




Marlene Rabinovitch

Dwight and Vera Dunlevie Professor in Pediatric Cardiology

Pediatrics - Cardiology

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford University School of Medicine**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

CLINICAL FOCUS

- Pediatric Cardiology
- Pulmonary Vascular Diseases

ACADEMIC APPOINTMENTS

- Professor, Pediatrics - Cardiology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director, Basic Science and Engineering Initiative, Betty Irene Moore Children's Heart Center, (2018- present)
- Staff Scientist, Vera Moulton Wall Center for Pulmonary Vascular Disease, (2003- present)

HONORS AND AWARDS

- Distinguished Scientist Lecturer, American Heart Association (2017)
- J. Burns Amberson Lecturer, American Thoracic Society International Conference (2016)
- Robert F. Grover Prize, Assembly on Pulmonary Circulation, American Thoracic Society (2016)
- Mentor Award of Excellence, Dept of Pediatrics, Stanford University (2015)
- Judith Pool Mentoring Award, Northern California Chapter of American Women in Science (2012)
- Louis and Artur Lucian Award for Research in Circulatory Diseases, McGill University (2010)
- Scientific Accomplishment Award, American Thoracic Society (2008)
- Distinguished Scientist Award, American Heart Association (2006)
- Dickinson Richards Lecture, American Heart Association (2005)

- Basic Research Prize, American Heart Association (2004)
- Leadership Award and Prize, CIHR-Institute of Circulatory & Respiratory Health (2004)
- The Gill Award, University of Kentucky (2003)
- Dunlevie Endowed Research Chair, Stanford University (2002)
- Paul Dudley White Lectureship, American Heart Association (2002)
- Distinguished Scientist Award, MRC (2000)
- Award of Merit, Heart & Stroke Foundation of Canada (1999)
- Endowed Research Chair, Heart & Stroke Foundation of Ontario (1997)
- Julius Comroe Lectureship, American Physiological Society (1996)
- Research Achievement Award, Canadian Cardiovascular Society (1994)
- Cushing Memorial Award in Pediatrics, McGill University, Montreal, Canada (1971)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Cardiology, American Board of Pediatrics (1979)
- Fellowship: Children's Hospital Harvard Medical School (1977) MA
- Board Certification: Pediatrics, American Board of Pediatrics (1976)
- Residency: University of Colorado Health Science Center (1973) CO
- Internship: University of Colorado Health Science Center (1972) CO
- Medical Education: McGill University (1971) Canada
- B.S., McGill University, Physiology/Psychology (1967)
- M.D., McGill University, Medicine (1971)

COMMUNITY AND INTERNATIONAL WORK

- National Heart, Lung, Blood Institute Advisory Council, NIH, Bethesda, MD
- Executive Committee, Pulmonary Vascular Research Institute (PVRI)
- Canadian Institutes of Health Research, Circulatory and Respiratory Institute Advisory Board
- Burroughs Wellcome Fund, Translational Research Advisory Committee
- Pulmonary Hypertension Association, Scientific Advisory Board

LINKS

- Rabinovich/Bland Lab: <http://med.stanford.edu/labs/rabinovitchbland/>
- Lab website: <http://med.stanford.edu/labs/rabinovitchbland/>
- BASE Program: <http://med.stanford.edu/base/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The pathological changes in the lung blood vessels that cause right-sided heart failure include loss of the distal microcirculation and obliterative proliferative changes occluding the lumen of larger arteries. Our goal is to learn how we can activate lung vascular developmental programs to regenerate lost microvessels and to reverse the obliterative changes. Over the past decade our research has led to four novel compounds in clinical trial or being positioned for clinical trial.

Our research projects have explored the link between the genetic mutation causing loss of function of bone morphogenetic protein receptor (BMPR) 2 and perturbation of Wnt signaling, PPAR γ mediated gene regulation, RNA translation, cross-talk with other cell surface receptors (PDGF, RAGE) and structural and functional derangement of the pulmonary circulation. We also address how viruses perturb microRNA function and how this might lead to the activation and production of neutrophil elastase in the vessel wall, and we use microfluidics to establish lung vascular and inflammatory cells that are transformed or abnormally expanded.

New NIH funded research uses induced pluripotent stem cells in collaboration with the laboratory of Dr. Joseph Wu and next generation sequencing in collaboration with the laboratory of Dr. Michael Snyder. Our team compares endothelial cells (ECs) derived from induced pluripotent stem cells (iPSC) with native ECs, to improve our understanding of pulmonary hypertension. Towards this goal, we are comparing gene variants (by Exome/whole genome sequencing), epigenetic changes (DNA methylation, by Methyl-Seq) and RNA expression (by RNA-Seq) in iPSC-ECs derived from skin fibroblasts or blood cells, iPSCs derived from pulmonary arterial EC, with native PAECs. from the same PAH patients or controls. Our second goal is to use iPSC-ECs derived from blood or skin of PAH patients to correct gene variants and to screen novel therapies to determine whether the EC functions of these cells normalize.

We also have an NIH Translational Program Project with the laboratories of Drs. Richard Bland and Mark Nicolls to address the vulnerable microcirculation in pulmonary hypertension, chronic lung disease of prematurity and lung transplant rejection and to work toward translation of novel therapies including the elastase inhibitor elafin. Together with the Nolan, Robinson, Utz and Kodadek Groups on an NIH Proteomics Initiative we address autoimmunity and its relationship to the development of pulmonary hypertension. We use high throughput immunophenotyping and mass element flow cytometry (CYTOF) to identify abnormalities in the immune system and in the response to viral infection.

Other investigator-initiated research focuses on the pivotal role of PPAR γ as a transcription factor activated by BMPR2, and its novel role in DNA damage and repair. These studies led to investigations linking p53, with PPAR γ and the DNA repair machinery and others, that have uncovered a role for amphetamine-stimulated G-protein Coupled Receptor (GPCR) signaling in amplifying DNA damage.

We are engaged in creating genetically modified mice with conditional cell-specific deletion of genes, fate mapped reporter genes to trace lineage and heterozygosity to understand vascular and cardiac phenotypes. We are then positioned to use these mice to reverse disease. We address many features of altered signaling related to the BMP receptor (R2) mutated in familial forms of pulmonary hypertension. Recently we have shown that alterations in normal functioning of BMPR2 impairs elastin fiber assembly and increases susceptibility to degradation by elastase. Well-assembled elastin maintains the integrity and distensibility of vessels and prevents abnormal proliferation of underlying smooth muscle cells and fibroblasts.

Teaching

COURSES

2016-17

- Cardiovascular and Pulmonary Sciences Seminar: MED 223 (Aut, Win)

STANFORD ADVISEES

Scholarly Concentration Director

Holly Elser

Postdoctoral Faculty Sponsor

Rebecca Harper, Sarasa Isobe, Dan Li, Marcy Martin, Jan-Renier Moonen, Shoichiro Otsuki, Shalina Taylor

Postdoctoral Research Mentor

Dan Li, Jan-Renier Moonen, Shalina Taylor

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Developmental Biology (Phd Program)
- Medicine (Masters Program)
- Molecular and Genetic Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Parameters associated with outcome in pediatric patients with congenital heart disease and pulmonary hypertension subjected to combined vasodilator and surgical treatments** *PULMONARY CIRCULATION*
Thomaz, A., Kajita, L. J., Aiello, V. D., Zorzaneli, L., Galas, F. G., Machado, C. G., Barbero-Marcial, M., Jatene, M. B., Rabinovitch, M., Lopes, A.
2019; 9 (3)
- **Evolution of hemodynamic forces in the pulmonary tree with progressively worsening pulmonary arterial hypertension in pediatric patients** *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*
Yang, W., Dong, M., Rabinovitch, M., Chan, F. P., Marsden, A. L., Feinstein, J. A.
2019; 18 (3): 779–96
- **Discovery of Distinct Immune Phenotypes Using Machine Learning in Pulmonary Arterial Hypertension** *CIRCULATION RESEARCH*
Sweatt, A. J., Hedlin, H. K., Balasubramanian, V., Hsi, A., Blum, L. K., Robinson, W. H., Haddad, F., Hickey, P. M., Condliffe, R., Lawrie, A., Nicolls, M. R., Rabinovitch, M., Khatri, et al
2019; 124 (6): 904–19
- **EXPRESS: Parameters associated with outcome in pediatric patients with congenital heart disease and pulmonary hypertension subjected to combined vasodilator and surgical treatments.** *Pulmonary circulation*
Thomaz, A. M., Kajita, L. J., Aiello, V. D., Zorzaneli, L., Galas, F. R., Machado, C. G., Barbero-Marcial, M., Jatene, M. B., Rabinovitch, M., Lopes, A. A.
2019; 2045894019837885
- **PPARgamma Interaction with UBR5/ATMIN Promotes DNA Repair to Maintain Endothelial Homeostasis.** *Cell reports*
Li, C. G., Mahon, C., Sweeney, N. M., Verschueren, E., Kantamani, V., Li, D., Hennigs, J. K., Marciano, D. P., Diebold, I., Abu-Halawa, O., Elliott, M., Sa, S., Guo, et al
2019; 26 (5): 1333
- **Smooth Muscle Contact Drives Endothelial Regeneration by BMPR2-Notch1-Mediated Metabolic and Epigenetic Changes** *CIRCULATION RESEARCH*
Miyagawa, K., Shi, M., Chen, P., Hennigs, J. K., Zhao, Z., Wang, M., Li, C. G., Saito, T., Taylor, S., Sa, S., Cao, A., Wang, L., Snyder, et al
2019; 124 (2): 211–24
- **Evolution of hemodynamic forces in the pulmonary tree with progressively worsening pulmonary arterial hypertension in pediatric patients.** *Biomechanics and modeling in mechanobiology*
Yang, W., Dong, M., Rabinovitch, M., Chan, F. P., Marsden, A. L., Feinstein, J. A.
2019
- **Inflammatory Basis of Pulmonary Arterial Hypertension: Implications for Perioperative and Critical Care Medicine.** *Anesthesiology*
Goldenberg, N. M., Rabinovitch, M., Steinberg, B. E.
2019
- **Discovery of Distinct Immune Phenotypes Using Machine Learning in Pulmonary Arterial Hypertension.** *Circulation research*
Sweatt, A. J., Hedlin, H. K., Balasubramanian, V., Hsi, A., Blum, L. K., Robinson, W. H., Haddad, F., Hickey, P. M., Condliffe, R. A., Lawrie, A., Nicolls, M. R., Rabinovitch, M., Khatri, et al
2019
- **High-throughput Drug Screen to Reverse Phenotype of Pulmonary Artery Hypertension Ipsc Derived Vascular Cells Combined with Bioinformatics Uncovers Promising Therapies**
Gu, M., Donate, M., Miao, Y., Mao, S., Saito, T., Otsuki, S., Wang, L., Harper, R., Sa, S., Khatri, P., Rabinovitch, M.

LIPPINCOTT WILLIAMS & WILKINS.2018: E70

- **Smooth Muscle Contact Drives Endothelial Regeneration by BMPR2-Notch1 Mediated Metabolic and Epigenetic Changes.** *Circulation research*
Miyagawa, K., Shi, M., Chen, P., Hennigs, J. K., Zhao, Z., Wang, M., Li, C. G., Saito, T., Taylor, S., Sa, S., Cao, A., Wang, L., Snyder, et al
2018
- **Elafin Treatment Rescues EGFR-Klf4 Signaling and Lung Cell Survival in Ventilated Newborn Mice.** *American journal of respiratory cell and molecular biology*
Alejandre Alcazar, M. A., Kaschwich, M., Ertsey, R., Preuss, S., Milla, C., Mujahid, S., Masumi, J., Khan, S., Mokres, L. M., Tian, L., Mohr, J., Hirani, D. V., Rabinovitch, et al
2018; 59 (5): 623–34
- **The Role of Neutrophils and Neutrophil Elastase in Pulmonary Arterial Hypertension** *FRONTIERS IN MEDICINE*
Taylor, S., Dirir, O., Zamanian, R. T., Rabinovitch, M., Thompson, A.
2018; 5
- **A Pro - Con debate: Current Controversies in PAH Pathogenesis at the American Thoracic Society International Meeting in 2017.** *American journal of physiology. Lung cellular and molecular physiology*
Kuebler, W. M., Nicolls, M. R., Olschewski, A., Abe, K., Rabinovitch, M., Stewart, D. J., Chan, S. Y., Morrell, N. W., Archer, S. L., Spiekerkoetter, E.
2018
- **The Role of Neutrophils and Neutrophil Elastase in Pulmonary Arterial Hypertension.** *Frontiers in medicine*
Taylor, S., Dirir, O., Zamanian, R. T., Rabinovitch, M., Thompson, A. A.
2018; 5: 217
- **Pathology and pathobiology of pulmonary hypertension: state of the art and research perspectives.** *The European respiratory journal*
Humbert, M., Guignabert, C., Bonnet, S., Dorfmüller, P., Klinger, J. R., Nicolls, M. R., Olschewski, A. J., Pullamsetti, S. S., Schermuly, R. T., Stenmark, K. R., Rabinovitch, M.
2018
- **Right Ventricular Stroke Work Correlates with Outcomes in Pediatric Pulmonary Arterial Hypertension.** *Pulmonary circulation*
Yang, W., Marsden, A. L., Ogawa, M. T., Sakarovitch, C., Hall, K. K., Rabinovitch, M., Feinstein, J. A.
2018: 2045894018780534
- **A Dominant Role for Regulatory T Cells in Protecting Females Against Pulmonary Hypertension.** *Circulation research*
Tamosiuniene, R., Manouvakhova, O., Mesange, P., Saito, T., Qian, J., Sanyal, M., Lin, Y. C., Nguyen, L. P., Luria, A., Tu, A. B., Sante, J. M., Rabinovitch, M., Fitzgerald, et al
2018
- **Right Heart End-Systolic Remodeling Index Strongly Predicts Outcomes in Pulmonary Arterial Hypertension: Comparison With Validated Models.** *Circulation. Cardiovascular imaging*
Amsellem, M., Sweatt, A. J., Aymami, M. C., Kuznetsova, T., Selej, M., Lu, H., Mercier, O., Fadel, E., Schnittger, I., McConnell, M. V., Rabinovitch, M., Zamanian, R. T., Haddad, et al
2017; 10 (6)
- **Enhancing Insights into Pulmonary Vascular Disease (PVD) Through a Precision Medicine Approach. A Joint NHLBI-CMREF Workshop Report.** *American journal of respiratory and critical care medicine*
Newman, J. H., Rich, S., Abman, S. H., Alexander, J. H., Barnard, J., Beck, G. J., Benza, R. L., Bull, T. M., Chan, S. Y., Chun, H. J., Doogan, D., Dupuis, J., Erzurum, et al
2017
- **Patient-Specific iPSC-Derived Endothelial Cells Uncover Pathways that Protect against Pulmonary Hypertension in BMPR2 Mutation Carriers** *CELL STEM CELL*
Gu, M., Shao, N., Sa, S., Li, D., Termglinchan, V., Ameen, M., Karakikes, I., Sosa, G., Grubert, F., Lee, J., Cao, A., Taylor, S., Ma, et al
2017; 20 (4): 490-?
- **Long-term miR-29b suppression reduces aneurysm formation in a Marfan mouse model.** *Physiological reports*
Okamura, H., Emrich, F., Trojan, J., Chiu, P., Dalal, A. R., Arakawa, M., Sato, T., Penov, K., Koyano, T., Pedroza, A., Connolly, A. J., Rabinovitch, M., Alvira, et al
2017; 5 (8)

- **Induced Pluripotent Stem Cell Model of Pulmonary Arterial Hypertension Reveals Novel Gene Expression and Patient Specificity** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Sa, S., Gu, M., Chappe, J., Shao, N., Ameen, M., Elliott, K. A., Li, D., Grubert, F., Li, C. G., Taylor, S., Cao, A., Ma, Y., Fong, et al
2017; 195 (7): 930-941
- **Translating Research into Improved Patient Care in Pulmonary Arterial Hypertension** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Bonnet, S., Provencher, S., Guignabert, C., Perros, F., Boucherat, O., Schermuly, R. T., Hassoun, P. M., Rabinovitch, M., Nicolls, M. R., Humbert, M.
2017; 195 (5): 583-595
- **Amphetamines promote mitochondrial dysfunction and DNA damage in pulmonary hypertension.** *JCI insight*
Chen, P., Cao, A., Miyagawa, K., Tojais, N. F., Hennigs, J. K., Li, C. G., Sweeney, N. M., Inglis, A. S., Wang, L., Li, D., Ye, M., Feldman, B. J., Rabinovitch, et al
2017; 2 (2)
- **Relation of Cytokine Profile to Clinical and Hemodynamic Features in Young Patients With Congenital Heart Disease and Pulmonary Hypertension** *AMERICAN JOURNAL OF CARDIOLOGY*
Zorzanelli, L., Maeda, N., Clave, M., Thomaz, A., Galas, F., Rabinovitch, M., Lopes, A.
2017; 119 (1): 119-125
- **Codependence of Bone Morphogenetic Protein Receptor 2 and Transforming Growth Factor- β in Elastic Fiber Assembly and Its Perturbation in Pulmonary Arterial Hypertension.** *Arteriosclerosis, thrombosis, and vascular biology*
Tojais, N. F., Cao, A., Lai, Y. J., Wang, L., Chen, P. I., Alcazar, M. A., de Jesus Perez, V., Hopper, R. K., Rhodes, C. J., Bill, M. A., Sakai, L. Y., Rabinovitch, M.
2017
- **Features and Outcomes of Methamphetamine Associated Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*
Zamanian, R. T., Hedlin, H., Greuenwald, P., Wilson, D. M., Segal, J. I., Jordan, M., Kudelko, K., Liu, J., Hsi, A., Rupp, A., Sweatt, A. J., Tuder, R., Berry, et al
2017
- **Upregulation of HERV-K is Linked to Immunity and Inflammation in Pulmonary Arterial Hypertension.** *Circulation*
Saito, T., Miyagawa, K., Chen, S. Y., Tamosiuniene, R., Wang, L., Sharp, O., Samayoa, E., Harada, D., Moonen, J. A., Cao, A., Chen, P. I., Hennigs, J. K., Gu, et al
2017
- **In Pulmonary Arterial Hypertension, Reduced BMP2 Promotes Endothelial-to-Mesenchymal Transition via HMGA1 and Its Target Slug** *CIRCULATION*
Hopper, R. K., Moonen, J. A., Diebold, I., Cao, A., Rhodes, C. J., Tojais, N. F., Hennigs, J. K., Gu, M., Wang, L., Rabinovitch, M.
2016; 133 (18): 1783-?
- **Loss of PPAR gamma in endothelial cells leads to impaired angiogenesis** *JOURNAL OF CELL SCIENCE*
Vattulainen-Collanus, S., Akinrinade, O., Li, M., Koskenvuo, M., Li, C. G., Rao, S. P., Perez, V. D., Yuan, K., Sawada, H., Koskenvuo, J. W., Alvira, C., Rabinovitch, M., Alastalo, et al
2016; 129 (4): 693-705
- **NETs Activate Pulmonary Arterial Endothelial Cells.** *Arteriosclerosis, thrombosis, and vascular biology*
Rabinovitch, M.
2016; 36 (10): 2035-37
- **Serum Cytokines in Young Pediatric Patients with Congenital Cardiac Shunts and Altered Pulmonary Hemodynamics** *MEDIATORS OF INFLAMMATION*
Zorzanelli, L., Maeda, N. Y., Clave, M. M., Aiello, V. D., Rabinovitch, M., Lopes, A. A.
2016
- **Leukotriene B-4 Activates Pulmonary Artery Adventitial Fibroblasts in Pulmonary Hypertension** *HYPERTENSION*
Qian, J., Tian, W., Jiang, X., Tamosiuniene, R., Sung, Y. K., Shuffle, E. M., Tu, A. B., Valenzuela, A., Jiang, S., Zamanian, R. T., Fiorentino, D. F., Voelkel, N. F., Peters-Golden, et al
2015; 66 (6): 1227-1239
- **RNA Sequencing Analysis Detection of a Novel Pathway of Endothelial Dysfunction in Pulmonary Arterial Hypertension** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Rhodes, C. J., Im, H., Cao, A., Hennigs, J. K., Wang, L., Sa, S., Chen, P., Nickel, N. P., Miyagawa, K., Hopper, R. K., Tojais, N. F., Li, C. G., Gu, et al
2015; 192 (3): 356-366
- **Low-Dose FK506 (Tacrolimus) in End-Stage Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*

- Spiekerkoetter, E., Sung, Y. K., Sudheendra, D., Bill, M., Aldred, M. A., van de Veerndonk, M. C., Vonk Noordegraaf, A., Long-Boyle, J., Dash, R., Yang, P. C., Lawrie, A., Swift, A. J., Rabinovitch, et al
2015; 192 (2): 254-257
- **Cyclosporine Does Not Prevent Microvascular Loss in Transplantation but Can Synergize With a Neutrophil Elastase Inhibitor, Elafin, to Maintain Graft Perfusion During Acute Rejection** *AMERICAN JOURNAL OF TRANSPLANTATION*
Jiang, X., Nguyen, T. T., Tian, W., Sung, Y. K., Yuan, K., Qian, J., Rajadas, J., Sallenave, J., Nickel, N. P., Perez, V. d., RABINOVITCH, M., Nicolls, M. R.
2015; 15 (7): 1768-1781
 - **Elafin Reverses Pulmonary Hypertension via Caveolin-1-Dependent Bone Morphogenetic Protein Signaling** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
Nickel, N. P., Spiekerkoetter, E., Gu, M., Li, C. G., Li, H., Kaschwich, M., Diebold, I., Hennigs, J. K., Kim, K., Miyagawa, K., Wang, L., Cao, A., Sa, et al
2015; 191 (11): 1273-1286
 - **BMP2 Preserves Mitochondrial Function and DNA during Reoxygenation to Promote Endothelial Cell Survival and Reverse Pulmonary Hypertension** *CELL METABOLISM*
Diebold, I., Hennigs, J. K., Miyagawa, K., Li, C. G., Nickel, N. P., Kaschwich, M., Cao, A., Wang, L., Reddy, S., Chen, P., Nakahira, K., Alcazar, M. A., Hopper, et al
2015; 21 (4): 596-608
 - **Lung matrix and vascular remodeling in mechanically ventilated elastin haploinsufficient newborn mice.** *American journal of physiology. Lung cellular and molecular physiology*
Hilgendorff, A., Parai, K., Ertsey, R., Navarro, E., Jain, N., Carandang, F., Peterson, J., Mokres, L., Milla, C., Preuss, S., Alcazar, M. A., Khan, S., Masumi, et al
2015; 308 (5): L464-78
 - **Enhanced Caspase Activity Contributes to Aortic Wall Remodeling and Early Aneurysm Development in a Murine Model of Marfan Syndrome** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
Emrich, F. C., Okamura, H., Dalal, A. R., Penov, K., Merk, D. R., Raaz, U., Hennigs, J. K., Chin, J. T., Miller, M. O., Pedroza, A. J., Craig, J. K., Koyano, T. K., Blankenberg, et al
2015; 35 (1): 146-154
 - **Targeting the Wnt signaling pathways in pulmonary arterial hypertension.** *Drug discovery today*
de Jesus Perez, V., Yuan, K., Alastalo, T., Spiekerkoetter, E., Rabinovitch, M.
2014; 19 (8): 1270-1276
 - **Inflammation and Immunity in the Pathogenesis of Pulmonary Arterial Hypertension** *CIRCULATION RESEARCH*
Rabinovitch, M., Guignabert, C., Humbert, M., Nicolls, M. R.
2014; 115 (1): 165-175
 - **Repair of congenital heart disease with associated pulmonary hypertension in children: what are the minimal investigative procedures? Consensus statement from the Congenital Heart Disease and Pediatric Task Forces, Pulmonary Vascular Research Institute (PVRI).** *Pulmonary circulation*
Lopes, A. A., Barst, R. J., Haworth, S. G., Rabinovitch, M., Al Dabbagh, M., Del Cerro, M. J., Ivy, D., Kashour, T., Kumar, K., Harikrishnan, S., D'Alto, M., Thomaz, A. M., Zorzaneli, et al
2014; 4 (2): 330-341
 - **Reduced BMP2 expression induces GM-CSF translation and macrophage recruitment in humans and mice to exacerbate pulmonary hypertension.** *journal of experimental medicine*
Sawada, H., Saito, T., Nickel, N. P., Alastalo, T., Glotzbach, J. P., Chan, R., Haghghat, L., Fuchs, G., Januszyk, M., Cao, A., Lai, Y., Perez, V. d., Kim, et al
2014; 211 (2): 263-280
 - **Relevant issues in the pathology and pathobiology of pulmonary hypertension.** *Journal of the American College of Cardiology*
Tuder, R. M., Archer, S. L., Dorfmueller, P., Erzurum, S. C., Guignabert, C., Michelakis, E., Rabinovitch, M., Schermuly, R., Stenmark, K. R., Morrell, N. W.
2013; 62 (25): D4-12
 - **Blocking Macrophage Leukotriene B-4 Prevents Endothelial Injury and Reverses Pulmonary Hypertension** *SCIENCE TRANSLATIONAL MEDICINE*
Tian, W., Jiang, X., Tamosiuniene, R., Sung, Y. K., Qian, J., Dhillon, G., Gera, L., Farkas, L., Rabinovitch, M., Zamanian, R. T., Inayathullah, M., Fridlib, M., Rajadas, et al
2013; 5 (200)
 - **FK506 activates BMP2, rescues endothelial dysfunction, and reverses pulmonary hypertension.** *journal of clinical investigation*
Spiekerkoetter, E., Tian, X., Cai, J., Hopper, R. K., Sudheendra, D., Li, C. G., El-Bizri, N., Sawada, H., Haghghat, R., Chan, R., Haghghat, L., de Jesus Perez, V., Wang, et al

2013; 123 (8): 3600-3613

- **Molecular determinants of lung development.** *Annals of the American Thoracic Society*
Morrisey, E. E., Cardoso, W. V., Lane, R. H., Rabinovitch, M., Abman, S. H., Ai, X., Albertine, K. H., Bland, R. D., Chapman, H. A., Checkley, W., Epstein, J. A., Kintner, C. R., Kumar, et al
2013; 10 (2): S12-6
- **Combining induced pluripotent stem cell with next generation sequencing technology to gain new insights into pathobiology and treatment of pulmonary arterial hypertension.** *Pulmonary circulation*
Rabinovitch, M.
2013; 3 (1): 153-155
- **Anticipated classes of new medications and molecular targets for pulmonary arterial hypertension** *PULMONARY CIRCULATION*
Morrell, N. W., Archer, S. L., DeFelice, A., Evans, S., Fiszman, M., Martin, T., Saulnier, M., Rabinovitch, M., Schermuly, R., Stewart, D., Truebel, H., Walker, G., Stenmark, et al
2013; 3 (1): 226-244
- **Patchy deletion of Bmpr1a potentiates proximal pulmonary artery remodeling in mice exposed to chronic hypoxia** *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*
Vanderpool, R. R., El-Bizri, N., Rabinovitch, M., Chesler, N. C.
2013; 12 (1): 33-42
- **Chronic effects of pulmonary artery stenosis on hemodynamic and structural development of the lungs.** *American journal of physiology. Lung cellular and molecular physiology*
Razavi, H., Stewart, S. E., Xu, C., Sawada, H., Zarafshar, S. Y., Taylor, C. A., Rabinovitch, M., Feinstein, J. A.
2013; 304 (1): L17-28
- **Loss of adenomatous polyposis coli-a3 integrin interaction promotes endothelial apoptosis in mice and humans.** *Circulation research*
de Jesus Perez, V. A., Yuan, K., Orcholski, M. E., Sawada, H., Zhao, M., Li, C. G., Tojais, N. F., Nickel, N., Rajagopalan, V., Spiekerkoetter, E., Wang, L., Dutta, R., Bernstein, et al
2012; 111 (12): 1551-1564
- **Molecular pathogenesis of pulmonary arterial hypertension** *JOURNAL OF CLINICAL INVESTIGATION*
Rabinovitch, M.
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