

Stanford



Mark Nicolls

Stanford University Professor of Pulmonary and Critical Care Medicine
Medicine - Pulmonary, Allergy & Critical Care Medicine

 NIH Biosketch available Online

CLINICAL OFFICES

- **Chest Clinic**

300 Pasteur Dr Rm A157

MC 5351

Stanford, CA 94305

Tel (650) 725-7061 **Fax** (650) 498-6288

- **VA Palo Alto Health Care System Dept of Pulmonary Medicine**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Dara Guevarra - Administrative Associate

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Bio

BIO

Dr. Mark Nicolls specializes in the treatment of lung transplant patients. He has practiced pulmonary and critical care medicine for 20 years. Dr. Nicolls has a special interest in how the immune system contributes to vascular disease and has a basic science laboratory which focuses on lung transplantation, pulmonary hypertension, and lymphedema.

CLINICAL FOCUS

- Pulmonary Critical Care
- Lung Transplantation
- Heart-Lung Transplantation
- Transplantation Immunology
- Pulmonary Hypertension
- Pulmonary Disease
- Lymphedema

ACADEMIC APPOINTMENTS

- Professor, Medicine - Pulmonary, Allergy & Critical Care Medicine
- Member, Cardiovascular Institute
- Member, CVI/Vera Moulton Wall Center

- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director, Lung Immunology, (2007- present)
- Faculty, Vera Moulton Wall Center For Pulmonary Vascular Disease, (2007- present)
- Joint Appointment, Immunology & Rheumatology, (2007- present)
- Member, Institute for Immunity, Transplantation and Infection, (2007- present)
- Member, Stanford Cardiovascular Institute, (2007- present)
- Program Director, Pulmonary and Critical Care Fellowship, (2009-2010)
- Chief, Pulmonary, Allergy and Critical Care Medicine, (2010- present)
- Chairman of the Board, Palo Alto Veterans Administration Institute for Research, (2015-2021)
- Medical Director, Pulmonary, Allergy & Critical Care Medicine Service Line, Stanford Health Care, (2018- present)

HONORS AND AWARDS

- Elected Member, The American Society for Clinical Investigation (2014-)
- Endowed Chair, The Stanford Professor of Pulmonary and Critical Care Medicine, Stanford University (2016-)
- Elected Member, Association of American Physicians (2020-)
- Dickinson Richards Lecture, American Heart Association (2021)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Executive Committee, Stanford Cardiovascular Institute (2010 - present)
- Steering Committee - Vera Moulton Wall Center for Pulmonary Vascular Disease, Stanford University School of Medicine (2007 - present)

PROFESSIONAL EDUCATION

- Fellowship: University of Colorado School of Medicine (1999) CO
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (1998)
- Residency: Stanford University School of Medicine (1996) CA
- Medical Education: Stanford University School of Medicine (1993) CA
- Board Certification, ABIM , Critical Care Medicine (1999)
- BS, University of Portland , Biology (1987)

PATENTS

- Mark Nicolls, Gregg Semenza, Xinguo Jiang, Gundeep Dhillon, Jayakumar Rajadas, Geoffrey Gurtner. "United States Patent 10548860 HIF-1 modulator paint formation and uses thereof", Leland Stanford Junior University, VA Palo Alto, Johns Hopkins, Feb 4, 2020
- Preetha Jothimuthu, Mohammed Inayathullah Nazir Ahmed, Wen A. Tian, Jayakumar Rajadas, Mark Nicolls, JooChuan Ang. "United States Patent 10527577 Nanogrid electrochemical sensor for detection of biochemical species by electrochemical impedance spectroscopy", The Board of Trustees of the Leland Stanford Junior University, The United States of America as represented by the Department of Veteran Affairs (Washington DC), Jan 7, 2020
- Mark Nicolls, Stanley G. Rockson, Wen A. Tian, Xinguo Jiang, Jeanna Kim. "United States Patent 10500178 LTB4 inhibition to prevent and treat lymphedema", The Board of Trustees of the Leland Stanford Junior University, Dec 10, 2019
- Mark Nicolls, Gregg Semenza, Xinguo Jiang, Gundeep Dhillon, Jayakumar Rajadas, Geoffrey Gurtner,. "United States Patent 10,220,009 HIF-1 Modulator Paint Formulation and Uses Thereof", Leland Stanford Junior University, VA, Johns Hopkins, Mar 5, 2019
- Mark Nicolls, Wen Tian, Jayakumar Rajadas. "United States Patent 9861601 Treatment of pulmonary arterial hypertension with leukotriene inhibitors.", Leland Stanford Junior University, VA Palo Alto, Jan 9, 2018
- Mark Nicolls, Xinguo Jiang, Geoffrey Gurtner, Gregg Semenza, Jayakumar Rajadas. "United States Patent 9763899 Iron chelators and use thereof for reducing transplant failure during rejection episodes.", Leland Stanford Junior University, VA, Johns Hopkins, Sep 19, 2017
- Mark Nicolls, Karl Kossen, Alan Cohen. "United States Patent 9682071 Methods for improving microvascular integrity.", Leland Stanford Junior University, Intermune Inc., Jun 20, 2017

- Mark Nicolls, Wen Tian, Jayakumar Rajadas. "United States Patent 9233089 Treatment of pulmonary hypertension with leukotriene inhibitors.", Leland Stanford Junior University, Jan 12, 2016

LINKS

- Nicolls Lab website: <http://nicollslab.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab focuses primarily on the contribution of the immune response to lung disease. We are specifically examining the contribution of inflammation to the development of vascular injury in transplantation, pulmonary hypertension and lymphedema.

CLINICAL TRIALS

- Rituximab for Treatment of Systemic Sclerosis-Associated Pulmonary Arterial Hypertension (SSc-PAH), Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Layla Barkal, Dongeon Kim, Ana Pacheco-Navarro, Pranjal Patel, Lan Zhao

Postdoctoral Research Mentor

Christine Cunningham, Dongeon Kim, Lan Zhao

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)

Publications

PUBLICATIONS

- **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)
- **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
- **The role of circular RNAs in pulmonary hypertension.** *The European respiratory journal*
Ali, M. K., Schimmel, K., Zhao, L., Chen, C. K., Dua, K., Nicolls, M. R., Spiekerkoetter, E.
2022
- **CES1 Deficiency Is Associated with Oxidative Stress Mediated Endoplasmic Reticulum/Mitochondrial Dysfunction in Pulmonary Endothelial Cells**
Agarwal, S. S., Chakraborty, A., Shamskhou, E., Condon, D. F., Suresh, K., Rabinovitch, M., Nicolls, M. R., Perez, V.
AMER THORACIC SOC.2022
- **Overexpression of Pericyte HIF2 alpha Exacerbates Hypoxia Induced Pulmonary Hypertension and Right Ventricular Hypertrophy**
Kim, H., Liu, Y., Kim, J., Klouda, T., Hu, C., Tian, W., Jiang, X., Wu, J., Stenmark, K. R., Nicolls, M. R., De Jesus Perez, V., Raby, B. A., Yuan, et al
AMER THORACIC SOC.2022
- **Divergent Roles of Lymphatic Endothelial Cell-Expressed Hypoxia-Inducible Factors in Airway Transplant Rejection**

Mcquiston, A. S., Kim, D., Vihn, R., Schneider, E. C., Tian, W., Jiang, X., Nicolls, M. R.

AMER THORACIC SOC.2022

- **Single-Cell RNA-seq Reveals Transcriptionally Convergent Pulmonary Endothelial Cells in an Inflammatory Model of Pulmonary Arterial Hypertension with BMPR2 Dysfunction**
Kim, D., Zhao, L., Wu, T., Vihn, R., Schneider, E., Cunningham, C. M., Mcquiston, A. S., Kao, P. N., Jiang, X., Tian, A., Nicolls, M. R.
AMER THORACIC SOC.2022
- **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
- **Exploring disease interrelationships in patients with lymphatic disorders: A single center retrospective experience.** *Clinical and translational medicine*
Rockson, S. G., Zhou, X., Zhao, L., Hosseini, D. K., Jiang, X., Sweatt, A. J., Kim, D., Tian, W., Snyder, M. P., Nicolls, M. R.
2022; 12 (4): e760
- **Hypoxia and Hypoxia-Inducible Factors in Lymphedema.** *Frontiers in pharmacology*
Jiang, X., Tian, W., Kim, D., McQuiston, A. S., Vinh, R., Rockson, S. G., Semenza, G. L., Nicolls, M. R.
2022; 13: 851057
- **The COVID-19 Outpatient Pragmatic Platform Study (COPPS): Study design of a multi-center pragmatic platform trial.** *Contemporary clinical trials*
Bunning, B., Hedlin, H., Purington, N., Sundaram, V., Kapphahn, K., Weng, Y., Cunanan, K., Maldonado, Y., Singh, U., Khosla, C., O'Hara, R., Nicolls, M., Springman, et al
2021: 106509
- **The inflammatory role of dysregulated IRS2 in pulmonary vascular remodeling under hypoxic conditions.** *American journal of physiology. Lung cellular and molecular physiology*
Nakahara, M., Ito, H., Skinner, J. T., Lin, Q., Tamosiuniene, R., Nicolls, M. R., Keegan, A. D., Johns, R. A., Yamaji-Kegan, K.
2021
- **Reply to: Multiple Manifestations of Systemic Sclerosis Affect Walk Distance.** *American journal of respiratory and critical care medicine*
Zamarian, R. T., Pinckney, A., Domsic, R. T., Medsger, T., Keyes-Elstein, L., Sweatt, A. J., Welch, B., Goldmuntz, E., Nicolls, M. R., Chung, L., NIH ASC01 Study Group
2021
- **The Kinetics of Lymphatic Dysfunction and Leukocyte Expansion in the Draining Lymph Node during LTB4 Antagonism in a Mouse Model of Lymphedema.** *International journal of molecular sciences*
Cribb, M. T., Sestito, L. F., Rockson, S. G., Nicolls, M. R., Thomas, S. N., Dixon, J. B.
2021; 22 (9)
- **Safety and Efficacy of B-Cell Depletion with Rituximab for the Treatment of Systemic Sclerosis Associated Pulmonary Arterial Hypertension: A Multi-center, Double-blind, Randomized, Placebo-controlled Trial.** *American journal of respiratory and critical care medicine*
Zamarian, R. T., Badesch, D., Chung, L., Domsic, R. T., Medsger, T., Pinckney, A., Keyes-Elstein, L., D'Aveta, C., Spychala, M., White, R. J., Hassoun, P. M., Torres, F., Sweatt, et al
2021
- **Microvasculature in murine tracheal allografts after combined therapy with clopidogrel and everolimus.** *Interactive cardiovascular and thoracic surgery*
Heim, C., Kuckhahn, A., Ramsperger-Gleixner, M., Nicolls, M. R., Weyand, M., Ensminger, S. M.
2021
- **Donor-derived, cell-free DNA levels by next-generation targeted sequencing are elevated in allograft rejection after lung transplantation.** *ERJ open research*
Khush, K. K., De Vlaminc, I., Luikart, H., Ross, D. J., Nicolls, M. R.
2021; 7 (1)
- **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

- **Colorectal Cancer-Associated Microbiome Patterns and Signatures.** *Frontiers in genetics*
Zhao, L., Cho, W. C., Nicolls, M. R.
1800; 12: 787176
- **The Role of Regulatory T Cells in Pulmonary Arterial Hypertension.** *Frontiers in immunology*
Tian, W., Jiang, S. Y., Jiang, X., Tamosiuniene, R., Kim, D., Guan, T., Arsalane, S., Pasupneti, S., Voelkel, N. F., Tang, Q., Nicolls, M. R.
2021; 12: 684657
- **Pulmonary Arterial Hypertension: Diagnosis, Treatment, and Novel Advances.** *American journal of respiratory and critical care medicine*
Maron, B. A., Abman, S. H., Elliott, C. G., Frantz, R. P., Hopper, R. K., Horn, E. M., Nicolls, M. R., Shlobin, O. A., Shah, S. J., Kovacs, G. n., Olschewski, H. n., Rosenzweig, E. B.
2021
- **Leukotrienes in Tumor-Associated Inflammation.** *Frontiers in pharmacology*
Tian, W., Jiang, X., Kim, D., Guan, T., Nicolls, M. R., Rockson, S. G.
2020; 11: 1289
- **Leukotrienes in Tumor-Associated Inflammation** *FRONTIERS IN PHARMACOLOGY*
Tian, W., Jiang, X., Kim, D., Guan, T., Nicolls, M. R., Rockson, S. G.
2020; 11
- **Endothelial HIF-2 α as a Key Endogenous Mediator Preventing Emphysema.** *American journal of respiratory and critical care medicine*
Pasupneti, S., Tian, W., Tu, A. B., Dahms, P., Granucci, E., Gandjeva, A., Xiang, M., Butcher, E., Semenza, G. L., Tuder, R., Jiang, X., Nicolls, M. R.
2020
- **The Hallmarks of Severe Pulmonary Arterial Hypertension: The Cancer Hypothesis - Ten years later.** *American journal of physiology. Lung cellular and molecular physiology*
Cool, C. D., Kuebler, W. M., Bogaard, H. J., Spiekerkoetter, E., Nicolls, M. R., Voelkel, N. F.
2020
- **Decreased lymphatic HIF-2 β accentuates lymphatic remodeling in lymphedema.** *The Journal of clinical investigation*
Jiang, X. n., Tian, W. n., Granucci, E. J., Tu, A. B., Kim, D. n., Dahms, P. n., Pasupneti, S. n., Peng, G. n., Kim, Y. n., Lim, A. H., Espinoza, F. H., Cribb, M. n., Dixon, et al
2020
- **From 2D to 3D: Promising Advances in Imaging Lung Structure.** *Frontiers in medicine*
Klouda, T. n., Condon, D. n., Hao, Y. n., Tian, W. n., Lvova, M. n., Chakraborty, A. n., Nicolls, M. R., Zhou, X. n., Raby, B. A., Yuan, K. n.
2020; 7: 343
- **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
- **Machine learning algorithms to differentiate among pulmonary complications after hematopoietic cell transplant.** *Chest*
Sharifi, H. n., Lai, Y. K., Guo, H. n., Hoppenfeld, M. n., Guenther, Z. D., Johnston, L. n., Brondstetter, T. n., Chhatwani, L. n., Nicolls, M. R., Hsu, J. L.
2020
- **IPSE, an abundant egg-secreted protein of the carcinogenic helminth *Schistosoma haematobium*, promotes proliferation of bladder cancer cells and angiogenesis.** *Infectious agents and cancer*
Mbanefo, E. C., Agbo, C. T., Zhao, Y., Lamanna, O. K., Thai, K. H., Karinshak, S. E., Khan, M. A., Fu, C., Odegaard, J. I., Saltikova, I. V., Smout, M. J., Pennington, L. F., Nicolls, et al
2020; 15: 63
- **Bone Morphogenetic Protein Receptor 2 Mutations Impair T Regulatory Cell Function and Promote Inflammation in Pulmonary Arterial Hypertension**
Peng, G., Tian, A., Guan, T., Wu, T., Nicolls, M. R.
AMER THORACIC SOC.2020
- **Single-Cell RNA-seq Analysis Reveals Endothelial Heterogeneity of Inflammation-Induced Pulmonary Arterial Hypertension Under Bmpr2 Dysfunction**
Wu, T., Peng, G., Tian, A., Guan, T., Nicolls, M. R.

AMER THORACIC SOC.2020

- **Safety and Efficacy of B-cell Depletion with Rituximab for the Treatment of Systemic Sclerosis-associated Pulmonary Arterial Hypertension in a Multi-center NIH Clinical Trial**
Nicolls, M., Badesch, D., Chung, L., Domsic, R., Medsger, T., Pinckney, A., Keyes-Elstein, L., D'Aveta, C., Spychala, M., White, R., Hassoun, P., Torres, F., Molitor, et al
WILEY.2019
- **Late Breaking Abstract - Safety and efficacy of B-cell depletion with rituximab for the treatment of systemic sclerosis-associated pulmonary arterial hypertension**
Zamanian, R., Badesch, D., Chung, L., Domsic, R., Medsger, T., Pinckney, A., Keyes-Elstein, L., D'Aveta, C., Spychala, M., White, J., Hassoun, P., Torres, F., Molitor, et al
EUROPEAN RESPIRATORY SOC JOURNALS LTD.2019
- **Preservation of Microvascular Integrity in Murine Orthotopic Tracheal Allografts by Clopidogrel** *TRANSPLANTATION*
Heim, C., Khan, M., von Silva-Tarouca, B., Kuckhahn, A., Stamminger, T., Ramsperger-Gleixner, M., Nicolls, M. R., Weyand, M., Ensminger, S. M.
2019; 103 (5): 899–908
- **Inducible expression of immediate early genes is regulated through dynamic chromatin association by NF45/ILF2 and NF90/NF110/ILF3** *PLOS ONE*
Wu, T., Shi, L., Lowe, A. W., Nicolls, M. R., Kao, P. N.
2019; 14 (4)
- **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
- **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
- **Preservation of microvascular integrity in murine orthotopic tracheal allografts by clopidogrel.** *Transplantation*
Heim, C., Khan, M. A., Silva-Tarouca, B. v., Kuckhahn, A., Stamminger, T., Ramsperger-Gleixner, M., Nicolls, M. R., Weyand, M., Ensminger, S. M.
2019
- **Anti-hyperlipidaemic effects of synthetic analogues of nordihydroguaiaretic acid in dyslipidaemic rats** *BRITISH JOURNAL OF PHARMACOLOGY*
Singh, M., Bittner, S., Li, Y., Bittner, A., Han, L., Cortez, Y., Inayathullah, M., Arif, Z., Parthasarathi, R., Rajadas, J., Shen, W., Nicolls, M. R., Kraemer, et al
2019; 176 (3): 369–85
- **Airway hypoxia in lung transplantation** *CURRENT OPINION IN PHYSIOLOGY*
Pasupneti, S., Nicolls, M. R.
2019; 7: 21–26
- **The Lymphatic System in Obesity, Insulin Resistance, and Cardiovascular Diseases.** *Frontiers in physiology*
Jiang, X. n., Tian, W. n., Nicolls, M. R., Rockson, S. G.
2019; 10: 1402
- **Phenotypically-Silent Bone Morphogenetic Protein Receptor 2 (Bmpr2) Mutations Predispose Rats to Inflammation-Induced Pulmonary Arterial Hypertension by Enhancing The Risk for Neointimal Transformation.** *Circulation*
Tian, W. n., Jiang, X. n., Sung, Y. K., Shuffle, E. n., Wu, T. H., Kao, P. N., Tu, A. B., Dorfmueller, P. n., Cao, A. n., Wang, L. n., Peng, G. n., Kim, Y. n., Zhang, et al
2019
- **Inducible expression of immediate early genes is regulated through dynamic chromatin association by NF45/ILF2 and NF90/NF110/ILF3.** *PloS one*
Wu, T. H., Shi, L. n., Lowe, A. W., Nicolls, M. R., Kao, P. N.
2019; 14 (4): e0216042
- **Discovery of Distinct Immune Phenotypes Using Machine Learning in Pulmonary Arterial Hypertension.** *Circulation research*
Sweatt, A. J., Hedlin, H. K., Balasubramanian, V. n., Hsi, A. n., Blum, L. K., Robinson, W. H., Haddad, F. n., Hickey, P. M., Condliffe, R. A., Lawrie, A. n., Nicolls, M. R., Rabinovitch, M. n., Khatri, et al

2019

- **High Dose Ubenimex Interferes with the Efficacy of Sildenafil in Experimental Pulmonary Hypertension**
Dahms, P., Tian, A., Zhang, P., Tu, A. B., Jiang, X., Pasupneti, S., Peng, G., Nicolls, M. R.
AMER THORACIC SOC.2019
- **The Role of Iron-Induced Macrophage Dysregulation in Aspergillus Fumigatus Invasion in Airway Transplantation**
Matthaiou, E., Manouvakhova, O. M., Sinha, M., Tu, A. B., Clemons, K. V., Stevens, D. A., Nicolls, M. R., Hsu, J. L.
AMER THORACIC SOC.2019
- **HIF1 alpha-Mediated Lymphangiogenesis Influences Airway Transplant Rejection**
Tu, A. B., Jiang, X., Tian, A., Dahms, P., Zhang, P., Pasupneti, S., Nicolls, M. R.
AMER THORACIC SOC.2019
- **Endothelial HIF-2alpha is Required for the Maintenance of Airway Microvasculature.** *Circulation*
Jiang, X., Tian, W., Tu, A. B., Pasupneti, S., Shuffle, E., Dahms, P., Zhang, P., Cai, H., Dinh, T. T., Liu, B., Cain, C., Giaccia, A. J., Butcher, et al
2018
- **Circulating plasmablasts are elevated and produce pathogenic anti-endothelial cell autoantibodies in idiopathic pulmonary arterial hypertension.** *European journal of immunology*
Blum, L. K., Cao, R. R., Sweatt, A. J., Bill, M. n., Lahey, L. J., Hsi, A. C., Lee, C. S., Kongpachith, S. n., Ju, C. H., Mao, R. n., Wong, H. H., Nicolls, M. R., Zamanian, et al
2018
- **Loss of Endothelial Derived WNT5A is Associated with Reduced Pericyte Recruitment and Small Vessel Loss in Pulmonary Arterial Hypertension.** *Circulation*
Yuan, K. n., Shamskhou, E. A., Orcholski, M. E., Nathan, A. n., Reddy, S. n., Honda, H. n., Mani, V. n., Zeng, Y. n., Ozen, M. O., Wang, L. n., Demirci, U. n., Tian, W. n., Nicolls, et al
2018
- **Pilot studies demonstrate the potential benefits of antiinflammatory therapy in human lymphedema.** *JCI insight*
Rockson, S. G., Tian, W. n., Jiang, X. n., Kuznetsova, T. n., Haddad, F. n., Zampell, J. n., Mehrara, B. n., Sampson, J. P., Roche, L. n., Kim, J. n., Nicolls, M. R.
2018; 3 (20)
- **Increased Lymphangiogenesis in Animal Models of Pulmonary Arterial Hypertension**
Zhang, P., Tian, A. W., Tu, A. B., Jiang, X., Nicolls, M. R.
AMER THORACIC SOC.2018
- **Endothelial HIF-2 alpha Maintains Airway Microvasculature Through Angiopoietin-1/TIE2 Signaling**
Tu, A., Jiang, X., Tian, W., Nicolls, M. R.
AMER THORACIC SOC.2018
- **The Role of Hypoxia Inducible Factors in Maintenance of Airway Epithelial Health**
Pasupneti, S., Tian, A., Jiang, X., Nicolls, M. R.
AMER THORACIC SOC.2018
- **Pathology and pathobiology of pulmonary hypertension: state of the art and research perspectives.** *The European respiratory journal*
Humbert, M. n., Guignabert, C. n., Bonnet, S. n., Dorfmüller, P. n., Klingler, J. R., Nicolls, M. R., Olschewski, A. J., Pullamsetti, S. S., Schermuly, R. T., Stenmark, K. R., Rabinovitch, M. n.
2018
- **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. n., Abe, K. n., Rabinovitch, M. n., Stewart, D. J., Chan, S. Y., Morrell, N. W., Archer, S. L., Spiekeroetter, E. n.
2018
- **Microhemorrhage-associated tissue iron enhances the risk for Aspergillus fumigatus invasion in a mouse model of airway transplantation.** *Science translational medicine*
Hsu, J. L., Manouvakhova, O. V., Clemons, K. V., Inayathullah, M. n., Tu, A. B., Sobel, R. A., Tian, A. n., Nazik, H. n., Pothineni, V. R., Pasupneti, S. n., Jiang, X. n., Dhillon, G. S., Bedi, et al
2018; 10 (429)

- **Nordihydroguaiaretic acid, a lignan from *Larrea tridentata* (Creosote bush) protects against ALIOS diet-induced metabolic dysfunction in mice.** *The Journal of pharmacology and experimental therapeutics*
Chan, J. K., Bittner, S. n., Bittner, A. n., Atwal, S. n., Shen, W. J., Inayathullah, M. n., Rajada, J. n., Nicolls, M. R., Kraemer, F. B., Azhar, S. n.
2018
- **A Dominant Role for Regulatory T Cells in Protecting Females Against Pulmonary Hypertension.** *Circulation research*
Tamosiuniene, R. n., Manouvakhova, O. n., Mesange, P. n., Saito, T. n., Qian, J. n., Sanyal, M. n., Lin, Y. C., Nguyen, L. P., Luria, A. n., Tu, A. B., Sante, J. M., Rabinovitch, M. n., Fitzgerald, et al
2018
- **Dynamics of the human antibody repertoire after B cell depletion in systemic sclerosis.** *Science immunology*
de Bourcy, C. F., Dekker, C. L., Davis, M. M., Nicolls, M. R., Quake, S. R.
2017; 2 (15)
- **Dynamics of the human antibody repertoire after B cell depletion in systemic sclerosis** *SCIENCE IMMUNOLOGY*
de Bourcy, C. A., Dekker, C. L., Davis, M. M., Nicolls, M. R., Quake, S. R.
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