



## Vinicio de Jesus Perez MD

Associate Professor of Medicine (Pulmonary and Critical Care Medicine)  
Medicine - Pulmonary, Allergy & Critical Care Medicine

### CLINICAL OFFICES

- **Pulmonary and Critical Care**

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Stanford, CA 94305

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Martha Cruz - Administrative Assistant

**Email** micruz@stanford.edu

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### Bio

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#### BIO

Dr. Vinicio de Jesus Perez received his MD from the University of Puerto Rico Medical School and completed an internal medicine residency at Massachusetts General Hospital. He completed a fellowship in pulmonary and critical care medicine in Denver, followed by postdoctoral research training at Stanford University. He focused on researching genetic and molecular mechanisms of pulmonary hypertension (PH) and idiopathic pulmonary fibrosis (IPF) and has devoted his clinical practice to diagnosis and management of these conditions. He is presently associate professor of medicine and staff physician of the Stanford Adult PH Clinic where he trains fellows pursuing careers in PH and IPF. He is principal investigator of a research program with the ultimate goal of identifying new therapeutic targets to treat PH and IPF.

As a medical professional belonging to a minority group, Dr. de Jesus Perez is involved in academic endeavors seeking to improve access of care for patients with disadvantageous ethnic backgrounds and promote diversity in medicine.

#### CLINICAL FOCUS

- Pulmonary Disease
- Pulmonary Hypertension
- Idiopathic Pulmonary Fibrosis
- Scleroderma Lung Diseases
- Drug Induced Pulmonary Hypertension
- LAM

#### ACADEMIC APPOINTMENTS

- Associate Professor, Medicine - Pulmonary, Allergy & Critical Care Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

- Member, Wu Tsai Neurosciences Institute

## **ADMINISTRATIVE APPOINTMENTS**

- Co-Chair, CVI Education Committee, (2020- present)
- Member, Student Scholarship Committee, (2018- present)
- Faculty Senator, Stanford University, (2018- present)
- Co-Director, Stanford Translational Investigator Program (TIP), Stanford School of Medicine, (2016- present)
- Member, Admissions Committee, Stanford Medical Scientist Training Program (MSTP), (2016- present)
- Faculty, TRAM, (2016- present)
- Staff Physician, Adult Pulmonary Hypertension Clinic, (2006- present)
- Faculty Member, Stanford Cardiovascular Institute, (2011- present)
- Assistant Professor of Medicine, Stanford University, (2011- present)
- Faculty Member, CHRI, (2012- present)
- Faculty Member, Bio-X, (2012- present)
- Faculty Member, iBioinformatics, (2015- present)

## **HONORS AND AWARDS**

- Beta Beta Beta Award, Beta Beta Beta (1996)
- Summa cum Laude-Biology, University of Puerto Rico (1996)
- Most Promising Young Profesional 2000, El Nuevo Dia (2000)
- Summa cum Laude-Medicine, University of Puerto Rico (2000)
- Best Intern in Medicine, Massachusetts General Hospital (2001)
- Best Fellow, University of Colorado-Denver (2003)
- American Lung Association Postdoctoral Fellowship Award, American Lung Association (2006)
- AHA 2007 Junior Investigator Travel Award, American Heart Association (2007)
- ATS 2007 Travel award, American Thoracic Society (2007)
- Finalist, Young Investigator Award, Stanford University Medical Center-Cardiovascular Institute (2007)
- Who's Who in America, Madison's Who's Who (2007)
- Who's Who in Medicine in America 2007, Marquis Who's Who in America (2007)
- AHA Scientific Sessions 2008 Best Basic Science Abstract, American Heart Association (2008)
- American Lung Association Career Development Award, American Lung Association (2008)
- Career Development Program in the Genetics and Genomics of Lung Diseases (K12), NIH (2008)
- Fellow, Pulmonary Vascular Research Institute (2008)
- Oak Foundation Grant, Oak Foundation (2008)
- 2008 Professional of the year, Madison Who's who among professionals in America (2009)
- ATS travel award, ATS (2009)
- Finalist, BWF award, Burroughs Wellcome Fund (2009)
- Minority Travel Award, ATS (2010)
- Member-at-large, Cardiopulmonary, Critical Care, Perioperative & Resuscitation Council, American Heart Association (2010-)
- Scholar, Harold Amos Career Development Award, Robert Wood Johnson Foundation (2010-2014)

- Wall Center Genomics Research Grant, Vera Moulton Wall Center for Pulmonary Vascular Research (2011-2012)
- Fellow, American College of Chest Physicians (2012)
- Member, Scientific Research Committee, Pulmonary Hypertension Association (2012-)
- Pulmonary Hypertension Breakthrough Initiative, CMREF (2012-)
- OCT as a novel tool in the diagnosis of PAH, CBIS (2012-2013)
- TRAM award, Translational Research and Applied Medicine Program, Stanford University (2012-2013)
- Supplemental Award to Outstanding K08, Pulmonary Hypertension Association (2012-2017)
- CVI seed grant, Stanford CVI (2013)
- Distinguished Faculty Fellow, Stanford University (2013)
- Faculty Member, Faculty of 1000, Pulmonary Vascular Diseases (2013)
- Faculty Member, Faculty Row (2013)
- Faculty of 1000 Reviewer of the year, Faculty of 1000 Prime (2013)
- Fellow, American Heart Association, American Heart Association (2013)
- Keystone Symposia Fellowship, Keystone Symposia (2013)
- American Lung Association Biomedical Research Grant, American Lung Association (2013-2015)
- Be HEARD rare disease challenge award, Assay Depot/Sigma (2013-2015)
- Member of the Planning Committee, 2014 Keystone Symposia Series, Keystone Symposia (2013-2015)
- Cournand and Comroe Award (mentor), American Heart Association (2014)
- Faculty of 1000 Faculty Member of the Year for Respiratory Disorders, Faculty of 1000 (2014)
- Stanford-Karolinska Institute Collaborative Award, Swedish Foundation for International Collaboration (2014-2016)
- The Role of Angiogenesis in Lung development, Stanford Child Health Research Institute (2014-2016)
- Primary Mentor, Hispanic-Serving Health Professions Schools (2015)
- AHA Beginning Grant in Aid, American Heart Association (2015-2017)
- CHRI Pilot Study on LAM/TSC, Stanford CHRI (2015-2017)
- InterMune/Genentech Young Faculty Scholar in Pulmonary Fibrosis, Genentech (2015-2017)
- Mentor, CHRI postdoctoral award, Stanford Child Health Research Institute (2015-2018)
- AHA Scientist Development Award (Mentor), American Heart Association (2015-2019)
- Early Career Award, ATS Pulmonary Circulation Assembly (2016)
- Marquis Who's Who in America, Marquis Who's Who (2016)
- Research Leaders Academy, American Heart Association (2016)
- Young Physician Scientist Award, ASCI (2016)
- BeHeard 2015 Award for LAM Research, Rare Genomics Institute (2016-2017)
- CVI Seed Grant, Cardiovascular Research Institute (2016-2017)
- Dorothy Dee and Marjorie Helene Boring Trust Award, Cardiovascular Institute (2016-2017)
- Proof of Concept Award (Mentor), ATS/Pulmonary Hypertension Association (2016-2017)
- Pulmonary Circulation Assembly Project, American Thoracic Society (2016-2017)
- 1R03HL133423, NIH (2016-2018)
- IM Rosenzweig Junior Investigator award, Pulmonary Fibrosis Foundation (2016-2018)
- BeHeard Award in PAH, Rare Genomics Institute (2017)

- Faculty, AHA Research Leaders Academy, AHA (2017)
- R01HL139664, NIH (2017-2021)
- NIH R01 HL134776, NIH (2017-2022)
- Fellow, American Thoracic Society (2018)
- Manuscript of the Year, Stanford CVI (2019)
- MED223 co-director, Stanford CVI (2019-)
- Cardiovascular Medical Research and Education Fund (CMREF) Educational Grant, The Cardiovascular Medical Research and Education Fund (2019-2020)
- Co-Chair, Education Committee, Stanford CVI (2020)
- Member, American Society for Clinical Investigation (ASCI) (2020)
- Member, Sigma Xi Scientific Honor Society (2020)
- Chair, Diversity Subcommittee of the Council Operations Committee, American Heart Association (2020-)
- Coherus Innovation Award, Coherus Biosciences (2021-2025)
- NIH Career Development Award (1 K08 HL105884-01), NIH (7/2012-7/2017)

### **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member at Large, Pulmonary Circulation Assembly, American Thoracic Society (2009 - present)
- Member at Large, European Respiratory Society (2011 - present)
- Editorial Board, American Journal of Respiratory and Critical Care Medicine (2012 - present)
- Scientific Advisory Council, Pulmonary Hypertension Association (2012 - present)
- Editorial Board, Pulmonary Circulation (2013 - present)
- Member at Large, 3CPR Council, American Heart Association (2013 - present)
- Member at large, Early Diagnosis Committee, Pulmonary Hypertension Association (2013 - present)
- Member, 3CPR Early Career Advisory Committee, American Heart Association (2013 - present)
- PHA Early Diagnosis Campaign, Pulmonary Hypertension Association (2013 - present)
- 3CPR Leadership Committee, American Heart Association (2014 - present)
- AHA Diversity Focus Committee, American Heart Association (2014 - present)
- Advisory Board Member, Faculty of 1000 (2014 - present)
- Early Career Committee, American Heart Association (2014 - present)
- Editorial Board, Faculty of 1000 (2014 - present)
- Keystone Symposia Scientific Advisory Board, ad-hoc member, Keystone Symposia (2014 - present)
- Primary Mentor, Hispanic-Serving Health Professions Schools (2014 - present)
- Ad-Hoc Reviewer, Veni, Netherlands Organisation for Health Research and Development (2015 - present)
- Assembly Chair for Health Disparities in PAH, American Thoracic Society (2015 - present)
- Chair, PH Care for All Initiative (2015 - present)
- Chair, Committee on barriers to PH care for disadvantaged populations, Pulmonary Hypertension Association (2015 - present)
- Member, 2016 Scientific Sessions planning committee, American Heart Association (2015 - present)
- Member, planning committee, 2016 International PH Conference and Scientific Sessions (2015 - present)
- Science to Science Committee, American Heart Association (2015 - present)
- Vascular BioBP Bsc 2 Peer Review Committee, American Heart Association (2015 - present)
- Ad-Hoc Reviewer, Agence Nationale de la Recherche (ANR) (2016 - present)

- Ad-Hoc Reviewer, Dutch Heart Foundation (2016 - present)
- Ad-Hoc Reviewer, Austrian Science Fund (2016 - present)
- Advisory Board Member, F1000Research (2016 - present)
- Member, Keystone Symposia Diversity in Science Committee (2016 - present)
- Member, Mentor, AWIS (2016 - present)
- Academic Editor, Plos One (2017 - present)
- Ad-Hoc Reviewer, Research Lung Foundation, Netherlands (2017 - present)
- Chair Elect, ATS Pulmonary Circulation Assembly Programming Committee, American Thoracic Society (2017 - present)
- Chair, 2018 PHA Scientific Sessions, Pulmonary Hypertension Association (2017 - present)
- Member, PVRI Task Force (2017 - present)
- Member, Science and Clinical Education Lifelong Learning (SCILL), AHA (2017 - present)
- Editorial Board, Circulation Research (2018 - present)
- Editorial Board, American Journal of Physiology – Lung Cellular and Molecular Physiology (2018 - present)
- Member, Diversity and Inclusion Committee, Stanford Department of Medicine (2018 - present)
- Member, Scientific Leadership Committee, Pulmonary Hypertension Association (2018 - present)
- Ad-Hoc Reviewer, NHLBI RIBT Committee NHLBI Special Emphasis Panels (2019 - present)
- Associate Editor, BMC Pulmonary Medicine (2019 - present)
- Co-chair, Stanford DOM Diversity and Inclusion Committee (2019 - present)
- Member, NAVBO Educational Committee (2019 - present)
- Member, National Leadership Council, AHA (2019 - present)
- Member, Assembly Programs & Program Review Subcommittee, ATS (2019 - present)
- Member, ATS PC Planning Committee, ATS (2020 - present)

## **PROFESSIONAL EDUCATION**

- Medical Education: University of Puerto Rico Medical University (2000) Puerto Rico
- Fellowship: Univ Of Colorado (2004) CO
- Residency: Massachusetts General Hospital (2003) MA
- Internship: Massachusetts General Hospital (2001) MA
- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2007)
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2006)
- Fellowship: Stanford University Medical Center (2006) CA
- MD, Stanford University , Pulmonary/CCM (2006)
- MD, University of Colorado-Denver , Pulmonary/CCM (2004)
- MD, Massachusetts General Hospital , Internal Medicine (2003)
- MD, University of Puerto Rico , Medicine (2000)
- BS, University of Puerto Rico , Biology (1996)

## **COMMUNITY AND INTERNATIONAL WORK**

- Mentorship, Harker High School
- Association for Women in Science

- Stanford Career Development Program in Omics of Lung Diseases, Stanford University
- European Respiratory Society
- National Scleroderma Foundation
- Pulmonary Fibrosis Foundation (PFF)
- Pulmonary Hypertension Educational Committee
- Latin American PH Society
- Pulmonary Vascular Research Institute
- North American Vascular Biology Society
- American College of Chest Physicians
- American Thoracic Society
- American Society of Cell Biology
- American Heart Association
- National PH Association

## LINKS

- Lab Page: <http://med.stanford.edu/dejesusperezlab/home.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My work is aimed at understanding the molecular mechanisms involved in the development and progression of pulmonary arterial hypertension (PAH). I am interested in understanding the role that the BMP and Wnt pathways play in regulating functions of pulmonary endothelial and smooth muscle cells both in health and disease.

### CLINICAL TRIALS

- Utility of At-home Monitoring of Exercise Capacity by App-based 6-minute Walk Test, Not Recruiting

### PROJECTS

- Use of Next Generation Sequencing to Accelerate Discovery of Novel Gene Modifiers associated with Pulmonary Arterial Hypertension. - Stanford University, Hospital Universitario La Paz (Madrid) (September 1, 2017 - present)
- The role of versican in the pathobiology of pulmonary arterial hypertension - Stanford University, Lund University, Karolinska Institute (January 1, 2017 - present)
- Pulmonary Hypertension Education in Puerto Rico - Stanford University, University of Puerto Rico Medical Sciences (January 1, 2017 - present)
- A combined genetic and proteomic approach to identify novel gene modifiers in PAH. - Stanford University, University of Graz (December 1, 2016 - present)

## Teaching

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### COURSES

#### 2021-22

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

#### 2020-21

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

#### 2019-20

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

## STANFORD ADVISEES

### Postdoctoral Faculty Sponsor

Stuti Agarwal, Ankita Mitra

### Postdoctoral Research Mentor

Ankita Mitra

## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biochemistry (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Developmental Biology (Phd Program)
- Medicine (Masters Program)
- Molecular and Cellular Physiology (Phd Program)
- Pulmonary & Critical Care Medicine (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Lung Pericytes in Pulmonary Vascular Physiology and Pathophysiology.** *Comprehensive Physiology*  
Yuan, K., Agarwal, S., Chakraborty, A., Condon, D. F., Patel, H., Zhang, S., Huang, F., Mello, S. A., Kirk, O. I., Vasquez, R., de Jesus Perez, V. A.  
2021; 11 (3): 2227-2247
- **Novel TNIP2 and TRAF2 Variants Are Implicated in the Pathogenesis of Pulmonary Arterial Hypertension** *FRONTIERS IN MEDICINE*  
Pienkos, S., Gallego, N., Condon, D. F., Cruz-Utrilla, A., Ochoa, N., Nevado, J., Arias, P., Agarwal, S., Patel, H., Chakraborty, A., Lapunzina, P., Escribano, P., Tenorio-Castano, et al  
2021; 8: 625763
- **Distinct Types of Plexiform Lesions Identified by Synchrotron-Based Phase Contrast Micro-CT.** *American journal of physiology. Lung cellular and molecular physiology*  
Westoo, C., Norvik, C. C., Peruzzi, N., van der Have, O., Lovric, G., Jeremiasen, I., Tran, P., Mokso, R., de Jesus Perez, V. A., Brunnstrom, H., Bech, M., Galambos, C., Tran-Lundmark, et al  
2021
- **Outpatient Inhaled Nitric Oxide in a Patient with Vasoreactive IPAH and COVID-19 Infection.** *American journal of respiratory and critical care medicine*  
Zamanian, R. T., Pollack, C. V., Gentile, M. A., Rashid, M., Fox, J. C., Mahaffey, K. W., de Jesus Perez, V.  
2020
- **Mural Cell SDF1 Signaling is Associated with the Pathogenesis of Pulmonary Arterial Hypertension.** *American journal of respiratory cell and molecular biology*  
Yuan, K. n., Liu, Y. n., Zhang, Y. n., Nathan, A. n., Tian, W. n., Yu, J. n., Sweatt, A. J., Condon, D. n., Chakraborty, A. n., Agarwal, S. n., Auer, N. n., Zhang, S. n., Wu, et al  
2020
- **Long Noncoding RNA TYKRIL Plays a Role in Pulmonary Hypertension via the p53-Mediated Regulation of PDGFR#.** *American journal of respiratory and critical care medicine*  
Zehendner, C. M., Valasarajan, C. n., Werner, A. n., Boeckel, J. N., Bischoff, F. C., John, D. n., Weirick, T. n., Glaser, S. F., Rossbach, O. n., Jaé, N. n., Demolli, S. n., Khassafi, F. n., Yuan, et al  
2020
- **Perspectives on Cardiopulmonary Critical Care for COVID-19 Patients: From Members of the American Heart Association Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation.** *Journal of the American Heart Association*  
Maron, B. A., Gladwin, M. T., Bonnet, S. n., De Jesus Perez, V. n., Perman, S. M., Yu, P. B., Ichinose, F. n.  
2020: e017111

- **ANATOMIC, GENETIC AND FUNCTIONAL PROPERTIES OF THE RETINAL CIRCULATION IN PULMONARY HYPERTENSION** *Pulmonary Circulation*  
Nickel, N. P., Shamskhov, E. A., Razeen, M., Condon, D., Messentier, L., Dubra, A., Liao, Y., Zamanian, R. T., Yuan, K., de Jesus Perez, V. A.  
2020
- **Loss of Endothelium-Derived Wnt5a Is Associated With Reduced Pericyte Recruitment and Small Vessel Loss in Pulmonary Arterial Hypertension** *CIRCULATION*  
Yuan, K., Shamskhov, E. A., Orcholski, M. E., Nathan, A., Reddy, S., Honda, H., Mani, V., Zeng, Y., Ozen, M. O., Wang, L., Demirci, U., Tian, W., Nicolls, et al  
2019; 139 (14): 1710–24
- **A Unique Collateral Artery Development Program Promotes Neonatal Heart Regeneration.** *Cell*  
Das, S., Goldstone, A. B., Wang, H., Farry, J., D'Amato, G., Paulsen, M. J., Eskandari, A., Hironaka, C. E., Phansalkar, R., Sharma, B., Rhee, S., Shamskhov, E. A., Agalliu, et al  
2019
- **EXPRESS: Low-Grade Albuminuria in Pulmonary Arterial Hypertension.** *Pulmonary circulation*  
Nickel, N. n., Perez, V. i., Fessel, J. P., Cogan, J. n., Hamid, R. n., West, J. D., de Caestecker, M. n., Yang, H. n., Zamanian, R. T., Austin, E. n.  
2019: 2045894018824564
- **Methamphetamine use association with pulmonary diseases: a retrospective investigation of hospital discharges in California from 2005 to 2011** *European Respiratory Journal Open Research*  
Tsai, H., Lee, J., Hedlin, H., Zamanian, R., de Jesus Perez, V.  
2019
- **BEYOND THE LUNGS: SYSTEMIC MANIFESTATIONS OF PULMONARY ARTERIAL HYPERTENSION.** *American journal of respiratory and critical care medicine*  
Nickel, N. P., Yuan, K. n., Dorfmueller, P. n., Provencher, S. n., Lai, Y. C., Bonnet, S. n., Austin, E. D., Koch, C. D., Morris, A. n., Perros, F. n., Montani, D. n., Zamanian, R. T., de Jesus Perez, et al  
2019
- **Hydrogel-based delivery of Il-10 improves treatment of bleomycin-induced lung fibrosis in mice.** *Biomaterials*  
Shamskhov, E. A., Kratochvil, M. J., Orcholski, M. E., Nagy, N. n., Kaber, G. n., Steen, E. n., Balaji, S. n., Yuan, K. n., Keswani, S. n., Danielson, B. n., Gao, M. n., Medina, C. n., Nathan, et al  
2019; 203: 52–62
- **DRUG INDUCED PULMONARY ARTERIAL HYPERTENSION: A PRIMER FOR CLINICIANS AND SCIENTISTS.** *American journal of physiology. Lung cellular and molecular physiology*  
Orcholski, M. E., Yuan, K. n., Rajasingh, C. n., Tsai, H. n., Shamskhov, E. A., Dhillon, N. K., Voelkel, N. F., Zamanian, R. T., de Jesus Perez, V. A.  
2018
- **Health Disparities in Patients with Pulmonary Arterial Hypertension: A Blueprint for Action. An Official American Thoracic Society Statement.** *American journal of respiratory and critical care medicine*  
Talwar, A., Garcia, J. G., Tsai, H., Moreno, M., Lahm, T., Zamanian, R. T., Machado, R., Kawut, S. M., Selej, M., Mathai, S., D'Anna, L. H., Sahni, S., Rodriguez, et al  
2017; 196 (8): e32-e47
- **REDUCED CARBOXYLESTERASE 1 IS ASSOCIATED WITH ENDOTHELIAL INJURY IN METHAMPHETAMINE INDUCED PULMONARY ARTERIAL HYPERTENSION.** *American journal of physiology. Lung cellular and molecular physiology*  
Orcholski, M. E., Khurshudyan, A., Shamskhov, E. A., Yuan, K., Chen, I. Y., Kodani, S. D., Morisseau, C., Hammock, B. D., Hong, E. M., Alexandrova, L., Alastalo, T., Berry, G., Zamanian, et al  
2017: ajplung 00453 2016-?
- **Drug induced Pulmonary Hypertension: The First 50 Years** *Advances in Pulmonary Hypertension*  
de Jesus Perez, V. A.  
2017; 15 (3): 133-137
- **Features and Outcomes of Methamphetamine Associated Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*  
Zamanian, R. T., Hedlin, H. n., Greuenwald, P. n., Wilson, D. M., Segal, J. I., Jorden, M. n., Kudelko, K. n., Liu, J. n., Hsi, A. n., Rupp, A. n., Sweatt, A. J., Tuder, R. n., Berry, et al  
2017



- **Increased Pyruvate Dehydrogenase Kinase 4 Expression in Lung Pericytes Is Associated with Reduced Endothelial-Pericyte Interactions and Small Vessel Loss in Pulmonary Arterial Hypertension.** *American journal of pathology*  
Yuan, K., Shao, N., Hennigs, J. K., Discipulo, M., Orcholski, M. E., Shamskhov, E., Richter, A., Hu, X., Wu, J. C., de Jesus Perez, V. A.  
2016; 186 (9): 2500-2514
- **Novel approaches to pulmonary arterial hypertension drug discovery.** *Expert opinion on drug discovery*  
Sung, Y. K., Yuan, K., de Jesus Perez, V. A.  
2016; 11 (4): 407-414
- **PDGF-dependent  $\beta$ -catenin activation is associated with abnormal pulmonary artery smooth muscle cell proliferation in pulmonary arterial hypertension.** *FEBS letters*  
Takahashi, J., Orcholski, M., Yuan, K., de Jesus Perez, V.  
2016; 590 (1): 101-109
- **Activation of the Wnt/Planar Cell Polarity Pathway Is Required for Pericyte Recruitment during Pulmonary Angiogenesis.** *American journal of pathology*  
Yuan, K., Orcholski, M. E., Panaroni, C., Shuffle, E. M., Huang, N. F., Jiang, X., Tian, W., Vladar, E. K., Wang, L., Nicolls, M. R., Wu, J. Y., de Jesus Perez, V. A.  
2015; 185 (1): 69-84
- **Molecular pathogenesis and current pathology of pulmonary hypertension.** *Heart failure reviews*  
de Jesus Perez, V. A.  
2015
- **Optical Coherence Tomography of Pulmonary Arterial Walls in Humans and Pigs (*Sus scrofa domestica*).** *Comparative medicine*  
Brunner, N. W., Zamanian, R. T., Ikeno, F., Mitsutake, Y., Connolly, A. J., Shuffle, E., Yuan, K., Orcholski, M., Lyons, J., de Jesus Perez, V. A.  
2015; 65 (3): 217-224
- **Oxido-reductive regulation of vascular remodeling by receptor tyrosine kinase ROS1** *JOURNAL OF CLINICAL INVESTIGATION*  
Ali, Z. A., Perez, V. D., Yuan, K., Orcholski, M., Pan, S., Qi, W., Chopra, G., Adams, C., Kojima, Y., Leeper, N. J., Qu, X., Zaleta-Rivera, K., Kato, et al  
2014; 124 (12): 5159-5174
- **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
- **Pumping it up! Angiogenesis and muscle deconditioning in pulmonary hypertension.** *American journal of respiratory and critical care medicine*  
de Jesus Perez, V. A.  
2014; 190 (3): 250-251
- **Whole-Exome Sequencing Reveals TopBP1 as a Novel Gene in Idiopathic Pulmonary Arterial Hypertension** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*  
Perez, V. A., Yuan, K., Lyuksytova, M. A., Dewey, F., Orcholski, M. E., Shuffle, E. M., Mathur, M., Yancy, L., Rojas, V., Li, C. G., Cao, A., Alastalo, T., Khazeni, et al  
2014; 189 (10): 1260-1272
- **Loss-of BMPR2 is Associated With Abnormal DNA Repair in Pulmonary Arterial Hypertension.** *American journal of respiratory cell and molecular biology*  
Li, M., Vattulainen, S., Aho, J., Orcholski, M., Rojas, V., Yuan, K., Helenius, M., Taimen, P., Myllykangas, S., De Jesus Perez, V., Koskenvuo, J. W., Alastalo, T. P.  
2014
- **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
- **BMP promotes motility and represses growth of smooth muscle cells by activation of tandem Wnt pathways** *JOURNAL OF CELL BIOLOGY*  
Perez, V. A., Ali, Z., Alastalo, T., Ikeno, F., Sawada, H., Lai, Y., Kleisli, T., Spiekerkoetter, E., Qu, X., Rubinos, L. H., Ashley, E., Amieva, M., Dedhar, et al  
2011; 192 (1): 171-188
- **Bone morphogenetic protein 2 induces pulmonary angiogenesis via Wnt-beta-catenin and Wnt-RhoA-Rac1 pathways** *JOURNAL OF CELL BIOLOGY*  
Perez, V. A., Alastalo, T., Wu, J. C., Axelrod, J. D., Cooke, J. P., Amieva, M., Rabinovitch, M.

2009; 184 (1): 83-99

- **Biochemical, biophysical, and immunological characterization of respiratory secretions in severe SARS-CoV-2 infections.** *JCI insight*  
Kratochvil, M. J., Kaber, G., Demirdjian, S., Cai, P. C., Burgener, E. B., Nagy, N., Barlow, G. L., Popescu, M., Nicolls, M. R., Ozawa, M. G., Regula, D. P., Pacheco-Navarro, A. E., Yang, et al  
2022; 7 (12)
- **Wnt Signaling Interactor WTIP (Wilms Tumor Interacting Protein) Underlies Novel Mechanism for Cardiac Hypertrophy.** *Circulation. Genomic and precision medicine*  
De Jong, H. N., Dewey, F. E., Cordero, P., Victorio, R. A., Kirillova, A., Huang, Y., Madhvani, R., Seo, K., Werdich, A. A., Lan, F., Orcholski, M., Robert Liu, W., Erbilgin, et al  
2022: 101161CIRCGEN121003563
- **Biochemical, Biophysical, and Immunological Characterization of Respiratory Secretions in Severe SARS-CoV-2 (COVID-19) Infections.** *medRxiv : the preprint server for health sciences*  
Kratochvil, M. J., Kaber, G., Demirdjian, S., Cai, P. C., Burgener, E. B., Nagy, N., Barlow, G. L., Popescu, M., Nicolls, M. R., Ozawa, M. G., Regula, D. P., Pacheco-Navarro, A. E., Yang, et al  
2022
- **An evidence appraisal of heart organoids in a dish and commensurability to human heart development in vivo.** *BMC cardiovascular disorders*  
Thomas, D., de Jesus Perez, V. A., Sayed, N.  
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