

Sunit Singla, M.D.

817 Timber Ridge Court, Westmont, IL 60559
Phone: (312)513-9722 Email: ssingl6@uic.edu

PRESENT ACADEMIC RANK AND POSITION

August 2016--present Assistant Professor of Medicine,
Division of Pulmonary, Critical Care, Sleep and Allergy Medicine
March 2017--present Program Director of Fellowship in Pulmonary and Critical Care Medicine,
University of Illinois at Chicago,
840 S. Wood Street, Chicago, Illinois 60612-7323

EDUCATION

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| 1999-2003 | University of Illinois Chicago, IL | Doctor of Medicine |
| 1994-1998 | University of Chicago Chicago, IL | Baccalaureate of Arts, Biological Sciences |

POST-GRADUATE TRAINING

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| 2007-2010 | Rush University Medical Center Chicago, IL | Fellowship, Pulmonary/Critical Care |
| 2003-2006 | Rush University Medical Center Chicago, IL | Residency, Internal Medicine |

HONORS AND AWARDS

2020 Attending of the Year
Division of Pulmonary, Critical Care, Sleep and Allergy, University of Illinois
2019 Attending of the Year
Division of Pulmonary, Critical Care, Sleep and Allergy, University of Illinois
2009 Aesculapius Award for Excellence in Teaching and Patient Care
Rush Medical College
2009 Sigma Xi Scientific Research Society Excellent Poster Presentation
Rush University Forum for Research and Clinical Investigation
2008 Hero of the Heart for Exceptional Care and Compassion
Department of Religion, Health, and Human Values
2006 Resident of the Year
Department of Internal Medicine, Rush University Medical Center

ADMINISTRATIVE EXPERIENCE

2017-present Program Director for Fellowship in Pulmonary/Critical Care Medicine

- Board pass rate of 100%
- Recruitment consistently matching top 10-20 ranked applicants
- Developed Airway Management curriculum in collaboration with Dept. of Anesthesia
- Instituted new multi-disciplinary educational conference experiences such as critical care M&M reviews of all ICU deaths and adverse outcomes, and clinic-radiology case conferences in collaboration with Radiology residency program
- Established and chaired Wellness Committee for the Division

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PREVIOUS PROFESSIONAL POSITIONS

- 2014-2016 Instructor of Medicine, Division of Pulmonary, Critical Care, Sleep and Allergy, University of Illinois at Chicago
Research trainee in lab of Dr. Roberto Machado
Attending Physician for pulmonary medicine team and medical intensive care unit
Clinical instructor in pulmonary and critical care medicine for fellows, residents, and medical students
- 2011-2014 T32 Research Fellow, Division of Pulmonary, Critical Care, Sleep and Allergy, University of Illinois at Chicago
Research trainee in lab of Dr. Roberto Machado
Attending Physician for pulmonary medicine team and medical intensive care unit
Clinical instructor in pulmonary and critical care medicine for fellows, residents, and medical students
- 2010-2011 Assistant Professor, Division of Pulmonary and Critical Care Medicine, Rush University Medical Center, Chicago, IL
Attending physician for medical intensive care unit
Clinical instructor in critical care medicine for fellows, residents, and medical students
- 2006-2007 Hospitalist, Rush University Internists
Rush University Medical Center, Chicago, IL
Attending physician for general medical floor admissions
Clinical instructor in general internal medicine for residents and medical students

PROFESSIONAL AND SOCIETY MEMBERSHIPS

- 2010-present Society of Critical Care Medicine
2007-present American Thoracic Society
2007-present Chicago Thoracic Society
2007-present American College of Chest Physicians
2003-present American College of Physicians
2003-present Illinois State Medical Society

BOARD CERTIFICATION

- Diplomate, American Board of Internal Medicine, Critical Care Medicine, Expires 2020
Diplomate, American Board of Internal Medicine, Pulmonary Medicine, Expires 2021
Diplomate, American Board of Internal Medicine, Internal Medicine, Expires 2026
USMLE Step III Passed 09/2005
USMLE Step II Passed 12/2002
USMLE Step I Passed 06/2001

MEDICAL LICENSURE

State of Illinois 036-116078

CLINICAL PRACTICE, INTERESTS, AND ACCOMPLISHMENTS

- Provide outstanding critical care to adult patients in the ICU, and those with pulmonary disease in any setting

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- Facilitate the education of fellows, residents, and medical students in the principles of adult pulmonary, critical care, and general internal medicine
- Drafted and helped establish guidelines for the use of neuromuscular blockade and prone positioning in patients with severe ARDS at the University of Illinois Hospital – September, 2017
- Developed and helped institute a daily rounding checklist in the MICU, 2009

RESEARCH INTERESTS

- Develop novel therapeutic strategies based on discovery of mechanisms of pulmonary endothelial cell barrier dysfunction during acute respiratory distress syndrome (ARDS)

RESEARCH SUPPORT

Active:

NIH/NHLBI 1 K08 HL140222 (PI)

08/01/2018-07/31/2023

Role of lung WWOX deficiency in vascular leak during lung injury

Total Costs: \$870,860

Acute respiratory distress syndrome (ARDS) is a critical illness that afflicts an estimated 200,000 patients/year in the United States alone, kills approximately 75,000, and is seriously debilitating for many survivors²⁹. Specific ARDS therapies do not currently exist, and efforts to reduce its burden have been limited by an incomplete characterization of the diverse molecular mechanisms underlying its pathogenesis. The cardinal, morbidity-producing feature of ARDS is non-cardiogenic pulmonary edema resulting from pulmonary vascular barrier disruption with consequent alveolar flooding, and respiratory failure. The conceptual underpinning for these events consists of cytoskeletal contraction of pulmonary endothelial cells (ECs) leading to the formation of paracellular gaps. Novel strategies which reduce the vascular permeability and lung edema of ARDS are desperately needed. The objective of this proposal is to determine the contribution of the tumor suppressor WWOX to the pathobiological processes associated with ARDS. The major goals are to 1) determine the significance of endothelial cell WWOX expression in murine ARDS, 2) define the molecular mechanisms by which WWOX promotes endothelial barrier protection, and 3) establish the conceptual basis for WWOX-based therapy in cigarette-smoke primed, sepsis-induced ARDS.

Department of Defense (Site PI)

04/01/2020-03/31/2024

Cooling to Help Injured Lungs (CHILL) Phase 2b Randomized Control Trial of Therapeutic Hypothermia in Patients with ARDS

Total Costs: \$395,170

The goal of this work is to perform a Phase IIb randomized clinical trial to study the potential benefit and safety of mild hypothermia in patients with ARDS using 28-day ventilator-free days and other clinical and laboratory surrogates for mortality. This Phase IIb study will generate the necessary information to determine whether and how to design a definitive Phase III clinical trial of therapeutic hypothermia to reduce mortality in patients with ARDS. This trial will compare mild hypothermia (34°-35°C) plus neuromuscular blockade vs. standard temperature management in patients with moderate to severe ARDS.

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Pending:

NIH/NHLBI 1R01HL157946-01 (Lead PI) FOA: RFA-OD-19-028
Risk and Severity of Acute Respiratory Distress Syndrome Following Chronic E-cigarette
Aerosols Exposure
Direct Costs (estimated): \$900,000

NIH/NHLBI R21 (co-PI) FOA: PAR-20-177
Host susceptibility for COVID-19
Direct Costs (estimated): \$275,000

American Lung Association (co-PI) COVID-19 and Emerging Respiratory Viruses Research
Host susceptibility for COVID-19
Direct Costs (estimated): \$200,000

RESEARCH MENTORSHIP

Visiting Professor: Zhenguo Zeng, MD/PhD August, 2018 – August, 2019

First Affiliated Hospital of Nanchang University, Jiangxi, China

Associate Professor of Medicine

Zeng, Zhenguo; Chen, Weiguo; Moshensky, Alexander; Shakir, Zaid; Khan, Raheel; Crotty-Alexander, Laura; Ware, Lorraine B.; Aldaz, Marcelo; Jacobson, Jeffrey R.; Dudek, Steven M.; Natarajan, Vishwanathan; Machado, Roberto F.; Singla, Sunit. Cigarette Smoke and Nicotine-Containing E-cigarette Vapor Downregulate Lung WWOX Expression Which is Associated with Increased Severity of Murine ARDS. *Manuscript under review at AJRCMB. Preprint: <https://doi.org/10.1101/2020.07.13.200832>*

Fellows:

Benjamin Dille, MD 2016-17

Pediatric Critical Care Medicine, University of Illinois at Chicago

Singla, Sunit; Sysol, Justin; **Dille, Benjamin**; Chen, Jiwang; Machado, Roberto F. Hemin Causes Lung Microvascular Endothelial Barrier Dysfunction by Necroptotic Cell Death. *American Journal of Respiratory Cell and Molecular Biology. American Journal of Respiratory Cell and Molecular Biology. 2017 Apr 19. Epub ahead of print. PMID: 28421813*

Zaid Shakir, MD 2016-18

Pulmonary/Critical Care Medicine, University of Illinois at Chicago

Zeng, Zhenguo; Chen, Weiguo; Moshensky, Alexander; **Shakir, Zaid**; Khan, Raheel; Crotty-Alexander, Laura; Ware, Lorraine B.; Aldaz, Marcelo; Jacobson, Jeffrey R.; Dudek, Steven M.; Natarajan, Vishwanathan; Machado, Roberto F.; Singla, Sunit. Cigarette Smoke and Nicotine-Containing E-cigarette Vapor Downregulate Lung WWOX Expression Which is Associated with Increased Severity of Murine ARDS. *Manuscript under review at AJRCMB. Preprint: <https://doi.org/10.1101/2020.07.13.200832>*

Singla, Sunit; **Shakir, Zaid**; Gomes, Marta T.; Jones, Nicole M.; Natarajan, Vishwanathan; Machado, Roberto F. Cigarette Smoke Exposure Induces Loss of Lung WWOX Expression Which Is Associated with Increased Vascular Leak During ARDS. *Am J Respir Crit Care Med* 2018;197: A2471.

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Medical Student:

Amulya Gampa, MD Summer, 2013
University of Illinois at Chicago
Chief resident at University of Chicago

Singla, Sunit; Chen, Jiwang; Sethuraman, Shruthi; Sysol, Justin R.; **Gampa, Amulya**; Zhao, Shuangping; Machado, Roberto F. Loss of Lung WWOX Expression Causes Neutrophilic Inflammation. *AJP: Lung Cellular and Molecular Physiology*. 2017 Mar 10. Epub ahead of print. PMID: 28283473

Undergraduate Student:

Shruthi Sethuraman Summer, 2016
Ohio State University
Worked in labs of John Christman, MD and Megan Ballinger, PhD
Presented at ATS in 2018
Now medical student at Ohio State University

Singla, Sunit; Chen, Jiwang; **Sethuraman, Shruthi**; Sysol, Justin R.; Gampa, Amulya; Zhao, Shuangping; Machado, Roberto F. Loss of Lung WWOX Expression Causes Neutrophilic Inflammation. *AJP: Lung Cellular and Molecular Physiology*. 2017 Mar 10. Epub ahead of print. PMID: 28283473

PRESENTATIONS AT NATIONAL/INTERNATIONAL MEETINGS

Oral Presentations:

- July 16, 2020 Chicagoland Critical Care Conference, Chicago, IL
Modern Controversies in ARDS
- May 20, 2020 American Thoracic Society International Meeting, Philadelphia, PA
Mini Symposium – D17 – Vaping, Cigarettes, and Lung Injury
“Nicotine-Containing E-cigarette Vapor Downregulates Lung WWOX Expression Which is Associated with Increased Severity of MRSA-Induced ARDS”
- May 20, 2018 American Thoracic Society International Meeting, San Diego, CA
Mini Symposium – A97 – Re-defining ALI Pathogenesis
“Cigarette Smoke Exposure Induces Loss of Lung WWOX Expression Which Is Associated with Increased Vascular Leak During ARDS”
- June 18, 2010 American Society for Pharmacology and Experimental Therapeutics, Chicago, IL
Postdoctoral Fellow Symposium
“Endothelial Dysfunction and Cytoprotection During Acute Lung Injury: Implications of Intersectin-1s Downregulation”

Poster Presentations:

- May 21, 2019 American Thoracic Society International Conference, Dallas, TX
C26—Let it Bleed: Endothelial Injury and Angiogenesis in Pulmonary Hypertension

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- “Endothelial-Specific Knockdown of Lung WWOX Expression Worsens Acute Lung Injury”
May 22, 2017 American Thoracic Society International Conference, Washington D.C.
B78—Role of Endothelial Cells in Acute Lung Injury
“Hemin Causes Lung Microvascular Endothelial Barrier Dysfunction by Necroptotic Cell Death”
- May 22, 2017 American Thoracic Society International Conference, Washington D.C.
B80-A—Mechanisms and Models of Acute Lung Injury
“Activation of c-Jun/AP-1 Transcription Factor Causes Neutrophilic Lung Inflammation During Loss of WWOX Expression”
- May 17, 2016 American Thoracic Society International Conference, San Francisco, CA
C29—Protectors of the Lung: Innate Immune Responses in Acute Lung Injury
“Lung WWOX knockdown causes neutrophilic inflammation associated with increased epithelial IL-8 secretion”
- May 17, 2015 American Thoracic Society International Conference, Denver, CO
A57--Lung Injury, Repair, and Fibrosis: The Plot Thickens for Three’s Company
“Hemin Induces Pulmonary Endothelial Cell Barrier Dysfunction via NfκB”
- May 20, 2014 American Thoracic Society International Conference, San Diego, CA
C109 – Lung Biology: At a Crossroad Between Injury and Repair
“The Tumor Suppressor, WWOX, Is Protective In A Murine Model Of Acute Lung Injury”
- May 19, 2013 American Thoracic Society International Conference, Philadelphia, PA
Session A29 – Advances in Understanding the Pathogenesis of Acute Lung Injury
“The Tumor Suppressor, WWOX, Regulates Endothelial Barrier Function In Acute Lung Injury”
- May 17, 2010 American Thoracic Society International Conference, New Orleans, LA
Session B27 – Ventilator-Induced Lung Injury and Acute Lung Injury: Role of the Endothelium
“Endothelial Dysfunction in Lipopolysaccharide-induced Sepsis is Associated With Proteolytic Cleavage of Pro-survival Protein Intersectin-1s, Up-regulation of Bcl-X_L, and Downregulation of Bim.”
- May 17, 2010 American Thoracic Society International Conference, New Orleans, LA
Session B104 – Case Reports: Pathological Pearls
“Intravascular B-Cell Lymphoma (IVL) Presenting with Acute Air-Space Opacities”

INTRAMURAL PRESENTATIONS

University of Illinois Hospital and Health Sciences System:

- March 2020 Department of Medicine Emergency Conference for COVID-19 ARDS –
“Management of Severe ARDS”
- March 2020 Fellows’ Conference – Div. of Pulm/CCM, “Management of Severe ARDS”
- July 2019 Fellows’ Conference – Div. of Pulm/CCM, “Airway Management”
- February 2019 Fellows’ Conference – Div. of Pulm/CCM, “Management of Diabetic Ketoacidosis”

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| January 2019 | Guest Expert Panelist – Management of Severe ARDS – Dept. of Internal Medicine, Morbidity and Mortality Conference |
| January 2019 | Career Day – Dept. of Medicine, guest panelist for Q&A regarding IM resident applications for subspecialty fellowship training |
| January 2019 | Research Conference – Div. of Pulm/CCM, “Role of a tumor suppressor, WWOX, in ARDS” |
| November 2018 | Fellows’ Conference – Div. of Pulm/CCM, “Mechanical Ventilation in ARDS” |
| March 2018 | Fellows’ Conference – Div. of Pulm/CCM, “Management of Refractory Hypoxemia in ARDS” |
| October 2017 | Multidisciplinary Case Conference – Dept. of Medicine, “Approach to Volume Resuscitation in Heart Failure” |
| July 2017 | Fellows’ Conference – Div. of Pulm/CCM, “ARDS” |
| April 2017 | Research Conference – Div. of Pulm/CCM, “Novel insights into the pathogenesis of ARDS: Role of a tumor suppressor” |
| July 2016 | Fellows’ Conference – Div. of Pulm/CCM, “Sepsis/ARDS” |
| December 2015 | Fellows’ Conference – Div. of Pulm/CCM, “Cough Syndromes/NAEB” |
| August 2015 | Fellows’ Conference – Div. of Pulm/CCM, “PFTs – Lung Volumes” |
| November 2014 | Research Conference --Div. of Pulm/CCM, “Role of a tumor suppressor, WWOX, in Acute Lung Injury” |
| December 2013 | Research Conference--Div. of Pulm/CCM, “Novel role of a tumor suppressor, WWOX, in Acute Lung Injury” |
| April 2013 | Research Conference--Div. of Pulm/CCM, “The tumor suppressor, WWOX, is a novel candidate gene in ALI” |
| April 2012 | Research Conference—Div. of Pulm/CCM, “Role of WWOX in Acute Lung Injury (ALI) Syndromes” |

Rush University Medical Center:

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| April 2010 | Journal Club – Div. of Pulm/CCM, “Lung Opening and Closing During Ventilation of Acute Respiratory Distress Syndrome” |
| March 2010 | Grand Rounds -- Dept of Medicine, Rush University Medical Center “Translating Clinical Observations of H1N1 Critical Illness” |
| January 2009 | Journal Club – Div. of Pulm/CCM, “Mechanical Ventilation Guided by Esophageal Pressure in Acute Lung Injury” |
| December 2007 | Journal Club – Div. of Pulm/CCM, “Lung Transplant and Survival in Children with Cystic Fibrosis” |
| 2007-2010 | Core Conference – Div. of Pulm/CCM, Topics: PCP in the non-HIV patient, Lymphocytic Alveolitis in patient with concurrent CMV and HIV infection, Diagnosis of Diffuse Alveolar Hemorrhage, Post-partum Stridor, Methemoglobinemia and New Diagnosis of G6PD-deficiency, Evidence Based Medicine and the Science of Sepsis, Diagnosis of Viral Pneumonitis, Is MRSA more virulent than MSSA?, Vitamin D in Lung Disease, Pharmacogenomics and Activated Protein C, The ICU Checklist, Is it Barotrauma or Volutrauma?, Neuromuscular Blockade in Lung Protective Ventilatory Strategies, Do NO Harm: Nitric Oxide in Acute Lung Injury |

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- October 2006 Grand Rounds -- Dept of Medicine, Multidisciplinary Case Discussion –
25 yo female with syncope
Final Diagnosis: Prolonged-QT syndrome
- December 2003 Grand Rounds – Dept of Medicine, Multidisciplinary Case Discussion –
60 yo male with progressive gout
Final Diagnosis: Colchicine-induced Rhabdomyolysis

BIBLIOGRAPHY

Zeng Z, Chen W, Moshensky A, Shakir Z, Khan R, Crotty Alexander LE, Ware LB, Aldaz CM, Jacobson JR, Dudek SM, Natarajan V, Machado RF, **Singla S**. Cigarette Smoke and Nicotine-Containing E-cigarette Vapor Downregulate Lung WWOX Expression Which is Associated with Increased Severity of Murine ARDS. *Am J Respir Cell Mol Biol*. 2020 Oct 15. doi: 10.1165/rcmb.2020-0145OC. Epub ahead of print. PMID: 33058734.

Singla, Sunit; Machado, Roberto F. Death of the Endothelium in Sepsis: Understanding the Crime Scene. *Am J Respir Cell Mol Biol*. 2018 Apr 25. Epub ahead of print. PMID: 29694793

Singla, Sunit; Chen, Jiwang; Sethuraman, Shruthi; Sysol, Justin R.; Gampa, Amulya; Zhao, Shuangping; Machado, Roberto F. Loss of Lung WWOX Expression Causes Neutrophilic Inflammation. *AJP: Lung Cellular and Molecular Physiology*. 2017 Mar 10. Epub ahead of print. PMID: 28283473

Singla, Sunit; Sysol, Justin; Dille, Benjamin; Chen, Jiwang; Machado, Roberto F. Hemin Causes Lung Microvascular Endothelial Barrier Dysfunction by Necroptotic Cell Death. *American Journal of Respiratory Cell and Molecular Biology*. *American Journal of Respiratory Cell and Molecular Biology*. 2017 Apr 19. Epub ahead of print. PMID: 28421813

Singla, Sunit; Zhou, Tong; Javaid, Kamran; Zhang, Wei; Ma, Shwu-Fan; Wade, Michael S.; Noth, Imre; Sweiss, Nadera J.; Garcia, Joe G.N.; Machado, Roberto F. Expression Profiling Elucidates A Molecular Gene Signature Which Identifies Pulmonary Hypertension In Sarcoidosis. *Pulmonary Circulation*. 2016 Dec; 6(4): 465–471. PMID: PMC5210052

Chen, Jiwang; Sysol, Justin; **Singla, Sunit;** Zhao, Shuangping; Yamamura, Aya; Valdez-Jasso, Daniela; Abbasi, Taimur; Shioura, Krystyna M.; Sahni, Sakshi; Reddy, Vamsi; Sridhar, Arvind; Gao, Hui; Torres, Jaime; Camp, Sara M.; Tang, Haiyang; Ye, Shui Quing; Comhair, Suzy; Dweik, Raed; Hassoun, Paul; Yuan, Jason X.-J; Garcia, Joe G. N.; Machado, Roberto F.. Nicotinamide Phosphoribosyltransferase Promotes Pulmonary Vascular Remodeling and is a Therapeutic Target in Pulmonary Arterial Hypertension. *Circulation Research*. 2017 Feb 15. Epub ahead of print. PMID: 28202489.

Sysol, Justin R.; Chen, Jiwang; **Singla, Sunit;** Zhao, Shuangping; Comhair, Suzy; Natarajan, Viswanathan; Machado, Roberto F. MicroRNA-1 Is Decreased by Hypoxia and Contributes to the Development of Pulmonary Vascular Remodeling via Regulation of Sphingosine Kinase 1. *AJP: Lung Cellular and Molecular Physiology*. 2017 Nov 22. Epub ahead of print. PMID: 29167124

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Singla, Sunit; Machado, Roberto F. The Imitation Game in Pulmonary Arterial Hypertension. Sex, Bone Morphogenetic Protein Receptor, and the Estrogen Paradox. *Am J Respir Crit Care Med*. 2015 Mar 15;191(6):612-3. PMID: 25767922

Desai, Ankit; Duarte, Julio; **Singla, Sunit;** Machado, Roberto. 2013. Pulmonary Hypertension. In Donna K. Arnett, PhD, and Sanjiv J. Shah, MD, (Eds.) *Cardiovascular Genetics and Genomics in Clinical Practice*. New York: Demos Medical Publishing.

Singla, Sunit; Jacobson, Jeffrey R. Statins as a novel therapeutic strategy in acute lung injury. *Pulm Circ*. 2012 Oct;2(4):397-406. PMID: 23372924

Singla, Sunit; Predescu, Dan; Bardita, Cristina; Wang, Minhua; Zhang, Jian; Balk, Robert A.; Predescu, Sanda. Pro-inflammatory endothelial cell dysfunction is associated with intersectin-1s down-regulation. *Respir Res*. 12; 2011 Apr 12:46. PMID: 21486462

Patel, Gourang P.; Grahe, Jaime Simon; Sperry, Mathew; **Singla, Sunit;** Elpern, Ellen; Lateef, Omar; Balk, Robert A. Efficacy and Safety of Dopamine versus Norepinephrine in the Management of Septic Shock. *Shock*. 2010 Apr;33(4):375-80. PMID: 19851126

Abstracts

Zeng, Zhenguoguo; Chen, Weiguoguo; Crotty-Alexander, Laura; Jacobson, Jeffrey; Dudek, Steven; Natarajan, Vishwanathan; Machado, Roberto F.; **Singla, Sunit**. Nicotine-containing E-cigarette Vapor Downregulates Lung WWOX Expression Which Is Associated With Increased Severity of MRSA-Induced ARDS. *Am J Respir Crit Care Med* 2020;

Singla, Sunit; Zeng, Zhenguoguo; Chen, Weiguoguo; Demeritte, Regaina; Chen, Jiwang; Jacobson, Jeffrey R.; Dudek, Steven M.; Natarajan, Vishwanathan; Machado, Roberto F. Endothelial-Specific Knockdown of Lung WWOX Expression Worsens Acute Lung Injury. *Am J Respir Crit Care Med* 2019; 199:A4398.

Bandela, Mounica; Bikkavilli, Ramesh; Fu, Panfeng; Suryadevara, Vidyan; Subbaiah, Papasani; **Singla, Sunit;** Reddy, Shekhar P.; Dudek, Steven M.; Natarajan, Vishwanathan. Role of Lysocardiolipin Acyltransferase in Lung Epithelial Cell Apoptosis Induced by Cigarette Smoke Extract. *Am J Respir Crit Care Med* 2019; 199:A5358.

Gomes, Marta T.; Chen, Jiwang; Haider, S; Bai, Y.; **Singla, Sunit;** Machado, Roberto F. Smooth Muscle Cell Loss of the Tumor Suppressor WWOX Contributes to the Development of Pulmonary Hypertension. *Am J Respir Crit Care Med* 2019; 199:A7211.

Singla, Sunit; Shakir, Zaid; Gomes, Marta T.; Jones, Nicole M.; Natarajan, Vishwanathan; Machado, Roberto F. Cigarette Smoke Exposure Induces Loss of Lung WWOX Expression Which Is Associated with Increased Vascular Leak During ARDS. *Am J Respir Crit Care Med* 2018;197: A2471.

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Jones, Nicole M.; Sysol, Justin R.; **Singla, Sunit**; Wang, Huashan; Dudek, Steven M.; Machado, Roberto F. Cortactin Heterozygous Mice with Sickle Cell Disease are Protected Against Hemin-Induced Acute Lung Injury. *Am J Respir Crit Care Med* 2018;197:A4199.

Gomes, Marta T.; **Singla, Sunit**; Chen, Jiwang; Machado, Roberto F. Expression of the Tumor Suppressor WWOX in Pulmonary Artery Smooth Muscle Cells Is Lost During Hypoxia. *Am J Respir Crit Care Med* 2018;197:A4619.

Singla, Sunit; Chen, Jiwang; Sethuraman, Shruthi; Sysol, Justin R.; Zhao, Shuangping; Machado, Roberto F. Activation of c-Jun/AP-1 Transcription Factor Causes Neutrophilic Lung Inflammation During Loss of WWOX Expression. *Am J Respir Crit Care Med* 2017;195:A4417.

Singla, Sunit; Chen, Jiwang; Sysol, Justin R.; Dille, Benjamin; Machado, Roberto F. Hemin Causes Lung Microvascular Endothelial Barrier Dysfunction by Necroptotic Cell Death. *Am J Respir Crit Care Med* 2017;195:A4354..

Singla, Sunit; Chen, Jiwang; Sysol, Justin R.; Machado, Roberto F. Lung WWOX Knockdown Causes Neutrophilic Inflammation Associated with Increased Epithelial IL-8 Secretion. *Am J Respir Crit Care Med* 2016;193:A4809.

Singla, Sunit; Sysol, Justin R.; Belvitch, Patrick; Chen, Jiwang; Machado, Roberto F. Hemin Induces Pulmonary Endothelial Cell Barrier Dysfunction Via NfκB. *Am J Respir Crit Care Med* 191; 2015:A2075.

Sysol, Justin R.; Sammani, Saad; Letsiou, Eleftheria; **Singla, Sunit**; Dudek, Steven M.; Machado, Roberto F. Mice with Sickle Cell Disease Are Protected From Ventilator-Induced Lung Injury But Not LPS-Induced Lung Injury. *Am J Respir Crit Care Med* 191; 2015:A2060.

Singla, Sunit; Gampa, Amulya; Sun, Xiaguang; Machado, Roberto F. The Tumor Suppressor, WWOX, Is Protective In A Murine Model Of Acute Lung Injury. *Am J Respir Crit Care Med* 189;2014:A5330.

Singla, Sunit; Chen, Jiwang; Camp, Sara; Garcia, J.G.N.; Machado, Roberto F. The Tumor Suppressor, WWOX, Regulates Endothelial Barrier Function In Acute Lung Injury. *Am J Respir Crit Care Med* 187;2013:A1241

Singla, Sunit; Predescu, Dan; Balk, Robert A.; Predescu, Sanda. Endothelial Dysfunction in Lipopolysaccharide-induced Sepsis is Associated With Proteolytic Cleavage of Pro-survival Intersectin-1s, Up-regulation of Bcl-X_L, and Downregulation of Bim. *Am J Respir Crit Care Med* 181;2010:A2677.

Singla, Sunit; Predescu, Dan; Sharma, Richa; Bardita, Cristina; Wang, Minhua; Balk, Robert A.; Predescu, Sanda. Intersectin-1s Regulates NOS-2 Expression and Its Co-localization With Mitochondria During Endotoxin-Induced Pulmonary Endothelial Dysfunction. *Am J Respir Crit Care Med* 183; 2011: A1941.

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Singla, Sunit; Mahajan, Niraj; Tandon, Rajive; Venugopalan, Parameswaran; Casey, Larry. Intravascular B-cell Lymphoma (IVL) Presenting With Acute Air-Space Opacities. Am J Respir Crit Care Med 181;2010:A3859.