Stanford



Marlene Rabinovitch

Dwight and Vera Dunlevie Professor of Pediatric Cardiology

Pediatrics - Cardiology

Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

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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

- Faculty Recognition Award, Stanford Cardiovascular Institute (2024)
- Research Achievement Award, American Heart Association (2023)
- ATVB Distinguished Lectureer, American Heart Association Scientific Sessions (2021)
- Robert Beamish Leadership Award, Univ. of Manitoba, Institute of Cardiovascular Sciences (2019)
- 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 Univeristy (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)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- CHOP CVI Advisory Board, Pennsylvania Cardiovascular Institute, Univ. of Pennsylvania (2022 - present)

PROFESSIONAL EDUCATION

- Medical Education: McGill University Faculty of Medicine (1971) Canada
- 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
- B.S., McGill Universtiy , 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

- 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 Wingless (Wnt) signaling, PPARg 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 PPARg as a transcription factor activated by BMPR2, and its novel role in DNA damage and repair.. These studies led to investigations linking p53, with PPARg 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 geenes 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

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Mauro Lago Docampo, Yapeng Liu, Chongyang Zhang

Postdoctoral Research Mentor

Olga Pushkarev

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

- **Pulmonary Arterial Hypertension is Exacerbated by SOX17 Deficiency and High Shear Stress and is Reversed by Restoring Endothelial TMEM100-NOTCH Signaling**
  Zhang, C., Wang, L., Lago Docampo, M., Lee-yow, Y., Guo, K., Shinohara, T., Engreitz, J., Rabinovitch, M.
  LIPPINCOTT WILLIAMS & WILKINS.2026: A9051

- **Restoring Endothelial TMEM100 Reverses the Pulmonary Arterial Hypertension Phenotype Resulting from TBX4 Deficiency**
  Lago Docampo, M., Guntur, D., Chandrasekhar, V., Cao, A., Wang, L., Bichu, K., De Souza Vaz, B., Zhang, C., Cheawsamoot, C., Aldred, M. A., Arora, R., Karakikes, I., Rabinovitch, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026: A7152

- **CES1 Deficiency is Associated With Metabolic Reprograming and Endothelial Dysfunction in Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*
  Agarwal, S., Bankar, A., Heo, L., Mitra, A., Chakraborty, A., Liu, L., Huang, F., Swaminathan, G., Auer, N., Chelladurai, P., Guardado, E. S., Matos, J., Le, et al
  2026

- **Targeting IL6-Edn1-FoxO1 axis enables lung growth in mechanically ventilated newborn mice.** *The European respiratory journal*
  Hirani, D., Selle, J., Wagde, V., Klymenko, O., Kuiper-Makris, C., Danopoulos, S., Donato, M., Preuss, S., Preuss, M., Mujahid, S., Vohlen, C., Wulf, K., van Koningsbruggen-Rietschel, et al
  2025

- **Altered maturation and activation state of circulating monocytes is associated with their enhanced recruitment in pulmonary arterial hypertension.** *Respiratory research*
  Harper, R. L., Zhou, X., Marciano, D. P., Cao, A., Wang, L., Chen, G., Adil, M. S., Zhou, W., Maguire, P., Deivanayagam, S., Yu, Q., Viswanathan, V., Yang, et al
  2025; 26 (1): 148

- **Pathogenic Concepts in Pulmonary Arterial Hypertension Revisited - A Multigenerational Perspective.** *American journal of respiratory cell and molecular biology*
  Kwapiszewska, G., Rhodes, C., Rabinovitch, M., Simpson, C., Hassoun, P., Ichimura, K., Humbert, M., Spiekerkoetter, E.
  2025

- **Publisher Correction: An international perspective on the future of systemic sclerosis research.** *Nature reviews. Rheumatology*
  Abraham, D. J., Black, C. M., Denton, C. P., Distler, J. H., Domsic, R., Feghali-Bostwick, C., Gourh, P., Hinchcliff, M., Kolling, F., Kuwana, M., Lafyatis, R., Landegren, U., Mahoney, et al

2025

- **An international perspective on the future of systemic sclerosis research.** *Nature reviews. Rheumatology*
  Abraham, D. J., Black, C. M., Denton, C. P., Distler, J. H., Domsic, R., Feghali-Bostwick, C., Gourh, P., Hinchcliff, M., Kolling, F., Kuwana, M., Lafyatis, R., Landegren, U., Mahoney, et al
  2025

- **Microbiome-Immune Interaction in Pulmonary Arterial Hypertension: What Have We Missed?** *Research (Washington, D.C.)*
  Zhou, X., Tian, W., Gu, S., Rabinovitch, M., Nicolls, M. R., Snyder, M. P.
  2025; 8: 0669

- **High Shear Stress Reduces ERG Causing Endothelial-Mesenchymal Transition and Pulmonary Arterial Hypertension.** *Arteriosclerosis, thrombosis, and vascular biology*
  Shinohara, T., Moonen, J. R., Chun, Y. H., Lee-Yow, Y. C., Okamura, K., Szafron, J. M., Kaplan, J., Cao, A., Wang, L., Guntur, D., Taylor, S., Isobe, S., Dong, et al
  2024

- **Molecular convergence of risk variants for congenital heart defects leveraging a regulatory map of the human fetal heart.** *medRxiv : the preprint server for health sciences*
  Ma, X. R., Conley, S. D., Kosicki, M., Bredikhin, D., Cui, R., Tran, S., Sheth, M. U., Qiu, W. L., Chen, S., Kundu, S., Kang, H. Y., Amgalan, D., Munger, et al
  2024

- **IL6-ET1 signaling inhibits alveolar growth through FoxO1-dependent AT2 survival in mechanically ventilated newborn mice**
  Kuiper-Makris, C., Hirani, D., Wagde, V., Selle, J., Klymenko, O., Donato, M., Preuss, S., Kaschwich, M., Mujahid, S., Vohlen, C., Wilke, R., Wulf, K., Van-Koningsbruggen-Rietschel, et al
  EUROPEAN RESPIRATORY SOC JOURNALS LTD.2024

- **Deciphering the impact of genomic variation on function.** *Nature*
  2024; 633 (8028): 47-57

- **Pathology and pathobiology of pulmonary hypertension: current insights and future directions.** *The European respiratory journal*
  Guignabert, C., Aman, J., Bonnet, S., Dorfmüller, P., Olschewski, A. J., Pullamsetti, S., Rabinovitch, M., Schermuly, R. T., Humbert, M., Stenmark, K. R.
  2024

- **Genetic and functional analysis of Raynaud's syndrome implicates loci in vasculature and immunity.** *Cell genomics*
  Tervi, A., Ramste, M., Abner, E., Cheng, P., Lane, J. M., Maher, M., Valliere, J., Lammi, V., Strausz, S., Riikonen, J., Nguyen, T., Martyn, G. E., Sheth, et al
  2024: 100630

- **Life-saving effect of pulmonary surfactant in premature babies.** *The Journal of clinical investigation*
  Raj, J. U., Bland, R. D., Bhattacharya, J., Rabinovitch, M., Matthay, M. A.
  2024; 134 (9)

- **Reduced FOXF1 links unrepaired DNA damage to pulmonary arterial hypertension.** *Nature communications*
  Isobe, S., Nair, R. V., Kang, H. Y., Wang, L., Moonen, J. R., Shinohara, T., Cao, A., Taylor, S., Otsuki, S., Marciano, D. P., Harper, R. L., Adil, M. S., Zhang, et al
  2023; 14 (1): 7578

- **Single-Cell Imaging Maps Inflammatory Cell Subsets to Pulmonary Arterial Hypertension Vasculopathy.** *American journal of respiratory and critical care medicine*
  Ferrian, S., Cao, A., McCaffrey, E. F., Saito, T., Greenwald, N. F., Nicolls, M. R., Bruce, T., Zamanian, R. T., Del Rosario, P., Rabinovitch, M., Angelo, M.
  2023

- **A computational growth and remodeling framework for adaptive and maladaptive pulmonary arterial hemodynamics.** *Biomechanics and modeling in mechanobiology*
  Szafron, J. M., Yang, W., Feinstein, J. A., Rabinovitch, M., Marsden, A. L.
  2023

- **Frataxin deficiency disrupts mitochondrial respiration and pulmonary endothelial cell function.** *Vascular pharmacology*
  Culley, M. K., Rao, R. J., Mehta, M., Zhao, J., El Khoury, W., Harvey, L. D., Perk, D., Tai, Y. Y., Tang, Y., Shiva, S., Rabinovitch, M., Gu, M., Bertero, et al
  2023: 107181
- **A Computational Growth and Remodeling Framework for Adaptive and Maladaptive Pulmonary Arterial Hemodynamics.** *bioRxiv : the preprint server for biology*
  Szafron, J. M., Yang, W., Feinstein, J. A., Rabinovitch, M., Marsden, A. L.
  2023
- **Are Senolytic Agents Guilty of Overkill or Inappropriate Age Discrimination?** *Circulation*
  Rabinovitch, M.
  2023; 147 (8): 667-668
- **Dysregulated Smooth Muscle Cell BMPR2-ARRB2 Axis Causes Pulmonary Hypertension.** *Circulation research*
  Wang, L., Moonen, J. R., Cao, A., Isobe, S., Li, C. G., Tojais, N. F., Taylor, S., Marciano, D. P., Chen, P., Gu, M., Li, D., Harper, R. L., El-Bizri, et al
  2023
- **Respiratory viruses and postoperative hemodynamics in patients with unrestrictive congenital cardiac communications: a prospective cohort study.** *European journal of medical research*
  Abud, K. C., Machado, C. M., Vilas Boas, L. S., Maeda, N. Y., Carvalho, E. S., Souza, M. F., Gaiolla, P. V., Castro, C. R., Pereira, J., Rabinovitch, M., Lopes, A. A.
  2023; 28 (1): 38
- **KLF4 recruits SWI/SNF to increase chromatin accessibility and reprogram the endothelial enhancer landscape under laminar shear stress.** *Nature communications*
  Moonen, J. R., Chappell, J., Shi, M., Shinohara, T., Li, D., Mumbach, M. R., Zhang, F., Nair, R. V., Nasser, J., Mai, D. H., Taylor, S., Wang, L., Metzger, et al
  2022; 13 (1): 4941
- **KMT2D-NOTCH Mediates Coronary Abnormalities in Hypoplastic Left Heart Syndrome.** *Circulation research*
  Yu, Z., Zhou, X., Liu, Z., Pastrana-Gomez, V., Liu, Y., Guo, M., Tian, L., Nelson, T. J., Wang, N., Mital, S., Chitayat, D., Wu, J. C., Rabinovitch, et al
  2022: 101161CIRCRESAHA122320783
- **Endogenous Retroviral Elements Generate Pathologic Neutrophils in Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*
  Taylor, S., Isobe, S., Cao, A., Contrepois, K., Benayoun, B. A., Jiang, L., Wang, L., Melemenidis, S., Ozen, M. O., Otsuki, S., Shinohara, T., Sweatt, A. J., Kaplan, et al
  2022
- **Role of endothelial cells in pulmonary fibrosis via SREBP2 activation.** *JCI insight*
  Martin, M., Zhang, J., Miao, Y., He, M., Kang, J., Huang, H., Chou, C., Huang, T., Hong, H., Su, S., Wong, S. S., Harper, R. L., Wang, et al
  2021; 6 (22)
- **Multi-omic profiling reveals widespread dysregulation of innate immunity and hematopoiesis in COVID-19.** *The Journal of experimental medicine*
  Wilk, A. J., Lee, M. J., Wei, B., Parks, B., Pi, R., Martinez-Colon, G. J., Ranganath, T., Zhao, N. Q., Taylor, S., Becker, W., Stanford COVID-19 Biobank, Jimenez-Morales, D., Blomkalns, A. L., et al
  2021; 218 (8)
- **Monocyte released HERV-K dUTPase engages TLR4 and MCAM causing endothelial mesenchymal transition.** *JCI insight*
  Otsuki, S., Saito, T., Taylor, S., Li, D., Moonen, J., Marciano, D. P., Harper, R. L., Cao, A., Wang, L., Ariza, M. E., Rabinovitch, M.
  2021
- **Frataxin deficiency promotes endothelial senescence in pulmonary hypertension** *JOURNAL OF CLINICAL INVESTIGATION*
  Culley, M. K., Zhao, J., Tai, Y., Tang, Y., Perk, D., Negi, V., Yu, Q., Woodcock, C. C., Handen, A., Speyer, G., Kim, S., Lai, Y., Satoh, et al
  2021; 131 (11)
- **iPSC-endothelial cell phenotypic drug screening and in silico analyses identify tyrphostin-AG1296 for pulmonary arterial hypertension.** *Science translational medicine*
  Gu, M., Donato, M., Guo, M., Wary, N., Miao, Y., Mao, S., Saito, T., Otsuki, S., Wang, L., Harper, R. L., Sa, S., Khatri, P., Rabinovitch, et al

2021; 13 (592)

- **Frataxin deficiency promotes endothelial senescence in pulmonary hypertension.** *The Journal of clinical investigation*
  Culley, M. K., Zhao, J., Tai, Y. Y., Tang, Y., Perk, D., Negi, V., Yu, Q., Woodcock, C. C., Handen, A., Speyer, G., Kim, S., Lai, Y., Satoh, et al
  2021
- **ALDH1A3 Coordinates Metabolism with Gene Regulation in Pulmonary Arterial Hypertension.** *Circulation*
  Li, D., Shao, N., Moonen, J., Zhao, Z., Shi, M., Otsuki, S., Wang, L., Nguyen, T., Yan, E., Marciano, D. P., Contrepois, K., Li, C. G., Wu, et al
  2021
- **Computational simulation-derived hemodynamic and biomechanical properties of the pulmonary arterial tree early in the course of ventricular septal defects.** *Biomechanics and modeling in mechanobiology*
  Dong, M. L., Lan, I. S., Yang, W., Rabinovitch, M., Feinstein, J. A., Marsden, A. L.
  2021
- **Severe Pulmonary Arterial Hypertension is Characterized by Increased Neutrophil Elastase and Relative Elafin Deficiency.** *Chest*
  Sweatt, A. J., Miyagawa, K., Rhodes, C. J., Taylor, S., Del Rosario, P. A., Hsi, A., Haddad, F., Spiekerkoetter, E., Bental-Roof, M., Bland, R. D., Swietlik, E. M., Gräf, S., Wilkins, et al
  2021
- **Patient-Specific Induced Pluripotent Stem Cells Implicate Intrinsic Impaired Contractility in Hypoplastic Left Heart Syndrome.** *Circulation*
  Paige, S. L., Galdos, F. X., Lee, S., Chin, E. T., Ranjbarvaziri, S., Feyen, D. A., Darsha, A. K., Xu, S., Ryan, J. A., Beck, A. L., Qureshi, M. Y., Miao, Y., Gu, et al
  2020; 142 (16): 1605–8
- **Intrinsic Endocardial Defects Contribute to Hypoplastic Left Heart Syndrome.** *Cell stem cell*
  Miao, Y., Tian, L., Martin, M., Paige, S. L., Galdos, F. X., Li, J., Klein, A., Zhang, H., Ma, N., Wei, Y., Stewart, M., Lee, S., Moonen, et al
  2020
- **Cellular senescence impairs the reversibility of pulmonary arterial hypertension.** *Science translational medicine*
  van der Feen, D. E., Bossers, G. P., Hagdorn, Q. A., Moonen, J., Kurakula, K., Szulcek, R., Chappell, J., Vallania, F., Donato, M., Kok, K., Kohli, J. S., Petersen, A. H., van Leusden, et al
  2020; 12 (554)
- **Clinical trial in a dish using iPSCs shows lovastatin improves endothelial dysfunction and cellular cross-talk in LMNA cardiomyopathy.** *Science translational medicine*
  Sayed, N., Liu, C., Ameen, M., Himmati, F., Zhang, J. Z., Khanamiri, S., Moonen, J., Wnorowski, A., Cheng, L., Rhee, J., Gaddam, S., Wang, K. C., Sallam, et al
  2020; 12 (554)
- **Proceedings From the 2019 Stanford Single Ventricle Scientific Summit: Advancing Science for Single Ventricle Patients: From Discovery to Clinical Applications.** *Journal of the American Heart Association*
  Reddy, S., Handler, S. S., Wu, S., Rabinovitch, M., Wright, G.
  2020; 9 (7): e015871
- **PPARγ-p53-Mediated Vasculoregenerative Program to Reverse Pulmonary Hypertension.** *Circulation research*
  Hennigs, J. K., Cao, A. n., Li, C. G., Shi, M. n., Mienert, J. n., Miyagawa, K. n., Körbelin, J. n., Marciano, D. P., Chen, P. I., Roughley, M. n., Elliott, M. V., Harper, R. L., Bill, et al
  2020
- **Genomic integrity of human induced pluripotent stem cells across nine studies in the NHLBI NextGen program.** *Stem cell research*
  Kanchan, K. n., Iyer, K. n., Yanek, L. R., Carcamo-Orive, I. n., Taub, M. A., Malley, C. n., Baldwin, K. n., Becker, L. C., Broeckel, U. n., Cheng, L. n., Cowan, C. n., D'Antonio, M. n., Frazer, et al
  2020; 46: 101803
- **MicroRNA-483 amelioration of experimental pulmonary hypertension.** *EMBO molecular medicine*
  Zhang, J. n., He, Y. n., Yan, X. n., Chen, S. n., He, M. n., Lei, Y. n., Zhang, J. n., Gongol, B. n., Gu, M. n., Miao, Y. n., Bai, L. n., Cui, X. n., Wang, et al
  2020: e11303
- **Remodeling of active endothelial enhancers is associated with aberrant gene-regulatory networks in pulmonary arterial hypertension.** *Nature communications*

Reyes-Palomares, A. n., Gu, M. n., Grubert, F. n., Berest, I. n., Sa, S. n., Kasowski, M. n., Arnold, C. n., Shuai, M. n., Srivas, R. n., Miao, S. n., Li, D. n., Snyder, M. P., Rabinovitch, et al

2020; 11 (1): 1673

- **Targeted Proteomics of Right Heart Adaptation to Pulmonary Arterial Hypertension.** *The European respiratory journal*

  Amsallem, M. n., Sweatt, A. J., Arthur Ataam, J. n., Guihaire, J. n., Lecerf, F. n., Lambert, M. n., Ghigna, M. R., Ali, M. K., Mao, Y. n., Fadel, E. n., Rabinovitch, M. n., de Jesus Perez, V. n., Spiekerkoetter, et al

  2020

- **Image-based scaling laws for somatic growth and pulmonary artery morphometry from infant- to adulthood.** *American journal of physiology. Heart and circulatory physiology*

  Dong, M. L., Yang, W. n., Tamaresis, J. S., Chan, F. P., Zucker, E. J., Kumar, S. n., Rabinovitch, M. n., Marsden, A. L., Feinstein, J. A.

  2020

- **Landscape of cohesin-mediated chromatin loops in the human genome.** *Nature*

  Grubert, F. n., Srivas, R. n., Spacek, D. V., Kasowski, M. n., Ruiz-Velasco, M. n., Sinnott-Armstrong, N. n., Greenside, P. n., Narasimha, A. n., Liu, Q. n., Geller, B. n., Sanghi, A. n., Kulik, M. n., Sa, et al

  2020; 583 (7818): 737–43

- **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., Zorzanelli, 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., Zorzanelli, 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.

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