, Texas Tech University, Lubbock, TX ; [4]Center for Biotechnology and Genomics, Texas Tech University, Lubbock, TX.*

11:15-11:30 AM *MCEMP1 AS A MECHANISTIC BIOMARKER IN PORTOPULMONARY HYPERTENSION.* ***Arun Jose[1]*,*** *Priyanka Singh[1], Minzhe Guo[2], Wei Shi1[1], [1]Department of Medicine, University of Cincinnati, Cincinnati OH; [2]Division of Pulmonary Biology, Cincinnati Children's Hospital Medical Center, Cincinnati OH.*

12:00-3:00 PM Picnic – T Lazy 7 - The Ranch ***(for conference participants and their families)***

Thursday, June 11, 2026 -- Morning

Theme 4: ***Understanding Cellular Interactions in the Pulmonary Circulation in Chronic Lung Disease (e.g. COPD, pulmonary fibrosis) and Inhalational Exposures-Moderators: Norbert Weissman, Ph.D., Andrea Frump, Ph.D., Navneet Singh, M.D.***

8:00-8:35 AM **REUBEN M. CHERNIACK LECTURE**

"THE PULMONARY CIRCULATION IN COPD, LUNG FIBROSIS AND ENVIRONMENTAL INHALATIONAL EXPOSURES"

Grazyna Kwapiszewska, Ph.D.
Professor
LBI for Lung Vascular Research
Medical University of Graz
Graz, Austria

8:35-9:00 AM **Discussion**

9:00-9:15 AM *MECHANISM OF ENSIFENTRINE PROTECTION AGAINST ENDOTHELIAL INJURY IN COPD-ASSOCIATED PULMONARY HYPERTENSION.* ***Koichi Nishino[1]****, *Ryen Omesher[2], Elizabeth Wynn[3], Trey Farmer[3,4], Steve Groshong[5], Tim Lahm[1,6], Harry Karmouty-Quintana[7], Rachel Blumhagen[4], Irina Petrache[1,6], [1]Division of Pulmonary, Critical Care, and Sleep Medicine, National Jewish Health; [2]Department of Internal Medicine, University of Colorado Anschutz; [3]Department of Immunology and Genomic Medicine, National Jewish Health; [4]Center for Genes, Environment and Health, National Jewish Health; [5]Division of Pathology, National Jewish Health; [6]Division of Pulmonology and Critical Care, University of Colorado Anschutz; [7]Division of Pulmonary, Critical Care, and Sleep Medicine, Department of Internal Medicine, University of Texas Health Science Center at Houston, Houston, TX.*

9:15-9:30 AM *VEGFR2 IS ESSENTIAL FOR MICROVASCULAR MAINTENANCE IN THE ADULT LUNG.* *X.Sun, W.J.He, B.Ahkras, X.Pan, N. Weissmann, A. Vonk Noordergraaf, H.J. Bogaard,* ***Jurjan Aman****, Department of Pulmonary Medicine, PHEniX Lab, Amsterdam University Medical Center, Amsterdam, The Netherlands.*

9:30-10:00 AM **.....Coffee Break** ***(Refreshments for conference participants only)***

Thursday, June 11, 2026 -- Morning

Theme 4: ***Understanding Cellular Interactions in the Pulmonary Circulation in Chronic Lung Disease (e.g. COPD, pulmonary fibrosis) and Inhalational Exposures-Moderators: Krithika Lingappan, M.D., Daivd Cornfield, M.D., Betty Phan, M.D.***

10:00-10:35 AM **POLLY E. PARSONS LECTURE**

"ENDOTHELIAL CELL MATURATION AND LUNG VASCULAR INTERACTIONS DURING LUNG DEVELOPMENT"

Cristina M. Alvira, M.D.
Benioff UCSF Professor of Pediatrics
Division of Pediatric Critical Care Medicine
Department of Pediatrics
University of California San Francisco
School of Medicine
San Francisco, California

10:35-11:00 AM **Discussion**

11:00-11:15 AM *AN EMBRYONIC ARTERY-FORMING NICHE THAT REACTIVATES IN PULMONARY ARTERIAL HYPERTENSION.* ***Wen Tian[1, 2, $, #*]***, *Timothy Ting-Hsuan Wu[1, $], Shenbiao Gu[1, 2, 3, $], Seunghee Lee[1, 2, $], Hanqiu Zhao[4], Kyle K. Song[1, 2], Adam M. Andruska[1], Jason L. Chang[1, 2], Cerianne Huang[1, 2], Ryan Vinh[1, 2], Dongeon Kim[1, 2], Yu Zhu[1, 2], Evan Bao[1, 2], Stuti Agarwal[1], Aiqing Cao[1], Junliang Pan[1, 2], Peter N. Kao[1], Tushar Desai[1], Roham Zamanian[1], Ke Yuan[5], Lawrence S. Prince[1], Lindsay D. Butcher[1], Roger A. Johns[3], Xinguo Jiang[1, 2], Jason Hong[6], Marlene Rabinovitch[1], Zhiyu Dai[4], Kristy Red-Horse[1], Mark R. Nicolls[1, 2, #], [1]Stanford University School of Medicine, Stanford, California; [2]VA Palo Alto Health Care System, Palo Alto California; [3]Johns Hopkins University School of Medicine, Baltimore, MD; [4]Washington University School of Medicine in St. Louis, Saint Louis, MO; [5]Boston Children's Hospital, Harvard Medical School, Boston, MA; [6]David Geffen School of Medicine at UCLA, University of California, Los Angeles, CA.*

11:15-11:30 AM *A MEOX2-DEPENDENT MESENCHYMAL NICHE GOVERNS ENDOTHELIAL PATTERNING DURING ALVEOLOGENESIS.* ***Courtney A Stockman****, *Kimberly Wagner, Thomas J. Taylor, Matthew Riccetti, Jenna Green, Anne-Karina T. Perl, Division of Pulmonary Biology, Cincinnati Children's Hospital Medical Center, Cincinnati, OH.*

11:30-1:30 PM **.....Lunch** ***(lunch not provided by conference)***

Thursday, June 11, 2026 -- Afternoon

Theme 5: ***Mechanisms of Cardiac Adaptation and Maladaptation and Their Effects on Heart-Lung Interactions in Pulmonary Vascular Diseases-Moderators-Moderators: Rebecca Vanderpol, Ph.D., Imad Al Ghouleh, Ph.D., Sue Gu, M.D.***

1:30-2:05 PM **STATE OF THE ART**

Ronald J. Vagnozzi, Ph.D.

University of Colorado, Anschutz Medical Campus, Aurora, Colorado

"Emerging Concepts in the Crosstalk Between Cardiac Fibrosis and Immunometabolism and Its Implications for Treating Right Heart Failure"

2:05-2:30 PM **Discussion**

2:30-2:45 PM *LONGITUDINAL PLASMA PROTEO-METABOLOMICS REVEAL TEMPORALLY CONSISTENT PROCESSES ASSOCIATED WITH PULMONARY ARTERIAL HYPERTENSION.* ***Hongyang Pi[1]****, Lu Xia[2]; Samuel G Rayner[1]; Ali Shojaie[3]; Sina A. Gharib[1]; Peter J. Leary[1,4], [1]University of Washington, Department of Medicine; [2]Michigan State University, Department of Statistics and Probability; [3]University of Washington, Department of Biostatistics; [4]University of Washington, Department of Epidemiology, Seattle, WA.*

2:45-3:00 PM *MACHINE LEARNING IDENTIFIES DISTINCT PATTERNS OF RIGHT VENTRICULAR ADAPTATION IN PULMONARY HYPERTENSION.* ***Karina Mora Massad[1,2]****; Lindsay Forbes[2]; Kevin Rurak[1]; M. Patricia George[1]; Darlene Kim[1]; Tim Lahm[1,2,3], [1]Division of Pulmonary Sciences and Critical Care Medicine, National Jewish Health, Denver, CO; [2]University of Colorado Anschutz, Aurora, CO; [3]Rocky Mountain Regional VA Medical Center, Aurora, CO.*

3:00-3:30 PM **.....Break** ***(Refreshments for conference participants only)***

Thursday, June 11, 2026 -- Afternoon

Theme 5: ***Mechanisms of Cardiac Adaptation and Maladaptation and Their Effects on Heart-Lung Interactions in Pulmonary Vascular Diseases-Moderators: Peter Leary, M.D., Ph.D., Larissa Shimoda, Ph.D., Darlene Kim, M.D.***

3:30-4:05 PM **THOMAS A. NEFF LECTURE**

"THERAPEUTICALLY TARGETING RIGHT HEART REMODELING IN PULMONARY HYPERTENSION"

Corey E. Ventetuolo, M.D., M.S., ATSF
Director, Center for Advanced Lung Care
Brown University
Professor of Medicine, Health Services, Policy & Practice
Alpert Medical School of Brown University
Providence, Rhode Island

4:05-4:30 PM **Discussion**

4:30-4:45 PM *EXERCISE AS THERAPY FOR RIGHT VENTRICULAR DYSFUNCTION IN LUNG DISEASE: PILOT DATA FROM DEPLOYMENT-RELATED RESPIRATORY DISEASE AND CHRONIC OBSTRUCTIVE PULMONARY DISEASE WITH PULMONARY HYPERTENSION.* ***Lindsay M. Forbes[1,2] ****; *Justin Cillay[1]; Benjamin Sandrin[3]; Todd M. Bull[1]; Amanda Farrell[2] ; Bree Keller[1]; Kelly Moulden[1]; Lisa Nicotera[1]; Kelly Nielsen[1]; Brook Thurman[2]; Lauren Zell-Baran[4,5]; Silpa D. Krefft[1,4,6] ; William K. Cornwell[2,7]; Tim Lahm[1,6,8], [1]Division of Pulmonary, Allergy and Critical Care Medicine, University of Colorado, Aurora, Colorado; [2]Clinical Translational Research Center, University of Colorado Anschutz Medical Campus, Aurora, Colorado; [3]University of Colorado School of Medicine Anschutz Medical Campus, Aurora, Colorado; [4]Division of Environmental and Occupational Health Sciences, National Jewish Health, Denver, Colorado; [5]Department of Epidemiology, Colorado School of Public Health, Aurora, Colorado; [6]Pulmonary Section, Rocky Mountain Regional Veterans Affairs Medical Center, Aurora, Colorado; [7]Division of Medicine-Cardiology, University of Colorado, Aurora, Colorado; [8]Division of Pulmonary, Critical Care and Sleep Medicine, National Jewish Health, Denver, Colorado.*

4:45-5:00 PM *HEMODYNAMIC SHEAR UNMASKS PROTEOSTASIS STRESS PROGRAMS IN PULMONARY ARTERIAL HYPERTENSION ENDOTHELIAL CELLS.* ***Kellen Hirsch[1]****, *[2]Christian Mandrycky, [2]Isabella Kwan, [2]Hongyang Pi, [2]William A. Altemeier, [3]Tim Lahm, [2]Peter J. Leary, [2]Sina A. Gharib, [2]Ying Zheng, [2]Samuel G. Rayner, [1]University of Utah, Department of Medicine, Salt Lake City, UT; [2]University of Washington, Department of Medicine, Seattle, WA; [3]National Jewish Health, Denver, CO.*

5:00-7:00 PM **POSTER VIEWING** ***(Refreshments for conference participants only)***

Friday, June 12, 2026 – Morning

Theme 6:* *Current and Emerging Diagnostic and Treatment Strategies for Pulmonary Hypertension and Pulmonary Vascular Disease-Moderators: Chelsea Magin, Ph.D., Karthik Suresh, M.D., Daniel Colon Hidalgo, M.D.

8:00-8:35 AM **STATE OF THE ART**

Deepa Gopalan, M.D.

Imperial College London/Cambridge University Hospital, Cambridge, United Kingdom

"Current and Emerging Imaging Methods for the Cardiopulmonary Compartment in COPD, Lung Fibrosis and Pulmonary Hypertension"

8:35-9:00 AM **Discussion**

9:00-9:15 AM *QUANTIFYING PULMONARY VASCULAR WALL REMODELING ON CT USING AI-BASED VASCULAR ACTIVITY MAPPING TO ASSESS SERALUTINIB RESPONSE IN PAH.* ***Raúl San José Estépar*[1]****, Pietro Nardelli[1], Robin Osterhout[2], Jean-Marie Bruey[2], Thao Duong-Verle[2], Richard Aranda[2], Roham T. Zamanian[3], Lawrence S. Zisman[2], Farbod N. Rahaghi[1], [1]Brigham and Women's Hospital, Harvard Medical School, Boston, MA; [2]Gossamer Bio, Inc., San Diego, CA; [3]Stanford University School of Medicine, Stanford Medicine, Stanford, CA.*

9:15-9:30 AM *ENDOSOMAL GTPase RAB7 REGULATES PULMONARY VASCULAR CELL CROSSTALK VIA CSDE1-MEDIATED REGULATION OF THE ENDOTHELIAL SECRETOME.* ***Ganesh Koshre****, Daniela Farkas, Liwen Zhang, Elena Goncharova, Rama Mallampalli, Laszlo Farkas, The Ohio State University, Columbus, OH.*

9:30-10:00 AM **.....Coffee Break** ***(Refreshments for conference participants only)***

Friday, June 11, 2026 -- Morning

***Theme 6:* Current and Emerging Diagnostic and Treatment Strategies for Pulmonary Hypertension and Pulmonary Vascular Disease-Moderators: Charly Lai, Ph.D., Ruslan Rafkikov, Ph.D., Clare Prohaska, M.D.**

10:00-10:35 AM PARKER B. FRANCIS LECTURESHIP

"TREATMENT STRATEGIES FOR PULMONARY HYPERTENSION: INSIGHTS INTO CURRENT AND NOVEL PHARMACOLOGICAL TARGETS, GENE EDITING, AND CELL THERAPY"

Paul B. Yu, M.D., Ph.D.
Director, Cardiovascular Research Center
Charles Addison Sanders and Elizabeth Ann Sanders Endowed Chair
Associate Professor of Medicine
Harvard Medical Center
Massachusetts General Hospital
Boston, Massachusetts

10:35-11:00 AM Discussion

11:00-11:15 AM *LEPTIN REGULATES PATHWAYS IMPLICATED IN PULMONARY ARTERIAL HYPERTENSION AND SEX-DEPENDENTLY MODULATES PULMONARY VASCULAR TONE.* ***Daniels Konja[1]****, *Keytam S Awad,[1] Shuibang Wang,[1] Colin D Knight,[1] Gabriela A Ferreyra,[1] Kadija Hersi,[2] Jason M Elinoff,[1,2], Rebecca Brown,[3] Robert L Danner[1,2], [1]Critical Care Medicine Department, NIH Clinical Center; [2]Critical Care Medicine and Pulmonary Branch, National Heart Lung and Blood Institute (NHLBI); [3]National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), National Institutes of Health, Bethesda, MD.*

11:15-11:30 AM *IMPAIRED SOX17 EXPRESSION LEADS TO ENDOTHELIAL DYSFUNCTION AND PULMONARY HYPERTENSION BY INSUFFICIENT REPRESSION OF RUNX1.* ***James R. Klinger[1]****, *B. Akosman[2], E. Vasilaki[3], Y. Sharma[2], M. Pereira[2], M. J. Choi[2], E. Y. So[2], Y. E. Lee[2], N. Singh[1], C. E. Ventetuolo[1], M. R. Wilkins[3], L. Zhao[3], C. J. Rhodes[3], O. D. Liang[2], [1]Division of Pulmonary, Sleep and Critical Care Medicine; [2]Division of Hematology/Oncology, Rhode Island Hospital, Brown University, Providence, RI; [3]National Heart and Lung Institute, Imperial College London, London, United Kingdom*

11:30-12:30 PM CONFERENCE SUMMARY

Serpil C. Erzurum, M.D.
Executive Vice President
Chief Research and Academic Officer
Alfred Lerner Memorial Chair in
Innovative Biomedical Research Chair
The Cleveland Clinic
Cleveland, Ohio

12:30-1:00 PM Discussion and Adjourn

POSTER VIEWING
Tuesday, June 9, 2026
5:00-7:00 PM

POSTERS

HYPOXIC REPROGRAMMING OF THE LYMPHATIC VASCULAR NICHE DRIVES ALLOIMMUNE INJURY AFTER LUNG TRANSPLANTATION. *Seunghee Lee PhD[1,2], **Kyle K. Song BS[1,2]*,** Dongeon Kim PhD[1,2], Xinguo Jiang PhD[1,2], Amy Tian PhD[1,2#], and Mark Nicolls MD[1,2#] PhD[1,2#], and Mark Nicolls MD[1,2#], [1]Department of Medicine, Stanford University (Stanford, CA); [2]Veterans Affairs Palo Alto Health Care System (Palo Alto, CA).*

ALVEOLAR-CAPILLARY BED FOCUSED MAPPING DEMONSTRATES PROFOUND ENDOTHELIAL IDENTITY REPROGRAMMING AND PROTEOSTATIC IMBALANCE IN ALVEOLAR CAPILLARY DYSPLASIA. ***Csaba Galambos MD, PhD[a,b,d]****, Gregory R. Keele PhD[c], William Schroeder[a,b], R Blair Dodson PhD[c], Steven H. Abman MD[b,d], [a]Department of Pathology, University of Colorado School of Medicine, Aurora, CO, USA; [b]Pediatric Heart Lung Center, Children's Hospital Colorado, Aurora, CO, USA; [c]RTI International, Research Triangle Park, NC, USA; [d] Section of Pediatric Pulmonology, Department of Pediatrics, University of Colorado School of Medicine, Aurora, CO.*

THE ROLE OF ENDOTHELIAL CIRCADIAN RHYTHMS IN RECOVERY FROM PNEUMONIA ***Reece P. Stevens[1]****, Grant Daly2 , Isabelle Matouf1 , Linda Zheng1 , Brianna Banten1 , Sarah Kamal1 , Larissa A. Shimoda1 , and Mahendra Damarla1 Pulmonary and Critical Care Medicine, Johns Hopkins University, School of Medicine, Baltimore, MD1 Department of Pharmacology, University of South Alabama, Mobile, AL.*

MATERNAL AND FETAL OVEREXPRESSION OF LUNG EXTRACELLULAR SUPEROXIDE DISMUTASE (EC-SOD) PROTECTS OFFSPRING LUNG FOLLOWING LATE GESTATIONAL HYPOXIA. ***Thi-Tina N. Nguyen[1,3]****, Caitlin V. Lewis[1,3], Janelle N. Posey[1,2], Timothy Porfilio[1,3], Cassidy Delaney[1,2], Eva S. Nozik[1,3], [1]Cardiovascular Pulmonary Research Laboratories, Departments of Pediatrics and Medicine, University of Colorado Anschutz Medical Campus, Aurora, CO; [2]Department of Pediatrics, Division of Neonatology, University of Colorado Anschutz Medical Campus, Aurora, CO; [3]Department of Pediatrics, Division of Critical Care, University of Colorado Anschutz Medical Campus, Aurora, CO.*

RNA DEADENYLASE INDUCES ENDOTHELIAL IMMUNOGENIC OXYSTEROLS IN PULMONARY ARTERIAL HYPERTENSION (PAH). *Romi Homsi, Jeffrey McDonald, Stephen Chan,* ***Chen-Shan Julia Woodcock*,*** *National Jewish Health, Denver, CO.*

PULMONARY CAPILLARY ENDOTHELIAL LOSS OF FOXF1 IS SUFFICIENT TO DRIVE INTERSTITIAL LUNG DISEASE. ***Jonathan Do[1†]*,*** *Zicheng Deng[1†], Wen Gao[1], Ying-Wei Lan[1], Gautam Verma[1], Lance Peter[2], Nicholas Banovich[2], Tanya Kalin[1,3,4], Vladimir V. Kalinichenko[1,5],* *[1]Phoenix Children's Research Institute, College of Medicine-Phoenix, Phoenix, AZ; [2]Division of Bio-Innovation and Genome Sciences, Translational Genomics Research Institute, Phoenix, AZ; [3]Center for Cancer and Blood Disorders, Phoenix Children's Hospital, Phoenix, AZ; [4]Department of Child Health, Division of Hematology and Oncology, University of Arizona College of Medicine-Phoenix, Phoenix, AZ; [5]Division of Neonatology, AZ; [5]Division of Neonatology, Phoenix Children's Hospital, Phoenix, AZ*

INTERMITTENT FASTING MITIGATES PULMONARY HYPERTENSION DUE TO INTERSTITIAL LUNG DISEASE. *Benjamin P. Kremer, BS, Elizabeth Ngo, Peter Calabrese,* ***Sasha Z. Prisco****, Lillehei Heart Institute, Cardiovascular Division, Department of Medicine, University of Minnesota, Minneapolis, MN.*

GCN2 ORCHESTRATES LUNG ENDOTHELIAL REPAIR FOLLOWING VIRAL INJURY. ***Abhinay Gontu[1*#],*** *Ying-Wei Lan[1#], Jonathan Do[1], Xiaomei Xia[1], Hasini Chintala[1] and Tanya V Kalin[1,2], [1]Phoenix Children's Research Institute, Department of Child Health, College of Medicine, University of Arizona, Phoenix, AZ; [2]Center for Cancer and Blood Disorders, Phoenix Children's Hospital, Phoenix, AZ.*

VASCULAR-RELATED PROTEOMIC SIGNATURES IN COPD WITH SUSPECTED PULMONARY HYPERTENSION AS PREDICTORS OF FEV_1 IMPAIRMENT. ***Khushboo Goel[1,2,3]*,*** *Ryen Ormesher[2,3], Katherine A. Pratte[4], Yue Wang[5], Koichi Nishino[2], Craig P. Hersh[6], Katerina Kechris[5], Russell P. Bowler[2,7], Irina Petrache[2,3], [1]Department of Medicine, Division of Pulmonary and Critical Care Medicine, Cedars-Sinai Medical Center, Los Angeles, CA; [2]Department of Medicine, Division of Pulmonary Critical Care and Sleep Medicine, National Jewish Health, Denver, CO; [3]Department of Medicine, Division of Pulmonary Sciences and Critical Care Medicine, University of Colorado, Aurora, CO; [4] Department of Biostatistics, National Jewish Health, Denver, CO; [5]Department of Biostatistics and Informatics, University of Colorado, Aurora, CO; [6]Department of Medicine, Channing Division of Network Medicine, Brigham and Women's Hospital, Boston, MA; [7] Department of Genomic Sciences and Systems Biology, Cleveland Clinic, Cleveland, OH.*

ENDOTHELIAL LRRC8 CHANNEL: A NOVEL PROTECTOR AGAINST PULMONARY HYPERTENSION. ***Qiujun Yu****, Yonghui Zhao, Rahul Chadda, Nathaniel John, Kel Vin Woo, David Orniz, Zhiyu Dai, Rajan Sah, Department of Internal Medicine, Division of Cardiology (Q.Y., Y.Z., R.C., N.J., R.S.), Division of Pulmonary & Critical Care Medicine (Z.D.); Department of Pediatrics, Division of Cardiology (K.V.W.); Department of Developmental Biology (D.O.), Washington University School of Medicine, Saint Louis, MO.*

CARDIOMYOCYTE NLRP3 SIGNALING IN RIGHT HEART FAILURE IS SEXUALLY DIMORPHIC VIA ESTROGEN RECEPTORα. ***Rafael S Fais[1]*;*** *Palotta, EDN[1]; Kopf, KW[1]; Massad, KM[1,2]; Hoffer, C[2]; Walts, AD,[1]; Goldenberg, NM[3]; Givens, S[4]; Bourgeois, A[5]; Woodcock, CC[1]; Petrache I[1,2]; Chesler,NC[6]; Woulfe, KC[2]; Pullamsetti SS[7]; Boucherat, O[5]; Provencher, S[5];Ogle, BM[4]; Bonnet, S[5], Lahm, T[1,2,8], [1]National Jewish Health, Denver, CO; [2]University of Colorado Anschutz Medical Campus, Aurora, CO; [3]The Hospital for Sick Children, Toronto, Canada; [4]University of Minnesota Twin Cities, Minneapolis, MN; [5]Université Laval, Canada; [6]University of California Irvine, CA; [7]Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany; [8]Rocky Mountain Regional VA Medical Center, Aurora, CO.*

LECTIN COMPLEMENT ACTIVATION IS A CRITICAL DRIVER OF SCHISTOSOMA-*ASSOCIATED PULMONARY HYPERTENSION.* ***Claudia Mickael [1,3]****, Dara Fonseca-Balladares[2], Rahul Kumar[2], Michael H. Lee[2], Kevin Nolan[2], Linda Sanders [3], Katie Tuscan [3], Ramraj Prasad [3], Pilar Londono[1], Rubin M. Tuder [1,3], Kurt Stenmark[3], Brian B. Graham[2], [1]Division of Pulmonary Sciences and Critical Care Medicine, Department of Medicine, University of Colorado Anschutz Medical Campus, Colorado; [2]Department of Medicine, University of California San Francisco, San Francisco, California; [3]Cardiovascular Pulmonary Research Lab, University of Colorado School of Medicine, Colorado.*

POSTERS – Tuesday, June 9, 2026 -continued

PULMONARY ARTERY ENDOTHELIAL CELL BIOPSIES PROVIDE NEW INSIGHTS INTO ENDOTHELIAL PATHOBIOLOGY IN PULMONARY VASCULAR DISEASE. *†**Navneet Singh**[1,2]*, †Karina M. Massad[3], Mandy Pereira[2], Allyson Sherman-Roe[2], Tiffaney Cayton[2], Ashley Dennett[2], Lauren Jackson[4, 5], Alexander T. Jorrin[2], Darlene Kim[6], James R. Klinger[1,2], Christopher J. Mullin[1,2], William Oldham[1,2], Cameron Patrick[2], Rachel Sanders[2], Dhananjay Tambe[5,7,8], Elizabeth O. Harrington[1,9], Olin D. Liang[1], Troy Stevens[4,5], †Tim Lahm[3,6,10], †Corey E. Ventetuolo[1,2,11], [1]Dept of Medicine, Alpert School of Medicine at Brown University, Providence, RI; [2]Center for Advanced Lung Care, Brown University Health, Providence, RI; [3]Dept of Medicine, University of Colorado Anschutz Medical Center, Aurora, CO; [4]Dept of Physiology and Cell Biology, College of Medicine, University of South Alabama, Mobile, AL; [5]Center for Lung Biology, College of Medicine, University of South Alabama, Mobile, AL; [6]Dept of Medicine, National Jewish Health, Denver, CO, [7]Dept of Pharmacology, College of Medicine, University of South Alabama, Mobile, AL; [8]Dept of Mechanical Aerospace and Biomedical Engineering, College of Engineering, University of South Alabama, Mobile, AL; [9]Division of Biology and Medicine, Brown University, Providence, RI; [10]Rocky Mountain Regional Veterans Affairs Medical Center, Aurora, CO; [11]Dept of Health Services, Policy and Practice, Brown University, RI; *presenting author, †shared first and senior authorship, respectively*

PRECISION-CUT LUNG SLICE CO-CULTURE SYSTEMS FOR EXPLORING MACROPHAGE-ASSOCIATED INFLAMMATION IN PULMONARY HYPERTENSION. ***Hui Zhang**[1]*, B. Alexandre McKeon[1], Ram Raj Prasad[1], Sushil Kumar[1], Suzette Riddle[1], Cheng-jun Hu[2], Kurt Stenmark[1], [1]Cardiovascular Pulmonary Research Laboratories, Departments of Pediatrics and Medicine, [2]Department of Craniofacial Biology, School of Dental Medicine, University of Colorado Anschutz Medical Campus, Aurora, CO.*

DISRUPTION OF THE SP-R210L VARIANT OF MYO18Aα IN ALVEOLAR MACROPHAGES RESULTS IN SUBCLINICAL PULMONARY VENO-OCCLUSIVE DISEASE WITH INCREASED RISK FOR DEVELOPMENT OF PULMONARY HYPERTENSION *Todd M. Umstead[1], Eric Yau1 , Raz Abdulqadir[1], Kristin K. Fino[1], E Scott Halstead[1], Hannah Atkins[1], Matthew Lanza[1], Han Chen1[1], Aymen Halouani[2], Yassine Sassi[2], Candace S.Y. Chan[1], Ilias Georgakopoulos-Soares[1], Timothy K Cooper[1], Shaili Amatya[1], **Zissis C. Chroneos**[1]*, [1]Penn State College of Medicine, Hershey, PA; [2]Virginia-Maryland College of Veterinary Medicine, Virginia Tech, Blacksburg, Virginia.*

MACHINE LEARNING-BASED PHENOTYPING IN INTERSTITIAL LUNG DISEASE-ASSOCIATED PULMONARY HYPERTENSION: A FEASIBILITY STUDY. ***Marcos Fernandes Garcia, MD, PhD**[1,2]*, Joshua J. Solomon, MD[2], and Tim Lahm, MD[1,2,3], [1] Division of Pulmonary, Allergy and Critical Care Medicine, University of Colorado; [2] Division of Pulmonary, Critical Care and Sleep Medicine, National Jewish Health, [3] Denver, Colorado; Rocky Mountain Regional VA Medical Center, Aurora, CO.*

LATENT FACTOR ANALYSIS REVEALS DYNAMIC FIBROBLAST STATE TRANSITIONS DURING HYPOXIA-INDUCED RV REMODELING. *Vitaly Kheyfets[1], Alyse Staley[2], Claudia Mickael[1,3], Linda Sanders[1,3], Kurt R Stenmark[1], **Sue Gu**[1,3]*, [1]Pediatric Critical Care Medicine; Developmental Lung Biology and CVP Research Laboratories, School of Medicine, University of Colorado Anschutz, Aurora, CO; [2]University of Colorado Anschutz Cancer Center Bioinformatics Core Facility; [3]Division of Pulmonary, Allergy, and Critical Care, Department of Medicine, University of Colorado Anschutz, Aurora, CO.*

TARGETING XPB DEGRADATION WITH SPIRONOLACTONE ANALOGS REVEALS A NOVEL THERAPEUTIC STRATEGY FOR INFLAMMATION. ***Li-Yuan Chen[1]*,*** *Venkatareddy R. Sabbasani[2], Yi-Han Lin[3], Scott Wilson[1], Edward J. Dougherty[5], Rolf Swenson[2], Juan Marugan[3], Mark Henderson[3], Ken Cheng[4], Robert L. Danner[5] and Jason M. Elinoff[1,5]*, [1]Critical Care Medicine and Pulmonary Branch and [2]Chemistry and Synthesis Center, National Heart, Lung, and Blood Institute, Bethesda, MD; [3]Early Translation Branch, Division of Preclinical Innovation and [4]Functional Genomics Laboratory, National Center for Advancing Translational Sciences, Rockville, MD; [5]Critical Care Medicine Department, NIH Clinical Center, Bethesda, MD.*

INTERIM ANALYSIS OF ARTISAN: MPAP REDUCTION AND RIGHT VENTRICLE FUNCTION IMPROVEMENTS WITH EARLY TREPROSTINIL THERAPY IN PULMONARY ARTERIAL HYPERTENSION. ***Raymond Benza[1]*****,** *K Chin[2], D Lachant[3], C Miller[4], R Naeije[5], A Waxman[6], J White[3], R Zolty[7], N Daczkowski[8], G Golden[8], K Paxton[8], F Rahaghi[8], Y Liu[8], H Matsubara[9], [1]Sentara Health, Norfolk, USA, [2]UT Southwestern Medical Center, Dallas, USA, [3]University of Rochester Medical Center, Rochester, USA, [4]Piedmont Healthcare, Atlanta, USA, [5]Free University of Brussels, Brussels, Belgium, [6]Brigham and Woman's Hospital, Boston, USA, [7]University of Nebraska College of Medicine, Omaha, USA, [8]United Therapeutics Corporation, Research Triangle Park, USA, [9]NHO Okayama Medical Center, Okayama, Japan.* *This is an encore, previously presented at PVRI in January 2026.*

THE ARTERIAL-TO-LUNG SIZE-RATIO (ARTLR) PAIRED WITH AIRWAY DYSANAPSIS CORRELATES WITH COPD-ASSOCIATED CT BIOMARKERS. ***Soheil Hosseini[1]*****,** *Z Yang[1], SE Gerard[1], BM Smith[2], EA Hermann[3], AP Comellas[1], S Fortis[1], JM Reinhardt[1], JL Curtis[4], PG Woodruff[5], NN Hansel[6], RG Barr[3], MK Han[4], EA Hoffman[1] for the SPIROMICS investigators, for the SPIROMICS investigators, [1]University of Iowa, [2]McGill University, [3]Columbia University, [4]University of Michigan, [5]University of California San Francisco, [6]Johns Hopkins University.*

POSTER VIEWING
Thursday, June 11, 2026
5:00-7:00 PM

POSTERS

REPROGRAMMED LYVE1^{+} MACROPHAGES PROMOTE PULMONARY HYPERTENSION. ***Caitlin Lewis[1]****, Thi-Tina Nguyen[1], Janelle Posey[1], Mariah Jordan[1], Nathan Dee[1], Timothy Porfilio[1], Amelia Rosin[1], C Michael Hart[2], Harry Karmouty-Quintana[3], Cassidy Delaney[1], Eva Nozik[1], [1]Sections of Pediatric Critical Care Medicine and Neonatology, Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora CO, [2]Division of Pulmonary, Allergy, Critical Care, and Sleep Medicine, Emory University Atlanta, GA, [3]Divisions of Critical Care, Pulmonary & Sleep Medicine, McGovern Medical School, University of Texas Health Science Center, Houston, TX.*

SOX17 DRIVES RESILIENCE OF THE ARTERIAL ENDOTHELIUM UNDER SHEAR STRESS. B.F. Neep, L.E. de Heus, L.Raaz, X.Sun, X.Pan, F. van Leeuwen, R.Szulcek, C. Dickhoff, J.Jatzlau, P.Knaus, A.van der Meer, F.de Man, C.Rhodes, MR.Wilkins, A.Vonk Noordegraaf, M.J.Goumans, H.J.Bogaard, ***Jurjan Aman****, Department of Pulmonary Medicine, PHEniX Lab, Amsterdam University Medical Center, Amsterdam, The Netherlands.*

A SINGLE-CELL AND SPATIAL TRANSCRIPTOMIC ATLAS OF HUMAN PULMONARY ARTERIAL HYPERTENSION. Hanqiu Zhao, Shunning Liang, Bin Liu, ***Zhiyu Dai****, Division of Pulmonary and Critical Care Medicine, Department of Medicine, School of Medicine, Washington University in St. Louis, St. Louis, MO.*

PRECLINICAL MODELS SUPPORT THE SYNERGISTIC POTENTIAL OF SERALUTINIB AND SOTATERCEPT IN TREATING PULMONARY ARTERIAL HYPERTENSION (PAH). ***Ravikumar Sitapara[1]****, Eduardo Garcia[1], Robin Osterhout[1], Zhaoqing Ding[1], Lawrence S. Zisman[1], Thao Duong-Verlé[1], Robert F. Roscigno[1], Richard Aranda[1], Marc Humbert[2,3], Ly Tu[2,3], Christophe Guignabert[2,3], Jean-Marie Bruey[1], [1]Gossamer Bio, Inc., San Diego, CA, USA; [2]Université Paris-Saclay, Hypertension Pulmonaire: Physiopathology and Innovation Thérapeutique, HPPIT, Faculté de Médecine, Le Kremlin-Bicêtre, France; [3]INSERM UMR_S 999, HPPIT, Le Kremlin-Bicêtre, France.*

MODULATION OF ENDOTHELIAL-TRANSDIFFERENTIATION IN PULMONARY HYPERTENSION: ROLE FOR EBP50 AND MICROBIOME-DERIVED METABOLITES. ***Andres Pulgarin-Rocha[1,2]****, Anastasia Gorelova[3], and Imad Al Ghouleh[1,2], [1]Brown University Health /Department of Medicine Brown University, Providence, RI; [2]Providence VA Medical Center, Providence, RI; [3]University of Pittsburgh Medical Center, Pittsburgh, PA.*

HYPOXIA-INDUCED PLATELET ACTIVATION, BUT NOT HYPOXIA-INDUCED PULMONARY HYPERTENSION, IS IFNR COPY-INDEPENDENT IN THE DP16 MOUSE MODEL OF DOWN SYNDROME (TRISOMY 21). ***Janelle N. Posey[1,8]****, Mariah Jordan[1,8], Thi-Tina N. Nguyen[3,6], Christine Farrell[2,7], Caitlin V. Lewis[3,8], Daniel Colon-Hidalgo[2,7], Eva S. Nozik[3,8], Kelly D. Sullivan[4,6], Joaquin M. Espinosa[5,6], Cassidy Delaney[1,8], [1]Section of Neonatology; [2]Division of Pulmonary Sciences and Critical Care Medicine; [3]Pediatric Critical Care Medicine; [4]Section of Developmental Biology; [5]Department of Pharmacology; [6]Linda Crnic Institute for Down Syndrome; [7]Department of Medicine; [8]Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora, CO.*

HIPK2/E2F2 AXIS SUPPORTS INCREASED PROLIFERATION OF PULMONARY ARTERIAL SMOOTH MUSCLE CELLS IN PULMONARY ARTERIAL HYPERTENSION. *Andressa Pena[1], Theodore Avolio[1], Lifeng Jiang[2], Dmitry Goncharov[2], Horace DeLisser[3], Elena A Goncharova[2],* ***Tatiana V Kudryashova[1]****, [1]University of Pittsburgh, Pittsburgh, PA; [2]University of California, Davis, Davis, CA; [3]University of Pennsylvania, Philadelphia, PA.*

ADVENTITIAL FIBROBLAST DERIVED COMPLEMENT FACTOR D PROMOTES INFLAMMATION AND IMMUNE CELL CROSSTALK IN PULMONARY HYPERTENSION. ***Ram Raj Prasad****, S. Kumar, H. Zhang, H. Cheng-Jun, M. Li, S. Riddle, B. A. McKeon, K. R. Stenmark, CVP School of Medicine, Aurora, CO.*

METABOLIC DYSREGULATION DRIVES PLATELET ACTIVATION AND SICKLE CELL DISEASE-ASSOCIATED PULMONARY HYPERTENSION. ***Daniel Colon Hidalgo****, Nathan Dee, Christina Lisk, Delaney Swindle, Melissa Lucero, Janelle Posey, Caitlin Lewis, Christina Sul, Cassidy Delaney, David Irwin, Eva Nozik, University of Colorado, Anschutz Medical Campus, Aurora, CO.*

IS HEPATOSPLENIC SCHISTOSOMIASIS A PRE-PAH PHENOTYPE? INSIGHTS FROM INVASIVE EXERCISE HEMODYNAMICS. ***Fernanda P Oliveira[1,2]****, Thaís C F Menezes[1], Juliana L Santos[1], Ana Carolina B Duarte[1], Gabriela OS Costa[1], Priscila A Sperandio[1], Jaquelina S Ota-Arakaki[1], Eloara VM Ferreira[1], Claudia Mickael[2], Rudolf KF Oliveira[1], [1]Division of Respiratory Diseases, Department of Medicine, Hospital São Paulo, Federal University of São Paulo (UNIFESP), São Paulo, SP, Brazil; [2]Division of Pulmonary Sciences and Critical Care Medicine, Department of Medicine, University of Colorado Denver/Anschutz Medical Campus, Aurora, CO, United States.*

EBF1 SPECIFIES AN ENDOTHELIAL NICHE THAT DRIVES PULMONARY ARTERIAL DEVELOPMENT. ***Seunghee Lee[1,2*]****, Kyle K. Song[1,2], Dongeon Kim[1,2], Xinguo Jiang[1,2], Amy Tian[1,2#], Mark Nicolls[1,2#], [1]Department of Medicine, Stanford University (Stanford, CA); [2]Veterans Affairs Palo Alto Health Care System (Palo Alto, CA). [#] Co-mentors.*

C3aR IS ESSENTIAL FOR THE DEVELOPMENT OF HYPOXIA INDUCED PULMONARY HYPERTENSION. ***Christine L Farrell[1]****, Janelle N Posey[2], Caitlin V Lewis[3], Mariah Jordan[2], Eva S Nozik[3], Cassidy A Delaney[2], [1]Division of Pulmonary Sciences and Critical Care Medicine, Department of Medicine, [2]Section of Neonatology, [3]Section of Pediatric Critical Care Medicine, Department of Pediatrics, University of Colorado Anschutz Medical Campus, Aurora, CO.*

EFFECTS OF NERANDOMILAST ON BIOMARKERS OF VASCULAR DAMAGE IN PATIENTS WITH IDIOPATHIC PULMONARY FIBROSIS (IPF). ***Francesco Bonella[1]****, Justin M Oldham,[2] Arata Azuma,[3,4] Klaus B Rohr,[5] Nichiren Pillai,[5] Wibke Stansen,[6] Carina Ittrich,[7] Christian Hesslinger,[7] Toby M Maher[8,9], [1]Center for Interstitial and Rare Lung Diseases, Pneumology Department, University Hospital Essen, Ruhrlandklinik, Essen, Germany; [2]Pulmonary and Critical Care Medicine, University of Michigan, Ann Arbor, Michigan, USA; [3]Clinical Research Center, Mihara General Hospital, Saitama, Japan; [4]Nippon Medical School, Tokyo, Japan; [5]Boehringer Ingelheim International GmbH, Ingelheim, Germany; [6]Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim, Germany; [7]Boehringer Ingelheim Pharma GmbH & Co. KG, Biberach, Germany; [8]Department of Pulmonary, Critical Care and Sleep Medicine, Keck School of Medicine, University of Southern California, Los Angeles, CA, USA; [9]National Heart and Lung Institute, Imperial College London, London, UK.*

POSTERS – Thursday, June 11, 2026 -continued

A CYTOSKELETAL MASTER SWITCH THAT ORCHESTRATES PATHOLOGIC VASCULAR REMODELING IN PULMONARY ARTERIAL HYPERTENSION (PAH). ***Keytam S. Awad[1]****, Shuibang Wang[1], Daniels Konja[1], Gabriela A. Ferreyra[1], Christina Zhu[1], Jason M. Elinoff[1,2], Robert L. Danner[1,2], [1]Critical Care Medicine Department, NIH Clinical Center; [2]Critical Care Medicine and Pulmonary Branch, National Heart Lung and Blood Institute, NIH, Bethesda, MD.*

β-ARRESTIN 1 DEFICIENCY SENSITIZES PULMONARY HYPERTENSION SMOOTH MUSCLE CELLS (PASMCs) TO BLUE LIGHT-INDUCED APOPTOSIS. ***Xin Yun****, Gautam Sikka, Ara Schrems, Yingze Martin Ma, Hermella Demsie, Haiyang Jiang, Nicolas Philip, Larissa A. Shimoda Johns Hopkins School of Medicine, Baltimore, MD.*

EFFECT OF HIF-1 ACTIVATION ON P38-MAP KINASE PATHWAY ACTIVATION IN PULMONARY ARTERIAL SMOOTH MUSCLE CELLS (PASMC). ***Michael Koenig*,*** *Xin Yun, Haiyang Jiang, Manuella Ribas Andradre, Mahendra Damarla, Larissa Shimoda****.*** *Johns Hopkins University (Division of Pulmonary and Critical Care Medicine, Johns Hopkins School of Medicine, Baltimore, Maryland, United States.*

PATIENT REPORTED OUTCOMES IN INTERSTITIAL LUNG DISEASE WITH AND WITHOUT PULMONARY HYPERTENSION: INTERIM RESULTS FROM THE PHINDER STUDY. S.D. Nathan[1], M. DerSarkissian[2], D. Kiely[3], T. Kulkarni[4], S. Sahay[5], M. Broderick[6], D. Lee[6], K. Maher[6], ***Claire M. Thrasher[6]****, M.B. Scholand[7], D. Zisman[8], O.A. Shlobin[1], [1]Inova Fairfax Hospital, Falls Church, VA; [2]Analysis Group, Los Angeles, CA; [3]University of Sheffield, Sheffield, UK; [4]University of Alabama, Birmingham, AL; [5]Houston Methodist Hospital, Houston, TX; [6]United Therapeutics, Research Triangle Park, NC; [7]University of Utah, Salt Lake City, UT; [8]Cleveland Clinic Florida, Weston, FL.*

AKT-DEPENDENT VPS34 ACTIVATION IN PULMONARY ARTERIAL HYPERTENSION Anthony Natoli[1], Kaylin Piza-Taylor[1], Benjamin Reinhard[1,2], Felix Aung[1], Logan Hallee[3], Jason P. Gleghorn[3,4], ***Yuanjun Shen[1]****, [1]School of Pharmacy and Pharmaceutical Science, Binghamton University, NY; [2]Harpur College of Arts and Sciences, Binghamton University, NY; [3]Center for Bioinformatics and Computational Biology, University of Delaware, DE; [4]Department of Biomedical Engineering, University of Delaware, DE.*

PULMONARY VASODILATION WITH TREPROSTINIL PALMITIL (TP) INHALATION POWDER (TPIP) IN RAT ISOLATED PERFUSED LUNGS. ***Tam Nguyen*,*** *Christina Chang, David Cipolla, Mary Kelly, Zhili Li, Vladimir Malinin, Walter Perkins, Veronica Viramontes, Junguo Zhou, Michel Corboz, Insmed Incorporated, Bridgewater, NJ.*

UNEXPECTED POTENTIALLY HARMFUL EFFECT OF THE SODIUM GLUCOSE COTRANSPORTER TYPE 2 INHIBITOR DAPAGLIFLOZIN IN A MOUSE MODEL OF COPD-ASSOCIATED PULMONARY HYPERTENSION. ***Seyedali Mousavi Aghdas[1]****, Katrina Kopf[1], Joanna Poczobutt[1], Tsering Palmo[1], Lennart Jost[1], Koichi Nishino[1], Tanner Rivera[1], Tim Lahm[1,2], Irina Petrache[1,2], [1]Division of Pulmonary, Critical Care, and Sleep Medicine, National Jewish Health; [2]Division of Pulmonary Sciences and Critical Care Medicine, University of Colorado Anschutz, Aurora, CO.*