

SHARON IRENE SMITH ROUNDS, M.D.

POSITIONS

Associate Dean for Translational Science  
Professor of Medicine and of Pathology and Laboratory Medicine  
The Warren Alpert Medical School of Brown University

Program Director/Principal Investigator  
Advance-RI-Clinical Translational Research (Advance-CTR)

Pulmonary/Critical Care Physician  
Providence VA Medical Center

OFFICE ADDRESS

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EDUCATION

Undergraduate:

- Wellesley College, B.A., 1968, with Honors in Chemistry
- Wellesley College Scholar, 1966-68
- Phi Beta Kappa, 1968
- Society of Sigma Xi, 1968

Medical:

- Tufts University School of Medicine, M.D., 1972
- Alumni Awards in Biochemistry, 1969, and Pathology, 1970
- Alpha Omega Alpha, 1970
- Massachusetts Medical Society Outstanding Student Award, 1972

POSTGRADUATE TRAINING

Residency:

1972-73 Medical Internship, San Francisco General Hospital  
1973-75 Medical Residency, University of California at San Francisco  
1975-76 Medical Chief Resident, San Francisco General Hospital

Fellowship:

1976-79 Pulmonary/Critical Care Fellow, University of Colorado Medical Center  
1977-79 Research Fellow, Cardiovascular Pulmonary Research Laboratory,  
University of Colorado Medical Center

POSTGRADUATE HONORS AND AWARDS

- American Lung Association Training Fellowship, 1976-78
- E.L. Trudeau Fellow, American Lung Association, 1981-84
- NIH Clinical Investigator Award, 1981-1986
- Listed in "Best Doctors in America", Woodward/White, 1994-Present
- Listed in "Best Doctors in America: Northeast Region, Woodward/White
- Fellow, American College of Chest Physicians, 1987
- Fellow, American Heart Association
- Scientific Achievement Award, American Thoracic Society, 2009
- Colorado Pulmonary Hall of Fame, 2014
- Edward Livingston Trudeau Medal, American Thoracic Society, 2017
- Breathing for Life Award, American Thoracic Society Foundation, 2019
- Fellow, American Association for the Advancement of Science, 2019
- Grover Prize, Pulmonary Circulation Assembly, American Thoracic Society, 2019
- Fellow, American Thoracic Society, 2020
- Milton W. Hamolsky Outstanding Physician Award, RI Chapter of American College of Physicians, May, 2020

Named Lectureships

- 13<sup>th</sup> Kass Lecturer, University of Nebraska Medical Center, May, 2004
- Dr. David Cugell Lecturer, Department of Medicine, Feinberg School of Medicine, Northwestern University, February 8, 2005
- Dr. Thomas A. Neff Lecturer, University of Colorado Health Sciences Center, Division of Pulmonary Sciences and Critical Care Medicine, April, 2007
- Inkley Lecturer and Visiting Professor, Case Western Reserve University, March, 2009
- Frumkin Lecturer, Norwalk Hospital, Norwalk CT, March, 2010
- Roland Ingram, Jr, MD, Memorial Lecturer, Pulmonary/Allergy/Critical Care Division, Emory University, October, 2010
- Tisdale Visiting Professor, University of Vermont School of Medicine, Medical Grand Rounds, September, 2011
- Distinguished Visiting Scientist, Department of Molecular and Cellular Physiology, Albany Medical Center, October 2016
- Robert M. Rogers Lectureship, University of Pittsburgh Pulmonary Allergy Critical Care Medicine, June 9, 2017

#### Teaching Awards:

- Dean's Teaching Excellence Award, 2001-02
- Dean's Teaching Excellence Award, 2002-03
- Dean's Teaching Excellence Award, 2003-04
- Dean's Teaching Excellence Award, 2005-06
- Dean's Teaching Excellence Award, 2006-07
- Certificate of Recognition for Exemplary Teaching, Alpert Medical School, 2009, 2010, 2011, 2012, 2013, 2014, 2015
- Beckwith Teaching Award, Department of Medicine, Warren Alpert Medical School, 2011

#### Mentoring Awards:

- Outstanding Mentor Award. Brown University/Women and Infants Hospital, Center of Excellence in Women's Health, February, 2006
- Elizabeth A. Rich, MD, Award, American Thoracic Society, "for outstanding mentoring and service to the ATS", May, 2010
- Dean's Award for the Advancement of Women Faculty, November, 2011
- BioMed Faculty Research Mentoring Award, 2021 (with Audra van Wart and Ulrike Mende)

#### Leadership Awards:

- Federal Employee of the Year, Professional Category, RI, 1999
- Federal Employee of the Year, Bud Gifford Leadership Award, awarded by the Federal Executive Council of RI, May, 2004
- Rhode Island Woman Physician of the Year, RI Medical Women's Association, May, 2010
- Leadership Award, Pulmonary Circulation Assembly, American Thoracic Society, May, 2011

#### LICENSURES

California, 1974  
 Massachusetts, 1979  
 Rhode Island, 1988

#### BOARD CERTIFICATIONS

Diplomate, American Board of Internal Medicine, 1975, # 52234  
 Diplomate, Subspecialty of Pulmonary Disease, 1978, # 52234  
 Diplomate, Special Qualifications in Critical Care Medicine, 1988-98, # 52234  
 Recertified, Special Qualifications in Critical Care Medicine, 1998-2008

#### ACADEMIC APPOINTMENTS

1979-86	Assistant Professor of Medicine, Boston University School of Medicine
1986-87	Associate Professor of Medicine, Boston University School of Medicine.
1987-94	Associate Professor of Medicine, Brown University School of Medicine
1994-	Professor of Medicine, Brown Medical School, Research Scholar Track Professor of Pathology and Laboratory Medicine
1998-1999	Interim Associate Dean (Faculty Affairs), Brown University School of Medicine (Sabbatical leave replacement)
2001-2006	Associate Dean of Medicine for BioMed Faculty, Brown Medical School

2017-22 Associate Dean for Clinical Affairs, Warren Alpert Medical School of Brown University  
 2022- Associate Dean for Translational Science, Warren Alpert Medical School of Brown University

### HOSPITAL APPOINTMENTS

1979-87 Staff Physician  
 Pulmonary Section  
 Evans Memorial Department of Medicine and Clinical Research,  
 University Hospital, Boston, Mass.

1982-87 Staff Physician  
 Pulmonary Section  
 Department of Medicine  
 Boston City Hospital, Boston, Mass.

1979-81 Medical Director, Medical Intensive Care Unit,  
 University Hospital, Boston, Mass.

1979-87 Medical Director, Respiratory Therapy,  
 University Hospital, Boston, Mass.

1983-87 Staff Physician, Tuberculosis Clinic,  
 Boston City Hospital, Boston, Mass.

1984-87 Consulting Staff  
 Mattapan Chronic Disease Hospital, Boston, Mass.

1985-87 Teaching Attending  
 Waltham-Weston Medical Center, Waltham, Mass.

1987-Present Staff Physician  
 Pulmonary/Critical Care  
 Providence VA Medical Center

1987-2010 Chief, Pulmonary/Critical Care Medicine  
 Providence VA Medical Center

2006-2015 Chief, Medical Service  
 Providence VA Medical Center

2015- Pulmonary/Critical Care Physician, Providence VA Medical Center

### OTHER APPOINTMENTS

#### National Institutes of Health

Clinical Coordinator for Boston University School of Medicine, NHLBI Primary Pulmonary Hypertension Patient Registry,  
 1982-87

Ad Hoc Reviewer: Pathology A Study Section, NHLBI, February, 1986

Member, Study Section, NHLBI Adult Respiratory Distress Syndrome, Specialized Center for Organized Research (SCOR)  
 Site Visits, 1988

Member, Respiratory and Applied Physiology Study Section, NHLBI, 1989-91

Member, Lung Biology and Pathology A Study Section, NHLBI, 1991-93

Member, Task Force on Research in Cardiopulmonary Dysfunction in Critical Care Medicine, NHLBI, 1992-94. Chair,  
 Subgroup on Basic Research

Member, NIH Reviewers Reserve, 1993-Present

Member, Working Group on Respiratory Diseases, Pulmonary Artery Catheterization and Clinical Outcomes Workshop,  
 NHLBI, 1997

Member, Biological and Physiological Sciences Special Emphasis Panel, July 8, 1998

Discussant, NHLBI and NCI workshop, "Fibrin Turnover in Lung Inflammation and Neoplasia", September 27-28, 1999

Member, Data Safety Monitoring Board of Scleroderma Lung Study, NHLBI, 1999-2005

Member, Acute Lung Injury SCOR Evaluation Panel, NHLBI, October, 2000

Ad hoc Reviewer, Lung Biology and Pathology A Study Section, NHLBI, February, 2001

Reviewer, Loan Repayment Program, NLHBI, 2002, 2003

Member, Pulmonary IRG Study Section Boundaries Team, NHLBI, October, 2002

Reviewer, Specialized Center for Clinical Research Grants, NHLBI, February, 2003

Member, Evaluation Panel on Specialized Centers for Clinically Oriented Research (SCCOR), NHLBI, October, 2003

Member, NHLBI Strategic Planning Working Group on Integrative Approaches to Pathogenetic Research, June, 2006

Member, Special Emphasis Panel on Training Grants (T32), NHLBI, November, 2006

Member, Special Emphasis Panel on T35 Training Grants, NHLBI, July, 2007

Member, Special Emphasis Panel on Sickle Cell Disease Grants, NHLBI, September, 2007

Member, Data Safety Monitoring Board of Pulmonary Fibrosis Network, NHLBI, 2005-2013

Member, NHLBI Institutional Training Mechanism Review Committee, 2007-2010

Member, Data Safety Monitoring Board of Specialized Centers for Clinically Oriented Research (SCCOR), NHLBI, 2007-2013

Ad hoc Member, Special Emphasis Panel for Program Project Grant, May 22, 2009

Ad hoc member, Special Emphasis Panel for Program Project Grant, October, 2009

Ad hoc member, Special Emphasis Panel for Program Project Grant, May, 2010

Chair, Special Emphasis Panel for T35 Short-term Research Grants, 2009; 2010; 2011; 2012; 2013

Executive Committee, NHLBI Task Force to develop a Strategic Plan for Lung Vascular Research, March, 2010

Co-Chair, Special Committee, Gender Issues and Barriers to Success, Division of Lung Diseases, NHLBI, 2010-11

Ad hoc member, Special Emphasis Panel for Program Project Grant, February 7, 2011

Chair, Special Emphasis Panel for T32 Training Grants, December, 2011

Ad hoc member, Respiratory Integrative Biology Technology (RIBT) Study Section, June, 2012

Member, Special Emphasis Panel, Mentoring Programs to Promote Diversity in Health Research, Study Section, October, 2012

Member, Special Emphasis Panel, NHLBI Lung OMICS K12 Career Development Program Review, April, 2013

Member, Respiratory Integrative Biology Translational (RIBT) Study Section, July 1, 2013-June, 2019

Chair, Observational Study Monitoring Board for the PVDomics study, 2015-present

Ad hoc member, Special Emphasis Panel, NCATS, CTSA review panel, April, 2016; June, 2017

Ad hoc member, K08 Study Section, NHLBI, November 7-8, 2019

Ad hoc member, R38 Study Section, NHLBI, August 21, 2019, August 21, 2020

Member, Observational Study Monitoring Board (OSMB) for the Lung Health Cohort (LHC) Study, NHLBI, October, 2019-

present

Ad hoc member, P20 COBRE phase 1 Study Section, NIGMS, July 16-17, 2020

Ad hoc member, Special Emphasis Panel, NCATS, CTSA review panel, January 29, 2021

Ad hoc member, Special Emphasis Panel, ZRG1 CVRS-A, July 14, 2021

Ad hoc member, Special Emphasis Panel, NCATS, CTSA review panel, January 25-26, 2022

Ad hoc member, SBIR ZMD1, SBIR/STTR) applications responsive to RFAs “Technologies/innovations for Improving Minority Health and Eliminating Health Disparities”, June 23-24, 2022

Ad hoc member, Stimulating Access during Residency (R38) program, NHLBI, July 20, 2022

Ad hoc member, ARDS, Pneumonia, Sepsis Phenotyping Consortium review (2023/01 ZHL1 CSR-Q (J1) 1), NHLBI/NIGMS, November 14-15, 2022

Session Chair and Presenter, NHLBI Workshop on Mitochondria in the Pathogenesis of Lung and Sleep Disorders December 1-2, 2022.

Chair, NCATS CTSA Training Grant Special Emphasis Panel, January 25, 2023.

Department of Veterans Affairs

Ad hoc reviews, VA Merit Review Grants, VA Regional Administrative Grant Support

Member, VA Research Career Development Review Committee, 1987-91.

Member, VA Cardiopulmonary Medical Research Advisory Group, 1997-00

Member, VA ICU Technical Advisory Group, 2003-05

Member, VA Chiefs of Medicine Field Advisory Committee, 2011-2015

American Thoracic Society

Member, Program Committee, Pulmonary Circulation Section, 1993-95

Chair, Long Range Strategic Planning Committee, Pulmonary Circulation Assembly, November, 1992-1995

Member, Committee for Position Paper on the Diagnosis and Treatment of Primary Pulmonary Hypertension, 1996-2000

Member, Subcommittee for Program Review, 1998-2001

Member, Committee on Pulmonary and Critical Care Fellowship Training, 1995-97;

Chair, 1998-00

Member, Research Fellowship Review Component Committee, American Lung Association, 1995-97

Member, Joint Workforce Coordinating Committee of Committee on Pulmonary and Critical Care Manpower (COMPACCS) for American Thoracic Society, 1999-2001

Chapter Representative, RI Thoracic Society, 2000-2001

Member, Taskforce for Clinicians, American Thoracic Society, 2000-2004

Chair, Program and Budget Committee, 2002-03

Member, Planning Committee, 2002-03

Member, Audit and Finance Committee, 2002-03

Nominee, Secretary-Treasurer, American Thoracic Society, 2000

Elected Secretary-Treasurer, American Thoracic Society, 2001-2002

Vice-President, American Thoracic Society, 2002-03

President-Elect, American Thoracic Society, 2003-04

President, American Thoracic Society, 2004-05

Immediate Past-President, American Thoracic Society, 2005-06

Chair, Membership Committee, American Thoracic Society, 2000-2001, 2005-2008.

Vice-Chair, Scientific Advisory Committee, 2007-2008.

Chair, Scientific Advisory Committee, 2008-2010

Elected member, Nominating Committee. 2006-07, 2007-08, 2008-09, 2009-2010, 2010-2011, 2013

Member, Awards Committee, 2011-2014

Vice-Chair, 2012-2014

Member, Board of Trustees, ATS Foundation, 2012-2018

Member, Search Committee for ATS Executive Director, 2017-2018

#### American Heart Association

Member, Great America Peer Review Committee, Lung and Cardioresnal, 1999-2001

#### Food and Drug Administration

Consultant, Anesthesiology and Respiratory Devices Panel of the Medical Devices Advisory committee, Center for Devices and Radiological Health, Food, and Drug Administration. October, 2009; March, 2014

#### Francis Family Foundation

Member, Scientific Advisory Board for Parker B. Francis Foundation Fellowships, 2000-2005

Ad hoc reviewer, Scientific Advisory Board for Parker B. Francis Foundation Fellowships, 2007

#### Liaison Committee on Medical Education (LCME)

Site Visit Team, Georgetown University School of Medicine, February 23-26, 2003

Site Visit Team, Michigan State University College of Human Medicine, October 15-19, 2006

#### Tobacco-Related Disease Research Program (TRDRP), University of California

Member, Pulmonary TRDRP Review Panel, 2007, 2008, 2009, 2011

#### Department of Defense

Member, review panel, Congressionally Directed Medical Research Programs, Peer Reviewed Medical Research Program, April, 2019

#### Rhode Island Foundation Medical Research Advisory Committee

Member, September, 2016-Present

#### National Association of IDeA Principal Investigators (NAIPI) National Committee

Elected Northeastern COBRE representative, January 2020-December, 2023

#### Vermont Center on Cardiovascular and Brain Health COBRE

External Advisory Committee, 2020-present

#### Florida Department of Health

Member, Research Committee, 2021

#### University of Colorado

Member, External Advisory Committee,

T32 Pulmonary/Critical Care Training Grant, 2023-Present

Johns Hopkins University School of Medicine

Member, External Advisory Committee

T32 Multidisciplinary Training Program in Pulmonary Disease

2021-Present

Editorial Boards

Am J Physiology: Lung Molecular and Cell Physiology, 2003-05

Am J Respiratory and Critical Care Medicine, 2005-08

Pulmonary Circulation, 2010-Present

Associate Editor

Physiological Reports, 2017-Present

Book Series Editor

Editor-in Chief, Respiratory Series, Springer Press, 2005-Present

Journal Reviewer

Chest, American Review of Respiratory Disease, J Cell Physiology, Am J Respiratory Cell and Molecular Biology, Am J Resp Crit Care Med, Laboratory Investigation, J Leukocyte Biology, Am J Pathology, Am J Physiology, J Clinical Investigation; Molecular and Cellular Biochemistry, Molecular Biology of the Cell, J Biological Chemistry, Biochemical Journal, Lung, FASEB J, Microvascular Research, J Cell Science, J Radiation Research, PLOS One, Blood, Angiogenesis, Physiological Reviews

OTHER PROFESSIONAL SERVICES

Cecile Lehman Mayer Research Award Committee, American College of Chest Physicians, 1985-1987

Research Allocations Committee, Massachusetts Thoracic Society, 1986

Member, Board of Directors, The Rhode Island Lung Association, 1989-1993

External Advisory Committee, Pulmonary/Critical Care Training Grant, Northwestern University School of Medicine

HOSPITAL COMMITTEES AND SERVICE

UCSF

Internship Selection Committee, Department of Medicine, San Francisco General Hospital, 1976

Boston University School of Medicine

Internship Selection Committee, Department of Medicine, University Hospital, 1981

Intensive Care Unit Committee, University Hospital, 1979-81

Patient Order Entry and Communication System Implementation Committee, University Hospital, 1985-86

Admission, Discharge, Transfer/Order Entry Working Group, University Hospital, 1986-87

Human Studies Committee, Mallory Institute of Pathology, Boston City Hospital, 1984-87

Providence VA Medical Center

Providence VAMC Research Committee, 1987-2001

Providence VAMC Ethics Committee, 1989-Present

Pulmonary Division NHLBI Training Grant Steering Committee, Brown University, 1988-94

Providence VAMC Operative and Invasive Procedures Committee, 1990-2001

Chairman, Providence VAMC Respiratory Therapy Quality Assurance Committee, 1987-99

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Member, Radiation Safety Committee, PVAMC, 1992

Organizer, VA Medical Service Grand Rounds, 1992-94

Member, Search Committee, Providence VAMC Chief of Staff, 1993-94

Member, Search Committee for Chief of Surgery, Providence VA Medical Center, 1997-98

Chair, Providence VAMC Special Care Unit Committee, 1997-2001

Certified Instructor, Advanced Cardiac Life Support, 1999-2001

Member, Search Committee, Chief of Staff, Providence VAMC, 2003-04; 2007

Co-Chair, Patient Flow Committee, 2006-2008

Member, Search Committee, Chief of Mental Health, Providence VAMC, 2014-15

Chair, Search Committee, Chief of Pathology, Providence VAMC, 2017-18

Member, Board of Directors, Ocean State Research Institute, PVAMC, 2008-Present

#### BROWN DEPARTMENT OF MEDICINE COMMITTEES

Organizer, Brown University Pulmonary Research Conferences, 1987-91

Promotions Committee, Department of Medicine, 1988-95, 1999-2001, 2006-Present

Department of Medicine Meeting Agenda Committee, 1993-96

Research Committee, Department of Medicine, 1998-03

Brown Medicine, Board of Directors, 2015-Present

Brown Physicians Inc, Academic Awards Committee, 2018-Present

#### BROWN UNIVERSITY COMMITTEES

Medical Committee on Academic Standing, 1988-93

Program in Liberal Medical Education Advisory Selection Board, 1988-89

Summer Research Assistantship Committee (Biomedical Sciences), 1994-96

Elected Member, Committee on Medical Faculty Appointments, 1994-97

Member, Institutional Task Force for Accreditation Review of Brown University School of Medicine, 1996

Elected Member, Medical Faculty Executive Committee, 1999-2001

Chair, Faculty Subcommittee, LCME Accreditation Self-Study, 2003-04

Reviewer, Lifespan Developmental Grant Program, 2004

Member, Teaching Excellence Task Force, Brown Medical School, 2006-2008

Elected Member, Medical Faculty Executive Committee, 2009-2013

Member, Ad Hoc Committee on Faculty Policies, 2010-2014

Chair, Training Subcommittee, CTSA Planning Committee, November, 2013-2014



Member, Inter-institutional Committee on Research, January, 2014-Present

Member, Health Affairs Coordinating Committee, 2017-Present

Co-Chair, Administration Subcommittee, LCME Accreditation Self-Study, 2019-2021

Executive Committee, Robert D. and Nancy J. Carney Institute for Brain Science at Brown University, 2017-Present

Internal Advisory Committee, Alpert Medical School Summer Research Program T35 HL094308, 2016-present

Internal Advisory Committee, Center for Alcohol and Addiction Research (COBRE), 2020-present

Internal Advisory Committee, Center for Neuromodulation (COBRE), 2020-present

Local Guidance Group, E.P. Bradley Hospital COBRE Center for Sleep and Circadian Rhythms in Child and Adolescent Mental Health, 2021-present

Internal Advisory Committee, Center for Opioids and Overdose (COBRE), 2021-present

#### BROWN UNIVERSITY SEARCH COMMITTEES

Member, Search Committee for Chair of Pathology, Brown University School of Medicine, 1994-95

Member, Search Committee for Intensivist, Memorial Hospital Hospital of Rhode Island, 1997-98

Chair, Search Committee for Pulmonologist, Providence VA Medical Center, 1997-98

Chair, Search Committee for Assistant Professor (Research), Providence VA Medical Center, 1998-99

Member, Search Committee for Gastroenterologist, Providence VA Medical Center, 1998-99

Member, Search Committee for Chief of Pathology, Women and Infants Hospital, 1998-99.

Member, Search Committee for Critical Care Physician, The Rhode Island Hospital, 1999

Member, Search Committee for Chief of Cardiology, The Rhode Island Hospital, 1999

Member, Search Committee for the Director of the Leadership Alliance, Brown University, 2002

Member, Search Committee for the Director of Pulmonary/Critical Care/Sleep Medicine, Brown, 2008-2009

Member, Search Committee for the Chair of Neurology, Brown, 2010-11

Member, Search Committee for a Pulmonary Vascular Medicine Specialist, 2011

Member, Search Committee for Chief of Psychiatry, Providence VAMC, 2010-2012

Chair, Search Committee for Brown Chair of Psychiatry and Behavioral Sciences, 2011-12

Member, Search Committee for the President of Brown University, 2011-2012

Member, Search Committee for the Chief of Cardiology, Brown Medical School, 2012

Chair, Search Committee for Associate Chief of Medical Service, PVAMC, Brown Medical School, 2012-13

Member, Search Committee for the Dean of the Medical School, 2013

Member, Search Committee for Chief of Medicine, Women and Infants Hospital, December, 2013-2015

Member, Search Committee for Chairman of Orthopaedics, Alpert Medical School of Brown University, 2015-16

Member, Search Committee for Executive Dean for Administration, Alpert Medical School of Brown University, 2015-2016

Member, Search Committee for Chair, Emergency Medicine, Warren Alpert Medical School of Brown University, 2017-18

Member, Search Committee for Alzheimer's, Neurodegenerative Disease, Warren Alpert Medical School of Brown University, 2018

Member, Search Committee for Cancer Biology Research, Warren Alpert Medical School of Brown University, 2019-2022

Chair, Search Committee for Director of Cardiovascular Research, Warren Alpert Medical School of Brown University, 2019-20

Member, Search Committee for Vice President for Research, Lifespan, 2019-20

Member, Search Committee for Migraine Chair, Warren Alpert Medical School of Brown University, 2019-2021

Member, Search Committee for Chair in Predictive Biology, Warren Alpert Medical School of Brown University, 2019-20

Member, Search Committee for Chief of Pediatrics, Care New England, 2020-21

Member, Search Committee for Chair of Family Medicine, Warren Alpert Medical School of Brown University, 2021-22

Chair, Search Committee for Research Biologist, CardioPulmonary Vascular Biology Center for Biomedical Research Excellence, 2021-21

Member, Search Committee for Chair of Psychiatry and Human Behavior, Warren Alpert Medical School of Brown University, 2022-

Member, Search Committee for Chief of Cardiothoracic Surgery, Warren Alpert Medical School of Brown University, 2022-

Member, Search Committee for Chief of Pathology Service, VA Providence Health Care System, 2023-

#### PROFESSIONAL SOCIETIES

American Clinical and Climatological Association  
 Fellow, American Thoracic Society  
 Rhode Island Thoracic Society  
 American Physiological Society  
 Fellow, American Heart Association  
 Fellow, American Association for the Advancement of Science  
 Fellow, American College of Chest Physicians  
 Fellow, Pulmonary Vascular Research Institute  
 Member, American College of Physicians

#### PUBLICATIONS IN PEER-REVIEWED JOURNALS \* indicates trainee or technician at the time of the study

1. **Rounds, S. I. S.**, McMurtry, I.F., Moore, L.G., Voelkel, N.F. and J. T. Reeves. Cardiac output is decreased and pulmonary vasoconstriction is intact in chronically hypoxic sheep. *Proc. Soc. Exp. Biol. Med.* 165:1-5, 1980.

2. **Rounds, S.**, McMurtry, I. F., and J. T. Reeves. Glucose metabolism accelerates the decline of hypoxic vasoconstriction in rat lungs. *Respiration Physiology* 44:239-249, 1981.

3. **Rounds, S.**, and I.F. McMurtry. Inhibitors of oxidative ATP production cause transient vasoconstriction and block subsequent pressor responses in rat lungs. *Circulation Research* 48:393-400, 1981.

4. Moore, L.G., Jahnigen, D., **Rounds, S.S.**, Reeves, J.T., and R.F. Grover. Maternal hyperventilation helps preserve arterial oxygenation during high altitude pregnancy. *J. Appl. Physiol.* 52: 690-694, 1982.

5. Moore, L.G., **Rounds, S.S.**, Jahnigen, D., Grover, R.F., and J.T. Reeves. Infant birth weight is related to maternal arterial oxygenation at high altitude. *J. Appl. Physiol.* 52:695-699, 1982.
6. \*Fuchs, K.I., Moore, L.G., and **S. Rounds**. Pulmonary vascular reactivity is blunted in pregnant rats. *J. Appl. Physiol.* 53:703-707, 1982.
7. McMurtry, I.F., **Rounds, S.**, and H.S. Stanbrook. Studies of the mechanism of hypoxic pulmonary vasoconstriction. *Advances in Shock Research* 8:21-33, 1982.
8. **Rounds, S.**, \*Hill, N.S., and \*R.F. O'Brien. Pulmonary vascular reactivity after acute lung injury. In: *Hypoxia, Exercise, and Altitude: Proceedings of the Third International Banff Hypoxia Symposium*. Ed. by J.R. Sutton, C.S. Houston, and N.L. Jones. *Progress in Clin. and Biol. Res.* 136: 133-140, 1983.
9. \*Hill, N.S., and **S. Rounds**. Amrinone blunts pulmonary vascular reactivity in isolated rat lungs. *Proc. Soc. Exp. Biol. Med.* 173:205-212, 1983.
10. \*Hill, N.S., and **S. Rounds**. Vascular reactivity is increased in rat lungs injured with alpha-naphthylthiourea. *J. Appl. Physiol.* 54:1693-1701, 1983.
11. **Rounds, S.**, and \*N.S. Hill. Pulmonary hypertensive diseases. *Chest* 85: 397-405, 1984.
12. **Rounds, S.**, and J.S. Brody. Putting PEEP in perspective. Editorial. *New Engl. J. Med.* 311:323-325, 1984
13. \*O'Brien, \*R.F. Seton, M., Makarski, J., Center, D., and **S. Rounds**. Endothelial cells treated with thiourea release a chemoattractant for neutrophils. *Am. Rev. Respir. Dis.* 130:103-109, 1984.
14. Brody, J.S., Vaccaro, C.A., \*Hill, N.S., and **S. Rounds**. Binding of charged ferritin to alveolar wall components and charge selectivity of macromolecular transport in permeability pulmonary edema in rats. *Circulation Res.* 55:155-167, 1984.
15. \*Hill, N.S., \*O'Brien, R.F., and **S. Rounds**. Repeated lung injury due to alpha-naphthylthiourea causes right ventricular hypertrophy in rats. *J. Appl. Physiol.* 56:388-396, 1984.
16. \*O'Brien, R.F., Makarski, J., and **S. Rounds**. The effect of alpha-naphthylthiourea lung injury on angiotensin I clearance. *Exp. Lung Res.* 8:243-254, 1985.
17. \*Farber, H.W., Center, D.M., and **S. Rounds**. Bovine and human endothelial cell production of neutrophil chemoattractant activity in response to components of the angiotensin system. *Circulation Res.* 57:898-902, 1985.
18. **Rounds, S.**, \*Hill, N.S., \*O'Brien, R.F., and \*H.W. Farber: Effects of endothelial cell injury on pulmonary vascular reactivity. *Chest*, 88S:213S-216S, 1985.
19. \*Farber, H.W., Weller, P.F., **Rounds, S.**, Beer, D.J. and D.M. Center: Generation of lipid neutrophil chemoattractant activity by histamine-stimulated cultured endothelial cells. *J. Immunology.* 137:2918-2924, 1986.
20. **Rounds, S.**, and Vaccaro, C.A.: The binding of cationic probes to apical and basal surfaces of rat lung capillary endothelium and of endothelial cells in tissue culture. *Am. Rev. Respir. Dis.* 135:725-703, 1987.
21. \*Corral, R., \*Hinshaw, J.E., Bennet Clark, S., and **S. Rounds**. Chylomicron metabolism by normal and injured isolated rat lungs. *Exp. Lung Research*, 13:45-58, 1987.
22. \*Farber, H.W., Center, D.M., and **S. Rounds**. Effect of ambient oxygen on cultured endothelial cells from different vascular beds. *Am. J. Physiol.*, 253:H878-H883, 1987.
23. \*Render, M.L., and **S. Rounds**. Studies on the mechanism of decreased polymorphonuclear neutrophil adherence to post-confluent cultured endothelial cells. *Am. Rev. Respir. Dis.*, 138:1115-1123, 1988.
24. **Rounds, S.**, Farber, H.W., \*Render, M.L., and \*F.A. Barnard. Effects of hypoxia and hypercarbia on cultured endothelial cells. *Chest*: 93: 156S-157S, 1988.

25. Cutaia, M.V., and **S. Rounds**. Hypoxic pulmonary vasoconstriction--physiology and pathophysiology. *J. Intensive Care*, 4:215-220, 1989.
26. \*Farber, H.W., Fairman, R.P., Millen, J.E., **Rounds, S.**, and F.L. Glauser. Pulmonary response to foreign body microemboli in dogs: Release of neutrophil chemoattractant activity by vascular endothelial cells. *Am. J. Respiratory Cell and Molecular Biology*.1:27-35, 1989.
27. \*Farber, H.W., Fairman, R.P., **Rounds, S.**, Millen, J.E. and F.L. Glauser. Pulmonary hypertensive response to foreign body microemboli. *Prostaglandins, Leukotrienes, and Essential Fatty Acids*, 39:151-157, 1990.
28. \*Farber, H.W., and **S. Rounds**. Effect of long-term hypoxia on cultured aortic and pulmonary arterial endothelial cells. *Experimental Cell Research*, 191:27-36, 1990.
29. \*Eveloff, S.E., **Rounds, S.**, and S.S. Braman. Unilateral lung hyperinflation and herniation as a manifestation of intrinsic PEEP. *Chest*, 98:228-119, 1990.
31. \*Farber, H.W., Center, D.M., **Rounds, S.**, and S.M. Danilov. Components of the angiotensin system cause release of a neutrophil chemoattractant from cultured bovine and human endothelial cells. *Eur. Heart J.* 11:100-107, 1990.
32. Cutaia, M.V., and **S. Rounds**. Hypoxic pulmonary vasoconstriction: Physiological significance, mechanism, and clinical relevance. *Chest*, 97:706-718, 1990.
33. \*Villaneuva, A.G., \*Farber, H.W., **Rounds, S.**, and R.H. Goldstein. The stimulation of fibroblast collagen formation by an endothelial cell-derived factor. *Circulation Research* 69:134-141, 1991.
34. \*Charles, A., **Rounds, S.**, and H.W. Farber. Neutrophil chemoattractant production by cultured serotonin-stimulated bovine and human endothelial cells. *Am. J. Physiol: Lung Cellular and Molecular Physiology*, 5:L133-L139, 1991.
35. Braman, S., \*E. Eby, Kuhn, C., and **S. Rounds**. Primary pulmonary hypertension in the elderly. *Archives of Internal Medicine*. 151:2433-2438, 1991.
36. Karlinsky, J.B., **Rounds, S.** and H.W. Farber. Effects of hypoxia on heparan sulfate in bovine aortic and pulmonary artery endothelial cells. *Circulation Res.* 71:782-789, 1992.
37. Cutaia, M., \*Bullard, S.R., \*Rudio, K., and **S. Rounds**. Characteristics of amphotericin B- induced endothelial cell injury. *J. Lab Clin Med*, 121:244-256, 1993.
38. \*Bonitati, A., Agarwal, K.C., and **S. Rounds**. A simple assay for ecto-5'-nucleotidase using intact pulmonary artery endothelial cells: Effect of endotoxin-induced injury. *Biochemical Pharmacology*, 46:1467-1473, 1993.
39. \*Meharg, J.V., \*McGowan-Jordan, J., \*Charles, A.C., Parmelee, J.T., Cutaia, M.V., and **S. Rounds**. Hydrogen peroxide stimulates sodium-potassium pump activity in cultured pulmonary arterial endothelial cells. *Am J Physiol: Lung Cellular and Molecular Physiology*. 265:L613-L621, 1993.
40. **Rounds, S.**, \*L. Hsieh, and K.C. Agarwal. Effects of endotoxin injury on endothelial cell adenosine metabolism. *J Lab Clin Med*. 123:3309-317, 1993.
41. Agarwal, K.C., \*Clarke, E., **Rounds, S.**, Parks, R.E, and H-Akbar. Platelet-activating factor (PAF)-induced platelet aggregation: Modulation by plasma adenosine and methylxanthines. *Biochem. Pharmacol.*, 48:1909-1916, 1994.
42. Dawicki, DD, \*McGowan-Jordan, J, \*Bullard, S, \*Pond, S, and **S. Rounds**. Extracellular nucleotides stimulate leukocyte adherence to cultured pulmonary artery endothelial cells. *Am J Physiol: Lung Cellular and Molecular Physiol*, 12: L666-L673, 1995.
43. \*Parker, AL, \*Likar, LL, Dawicki, DD, and **S. Rounds**. Mechanism of ATP-induced leukocyte adherence to cultured pulmonary artery endothelial cells. *American J Physiol: Lung Cellular and Molecular Physiol*. 14:L695-L703, 1996.

44. Cutaia, M, \*Davis, R, \*Parks, N, and **S Rounds**. The effect of ATP-induced permeabilization on loading of the Na<sup>+</sup> probe, SBFI, into endothelial cells. *J Applied Physiol.* 81:509-515, 1996.
45. Francheschi, C, Abbracchio, MP, Barbieri, D, Ceruti, S, Ferrari, D, Iliou, JP, **Rounds, S**, Schubert, P, Schulzelohoff, E, Rassendren, FA, Staub, M, Volonte, C, Wakade, AR, Burnstocck, G. Purines and cell death. *Drug Development Research.* 39:442-449, 1996.
46. \*Parker, AL, \*Clarke, EM, and **S. Rounds**. Hemoptysis in Sarcoidosis: A Case Report. *Medicine and Health/Rhode Island.* 79:328-330, 1996.
47. Crandall, ED, Albert R, Balmes, JR, Bass, J, Koerner, SK, Morgan, E, Redding GJ, Rizk, N, Rogers, R, **Rounds, S**, Turino, GM, Wagener, JS, Wiener, CM, Young, KR. The role of the pediatric pulmonary physician in the American health care system. *Am J Resp Crit Care Med.* 155:1486-1488, 1997.
48. \*Charles, A, Dawicki, DD, Oldmixon, E, Kuhn, C, Cutaia, M, and **S Rounds**. Studies on the mechanism of short-term regulation of pulmonary arterial endothelial cell Na/K pump activity. *J Lab Clin Med,* 130:157-168, 1997.
49. Dawicki, D.D., Chatterjee, D., Wyche, J., and **S. Rounds**. ATP and adenosine cause apoptosis of pulmonary artery endothelial cells. *Am J Physiol. Lung Cell. Mol. Physiol.* 273:L485-L494, 1997.
50. \*Likar, L., Panciera, T., Erickson, A., and **S. Rounds**. Group education sessions and compliance with nasal CPAP therapy. *Chest,* 111:1273-1277, 1997.
51. Cutaia, M, Dawicki, DD, \*Papazian, LM, \*Parks, N, \*Clarke, E, and **S Rounds**. Differences in nucleotide effects on intracellular pH, Na<sup>+</sup>/H<sup>+</sup> anti-port activity and ATP-binding proteins in endothelial cells. *In Vitro Dev Biol Anim.* 33:608-614, 1997.
52. **Rounds, S**, \*Piggott, D, Dawicki, DD, and HW Farber. Effect of hypercarbia on surface proteins of cultured bovine endothelial cells. *Am J Physiol.,* 273 (Lung Cell. Mol. Physiol. 17):L1141-L1146, 1997.
53. **Rounds, S**, \*Yee WL, Dawicki, D, Parks, N, and M Cutaia. Mechanism of extracellular ATP and adenosine-induced apoptosis of cultured endothelial cells. *Am J Physiol.* 275 (Lung Cell. Mol., Physiol. 19):L379-L388, 1998.
54. \*Muster, AR, **Rounds, S**, and M Cutaia. Autobullectomy: Spontaneous improvement in pulmonary function and symptoms in a patient with bullous emphysema. *Medicine and Health/Rhode Island.* 81:297-299, 1998.
55. Cutaia, MV, \*Parks, N, Centracchio, J, **Rounds, S**, Yip, KP, and AM Sun. Effect of hypoxic exposure on Na<sup>+</sup>/H<sup>+</sup> antiport activity, isoform expression, and localization in endothelial cells. *Am J Physiol.* 275 (Lung Cell. Mol. Physiol. 19):L442-L451, 1998.
56. **Rounds, S**, Cutaia, M, \*Charles, A, \*Meharg, J, Dawicki, D, Oldmixon, E, and C Kuhn. Oxidant stress stimulates Na/K pump activity in bovine pulmonary arterial endothelial cells. *Chest.* 114:22S-24S, 1998.
57. **Rounds, S**, Primary Pulmonary Hypertension--Update on an Emerging Worry. *Consultant,* 38:797-819, 1998.
58. Cutaia, M, Parks, N, **Rounds S.I.S.**, and K.P Yip. Remodeling of the Na/H antiport and the cytoskeleton of human pulmonary artery endothelial cells. Response to an oxygen deficit. *Chest.* 114:35S, 1998.
59. **Rounds, S**, \*Likar, L, Harrington, EO, Kim, KC, \*Smeglin, A, \*Heins, K, and \*N Parks. Nucleotide-induced adhesion of PMN to cultured tracheobronchial epithelial cells: Possible role of MUC1 in modulating PMN adhesion. *American Journal of Physiology,* 277:L874-L880, 1999.
60. \*Mylonakis, E, Vittorio, CC, \*Hollik, D, and **S Rounds**. Lamotrigine toxicity presenting as anticonvulsant hypersensitivity syndrome. *Annals of Pharmacotherapy,* 33:557-559, 1999.
61. Cutaia, M., Tollefson, K., Kroczyński, J., \*Parks, N., **Rounds, S**. The role of the Na/H antiport in the pH-dependent loss of viability in human pulmonary artery endothelial cells following metabolic inhibition. *Am J Physiol, Lung Cell. Mol Physiol.* 278:L536-L544, 2000.

62. Harrington, EO, \*Smeglin, A, \*Parks, N, and **S. Rounds**. Adenosine induces endothelial cell apoptosis by activating protein tyrosine phosphatase: a possible role of p38 $\alpha$ . *Am J Physiol. Lung Cell and Molec Physiol.* 279:L733-L742, 2000.
63. O'Brien, A, and **S Rounds**. Pulmonary Hypertension Update. *Comprehensive Therapy*, 26:190-196, 2000.
64. \*Koutkia, P, \*Mylonakis, E, **Rounds, S**, and A Erickson. Cutaneous leukocytoclastic vasculitis associated with oxacillin. *Diagnostic Microbiology and Infectious Disease*, 39:191-194, 2001.
65. \*Russo-Magno, P, O'Brien, AS, Panciera, T, and **S. Rounds**. Compliance with CPAP Therapy for Obstructive Sleep Apnea in the Elderly Males. *Journal of the American Geriatrics Society*, 49:1205-11, 2001.
66. \*Russo-Magno, P, \*Karki, A, O'Brien, A, \*Hiranniramol, S, Hardin, M, Kaszuba, M, and **S. Rounds**. Effects of withdrawal of inhaled corticosteroids in patients with irreversible airflow obstruction. *American J Respiratory and Critical Care Medicine*, 164:365-71, 2001.
67. Harrington, EO, \*Smeglin, A, \*Newton, J, \*Ballard, G, and **S Rounds**. Adenosine/homocysteine-induced disruption of endothelial cell focal adhesion contacts requires protein tyrosine phosphatase and caspase activity. *Am J Physiol. Lung Cell and Molec Physiol.* 280:L342-L353, 2001.
68. \*Koutkia, P, \*Mylonakis, E, **Rounds, S**, and A Erickson. Leukocytoclastic vasculitis: an update for the clinician. *Scandinavian J Rheumatology.* 30:315-22, 2001.
69. Poppas, A, and **S Rounds**. Congestive heart failure. *Am J Resp Crit Care Med.* 165:4-8, 2002.
70. Bellas, R, Harrington, EO, \*Sheahan, KL, \*Newton, J, and **S Rounds**. Over-expression of focal adhesion kinase protects against adenosine/homocysteine-induced apoptosis. *Am J Physiol. Lung Cell Molec Physiol.* 282:L1135-L1142, 2002.
71. \*Kramer K, Harrington EO, Bellas R, \*Newton J, \*Sheahan KL, and **S. Rounds**. Isoprenylcysteine carboxyl methyltransferase activity modulates endothelial cell apoptosis. *Molecular Biology of the Cell*, 14:848-857, 2003.
72. Harrington, EO, \*Brunelle, JL, \*Shannon, CJ, Kim, ES, Mennella, K, and **S. Rounds**. Role of PKC isoforms in rat epididymal microvascular endothelial barrier function. *Am J Respir Cell Mol Biol*, 28:626-636, 2003.
73. \*Lu Q, Harrington EO, Hai C-M, \*Newton J, \*Garber M, **Rounds S**. Isoprenylcysteine carboxyl methyltransferase (ICMT) modulates endothelial monolayer permeability: involvement of RhoA carboxyl methylation. *Circulation Research*.94:306-315, 2004.
74. Harrington, EO, \*Newton, J, \*Morin, N, and **Rounds, S**. Barrier dysfunction and RhoA activation are blunted by homocysteine and adenosine in pulmonary endothelium. *Am J Physiol:Lung Molecular Cellular Physiology.* 287:L1091-L1097, 2004.
75. Lu, Q, Harrington, EO, **Rounds, S**. Apoptosis in Acute Lung Injury. *Keio J Medicine*, 54:184-9, 2005.
76. **Rounds S**, Harrington EO and \*Lu Q. Carboxyl methylation of small GTPases and endothelial cell function. In *Cell Signaling in Vascular Inflammation*. Ed by J. Bhattacharya, Human Press, Totowa, New Jersey, 2005.
77. **Rounds, SIS**, and Angus, DM. Letter to the Editor. *Annals of Internal Medicine.* 142: 473-474, 2005.
78. \*Martin, K, and **Rounds, S**. Pulmonary Hypertension. *New Insights and new hopes. Respiriology*, 11:6-17, 2006.
79. \*Lu, Q, Harrington, EO, Jackson, H, \*Morin, N, \*Shannon, C, and **Rounds. S**. Transforming Growth Factor- $\beta_1$ -induced barrier dysfunction involves Smad-dependent p38 activation and subsequent RhoA activation. *Journal of Applied Physiology.* 101:375-384, 2006.
80. Harrington\*, EO, \*Stefenac\*, T, \*Newton, J, **Rounds, S**. Release of soluble E-selectin from activated endothelial cells upon apoptosis. *Lung.* 184:259-266, 2006.

81. Lu, Q, Harrington, EO, \*Newton, J, \*Jankowich, M, and **S. Rounds**. Inhibition of ICMT induces endothelial cell apoptosis through GRP94. *Am J Resp Cell Mol Biol.* 37:20-30, 2007. *An illustration from this paper was Cover Image for the journal.*
82. \*Jankowich, MD, \*Polsky, M, Klein, M, **Rounds, S**. Heterogeneity in combined pulmonary fibrosis and emphysema. *Respiration.* 75:411-7, 2008.
83. Almenoff, P, Sales, A, **Rounds, S**, Miller, M, Schroeder, K, Lentz, K, and Perlin, J. Intensive Care Services in the Veterans Health Administration. *Chest.* 132:1455-1462, 2007.
84. \*Martin, K, Stanchina, M, Harrington, EO, Koutaub, N, **Rounds, S**. Circulating Endothelial Cells and Endothelial Progenitor Cells in Obstructive Sleep Apnea. *Lung.*186:145-50, 2008.
85. **Rounds, S**. By invitation, Lu, Q, Harrington, EO, Newton, J, Casserly, B. Pulmonary endothelial cell signaling and function. *Transactions of the American Clinical and Climatological Association.* 119:155-169, 2008.
86. Lu, Q, \*Patel, B, Harrington, EO, and **Rounds, S**. Transforming Growth Factor- $\beta$ 1 Causes Pulmonary Microvascular Endothelial Cell Apoptosis via ALK5. *Am J Physiol:Lung Cell Molec Physiol.* 296:L825-L838, 2009. PMID:PMC2681346
87. Lu, Q, Harrington EO, \*Newton, J, \*Casserly, B, \*Radin, G, Warburton,R, \*Zhou, Y, Blackburn MR, and **Rounds, S**. Adenosine protected against pulmonary edema through transporter- and receptor2-mediated endothelial barrier enhancement. *Am J Physiol:Lung Cell Molec Physiol*, 298:L755-767, 2010. PMID:PMC2886613
89. Lu, Q\*, Jankowich, MD\*, Newton, J, Harrington, EO, and **S. Rounds**. Alterations in molecular chaperones and eIF2a during lung endothelial cell apoptosis. *Am J Physiol:Lung Cell Molec Physiol.* 298:501-508, 2010. \*shared first authorship PMID:PMC2853340
90. Erzurum S, **Rounds SI**, Stevens T, Aldred M, Aliotta J, Archer SL, Asosingh K, Balaban R, Bauer N, Bhattacharya J, Bogaard H, Choudhary G, Dorn GW 2nd, Dweik R, Fagan K, Fallon M, Finkel T, Geraci M, Gladwin MT, Hassoun PM, Humbert M, Kaminski N, Kawut SM, Loscalzo J, McDonald D, McMurtry IF, Newman J, Nicolls M, Rabinovitch M, Shizuru J, Oka M, Polgar P, Rodman D, Schumacker P, Stenmark K, Tuder R, Voelkel N, Sullivan E, Weinshilboum R, Yoder MC, Zhao Y, Gail D, Moore TM. Strategic plan for lung vascular research: An NHLBI-ORDR Workshop Report. *Am J Respir Crit Care Med.* 2010 Dec 15;182(12):1554-62. PMID:PMC3029941
91. \*Jankowich MD and **Rounds S**. Combined pulmonary fibrosis and emphysema alters physiology but has similar mortality to pulmonary fibrosis without emphysema. *Lung.* 2010 Oct;188(5):365-73. PMID:PMC2939964
93. Yoder M, and **Rounds S**. Bad blood, bad endothelium: Ill fate? *Blood.* 117:3479-3480, 2011. PMID:21454463
94. \*Casserly B, \*Mazer JM, \*Vang A, Harrington EO, Klinger JR, **Rounds S**, and Choudhary G. C-type natriuretic peptide does not attenuate the development of pulmonary hypertension caused by hypoxia and VEGF receptor blockade. *Life Science*, 89:460-466, 2011. PMID:PMC3533228
95. Lu Q, \*Sakhatsky P, \*Grinnell K, \*Newton J, \*Ortiz M, Sanchez-Esteban J, Harrington EO, **Rounds S**. Cigarette Smoke Causes Endothelial Barrier Dysfunction via Oxidative Stress-Mediated Inhibition of RhoA and Focal Adhesion Kinase. *Am J Physiol: Lung Molecular Cellular Physiology*, 301:L847-L857, 2011. PMID: PMC3233834
96. Lu, Q, and **Rounds S**. Focal adhesion kinase and lung endothelial apoptosis. *Microvascular Research.* 83: 56-63, 2012. PMID: 21624380 PMID: PMC3189508
97. \*Grinnell K, \*Duong H, Newton J, **Rounds S**, Choudhary G, and EO Harrington. Heterogeneity in Apoptotic Responses of Microvascular Endothelial Cells to Oxidative Stress. *J Cellular Physiology.* 227:1899-910, 2012. PMID:PMC3533229
98. Jankowich MD and **Rounds S**. Syndrome of combined pulmonary fibrosis and emphysema. *Chest.* 141:222-231, 2012. PMID:PMC3251269

99. \*Chichger H, \*Grinnell KL, Casserly B, Chung CS, \*Braza J, Lomas-Neira J, Ayala A, **Rounds S**, Klinger JR, Harrington EO. Genetic Disruption of Protein Kinase C $\delta$  (PKC $\delta$ ) Reduces Endotoxin-Induced Lung Injury. *Am J Physiol Lung Cell Mol Physiol*. 303:L880-8, 2012. PMID:PMC3517673
100. Lu Q, \*Newton J, \*Shamirian P, \*Hsiao V, \*Curren S, \*Sakhatsky, P, Blackburn MR, and **Rounds S**. Sustained Adenosine Exposure Causes Lung Endothelial Apoptosis via Nucleoside Transporter-Facilitated Intracellular Adenosine Uptake and Mitochondrial Dysfunction. *Am J Physiol. Lung Cell Mol Physiol*, 304:L361-70, 2013. PMID:PMC3602741
101. Aliotta, JM, Pereira, M, Amaral, A, Sorokina, A, Igbino, Z, Hasslinger, A, \*El-Bizri, R, **Rounds, SI**, Quesenberry, PJ, Klinger, JR. Induction of Pulmonary Hypertensive Changes by Extracellular Vesicles from Monocrotaline-Treated Mice. *Cardiovascular Research*. 100:354-362, 2013. PMID:PMC3826701
102. Maron, BA., Goldstein, RH, **Rounds, SI**, Shapiro, S, Jankowich, M, Garshick, E, Moy, ML, Gagnon, D, Choudhary, G. Study design and rationale for investigating phosphodiesterase type-V inhibition for the treatment of pulmonary hypertension due to chronic obstructive lung disease: TADAlafil for Pulmonary Hypertension associated with chronic obstructive Lung Disease (TADA-PHiLD) Trial. *Pulmonary Circulation*, 3:889-897, 2013. PMID:PMC4070834
103. Dweik RA, **Rounds S**, Erzurum SC, et al. An official American Thoracic Society statement: Pulmonary hypertension phenotypes. *Am J Resp Crit Care Med*. 189:345-355, 2014. PMID: 24484330 PMID: PMC4291177
104. \*Sakhatsky P, \*Miranda GAG, Newton J, Choudhary G, Vang A, **Rounds S**, and Lu, Q. Cigarette Smoke-Induced Lung Endothelial Apoptosis and Emphysema Are Associated with Inhibition of Unfolded Protein Response and Autophagy. *Microvascular Research*, 94:80-89, 2014. PMID: 24853558 PMID: PMC4185927
105. \*Borgas D, \*Chambers E, Newton J,\* Ko J, \*Rivera S, **Rounds S**, Lu Q. Cigarette Smoke Disrupted Lung Endothelial Barrier Integrity and Increased Susceptibility to Acute Lung Injury via Histone Deacetylase 6. *Am J Resp Cell Molec Biol.*, 54(5):683-96, 2016. PMID: 26452072. PMID: PMC4942194
106. Okereke IC, Bates MF, Jankowich M.D., **Rounds SI**, Kimble BA, Baptiste JV, Ng TT, Nici LL. Effects of Implementation of Lung Cancer Screening At One Veterans' Affairs Medical Center. *Chest*, 150: 1023-1029, 2016. PMID: 27568228
107. Vang A, Clements RT, Chichger H, \*Kue N, \*Allawzi, \*O'Connell K, \*Sakhatsky P, Lu Q, Zhang, P **Rounds S**, and Choudhary G. Effect of  $\alpha$  nicotinic acetylcholine receptor activation on cardiac fibroblasts: A mechanism underlying RV fibrosis associated with cigarette smoke exposure. *Am J Physiol: Lung Cell Molecular Biol*. 312:L748-L759, 2017. PMID:28258105. PMID:PMC5451597
108. Newman, JH, Rich S, et al. Enhancing Treatments for Pulmonary Vascular Diseases (PVD) Through Precision Medicine: A Joint NHLBI-CMREF Workshop Report. *Am J Respir Critical Care Med*, 195:1661-1670, 2017. PMID:28430547. PMID:PMC5476915
109. \*Sakhatsky, P, Wang, Z, \*Borgas, D, Lomas-Neira, J, Chen, Y, Ayala, A, **Rounds, S\*\***, and Lu, Q\*\*. Double-Hit Mouse Model of Cigarette Smoke Priming for Acute Lung Injury. *Am J Physiol: Lung Cell Molec Physiol*. 312:L56-L67, 2017. \*\*Indicates co-corresponding authors. PMID:27864287. PMID:PMC5283923
110. Lu, Q\*\*, Lange, T, \*Borgas, D, Newton, J, Choudhary, \*G, Basak, R, \*Oldham, M, **Rounds, S\*\***. Alda-1 protects against acrolein-induced acute lung injury and endothelial barrier dysfunction. *American Journal of Respiratory Cell Molecular Biology*. 57: 662-673, 2017. PMID:28763253  
Highlighted Article. \*\*indicates co-corresponding authors.
111. \*Chambers E, **Rounds S**, Lu Q. Pulmonary Endothelial Cell Apoptosis in Emphysema and Acute Lung Injury. *Adv Anat Embryol Cell Biol*. 2018; 228:63-86. doi:10.1007/978-3-319-68483-3\_4. PubMed PMID: 29288386
112. **Rounds S** and Lu Q. Cigarette smoke alters lung vascular permeability and endothelial barrier function. *Pulmonary Circulation*. 2018. Jul-Sep;8(3):2045894018794000. doi: 10.1177/2045894018794000. Epub 2018 Jul 23. PMID:30036149



113. Lu Q, \*Gottlieb, E, **Rounds, S**. Effects of cigarette smoke on pulmonary endothelial cells. *American Journal of Physiology: Lung Cellular and Molecular Physiology*, 2018. 314(5):L743-L756. doi: 10.1152/ajplung.00373.2017. Epub 2018 Jan 4. PMID:29351435
114. Chichger H, **Rounds S**, Harrington EO. Endosomes and Autophagy: Regulators of Pulmonary Endothelial Cell Homeostasis in Health and Disease. *Antioxidants and Redox Signaling*. 2019. 31(13):994-1008, 2019. PMID:31190562
115. \*Chambers ED, White A, Vang A, Wang Z, Ayala A, Weng T, Blackburn M, Choudhary G, **Rounds S**, Lu Q. Blockade of equilibrative nucleoside transporter 1/2 protects against *Pseudomonas aeruginosa*-induced acute lung injury and NLRP3 inflammasome activation. *FASEB J*. 2020 Jan;34(1):1516-1531. doi: 10.1096/fj.201902286R. Epub 2019 Dec 2. PMID: 31914698
116. \*Ko J, **Rounds S**, and Lu Q. Sustained adenosine exposure causes endothelial mitochondrial dysfunction via equilibrative nucleoside transporters. *Pulmonary Circulation*. 10: 1-11, 2020. DOI: 10.1177/2045894020924994. PMID: 32523687
117. Wang Z, White, A, Wang X, \*Ko J, Choudhary G, Lange T, **Rounds S**, Lu Q. Mitochondrial fission mediated cigarette smoke-induced pulmonary endothelial injury. *Am J Resp Cell Molec Biol*. 63: 637-651, 2020. PMID: 32672471
118. Adaptive and innate immune mechanisms in cardiac fibrosis complicating pulmonary arterial hypertension. Siamwala JH, \*Zhao A, \*Barthel H, Pagano FS, Gilbert RJ, **Rounds S**. *Physiol Rep*. 2020 Aug;8(15):e14532. doi: 10.14814/phy2.14532.PMID: 32786064
119. **Rounds S** and Lu Q. Editorial. Where there's smoke, there's fire. *Chest*. 2020 Oct;158(4):1301-1302. doi: 10.1016/j.chest.2020.07.032. PMID: 33036072
120. Kimberly JA, **Rounds SI**, Harrington EO, and McNamara, S. Formative evaluation results of a phase 2 Center of Biomedical Research Excellence (COBRE). *J Clinical and Translational Science*. 2020. <http://doi.org/10.1017/cts.2020.500>. PMID: 33948225
121. **Rounds S**, Harrington EO, McNamara SF. Building Research Capacity in Vascular Biology in Rhode Island. *R I Med J* (2013). 2021 Mar 1;104(2):50-53.PMID: 33648320
122. Maron, BA, Choudhary, G, Goldstein, RL, Garshick, E, Jankowich, M, Tucker, TJS, LaCerde, KA, Dempsey, EC, Sadikot, RT, Shapiro, S, **\*Rounds, SI**, **\*\*Goldstein, RH**. Tadalafil for Chronic Obstructive Pulmonary Disease-Pulmonary Hypertension: A Multicenter, Placebo-Controlled Randomized Trial. *Pulmonary Circulation*. Mar 14;12(1):e12043. doi: 10.1002/pul2.12043. eCollection 2022 PMID: 35506072\*\*Shared senior authorship.
123. \*Zeba F, \*Yanning W, Melek J, Duan F, Atalay MK, Jankowich M, **Rounds S**. Prognostic significance of pulmonary artery to aorta ratio and other CT markers in pulmonary fibrosis with and without emphysema. *Lung* 2021 Nov 6. doi: 10.1007/s00408-021-00490-2. Online ahead of print. PMID: 34741227.
124. White A, Wang Z, King K, Wang X, Guo C, \*Mantsounga C, Ayala A, Morrison A, Choudhary G, Sellke F, \*Chambers E, Ware LB, **Rounds S**, Lu Q. NLRP3 inflammasome activation and mitophagy in cigarette smoke priming for *Pseudomonas aeruginosa*-induced acute lung injury. *Redox Biology*. 57:102467.Nov. 2022. PMID: 36175355
125. **Rounds S**, Lu Q, Siamwala J. Cigarette smoking increases the risk of adult respiratory distress syndrome. *Transactions of the American Clinical and Climatological Society*. 132: 224-235, 2022. PMID: 3619620
126. Sun X, Nakajima E, Norbrun C, Sorkhdini P, Yang AX, Yang D, Ventetuolo CE, Braza J, Vang A, Aliotta J, Banerjee D, Pereira M, Baird G, Lu Q, Harrington EO, **Rounds S**, Lee CG, Yao H, Choudhary G, Klinger JR, **Zhou Y**. Chitinase 3-like-1 contributes to the development of pulmonary vascular remodeling in pulmonary hypertension. *JCI Insight*. 2022 Aug 11:e159578. doi: 10.1172/jci.insight.159578. Online ahead of print.PMID: 35951428
127. Siamwala JH, Mossman JA, Schorl C, Borgas D, Sakhatsky, P, Rand DM, Lu Q, and **Rounds S**. Strain-dependent lung transcriptomic differences in cigarette smoke and LPS models of Lung Injury. *Physiological Genomics*. In Press.

128. Yalcin EB, Delikkaya BN, Pelit W, Tong M, De La Monte SM, **Rounds, S.** The differential effects of chronic alcohol and cigarette smoke exposures on cognitive-behavioral dysfunction in Long Evans rats. *J Behav Brain Sci.* 2022 Sep;12(9):413-432. doi: 10.4236/jbbs.2022.129024. Epub 2022 Sep 20. PMID: 36860550

### BOOKS AND BOOK CHAPTERS

1. **Rounds, S.I.S.**, and J.S. Brody. The adult respiratory distress syndrome. In: *Current Topics in the Management of Respiratory Diseases*, vol. 1. Ed. by J.S. Brody and G.L. Snider, Churchill Livingstone, New York, 1981.

2. McMurtry, I.F., Stanbrook, H.S., and **S.S. Rounds.** The mechanism of hypoxic pulmonary vasoconstriction- a working hypothesis. In: *Oxygen Transport to Human Tissue.* Ed. By J.A. Loeppky and M.L. Riedesel. Elsevier Press, New York, 1982.

3. **S. Rounds.** Pulmonary embolism. In: *Medicine, Essentials of Clinical Practice.* Ed. by N.G. Levinsky. Little, Brown & Co. 1983.

4. Hill, N.S., and **S. Rounds.** Pulmonary hypertension. In: *Current Topics in the Management of Respiratory Diseases*, vol. II. Ed. by J.S. Brody and G.L. Snider, Churchill Livingstone, New York, 1985.

5. Hill, N.S., and **S. Rounds.** Pulmonary embolus. In: *Textbook of General Internal Medicine and Primary Care.* Ed. by J. Noble. Little, Brown, Boston, 1987.

6. **Rounds, S.** Pulmonary circulation control in lung injury. In *Pulmonary Vascular Physiology and Pathophysiology.* Ed. by J.T. Reeves and K. Weir. Marcel Dekker, 1989.

7. Groves, B.M., Kernis, J., Brundage, B.H., Dantzker, D.R., Elliott, C.G., Fishman, A.P., Koerner, S.K., Moser, K.M., Fisher, J.D., Pietro, D.A., Peter, R.H., Reeves, J.T., Rich, S., and **S. Rounds.** Pulmonary hypertension associated with cirrhosis compared with primary (unexplained) pulmonary hypertension. In: *Pulmonary Circulation, Normal and Abnormal.* Ed. by A.P. Fishman. University of Pennsylvania Press, 1990.

8. **Rounds, S.** and M. Cutaia. Pulmonary Hypertension: Pathophysiology and Clinical Disorders. In *Textbook of Pulmonary Diseases.* 6th edition, Ed. By Baum, Crapo, Celli, and Karlinsky. Sixth Edition, Lippincott-Raven, Philadelphia, 1998, pp. 1273-1296.

9. **Rounds, S.** Dawicki, DD, Parker, AL, and LL Likar. Effects of extracellular nucleotides on lung vascular endothelial cells. In *Pulmonary Edema*, Ed by EK Weir and JT Reeves. Futura Publishing, Armonk, New York, 1998, pp. 303-317.

10. **Rounds, S.** and JR Klinger. Pulmonary Hypertension—Pathophysiology and Clinical Disorders. *Textbook of Pulmonary Diseases.* 7th edition, Ed by J Crapo, J Glassroth, J Karlinsky, and T King, Jr., pp. 697-729, 2003.

11. Co-Editor (with Peter Wagner, MD) of *Colleagues in Discovery: 100 Years of Improving Respiratory Health*, by Joseph Wallace, Tehabi Books, San Diego, 2005. Published in celebration of the Centennial of the American Thoracic Society.

12. Harrington, EO, Lu, Q, and **S. Rounds.** Endothelial Cell Apoptosis. In *Endothelial Biomedicine.* Ed. By W. C. Aird, Cambridge University Press, 2007.

13. **Rounds, S** and Voelkel, NV. Co-Editors, *The Pulmonary Endothelium.* Jonathan Wiley, Chichester, United Kingdom, October, 2009.

14. **Rounds, S** and M Jankowich. Co-Leads. Section on Pulmonary/Critical Care. *Cecil's Essentials of Medicine,* 9<sup>th</sup> edition, Saunders/Elsevier, Philadelphia, PA, 2010, 2013, 2015.

15. Lu Q, **Rounds S.** Adenosine and endothelial cell function. In: *Recent Advances in Pulmonary Vascular Biology,* Edited by Yong-Xiao Wang, Research Signpost, Kerala, India. 2011: 343-361; ISBN: 978-81-308-0476-7.

16. Jankowich, M, and **Rounds, S.** Coexistent pulmonary fibrosis and emphysema. IN: *Controversies in COPD*, Edited by: A. Anzueto, Y. Heijdra, J.R. Hurst, ERS Monographs. 2015.

17. Banerjee, D, Gartman, E, and **Rounds, S.** Co-Leads. Section on Pulmonary/Critical Care. Cecil's Essentials of Medicine, 10<sup>th</sup> Edition, Saunders/Elsevier, Philadelphia, PA, 2019.

#### PEER-REVIEWED PUBLICATIONS IN OTHER MEDIA

1. **Rounds, S.** Best of the Web. Pulmonary Hypertension. American Thoracic Society. 2006.  
www.thoracic.org/sections/clinical-information/best-of-the-web/pages/pulmonary-hypertension.html

#### OTHER PUBLICATIONS

1. **Rounds, S.** Diagnosis and Management of Chronic Pulmonary Vascular Disease. Pulmonary and Critical Care Update of Am College of Chest Physicians.. Volume 3, Lesson 5, 1987.

2. **Rounds, S.** Primary pulmonary hypertension: An innovative therapy. Clinical Cardiology Alert. Vol. 6, Number 9, September, 1987.

3. Report of the Task Force on Research in Cardiopulmonary Dysfunction in Critical Care Medicine, National Heart, Lung, and Blood Institute, October, 1994.

4. **Rounds, S.** "Budgets". in The First Whole Earth Grant Writing Workshop. Ed by W. Martin. Published by the American Thoracic Society. 1996.

5. **Rounds, S.** Physician Scientists at Brown Medical School—Tactics to Enhance Career Development and Retention. Brown University Faculty Bulletin. 3: 39-42, 2003.

6. **Rounds, S.** Tough Times for Medical School Faculty. Brown Medicine. P19, Fall, 2003.

7. **Rounds S.** Innovative approaches to healthcare delivery at the Providence VA Medical Center. Med Health R I. 93:6-7, 2010.

8. **Rounds S.** Overview of the Providence VA Medical Center. Med Health R I. 93:4-5, 2010.

#### CORPORATE AUTHORSHIP OR MULTICENTER TRIALS

1. D'Alonzo GE et al. Survival in patients with primary pulmonary hypertension. Results from a national prospective registry. Ann Intern Med. 115: 343-349, 1991. *Participating Clinical Center PI.*
2. Rich S et al. Primary Pulmonary Hypertension. A national prospective study. Ann Intern Med. 107:216-223, 1987. *Participating Clinical Center PI*
3. Tashkin, D.P., et al. Cyclophosphamide versus placebo in scleroderma lung disease. New Engl J Med. 354:2655-2666, 2006. *Member of Data Safety and Monitoring Board*
4. Idell S, Mazar AP, Bitterman P, Mohla S, and AL Harabin. NHLBI/NCI Workshop. Fibrin turnover in lung inflammation and neoplasia. Am J Resp Crit Care Med 163:578-584, 2001. *Conference Participant.*
5. Goldin JG, Lynch DA, Stollo DC, Suh RD, Schraufnagel DE, Clements PJ, Elashoff RM, Furst DE, Vasunilashorn S, McNitt-Gray MF, Brown MS, Roth MD, Tashkin DP; Scleroderma Lung Study Research Group. High-resolution CT scan findings in patients with symptomatic scleroderma-related interstitial lung disease. Chest. 134:358-367, 2008. *Member of Data Safety and Monitoring Board.*
6. The idiopathic pulmonary fibrosis clinical research network. A controlled trial of sildenafil in advanced idiopathic pulmonary fibrosis. New Eng J Med. May 18, 2010. *Member of Data Safety and Monitoring Board*
7. Predicting treatment outcomes and responder subsets in scleroderma-related interstitial lung disease. Roth MD, Tseng CH, Clements PJ, Furst DE, Tashkin DP, Goldin JG, Khanna D, Kleerup EC, Li N, Elashoff D, Elashoff RM; Scleroderma Lung Study Research Group. Arthritis Rheum. 2011 Sep;63(9):2797-808. PMID: 21547897 *Member of Data Safety and Monitoring Board*

8. Prednisone, azathioprine, and N-acetylcysteine for pulmonary fibrosis. Idiopathic Pulmonary Fibrosis Clinical Research Network, Raghu G, Anstrom KJ, King TE Jr, Lasky JA, Martinez FJ. *N Engl J Med.* 2012 May 24;366(21):1968-77. PMID:22607134 *Member of Data Safety and Monitoring Board*
9. Randomized trial of acetylcysteine in idiopathic pulmonary fibrosis. Idiopathic Pulmonary Fibrosis Clinical Research Network, Martinez FJ, de Andrade JA, Anstrom KJ, King TE Jr, Raghu G. *N Engl J Med.* 2014 May 29;370(22):2093-101. doi: 10.1056/NEJMoa1401739. Epub 2014 May 18. PMID: 24836309 *Member of Data Safety and Monitoring Board*
10. Efficacy of Mycophenolate Mofetil and Oral Cyclophosphamide on Skin Thickness: Post Hoc Analyses From Two Randomized Placebo-Controlled Trials. Namas R, Tashkin DP, Furst DE, Wilhalme H, Tseng CH, Roth MD, Kafaja S, Volkman E, Clements PJ, Khanna D; Participants in the Scleroderma Lung Study I and members of the Scleroderma Lung Study II Research Group. *Arthritis Care Res (Hoboken).* 2018 Mar;70(3):439-444. doi: 10.1002/acr.23282. Epub 2018 Feb 9. PMID: 28544580 *Member of Data Safety and Monitoring Board*
11. Short-term progression of interstitial lung disease in systemic sclerosis predicts long-term survival in two independent clinical trial cohorts. Volkman ER, Tashkin DP, Sim M, Li N, Goldmuntz E, Keyes-Elstein L, Pinckney A, Furst DE, Clements PJ, Khanna D, Steen V, Schraufnagel DE, Arami S, Hsu V, Roth MD, Elashoff RM, Sullivan KM; SLS I and SLS II study groups. *Ann Rheum Dis.* 2019 Jan;78(1):122-130. doi: 10.1136/annrheumdis-2018-213708. Epub 2018 Nov 8. PMID: 30409830. *Member of Data Safety and Monitoring Board*

#### INVITED PRESENTATIONS

1983:

Invited Speaker: "Pulmonary Vascular Reactivity after Acute Lung Injury." Third Banff International Hypoxia symposium. Banff, Alberta, Canada, January, 1983.

1984:

Co-Chairman, Poster Symposium, "Pulmonary Circulation". American Thoracic Society Annual Meeting, Miami, Florida, May, 1984.

Speaker, Meet the Professor Luncheon, "Prostaglandins in the Healthy and Diseased Lung." American Thoracic Society Annual Meeting, Miami, Florida, May, 1984.

Invited Poster Presentation: "Endothelial Cell Production of Neutrophil Chemoattractant," Lung Cell Biology Gordon Conference. Plymouth, NH, July, 1984.

Co-Chairman, Pulmonary Session, American Federation for Clinical Research- Eastern Section Meeting, Philadelphia, October, 1984.

Invited Speaker: "Effects of Endothelial Cell Injury on Pulmonary Vascular Reactivity." Grover Pulmonary Vascular Reactivity Conference, Deckers, Colorado, October, 1984.

1985:

Invited Poster Presentation: "Diminished Neutrophil Adherence to Post-Confluent Endothelial Cells." Atherosclerosis Gordon Conference. Meridith, NH June, 1985.

1986:

Abstract reviewer and co-chair: Pulmonary Subspecialty Session, Annual Meeting, American Federation for Clinical Research, 1986.

1987:

Meet the Professor Speaker: "Effects of Acute Lung Injury on Pulmonary Vascular Reactivity," American College Chest Physicians, Annual Meeting, Atlanta, Georgia, September, 1987.

1988:

Abstract reviewer and co-chair: "Hypoxia and the Pulmonary Endothelium", American Thoracic Society Annual Meeting, Las Vegas, Nevada, May, 1988.

Visiting Professor, Pulmonary Division, Yale University, New Haven, Conn., "The role of endothelial cell-leukocyte interaction in the pathogenesis of ARDS", March 16, 1988.

1989:

Pulmonary Grand Rounds, Van Etten Hospital, Albert Einstein College of Medicine, New York, N.Y., February 7, 1989.

1990:

Invited Speaker, New England States Chapter, American College Chest Physicians, Annual Meeting, "Pulmonary Hypertension and Shortness of Breath." September 12, 1990.

Visiting Professor, Pulmonary Division, The New York Hospital-Cornell University Medical Center, November 12, 1990, "Endothelial Metabolism of Adenosine and Adenine Nucleotides: Implications for Acute Lung Injury".

1991:

Meet the Professor Speaker, "Pulmonary Hypertension", Annual Meeting, American Thoracic Society, May, 1991, Anaheim, California.

1992:

Invited Speaker, Literature Review Course, "Pulmonary Vascular Disease", American College of Chest Physicians Annual Meeting, October, 1992, Chicago, Illinois.

1993:

Research Conference, Pulmonary and Critical Care Section, Tufts-New England Medical Center, Tufts University School of Medicine, "Effects of H<sub>2</sub>O<sub>2</sub> on Endothelial Cell Na-K ATPase", February 16, 1993.

1995:

Invited Speaker, "First Whole Earth Grant Writing Course", American Thoracic Society Annual Meeting, Seattle, Washington, May 20, 1995.

Invited Speaker, "Clinical Year in Review, Pulmonary Vascular Disease", American Thoracic Society Annual Meeting, Seattle, Washington, May, 1995.

Invited Speaker, VI Columbian Pulmonary Congress of the Sociedad Colombiana De Neumologia Y Cirugia Del Torax, Bogota, Columbia, September 19-23, 1995.

1996:

Invited Testimony for the American Lung Association and American Thoracic Society before the House Subcommittee on VA, HUD, and Independent Agencies Appropriations, May 10, 1996.

Co-Chair, Research Symposium, "Extracellular Nucleotides--From Bench to Bedside", American Thoracic Society Annual Meeting, New Orleans, La, May 14, 1996.

Speaker, "Extracellular ATP and Adenosine Cause Endothelial Cell Apoptosis", Purines '96, Molecular, Pharmaceutical and Therapeutic Advances, International Symposium, 7/6-7/9/96, Milan, Italy.

Invited Speaker, "Effects of Extracellular Nucleotides and Adenosine on Endothelial Cells" at the "Scientific Conference on the Pathogenesis and Treatment of Pulmonary Edema", Co-sponsored by the American Heart Association and the American Thoracic Society, Sedalia, Colorado, September 4-8, 1996.

Pulmonary Grand Rounds, UCLA/Harbor County Medical Center, Los Angeles, California, July 24, 1996.

1997:

Featured Speaker, "Pulmonary Hypertension" State of the Art Clinical Conference, Aspen, Colorado, 2/19-2/22/97, Sponsored by the University of Colorado and the Colorado Lung Association.

Research Conference, Department of Anatomy and Developmental Biology, University College, London, March 17, 1997, "Extracellular Nucleotides and Lung Endothelial Cell Injury".

Meet the Professor Seminar, American Thoracic Society, Annual Meeting, 5/97.

Thematic Poster Session Facilitator, Vascular Cell and Mediator Biology, American Thoracic Society, Annual Meeting, 5/97.

Speaker, "Oxidant stress stimulates Na/K pump activity in pulmonary arterial endothelial cells". Aspen Lung Conference, 6/97.

1998:

Thematic Poster Discussion Facilitator, Biology of the Vascular Wall, American Thoracic Society Annual Meeting, 5/98.

1999:

Invited Poster Presentation and Speaker, FASEB Conference on Biological Methylation, Saxtons River, VT, July, 1999.

Discussant, NHLBI and NCI workshop, "Fibrin Turnover in Lung Inflammation and Neoplasia", September 27-28, 1999.

2000:

Speaker, "Meet the Professor-- Clinical Approach to Pulmonary Hypertension", American Thoracic Society Annual Meeting, 5/2000.

Poster presentation, "Adenosine/Homocysteine-Induced Endothelial Cell Apoptosis", FASEB Conference on The Ras Superfamily of Small GTP-Binding Proteins, Snowmass, Colorado, July, 2000.

Speaker, "Mechanism of Adenosine/Homocysteine-Induced Endothelial Cell Apoptosis," Purines 2000: Biochemical, Pharmacological and Clinical Perspectives, Madrid, Spain, July, 2000.

2001:

Invited Leading Lecture, "The Central Role of Focal Adhesion Complexes in Endothelial Cell Apoptosis," Japanese Respiratory Society, Annual Meeting, April 6, 2001.

Speaker, "Master Clinicians—Controversies in Treatment of COPD", American Thoracic Society Annual Meeting, 5/2001

Symposium Chair, "Keeping Connected—Cell-Cell and Cell-Matrix Adhesion and Endothelial Cell Function", American Thoracic Society Annual Meeting, 5/2001

Mini-Symposium Co-Chair, "Endothelial Cell Signaling and Injury", American Thoracic Society Annual Meeting, 5/2001

Invited Poster Presentation and Speaker, "Role of Methyltransferase Inhibition in Endothelial Cell Apoptosis," FASEB Conference on Biological Methylation, Saxtons River, VT, July, 2001.

Invited Speaker, "Novel Models and Mechanisms of Endothelial Cell Apoptosis", Central Society for Clinical Research, Chicago, Illinois, 9/6/01.

2002:

Invited Speaker, "Apoptosis and Acute Lung Injury", Society for Critical Care Medicine, San Diego, Calif, 1/28/02.

Invited Poster, "Effects of Inhibition of Ras and Rho A GTPase Methylation on Pulmonary Artery Endothelial Cell Function." FASEB Conference on Small GTPases and Cell Dynamics, Snowmass, Colorado, 7/02.

Invited Speaker, "Small GTPase Carboxymethylation and Endothelial Cell Function". Grover Conference on Pulmonary Vascular Signaling, sponsored by American Heart Association, Deckers, Colorado, September, 2002.

Guest Speaker, New Developments in Pathogenesis and Treatment of Pulmonary Hypertension", NAPCON conference, Jaipur, India, November, 2002.

2003:

Invited Speaker, "Effects of Small GTPase Methylation on Endothelial Cell Function", Pulmonary Research Conference, Tufts-New England Medical Center, April 3, 2003.

Invited Testimony for Friends of the VA before the House Subcommittee on VA, HUD, and Independent Agencies Appropriations, April 9, 2003.

Invited Speaker, “Cardiovascular complications of Obstructive Sleep Apnea”, “Sleep Apnea and Pulmonary Hypertension”, and “Pulmonary Hypertension”, NAPCON Meeting, Coimbatore, India, November, 2003.

Invited Speaker, “Apoptosis and Acute Lung Injury”, Hellenic Thoracic Society, Athens, Greece, November, 2003.

2004:

Meet the Professor, “Molecular Mechanisms of Lung Microvascular Injury”, Japanese Respiratory Society meeting, Tokyo, Japan, April 1, 2004.

Visiting Professor, Pulmonary Medicine, Chiba University, Chiba, Japan, March 29, 2004.

Visiting Professor, 13<sup>th</sup> Kass Lecturer, University of Nebraska Medical Center, May 6-7, 2004.

Invited Speaker and poster presentation, FASEB Conference on Biological Methylation, Saxton’s River, Vermont, July 12, 2004.

Invited Moderator, Grover Conference on the Pulmonary Circulation, Deckers, Colorado, September 9, 2004.

Keynote Speaker, American Lung Association of Maine Annual Meeting, “Toward a System of Prevention, Detection, and Treatment of COPD”, South Portland, Maine, September 17, 2004.

Invited Speaker, Brazilian Thoracic Society, “Mechanisms of Endothelial Cell Injury”, and “Pathogenesis of Pulmonary Hypertension”, Salvador, Bahia, November 15, 2004.

Invited Speaker, Asian Pacific Society for Respiriology, “Radiology Grand Rounds”, Moderator: “Lung Cancer”, and Presidential Lecturer: “Treatment of Pulmonary Hypertension: New Insights and New Hope”, Hong Kong, December 11-13, 2004.

Visiting Professor, Chinese Academy of Sciences, “Endothelial Apoptosis”, Beijing, December 15, 2004.

2005:

Visiting Professor, Pulmonary/Critical Care Section, Feinberg School of Medicine, Northwestern University, Medical Grand Rounds, “Vascular Complications of Obstructive Sleep Apnea”, Research Conference, “Post-Translational Processing of Small GTPases and Endothelial Cell Function”, February 8, 2005.

Visiting Professor, Keio University, Tokyo, Japan. “Apoptosis and Lung Injury”, April 11, 2005.

Invited Presidential Lecture, “Respiratory Diseases and the Internal Environment,” Japanese Respiratory Society, Chiba, Japan, April 15, 2005. Meet the Professor, “Vascular Consequences of Obstructive Sleep Apnea,” Japanese Respiratory Society, Chiba, Japan, April 14, 2005.

Invited Lecture, “Global Lung Health, the ATS Perspective”, Turkish Thoracic Society, Antalya, Turkey, April, 28, 2005.

Invited Lecture, “What’s New in Pulmonary Hypertension. ATS/SEPAR Symposium”, Spanish Thoracic Society (SEPAR), June 10, 2005.

Invited Lectures. “Pulmonary Hypertension”, “Cardiovascular and Pulmonary Vascular Complications of Obstructive Sleep Apnea,” “Apoptosis and Lung Injury”. Argentinian Thoracic Society, October 8-11, 2005.

Invited Lectures. “Vascular Consequences of Obstructive Sleep Apnea”, “Surfactant Replacement in ARDS”, “Pulmonary Hypertension” NAPCON 2005 Meeting, Kolkota, India, November 16-20, 2005.

Keynote Speaker, “You’ve Come a Long Way, Baby: Women and Lung Disease,” Catch Your Breath: Women and Lung Health Conference, ALA of Metropolitan Chicago, December 1, 2005.

2006:

Invited Lectures, “Pulmonary Hypertension: New Insights and New Hopes”, “Molecular Basis of Lung Diseases”, “Cardiovascular and Pulmonary Vascular Complications of Obstructive Sleep Apnea”. 6<sup>th</sup> Annual Symposium: Current Concepts in Pulmonary and Critical Care. ALA of Hawaii and Hawaii Thoracic Society, February 18-22, 2006.

Symposium Chair, American Thoracic Society International Conference, “Treating the Whole Patient, Co-Morbidities of COPD”, May 22, 2006.

Invited speaker, Japanese Respiratory Society, “Pulmonary Hypertension, New Insights and New Hopes” and “Stem Cells and Lung Diseases”, English-Speaking Symposium Chair, Tokyo, June, 2006.

Session Chair, Grover Conference on the Pulmonary Circulation, “Rho GTPase and the Pulmonary Circulation”, Deckers, Colorado, September 6-10, 2006.

2007:

Visiting Professor, University of Hawaii, March, 2007. Medical Grand Rounds, Queens Medical Center, “New Concepts in the Pathogenesis of COPD”; Medical Grand Rounds, Kuakini Medical Center, “New Concepts in Pathogenesis of Pulmonary Hypertension”; Medical Staff Conference, Kaiser-Permanente Medical Center, “Co-Morbidities of COPD”; Medical Staff Conference, Honolulu VAMC, “Cardiovascular Consequences of Obstructive Sleep Apnea”; Medical Staff Conference, Tripler Medical Center, “Cardiovascular Consequences of Obstructive Sleep Apnea”; Cell Biology Research Conference, “Post-Translational Processing of Small GTPases and Endothelial Cell Function”

Dr. Thomas A. Neff Lecturer, University of Colorado Health Sciences Center, Division of Pulmonary Sciences and Critical Care Medicine, April, 2007. Department of Medicine Grand Rounds, “Cardiovascular Consequences of Obstructive Sleep Apnea”

Invited Speaker, NAPCON meeting, Chandigarh, India, November, 2007. “Pulmonary Arterial Hypertension: New Insights and New Hope”, “Cardiovascular Consequences of Obstructive Sleep Apnea”.

2008:

Visiting Professor, Critical Care Conference, “Apoptosis in Acute Lung Injury and Repair”, Lung Biology Program, University of South Alabama, March, 2008

Invited Speaker, “Academic Careers”, “Leadership”, “Choosing a Research Mentor/Laboratory”, CareerTalk: The Course, [Postgraduate Course], American Thoracic Society International Conference, Toronto, CA, May, 2008.

Poster Session Facilitator, “Pulmonary Circulation”, ATS International Conference, Toronto, CA, May, 2008.

2009:

Inkley Visiting Professor, Case Western Reserve University, March 11-12, 2009. Medical Grand Rounds: “Pulmonary Hypertension: Bench to Bedside”, Research Conference: “Apoptosis in Acute Lung Injury”, Keynote speaker, Case/Western Reserve Women Medical Faculty Meeting, “Tips for Success in Academic Medicine”.

American Thoracic Society International Conference, San Diego, May 16-20, 2009.

Invited Speaker, “Starting a Research Career”, Fellows Symposium: Practical Tips For Transitioning To a Successful Academic Career.

Invited Speaker, “Pulmonary Endothelium: Not Just a Passive Barrier”.

Invited Speaker, “Apoptosis: Balancing Life and Death”, Workshop on Angiogenesis in the Post-Natal Circulation. Co-chair of Mini-Symposium, “Building a Firewall: Endothelial Barrier Dysfunction”.

Speaker, “To Be or Not To Be: Cell Fate and Pulmonary Vascular Disease”

2010:

Samuel Frumkin Lecturer, Norwalk Hospital, Norwalk, Ct, “Pulmonary Hypertension: Bench to Bedside”. March 11, 2010.

American Thoracic Society International Conference, New Orleans, LA, May, 2010.

Poster Session Facilitator

Visiting Professor, Pulmonary/Critical Care Division and Department of Pharmacology, University of Illinois-Chicago, September, 2010. “Pulmonary Hypertension: Update and New Challenges”, “Adenosine and Lung Vascular Permeability”

Visiting Professor, Roland Ingram, Jr, MD, Memorial Lecturer, Pulmonary/Allergy/Critical Care Division, Emory University, October, 2010

2011:



Invited speaker, Society of Critical Care Medicine Annual Congress, San Diego, CA, "Understanding Lung Capillary Permeability", January 18, 2011.

Invited speaker, University of Alabama-Birmingham, Medical Grand Rounds, "Pulmonary Hypertension" and Pulmonary/Critical Care Grand Rounds, "Adenosine and Lung Endothelial Permeability", March 22-24, 2011.

Tisdale Visiting Professor, University of Vermont School of Medicine, Medical Grand Rounds, "New Ideas in Pulmonary Hypertension", September 22-23, 2011.

2012:

Invited speaker, State of the Art Course, American Thoracic Society, "Combined Pulmonary Fibrosis and Emphysema", Dallas, Texas, March 22, 2012.

Invited speaker, Meet the Professor, American College of Physicians, "Pulmonary Hypertension" and "Practitioners' Morning Report", New Orleans, LA, April 20-21, 2012.

Invited speaker, "Master Clinicians: Interesting Cases" and "The Spectrum of Endothelial Cell Injury from Apoptosis to Repair", American Thoracic Society International Conference, May, 2012.

2013:

Invited Speaker, New York State Thoracic Society Annual Meeting, "Combined Pulmonary Fibrosis and Emphysema", February 1, 2013.

Invited Speaker, "Mentoring", American Thoracic Society Annual Meeting, May 20, 2013.

Invited speaker, "Master Clinicians: Interesting Cases" American Thoracic Society International Conference, May, 2013.

Invited Speaker, "R25 Grants to Enhance Diversity", NHLBI Training Directors Meeting, May 18, 2013.

2014:

Invited speaker, "Master Clinicians: Interesting Cases" American Thoracic Society International Conference, May, 2014.

Invited Speaker, "Career Strategies for Junior Investigators", American Thoracic Society International Conference, May, 2014.

Invited Speaker, "Effects of Cigarette Smoke on Lung Vascular Permeability", International Symposium on Respiratory Diseases and ATS in China, Shanghai, China, November, 2014.

Invited Speaker, Pulmonary/Critical Care Section, "Effects of Cigarette Smoke on Lung Vascular Permeability", University of Chicago, December, 2014.

2015:

Visiting Professor, Physiology Department, University of Tennessee, Memphis, Tenn, "Effects of Cigarette Smoke on Lung Vascular Permeability", April, 2015.

Visiting Professor, Department of Internal Medicine, University of South Florida, Tampa, FLA, "Cigarette Smoke-Induced Lung Endothelial Cell and Acute Lung Injury", December 5, 2015.

Invited Speaker: "Master Clinicians: Interesting Cases" American Thoracic Society International Conference, May, 2015.

2016:

Invited speaker, Pulmonary Center, Boston University School of Medicine, "Cigarette Smoke-Induced Lung Endothelial Cell and Acute Lung Injury", January 31, 2016.

Invited Leader, Mock Study Section, Association for Clinical Translational Science Symposium, April 13, 2016.

Invited Speaker: "Master Clinicians: Interesting Cases" American Thoracic Society International Conference, May, 2016.

Invited Discussant: Enhancing Treatments for Pulmonary Vascular Diseases (PVD) Through Precision Medicine: A Joint NHLBI-CMREF Workshop", Chicago, June 6-8, 2016.

Distinguished Visiting Scientist: “Mechanisms of Disruption of Lung Endothelial Barrier Function”, Department of Molecular and Cellular Physiology, Albany Medical Center, October, 26, 2016

2017:

Invited Leader, Mock Study Section, Association for Clinical Translational Science Symposium, April, 2017.

Invited Speaker: “Master Clinicians:Interesting Cases” American Thoracic Society International Conference, May, 2017.

Robert M. Rogers Lectureship, University of Pittsburgh Pulmonary Allergy Critical Care Medicine, June 9, 2017

2018:

Invited Leader, Mock Study Section, Association for Clinical Translational Science Symposium, April, 2018.

Invited Speaker: “Master Clinicians:Interesting Cases” American Thoracic Society International Conference, May 20, 2018.

Panel Member: “Careers in Medicine”, Massachusetts College of Pharmacy and Health Sciences University, October 11, 2018.

2019:

Invited Leader, Mock Study Section, Association for Clinical Translational Science, March, 2019.

Invited Speaker, “Mentoring at Mid-Career”, Association for Clinical Translational Science, March, 2019.

Invited Speaker: “Master Clinicians:Interesting Cases” American Thoracic Society International Conference, May, 2019.

Poster, Aspen Lung Conference, June, 2019.

Invited Speaker, MaineHealth Research Institute, August 9, 2019. “Acute Lung Injury induced by Cigarette Smoking and Acrolein”.

2020:

Invited Speaker: “Master Clinicians:Interesting Cases” American Thoracic Society Virtual International Conference, July 21, 2020.

Invited Speaker: “IDeA Program Collaborations in Rhode Island”, Professional Development IDeA Network, August 3, 2020.

2021:

Invited Speaker, “Cigarette Smoke-induced acute lung injury”, Vascular Biology Center Research Seminar Series, Medical College of Georgia at Augusta, February 17, 2021.

Invited Leader, Mock Study Section, Association for Clinical Translational Science, April, 2021.

Invited Speaker: “Master Clinicians:Interesting Cases” American Thoracic Society International Conference, May 17, 2021.

Invited Poster, “Strain-dependent differences in global lung gene expression in double hit smoking and LPS mouse model of ALI,” Aspen Lung Conference, September 14, 2021

2022:

Invited Speaker, Cigarette Smoke is a Risk Factor for Acute Respiratory Distress Syndrome,” American Clinical and Climatological Society, March 27, 2022

Invited Leader, Mock Study Section, Association for Clinical Translational Science, April 21, 2022.

Invited Speaker: “Master Clinicians:Interesting Cases” American Thoracic Society International Conference, May 16, 2022.

Invited Speaker: “A Biostatistician is the Clinical Investigator’s Best Friend” (with Christopher Schmid, PhD), West Virginia Clinical Translational Science Institute PI Academy, September 22, 2022.

Invited Speaker, The Pulmonary Circulation at Vanderbilt: Decades of Progress. “Basic Mechanisms of Pulmonary Vascular

Disease”, October 27–28, 2022

Session Chair and Invited Speaker, NHLBI Workshop on Mitochondria in the Pathogenesis of Lung and Sleep Disorders. “Where there’s smoke, there’s fire: Cigarette smoke primes for acute lung injury likely via impairment of mitophagy flux.” December 1-2, 2022.

2023:

Invited Leader, Mock Study Section, Association for Clinical Translational Science, April 19, 2023.

#### LOCAL PRESENTATIONS

1987:

Medical Grand Rounds, Providence VA Medical Center, November, 1987, "ARDS".

Section of Biochemical Pharmacology, Brown University, Research Seminar, "Endothelial Cell-Neutrophil Interactions", November 6, 1987.

1988:

Department of Medicine Research Seminar, Brown University, "Endothelial Cell-Leukocyte Interactions: Possible Role in Vascular Injury", March 24, 1988.

Board Review Course in Internal Medicine, Brown University, 1988, 1989.

Featured Faculty Speaker, Medical Research Day, Brown University, "Studies on the Mechanisms of Acute Lung Injury", April 22, 1988.

Medical Grand Rounds, Charlton Memorial Hospital, Fall River, Mass., "Adult Respiratory Distress Syndrome", October 18, 1988.

Medical Grand Rounds, Providence VA Medical Center, "Tuberculosis in the 1990's", October 4, 1988.

1989:

Medical Grand Rounds, The Rhode Island Hospital, "ARDS", June 14, 1989.

Medical Grand Rounds, Providence VA Medical Center, "Cytokines and the Sepsis Syndrome", September 12, 1989.

1990:

Medical Grand Rounds, Providence VA Medical Center, "Pathogenesis and Treatment of Pulmonary Hypertension", September 11, 1990.

1991:

Association of Women Faculty Meeting, Brown University, "Fellowship Training", October 11, 1991.

1994:

Research Conference, RI Blood Center, "Effect of Extracellular ATP on Neutrophil Adhesion to Endothelial Cells", April 26, 1994.

1995:

Medical Grand Rounds, Providence VA Medical Center, "New Therapies for Acute Respiratory Failure", January 11, 1995.

Speaker, "Promotions", Faculty Development Workshop, Brown University School of Medicine, June 14, 1995.

Featured Speaker, Brown University Department of Medicine First Annual Research Forum, "Extracellular Nucleotides: Pro-Inflammatory Mediators", June 8, 1995.

Medical Grand Rounds, Providence VA Medical Center, "Cor Pulmonale", November 9, 1995.

1997:

Speaker, "Promotions", Faculty Development Workshop, Brown University School of Medicine, March 27, 1997.

1998:

Speaker, Critical Care Medicine Course, Sponsored by Rhode Island Hospital, 5/15/98

Research Seminar, "Mechanisms of ATP and Adenosine-Induced Endothelial Cell Apoptosis", Department of Molecular Pharmacology, Physiology, and Biotechnology, Brown University, 11/6/98.

Speaker, Pulmonary Research Symposium in Honor of Charles Kuhn, "Thirty Years of Research on Acute Lung Injury", Brown University School of Medicine, December 11, 1998.

1999:

Speaker, Faculty Development Workshop, Brown University School of Medicine, January 21, 1999.

Speaker, "Promotions at Brown University", Brown University School of Medicine Emergency Medicine Physician Retreat, October 25, 1999.

2000:

Speaker, "Faculty Development Workshop" Brown University School of Medicine, March 30, 2000.

Speaker, "Coagulation and ARDS", Critical Care Update, Sponsored by the Division of Pulmonary and Critical Care Medicine at Brown University School of Medicine, June 2, 2000.

Organizer, "Mechanics of the Respiratory System", A Symposium in Honor of Frederic Hoppin, MD. Brown University School of Medicine, June 16, 2000.

Speaker, "ARDS: Bench to Bedside", Grand Rounds, Department of Medicine, Memorial Hospital of Rhode Island, September 6, 2000.

Speaker, "ARDS and Coagulation Abnormalities", American College of Chest Physicians, New England Regional meeting, September 27, 2000.

Panel Member, "Doctor to Parent", Brown Medical School Parents' Weekend, October 21, 2000.

2002:

Speaker, "Faculty Development Workshop" Brown University School of Medicine, March 25, 2002.

Speaker, "What you need to know about asthma", National Coalition of 100 Black Women, Providence, RI, April 20, 2002.

Speaker, "Senior Women at Brown", Senior Women Faculty Dinner, Brown Medical School, June 6, 2002.

Speaker, "Clinician's Approach to Research in Lung Cell Biology," Undergraduate Summer Research Day, Brown Medical School, July 31, 2002.

2003:

Speaker, "The Reviewing Process and How to Respond to a Review", Grantsmanship Workshop, Brown Medical School, January 15, 2003.

Speaker, "Carboxymethylation and Endothelial Cell Function," Surgery Department Research Seminar, February 18, 2003.

Speaker, "Promotions: All you need to know about promotions at Brown", Workshop, Brown Medical School, April 2, 2003.

Speaker, "What you need to know about COPD", National Coalition of Black Women, Providence, RI, October 4, 2003.

2004:

Speaker, "The Reviewing Process and How to Respond to a Review", Grantsmanship Workshop, Brown Medical School, January 2004.

Speaker, "Promotions at Brown", New Faculty Breakfast, Brown Medical School, September 15, 2004.

Speaker, "Promotions at Brown", Pediatrics Emergency Medicine, September 28, 2004.

Speaker, "Promotions at Brown," Pathology Teaching and Research Rounds, October 13, 2004.

Speaker, "Planning for Your Professional Development", Women in Medicine, November 11, 2004.

2005:

Speaker, "The Reviewing Process and How to Respond to a Review", Grantsmanship Workshop, Brown Medical School, January 2005.

Speaker, "Promotions at Brown", Brown Medical School, March, 2005.

2006:

Speaker, "Promotions at Brown", Brown Medical School, February, 2006.

Speaker, "Grantsmanship". Brown Medical School, April, 2006.

Speaker, "Getting Women Promoted", Center of Excellence in Women's Health, Brown Medical School/Women and Infants Hospital, September 13, 2006.

Speaker, "Advancing from Associate Professor to Professor", Women in Medicine Program, Brown Medical School, September 27, 2006.

Speaker, "Update in COPD", Providence VA Medical Center, October 5, 2006.

2007:

Speaker, "Grant Review Process and How to Respond to a Review", "Career Development Grants (MDs)", January 18, 2007.

Speaker, "Leadership Lessons", Senior Women in the School of Medicine, The Warren Alpert Medical School of Brown University, October 4, 2007.

2008:

Speaker, "PI 101: Key advice for the newly independent investigator and those who hope to become independent investigators". The Warren Alpert Medical School of Brown University, January 28, 2008.

Speaker, Update in Internal Medicine Series, "Cardiovascular Consequences of Obstructive Sleep Apnea", Providence VA Medical Center, February 1, 2008.

Speaker, Career Development Awards, "Grantsmanship", The Warren Alpert Medical School of Brown University, May 22, 2008.

2009:

Speaker, Update in Internal Medicine, Providence VA Medical Center, "Pulmonary Hypertension", May 1, 2009.

Speaker, Update in Internal Medicine, Providence VA Medical Center, "Lung Cancer", September 4, 2009.

2010:

Panelist. "Grant-Writing Workshop". Brown Medical School, December 1, 2010.

2011: Panelist: Biomed Women Senior Faculty Advancement Program. March 9, 2011.

Speaker, Medical Grand Rounds, Rhode Island Hospital, "New Ideas in Pulmonary Arterial Hypertension", June 14, 2011

2012:

Update in Internal Medicine, Providence VA Medical Center, "Update in Pulmonary Aspects of Scleroderma", April 6, 2012

Panelist, Biomed Faculty Promotions Workshop, "Research Scholar Track", April 11, 2012

Speaker, Office of Women in Medicine Workshop, "Associate Professor to Professor Promotion", October 3, 2012

2013:

Moderator, Promotions Workshop, Office of Women in Medicine and Science, Brown Medical School, May 8, 2013

Keynote Speaker, Haffenreffer Resident Award Ceremony, The Rhode Island Hospital, "Contributions of the VA to Medical Education", May 14, 2013

Panel member, "Leaning in together", Office of Women in Medicine and Science, Brown Medical School, October, 2013.

2014:

Moderator, Career Development Workshop, Office of Women in Medicine and Science, Brown Medical School, June 5, 2014

2016:

CPC Speaker, Internal Medicine Clerkship, Brown Medical School, October 7, 2016

Speaker, "Environmental Predispositions to Developing Acute Lung Injury", Brown Pulmonary/Critical Care Research Conference, October 31, 2016

2017:

Panel member, "Grant Reviewing", Office of Women in Medicine and Science, Brown Medical School, June 15, 2017.

Speaker, "Timelines for Promotion and Leadership for Women in Medicine and Science", Brown Medical School, December 14, 2017.

2018:

Speaker, "Brown Basics", Pediatrics Leadership, Hasbro Children's Hospital, December 7, 2018.

2019:

Speaker, "Effect of Cigarette Smoking on Lung Endothelial Cell Injury", Stem Cells and Aging COBRE, Jan 28, 2019.

Speaker, "Managing a research career in a busy clinical department", Women's Reproductive Health Research (WRHR) Career Development (K12) program, Women and Infants Hospital, June 25, 2019.

2020:

Speaker, INBRE Lecture series, University of Rhode Island, "CPVB COBRE and Endothelial Injury", May 28, 2020.

Speaker, "Environmental Priming for ARDS", Pathology Grand Rounds, Alpert Medical School of Brown University, May 14, 2020.

Speaker, "Providence City Council Panel for Lung Cancer Awareness Month, November 23, 2020

2023: Panel Discussant, American Physician-Scientist Association meeting, March 4, 2003.

### UNIVERSITY TEACHING ROLES

#### COURSES

Respiratory Pathophysiology, Biomed 281, Lecturer and Seminar Leader, 1987-Present

Special Topics in Respiratory Physiology, Biomed 209, Seminar leader, 1988, 1990

Seminar, Research Topics in Pathobiology, Biomed 285, 1995-2009

Lecturer, Systemic Pathology, Biomed 279, 2000.

Lecturer, Special Topics in Respiratory Physiology, 2004-2012

Lecturer, Biomed 284, Cellular Pathology, 2008-2009

### CLINICAL TEACHING

Preceptor, Medicine Clerkship for Third Year Students, 1989-2002

Preceptor, Physical Diagnosis Course for Second Year Students, 1989-90

RESEARCH TRAINING GRANTS PARTICIPATION

Training Faculty, Graduate Program in Pathobiology, Brown University School of Medicine, 1990-Present

Training Faculty, Minority Short-Term Training Grant, NHLBI, 1992-Present

Training Faculty, Trauma and Inflammation Research Training Fellowship, Brown Medical School, 2004-Present

Executive Committee and Training Faculty, Alpert Medical School Summer Research Program, T35 HL094308, 2009-Present

Faculty Mentor, Stem Cell Biology COBRE, P20 RR025179, 2009-Present

Faculty Mentor, Computational Biology of Human Disease, P20 GM109035, 2016-2019

Multi-PI, Executive Committee, and Training Faculty, Brown Respiratory Research Training Program, 2017-Present

OTHER

Pathobiology Research Conference Series Co-Chair, 2000

RESEARCH TRAINEES

	Trainee (Predoc/ Postdoc)	Training Period	Institution Date & Type Of Degree Awarded	Title of Research Project	Current Position or Source of Support
Past Trainees Post-Docs	Kyle Fuchs, MD, Pulmonary fellow	1979-80	MD, Boston University	Pregnancy and Lung Vascular Reactivity	Practice, Portland, Oregon
	Nicholas Hill, MD, Pulmonary fellow	1980-82	MD, Harvard	Acute Lung Injury and Vascular Reactivity	Professor of Medicine, Tufts University School of Medicine
	Richard O'Brien, MD, Pulmonary fellow	1980-82,	MD, Guadalajara	Acute Lung Injury and Endothelial Cell Metabolic Function	Associate Professor of Medicine, University of Colorado School of Medicine
	Ruben Corral, MD, Pulmonary fellow	1982-84	MD, Mexico City	Acute Lung Injury and Chylomicron Metabolism	Practice, Tijuana, Mexico
	Harrison Farber, MD, Pulmonary fellow	1982-84 84	MD, Brussels	Endothelial Cell Injury and Leukocyte Chemoattractant Production	Professor of Medicine, Boston University School of Medicine
	Marta Render, MD, Pulmonary fellow	1983-85,	Marta Render, MD, Pulmonary fellow, 1983	Endothelial Cell Proliferation and Neutrophil Adhesion	Professor of Clinical Medicine, University of Cincinnati School of Medicine, Assistant Chief of Medicine, Cincinnati VA Medical Center.

	Emmett Eby, MD, Pulmonary fellow	1987-88,		Pulmonary Hypertension in the Elderly	Practice, Wareham, Massachusetts
	Joseph Meharg, MD, Pulmonary fellow	1989-91		Endothelial Cell Injury and Na/K ATPase Function	Director of MICU, Roger Williams General Hospital, Assistant Professor of Medicine, Boston University School of Medicine.
	Alice Alvarez Bonitati, MD, Pulmonary fellow	1990-91	MD, Dartmouth	Effect of Endotoxin on Endothelial Cell Ecto-ATPase Activity	Staff Physician, Pulmonary Division, The Rhode Island Hospital, Clinical Associate Professor of Medicine, Brown University School of Medicine
	Ellen Clarke, MD, Pulmonary fellow	1991-93		Endothelial Cell Injury and Platelet Activation	Practice, Fairfax, VA
	Annie Lin Parker, MD, Pulmonary fellow	1992-94		ATP and Neutrophil/Endothelial Cell Adhesion	Associate Professor of Medicine, Brown University School of Medicine
	Amos Charles, MD, Pulmonary fellow	1992-94	MD, Ross University	Effect of Endotoxin on Endothelial Na/K ATPase	Clinical Associate Professor of Medicine, Brown Medical School
	Laura Likar, MD, Pulmonary fellow	1993-95		ATP and Endothelial Cell Apoptosis; CPAP Compliance	Practice, Santa Cruz, CA
	Winnie Lin, PhD	Sabbatical leave 9/95-5/96		ATP and Endothelial Cell Apoptosis	Assistant Professor, Chemistry Department, University of Connecticut
	Arjun Karki, MD	1997-98	Tributahn University	Inhaled Corticosteroids and COPD	Vice Chancellor, Patan Academy of Health Sciences, Kathmandu, Nepal
	Sonchai Hiranniramol, MD, Pulmonary Fellow	1999-2001	MD, Prince of Songkla, Thailand, 1989	Effect of Inhaled Corticosteroids in COPD	Practice, Bangkok, Thailand
	Elizabeth Harrington, PhD	1997-98	Hahnemann University, PhD, 1993	ATP-Induced Apoptosis	Professor of Medicine, Brown U, NIH HL 67795 VA Merit Review



	Patricia Russo-Magno, MD	1998-99	Brown University, MD, 1990	Compliance with CPAP in Sleep Apnea	Clinical Assistant Professor of Medicine, Brown Medical School
	Kristina Kramer, MD	2000-2002	MD, Medical College of Pennsylvania, 1996	Adenosine-induced endothelial apoptosis	Practice, Walnut Creek, California
	Qing Lu, PhD	2002-03	Chinese Academy of Sciences, 1999, PhD	Small GTPases and endothelial monolayer permeability	Program Officer, NHLBI, Parker B. Francis, ALA, ATS, NIH RO1 Research grants
	Daniel Sousa, MD, Pulmonary fellow	2003-04	MD, University of Vermont, 1997	Lung Cancer	Practice, Fall River, MA
	Kevin Martin, MD	2004-06	MD, University of Rochester, 2000	Circulating Endothelial Cells and OSA	Assistant Professor of Medicine, UMass, Worcester, Mass
	Matthew Jankowich, MD	2005-07	Ohio State U, 1999, MD	GRP94 and Endothelial Cell Apoptosis	Assistant Professor of Medicine, Brown, Dept of Medicine Research Grant
	Pavlo Sakhatsky, MD	2010-2014	MD, Bulkovinian Medical Academy, Ukraine, 2000	Smoke-Induced Endothelial Cell Injury	Practice, Florida
	Gustavo Gabino, MD	2012-2013	MD, University of Guayaquil, Ecuador, 2003	Smoke-Induced Alterations in tubulin acetylation	Practice, Texas
	Fatima Zeba, MD	2018-2021	MD, Manipal Academy of Higher Education, Karnataka, India	Prognostic Markers in Combined Pulmonary Fibrosis and Emphysema	Pulmonary/Critical Care Fellow, Dartmouth Medical School
	Vadim Shteyler, MD	2020-21	MD, Harvard Medical School, 2016 RI Hospital, residency	Pulmonary Hypertension in IL-13 Transgenic Mice	Fellow, Pulmonary/CC Medicine, UCSF
Junior Faculty Career Development Award Mentees					
	Elizabeth Harrington, PhD	2000-2004	Hahnemann University, PhD, 1993	VA Career Development Award: PKC $\delta$ and Acute Lung Injury	Professor of Medicine, Brown University
	Qing Lu, DVM, PhD	2004-10	Chinese Academy of Sciences, 1999, PhD	ATS, Parker B. Francis Fellowship: TGF- $\beta$ 1 and Endothelial	Associate Professor of Medicine, Brown University;

				Monolayer Permeability	Program Officer, Division of Lung Diseases, NHLBI
	Joanne Lomas-Neira, PhD	2013-18	PhD, University of Rhode Island	P20: Effects of Angiopoetin on Shock-Induced Acute Lung Injury	Faculty, Salve Regina, University
	Won-Kyung Cho, MD	2014-17	MD,	K08: Interleukin-13-mediated mechanisms of pulmonary vascular remodeling	Clinical Professor, ASAN Medical Center, Seoul, Korea
	Amanda Jamieson, PhD	2015-18	PhD, UC-Berkeley	P20: Tolerance of Viral/Bacterial Co-infections	Associate Professor, Brown University
	Patrycja Dubielecka, PhD	2016-20	PhD, University of Wroclaw, Poland	P20: Interrogating the Role of Abelson Interactor 1 in Age-Related Myelofibrosis	Associate Professor, Brown University
	Emine Yalcin, PhD	2021-22		VA Career Development Award: "Role of Dysregulated Sphingolipid Metabolism in Alcohol- and Cigarette Smoke-Induced White Matter Degeneration"	Assistant Professor, Brown University
	Nancy Jao, PhD	2021-22	PhD, Northwestern University	K01: "Effects of menthol cigarettes on biobehavioral mechanisms"	Assistant Professor, Rosalind Franklin University, Chicago, Ill
Past Trainees, Pre-Docs					
	Damani Piggott	Summer, 1994	Brown University Leadership Alliance Program; BA, 1997, Morehouse College, Atlanta, Georgia	Effect of Hypercarbia on Endothelial Cell Carbonic Anhydrase	Yale University School of Medicine, MD, PhD, 1997. Infectious Diseases, Johns Hopkins U. Associate Professor of Medicine, Johns Hopkins, K08
	Karen Heins	Summer, 1996	BS, 1998, Mount Holyoke College	Muc1 and PMN Adhesion to Bronchial Epithelial Cells	Unknown
	Chad Stockham,	Summer, 1997	BS, 1999, Brown University	PMN Adhesion to Endothelial Cells	Unknown
	Zarixia Zavala-Ruiz	Summer, 1997	PhD, MIT,	ATP and PMN Adherence	Assistant Professor, U Puerto Rico;

					Director, Scientific Programs, HHMI/Janelia Campus
	Gajarah Ballard	Summer, 1998	BA, U North Carolina,	Adenosine and Focal Adhesion Kinase	MD, U North Carolina
	Montier Hall	Summer, 1999	BA, Delaware State	Adenosine and Endothelial Apoptosis	Unknown
	Eileen Wu	Summer, 1998	BS, 2000, Brown University		Unknown
	Caroline Marcus	UTRA, Summer, 2000	BS, 2001, Brown University	Focal Adhesion and Endothelial Cells	Unknown
	Noelle Hutchins	Summer, 2002	BA, Claflin U	Endothelial Cells and Apoptosis	PhD, Brown Pathobiology Program; Associate, Omega Funds, Life Science VC
	Megan Garber	Jan/03-June/03		Endothelial Cell Apoptosis	PhD, Brown Pathobiology Program
	Gregory Radin	Summer, 2008	MD, Brown Medical School Pulmonary/CC fellow, Boston University	Prenylation and lung edema	Assistant Professor of Medicine, University of Utah School of Medicine
	Melanie Ortiz	Summer, 2009	U Puerto Rico	Cigarette Smoke and Endothelial permeability	Undergraduate, U Puerto Rico
	Paul Shamirian	Summer, 2011	Brown U	Adenosine and apoptosis	Dentist, Private Practice, Warwick, RI
	Stephanie Rivera Morales	Summer, 2012	U Puerto Rico	CS and HDAC6	Undergraduate, U Puerto Rico Leadership Alliance, summer student, 2012
	Rajsekhar Basak	Summer, 2013	CCNY	Acrolein and endothelial barrier functions	Graduate student, Chemistry, Yale University Leadership Alliance summer student, 2013
	Mahogany Oldham	Summer, 2015	Malone University	Acrolein and endothelial cells	Medical student, University of Toledo College of Medicine and Life Sciences Leadership Alliance, summer student, 2015
	Alexander Weingart	Summer, 2017	University of Vermont	Acrolein and inflammasome formation	PhD Program, St. Jude's Hospital, Leadership Alliance, summer student, 2017

BROWN THESIS COMMITTEES

Elizabeth Lavigne, Thesis Committee, PhD, Brown University

Akua Owusu-Sarfo, Thesis Committee, PhD, Brown University, 2006-2009

Elizabeth Bartley Hagan, Chair, Thesis Committee, PhD, Brown University, 2007-2009

Allawzi Ayed, Thesis Committee, PhD, Molecular Pharmacology Physiology and Biotechnology, 2013-2016

Mary Machado, Thesis Committee, PhD, Bioengineering, 2016

Gregory Serpa, Thesis Committee, Molecular Microbiology and Immunology, 2017-2021

CURRENT RESEARCH SUPPORT

U54 GM115677

“Rhode Island Center for Clinical Translational Science”

PI: Sharon Rounds

Agency: NIGMS

Annual Direct Costs (Core): \$2,747,138

Period of support: 8/1/2021-7/31/2026.

The goal of this project is to enhance clinical and translational research in Rhode Island.

T32 HL 134625

“Brown Respiratory Research Training Program”

Contact PI: Elizabeth Harrington

Agency: NHLBI

Annual Direct Costs:

Period of Support: 2/1/22-1/31/27

Role on Grant: Multi-PI

The goal of this training grant is to train physicians and scientists in research in respiratory diseases.

HL148727 (Choudhary)

“Role of anoctamin-1 in pulmonary arterial hypertension”

Agency: NHLBI

Annual Direct Costs: \$361,966

Period of support: 06/29/19-06/30/23

Role: Co-investigator

The goal of this research is to determine the mechanism of the effect of anoctamin-1 on endothelial function in PAH.

VA Merit Review (Rounds)

“Effect of PDE5 inhibitor on respiratory symptoms in COPD complicated by pulmonary hypertension

Role in grant: Contact PI

4/1/23-3/31/28

The goal of this study is to determine if tadalafil improves dyspnea in veterans with COPD complicated by pulmonary hypertension.

Pending: Percentile: 2.3

PREVIOUS RESEARCH SUPPORT

1P20GM103652-01

“Endothelial Injury and Repair: CardioPulmonary Vascular Biology COBRE”

Agency: NIGMS

Multi-PI: Sharon Rounds/Elizabeth Harrington

Annual Direct Costs: \$1,500,000 per year

Period of support: 7/20/18-5/31/23

The goal of this Center grant is to improve understanding of the pathogenesis and treatment of pulmonary and cardiovascular diseases.

University Hospital General Research Support Grant  
"Pulmonary Vascular Reactivity in Pregnancy"  
Principal Investigator: Sharon Rounds  
Annual Direct Cost: \$5000  
Period of Support: 8/1/79-3/31/80

BUSM Biomedical Research Support Grant  
"Pulmonary Vascular Reactivity in Pregnancy"  
Principal Investigator: Sharon Rounds'  
Annual Direct Cost: \$2400  
Period of Support: 1/1/79-12/31/80

University Hospital General Research Support Grant  
"Pulmonary Vascular Reactivity after Acute Lung Injury"  
Principal Investigator: Sharon Rounds  
Annual Direct Costs: \$5000  
Period of Support: 10/1/80-3/31/81

American Heart Association, Massachusetts Affiliate, Grant-in-Aid  
"Structure-Function Correlation of Endothelial Cell Injury"  
Principal Investigator: Sharon Rounds  
Annual Direct Costs: \$8500  
Period of Support: 3/1/80-2/28/81

American Lung Association, E.L. Trudeau Scholar Award  
Principal Investigator: Sharon Rounds  
Annual Direct Costs: \$20,000  
Period of Support: 7/1/81-6/30/84

American Heart Association, Grant-in Aid  
"Endothelial Cells and Leukocyte Chemotaxis"  
Principal Investigator: Sharon Rounds  
Annual Direct Costs: \$29,885  
Period of Support: 7/1/82-6/30/85

National Heart, Lung, and Blood Institute, Clinical Investigator Award,  
HL 00913  
"Response of the Pulmonary Endothelium to Injury"  
Principal Investigator: Sharon Rounds  
Annual Direct Costs: \$45,500  
Period of Support: 7/1/81-6/30/86

Veterans Administration Research Advisory Group.  
"Endothelial Protective Mechanisms"  
Principal Investigator: Sharon Rounds  
Annual Direct Costs: \$21,000  
Period of Support: 10/1/88-4/1/89

National Heart, Lung, and Blood Institute RO-1 HL34009.  
"Modulation of PMN Adherence by Endothelial Cells"  
Principal Investigator: Sharon Rounds  
Effort: 30%  
Annual Direct Costs: \$92,307  
Period of Support: 12/1/85- 4/1/90

Veterans Administration Merit Review Grant  
"Endothelial Protective Mechanisms"  
Principal Investigator: Sharon Rounds  
Effort: 20% of VA Effort

Annual Direct Costs: \$42,500  
Period of Support: 4/1/89-3/30/92

VA Merit Review  
"Endothelial Cell Purine Metabolism and Cell Injury"  
Principal Investigator: Sharon Rounds  
Effort: 20% of VA Effort  
Annual Direct Costs: \$59,300  
Period of support: 4/1/92-3/30/95

NHLBI, RO-1 HL34009  
"Modulation of PMN Adherence by Endothelial Cells"  
Principal Investigator: Sharon Rounds  
Effort: 25% of Brown University Effort  
Annual Direct Costs: \$109,208 per year  
Period of support: 7/1/91-6/30/96

Cystic Fibrosis Foundation  
"Extracellular Nucleotides and PMN Adhesion"  
Principal Investigator: Sharon Rounds  
Effort: 5% of Brown University Effort  
Annual Direct Costs: \$30,000 per year  
Period of Support: 5/1/96-4/30/99

VA Merit Review  
"Effect of Nucleotides on Lung Endothelial Cells"  
Principal Investigator: Sharon Rounds  
Effort: 20% of VA Effort  
Annual Direct Costs: \$99,000 per year  
Period of Support: 10/1/96-9/30/00

VA/DoD Collaborative Research Grant in Combat Casualty and Wound Repair  
"Endothelial Cell Signalling and Apoptosis"  
Principal Investigator: Sharon Rounds  
Effort: 20% of VA Effort  
Annual Direct Costs: \$99,000 per year  
Period of Support: 10/1/98-9/30/01

NHLBI T35 HL07725  
Short-Term Training Grant for Minority Students  
Director: Sharon Rounds  
Annual Direct Costs: \$32,500  
Period of Support: 1999-2001

NHLBI RO1 64936  
"Focal Adhesion Complexes and Lung Endothelial Apoptosis"  
Principal Investigator: Sharon Rounds  
Effort: 20% of Brown University Effort  
Annual Direct Costs: \$200,000 per year  
Period of Support: 4/1/00-3/31/06

NIH T35 HL067704  
Short-Term Training for Minority Students  
Training Director: Sharon Rounds  
Effort: 5% of Brown University Effort  
Annual Direct Costs: \$52,195  
Period of Support: 4/1/01-3/31/06

VA Merit Review  
"RhoA GTPase Methylation and Endothelial Cell Function"

Principal Investigator: Sharon Rounds  
Effort: 20% VA effort  
Annual Direct Costs: \$140,000 per year  
Period of Support: 10/1/04-3/31/08

NHLBI R25 HL088992  
“Short-Term Training Program to Increase Diversity in Health-Related Research”  
Principal Investigator: Sharon Rounds  
Effort: 5% of Brown University Effort  
Annual Direct Costs: \$90,000 per year  
Period of Support: 6/1/07-3/31/12

NHLBI RO1 64936-06  
“Small GTPases and Lung Endothelial Apoptosis”  
Principal Investigator: Sharon Rounds  
Effort: 20% of Brown University Effort  
Annual Direct Costs: \$200,000 per year  
Period of Support: 4/1/06-2012

Consultant: Sharon Rounds  
Agency: Pfizer  
“The Effects of Obesity on the Comparative Effectiveness of Linezolid and Vancomycin in MRSA Pneumonia” (K. LaPlante)  
This research study will assess antibiotic effectiveness in obese patients.  
9/1/12-8/31/12  
Annual Direct Costs: \$5000  
Effort: 5%/0.6 months

NHLBI T32 HL094300  
“Cardiopulmonary Research Training”  
Effort: 10% Brown Effort  
Co-Training Director with Gideon Koren, MD  
Annual Direct Costs: \$570,727  
Period of Support: 9/1/08-8/31/14  
The purpose of this grant is to train MD and PhD investigators in Cardiovascular and Pulmonary research.

1 P20 RR025179-01  
“Stem Cell Biology: New Directions in Clinical and Basic Research COBRE” (Peter Quesenberry, MD)  
Faculty Mentor: Sharon Rounds, MD  
9/30/09 to 6/30/14  
1.2 calendar months  
Agency: NIH/NCRR  
Annual Direct Costs: \$11,088,327  
The major goal of the project is to develop junior investigators in Rhode Island. This supports core laboratories, seminar speakers, and the work of junior investigators who have not previously been funded.

VA Merit Review  
“Lung Endothelial Cell Apoptosis and Emphysema”  
PI: Sharon Rounds, MD  
Effort: 20% VA Effort  
10/1/10-9/30/14  
Agency: VA BLR&D  
Annual Direct Costs: \$150,000  
The goal of this project is to ascertain the role and mechanisms of endothelial apoptosis in cigarette smoke-induced emphysema.

Deans Emerging Areas of New Science (DEANS).  
“Cigarette Smoke Effects on Mitochondria—From Flies to Lungs”  
PI: David Rand (Co-PI: Sharon Rounds)  
Agency: Alpert Medical School of Brown University

7/1/14-12/30/15

Total Direct Costs: \$80,000

The goal of this grant is to determine the effects of cigarette smoke on mitochondrial and nuclear gene expression changes and effects on endothelial cell and lung mitochondrial function and mitophagy.

P20 GM109035

“Center for Computational Biology of Human Disease”

PI: David Rand

Project 3: Tolerance of Viral/Bacterial Co-Infections”

PI: Amanda Jamieson

Agency: NIGMS

Role on Project: Mentor

Period of support: 6/1/16-3/1/19

The goal of this grant is to develop understanding of computational approaches to pneumonia.

5 I01 CX000908-04

VA Merit Review

“Tadalafil for Pulmonary Hypertension Associated with Chronic Lung Disease”

PI: Ronald Goldstein (Sharon Rounds, co-PI)

Agency: VA Clinical Sciences R&amp;D

Annual Direct Costs: \$150,000 per year

Period of Support: 4/1/13-3/31/19

The goal of this multicenter clinical trial is to determine the effect of tadalafil on pulmonary hypertension associated with COPD.

101 BX002622

VA Merit Review

“Mechanisms of Cigarette Smoke-Induced Acute Lung Injury”

Agency: VA Basic Laboratory R&amp;D

PI: Sharon Rounds

Annual Direct Costs: \$200,000

Period of Support: 7/1/15-6/30/20

The goal of this grant is to understand the mechanism of cigarette smoke-induced endothelial cell injury.

1P20GM119943-01A1 (Peter Quesenberry)

0.48 calendar

“Stem Cell and Aging COBRE”

Agency: NIGMS

Annual Direct Costs: \$12,040

Period of Support: 7/1/17-6/30/22

Role on Grant: Mentor

The goal of this COBRE is to develop understanding of the effects of aging on stem cells and clinical consequences.

5R01HL130230 (Rounds)

05/01/2020-5/31/2022 (NCE)

“HDAC6 Regulates Cigarette Smoke-Induced Endothelial Barrier Dysfunction and Lung Injury”

Agency: NHLBI

Annual Direct Costs: \$200,000

Role of grant: PI

The goal of this research grant is to determine mechanisms of cigarette smoke-induced acute lung injury”