

## *Curriculum vitae*

**Date:** May 30, 2019  
**Name:** Jessica Germond Moreland, M.D.  
  
**Office Address:** 5323 Harry Hines Blvd.  
Dallas, TX.  
75390-9063  
**Work Phone:** 214-456-8460  
**Work E-Mail:** [Jessica.Moreland@utsouthwestern.edu](mailto:Jessica.Moreland@utsouthwestern.edu)  
**Work Fax:** 214-456-6156  
**Place of Birth:** Washington, DC

### **Education**

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
1988-1992	M.D.	Medicine	Vanderbilt University, Nashville, TN
1984-1988	B.S.	Zoology	Duke University, Durham, North Carolina

### **Postdoctoral Training**

Year(s)	Titles	Specialty/Discipline (Lab PI for postdoc research)	Institution
1995-1998	Fellow	Pediatric Critical Care	Vanderbilt University, Nashville, TN
1992-1995	Resident	Pediatrics	Vanderbilt University, Nashville, TN

### **Faculty Academic Appointments**

Year(s)	Academic Title	Department	Academic Institution
2018- Present	Faculty	Molecular Microbiology Graduate Program	UT Southwestern Medical Center Graduate School of Biomedical Sciences, Dallas, TX
2013- Present	Professor	Pediatrics/Critical Care & Microbiology	UT Southwestern Medical Center, Dallas, TX
2013- Present	Division Chief	Pediatrics/Critical Care	UT Southwestern Medical Center, Dallas, TX
2013-2014	Professor	Pediatrics/Critical Care	University of Iowa, Iowa City, Iowa

	(with Tenure)		
2012-2013	Faculty Mentor	Medical Scientist Training Program, Caver College of Medicine	University of Iowa, Iowa City, Iowa
2011-2013	Division Director	Pediatrics/Critical Care	University of Iowa, Iowa City, Iowa
2009-2013	Faculty Mentor	Interdisciplinary Graduate Program in Molecular and Cellular Biology	University of Iowa, Iowa City, Iowa
2006-2013	Associate Professor (with Tenure)	Pediatrics/Critical Care	University of Iowa, Iowa City, Iowa
1998-2006	Assistant Professor	Pediatrics/Critical Care	University of Iowa, Iowa City, Iowa

### **Current Licensure and Certification**

#### **Licensure**

2013 Texas Medical License

1996 Iowa License (Expires 7/1/14)

#### **Board and Other Certification**

1998 Board Certified, Pediatric Critical Care (Recertified 2013)

1995 American Board of Pediatrics

### **Honors and Awards**

Year	Name of Honor/Award	Awarding Organization
2015, 2018	Best Pediatric Specialists in Dallas	Best Doctors, Inc.
2012-2013	Best Doctors in America	Best Doctors, Inc.
2006	Above and Beyond Award	University of Iowa Health Care
2005	Above and Beyond Award	University of Iowa Health Care
2001	Election to Society for Pediatric Research	Society of Pediatric Research
1997	Elliot V. Newman Award	Vanderbilt University Medical Center Research Forum
1995	David Karzon Award	Vanderbilt University, Department of Pediatrics
1995	House Officer Research Award	Society for Pediatric Research
1992	1992 Alpha Omega Alpha	Alpha Omega Alpha Honor Medical Society

1992	Amos Christie Award in Pediatrics	Vanderbilt University Medical School
1988	Graduated with <i>Cum Laude</i> Honors	Duke University
1988	1988 Amos Christie Scholarship	Vanderbilt University Medical School

### **Appointments at Hospitals/Affiliated Institutions**

<u>Current</u>			
Year(s)	Position Title	Department/Division	Institution
2013- Present	Professor	Pediatrics/ Critical Care & Microbiology	Children's Medical Center, Dallas, TX
<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
2013	Professor	Pediatrics/ Critical Care	University of Iowa Children's Hospital, Iowa City, Iowa
2006-2013	Associate Professor	Pediatrics/ Critical Care	University of Iowa Children's Hospital, Iowa City, Iowa
1998-2006	Assistant Professor	Pediatrics/ Critical Care	University of Iowa Children's Hospital, Iowa City, Iowa

### **Major Administrative/Leadership Positions**

Year(s)	Position Title	Institution
2015- Present	Thomas Fariss Marsh, Jr. Chair in Pediatrics	UT Southwestern Medical Center, Dallas, TX
2013-Present	Division Chief Pediatrics, Critical Care	UT Southwestern Medical Center, Dallas, TX
2011-2013	Division Director Pediatrics, Critical Care	University of Iowa, Iowa City, Iowa
2007-2011	Director of Fellowships, Department of Pediatrics	University of Iowa, Iowa City, Iowa
2002-2013	Director, Pediatric Critical Care Fellowship Program	University of Iowa, Iowa City, Iowa

### **Committee Service**

Year(s)	Name of Committee	Institution/Organization
<b><u>UTSW</u></b>		
2018-Present	Marketing, Branding, Communications Work Group, member	UT Southwestern Medical Center, Dallas, TX
2017-Present	Professional Affairs and Ethics Committee, member	UT Southwestern Medical Center, Dallas, TX
2016- Present	UT Southwestern Medical Center Promotion & Tenure Committee, member	UT Southwestern Medical Center, Dallas, TX
2016- Present	Pediatric Group Practice Committee, member	UT Southwestern Medical Center, Dallas, TX
2016- 2018	Emergency Medicine Division Director Search Committee, Chair	UT Southwestern Medical Center, Dallas, TX
2016- 2017	Vice Chair of Pediatric Anesthesiology Search Committee, member	UT Southwestern Medical Center, Dallas, TX
2014-Present	Department of Pediatrics, Promotions Committee, member	UT Southwestern Medical Center, Dallas, TX
<b><u>Hospital</u></b>		
2017- Present	Heart Center Leadership	Children's Medical Center, Dallas, TX
2014-2018	Pharmacy & Therapeutics Committee, member	Children's Medical Center, Dallas, TX
2014-Present	Peer Review Committee, member	Children's Medical Center, Dallas, TX
2013-Present	PICU Leadership Committee	Children's Medical Center, Dallas, TX

### **Professional Societies**

Dates	Society Name, member
2014- Present	American Pediatric Society
2001- Present	Society for Pediatric Research, member
2000- Present	Society for Critical Care Medicine, member
2000- Present	Society for Leukocyte Biology, member
1998-2005	American Thoracic Society, member

1998- Present	American Academy of Pediatrics, member
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### **National Committees**

2018-Present	Pediatric Critical Care Trauma Scientist Development Program, National Advisory Committee
2012- 2017	Society for Critical Care Medicine, Drug Shortages Task Force
2016-2019	Pediatric Academic Societies Programming Committee, American Pediatric Society Representative

### **Grant Review Activities**

Year(s)	Name of Review Committee	Organization
2018	Pediatric Critical Care Scientist Development Program, K12 Grant Funding Grant Review	NIH-NICHD
2017	Ad hoc reviewer, Special Emphasis Panel R13 Support for Conferences and Scientific Meetings	NIH
2012	Ad hoc reviewer, Cellular and Molecular Immunology- A Study Section	NIH
2007	Ad hoc reviewer, Special Emphasis Panel	NIH

### **Editorial Activities**

Year(s)	Journal Name
<b><u>Ad Hoc Reviewer</u></b>	
2010-Present	<i>Free Radical Biology and Medicine</i>
2009-Present	<i>Journal of Immunology</i>
2007-Present	<i>Blood</i>
2006-Present	<i>Journal of Leukocyte Biology</i>
2005-Present	<i>American Journal of Physiology: Lung</i>
2002-Present	<i>Journal of Biological Chemistry</i>
<b><u>Grant Reviews</u></b>	
2012- Present	<i>NIH- ad hoc reviewer Cellular and Molecular Immunology- A Study Section</i>
2007- Present	<i>NIH –ad hoc reviewer special emphasis panel</i>

## **Grant Support**

<b><u>Pending</u></b>	
	Grantor: 1R01HL147113-01
	Title of Project: <i>The Arterial Smooth Muscle-Myeloid Axis: A Wnt Regulated homeostatic Target in Aneurysmal Remodeling and Arteriosclerosis</i>
	Role (Principal Investigator, Co-Investigator): Co investigator (10%), Principal Investigator (Towler)
	Total amount of award (if multi-year) and dates (direct costs only): \$1,979,797
	(04/01/2019-03/31/2023)
	Grantor: RO1-AI146066-01
	Title of Project: <i>Toll-like receptor signaling in neutrophils and the impact on inflammatory organ dysfunction in children</i>
	Role (Principal Investigator, Co-Investigator): Principal Investigator
	Total amount of award (if multi-year) and dates (direct costs only): \$1,250,000/5 years
	(09/01/2019-08/31/2024)
<b><u>Present</u></b>	Grantor: Center for Translational Medicine: UTSW
	Title of Project: <i>Improving bone health in cystic fibrosis by targeting the neutrophil-bone axis</i>
	Role (Principal Investigator, Co-Investigator): Co-Investigator
	Total amount of award (if multi-year) and dates (direct costs only): \$111,480
	(06/26/2017-04/30/2018)
<b><u>Past</u></b>	Grantor: NIH 1R21AI109127-01
	Title of Project: <i>A novel anti-inflammatory role for the neutrophil NADPH oxidase</i>
	Role (Principal Investigator, Co-Investigator): Principal Investigator
	Total amount of award (if multi-year) and dates (direct costs only): \$275,000.00/2 years
	08/01/14-07/31/17
	Grantor: SPG 2016-007
	Title of Project: <i>The role of neutrophil-based inflammation in development of diabetic ketoacidosis</i>
	Role (Principal Investigator, Co-Investigator): Faculty Mentor
	Total amount (if multi-year) and dates (direct costs only): \$7,950 (11/01/2016-01/31/2017)
	Grantor: NIH P01 AI4462
	Title of Project: <i>Innate immune response to microbial infection</i>

	Role (Principal Investigator, Co-Investigator): Co-Investigator
	Total amount of award (if multi-year) and dates (direct costs only): \$1,200,000.00 08/01/10 – 07/31/15 ( <b>Did not transfer with move to UTSW</b> )
	Grantor: NIH-NIAID 1R01 A1073872-01
	Title of Project: <i>CIC-3 ion transport modulates NADPH oxidase-dependent PMN priming by endotoxin</i>
	Role (Principal Investigator, Co-Investigator): Principle Investigator
	Total amount of award (if multi-year) and dates (direct costs only): \$1,250,000 05/01/08-04/30/13
	Grantor: NIH-NIAID 5R21AI067533-02
	Title of Project: <i>Role of CIC- 3 channels in regulation of cell volume and shape in neutrophils</i>
	Role (Principal Investigator, Co-Investigator): Principle Investigator
	Total amount of award (if multi-year) and dates (direct costs only): \$275,000.00 02/01/06-07/31/08
	Grantor: RG-127-N
	Title of Project: <i>Organism-specific neutrophil-endothelial cell interactions in the pathogenesis of pneumococcal pneumonia</i>
	Role (Principal Investigator, Co-Investigator): Principal Investigator
	Total amount of award (if multi-year) and dates (direct costs only): \$70,000 (07/01/2003-06/30/2005)
	Grantor: NIH-NIEHS 5KO8 ES00378-05
	Title of Project: <i>Neutrophil recruitment in LPS-induced airway disease</i>
	Role (Principal Investigator, Co-Investigator): Principal Investigator
	Total amount (if multi-year) and dates (direct costs only): \$102,870 (07/01/2000-06/30/2005)

### Teaching Activities

Year(s)	Activity
<u>Medical and graduate school didactic and small group teaching</u>	
07/10/2018	Management of Cardiac ECMO-Fellowship Orientation Course, Children's Health, Dallas, TX
09/12/2017	"The Many Faces of MRSA: Still Deadly", Department of Pediatrics, Multidisciplinary Case Conference, UT Southwestern Medical Center
07/07/2017	Cardiac ECMO-Fellowship Orientation Course, Children's Health, Dallas, TX

08/2017	Department of Pediatrics, Pediatric Surgery Fellowship Conference—ECMO Basics and strategies for crisis management, UT Southwestern Medical Center
03/2017	Department of Pediatrics, Fellow teaching conference – Critical Asthma, UT Southwestern Medical Center
12/05/2016	Pulmonary Vascular Biology Work in Progress; <i>“Toll-like receptor trafficking and cellular responses impacted by common SNPs”</i>
10/25/2016	Department of Pediatrics, Multi-Disciplinary Case Conference, UT Southwestern Medical Center, <i>“Precision Medicine and Sepsis.”</i>
09/8/2016	Department of Pediatrics, Infectious Disease Division Research Conference, UT Southwestern Medical Center, <i>“Toll like receptor trafficking and cellular responses impacted by common SNPS”</i>
06/2016	Department of Pediatrics, Fellow teaching conference – Status Asthmaticus, UT Southwestern Medical Center
03/2016	Department of Pediatrics, Pediatric Surgery Fellowship Conference—ECMO Basics and strategies for crisis management, UT Southwestern Medical Center
2015-2016	Department of Pediatrics, Resident teaching conference – Principles of ECMO, UT Southwestern Medical Center
04/2015	Pediatric-Neonatal and Adult ECMO Course, Children’s Health Simulation Center- Dallas, TX.
05/13/14	Department of Pediatrics, Multi-Disciplinary Case Conference, UT Southwestern Medical Center, <u>An 8 week old with high cholesterol and liver failure.</u>
05/09/14	Department of Pediatrics, Pulmonary Vascular Biology Conference, UT Southwestern Medical Center, <u>Neutrophils are primed by TLR2 agonists in a donor-dependent manner.</u>
01/27/10	Department of Internal Medicine, Allergy/Immunology Grand Rounds, <u>Role of Nox2 derived intracellular ROS in neutrophil priming</u>
12/02/09	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Pertussis, and lethal pulmonary hypertension</u>
02/09/09	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>PCP pneumonia</u>
01/11/07	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Eosinophilic Myocarditis</u>
12/15/06	Department of Pediatrics, MSTP Grand Rounds, Faculty Advisor, <u>The Role of Adhesion Molecules in ARDS</u>
11/03/05	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Adherens Junction, Lost your Function</u>
12/02/04	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Ill Humours</u>
05/01/03	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Reye’s syndrome</u>
04/18/03	Department of Pediatrics, Grand Rounds, University of Iowa Hospitals, <u>Disorders of Neutrophil Function: A Molecular Approach</u>
02/14/02	Department of Internal Medicine, Infectious Disease Grand Rounds, University of



	Iowa Hospitals, <u>Kawasaki Disease</u>
10/16/01	Department of Pediatrics, Critical Care Journal Club, <u>Activated Protein C in Sepsis</u>
12/10/99	Department of Pediatrics, Grand Rounds, University of Iowa Hospitals, <u>Respiratory Failure</u>
<u>Dissertation committees</u>	
2018	Rachael Chanin, PhD Student in Molecular Microbiology, Graduate Program, UT Southwestern Medical Center
2014	Jennifer Streeter, MSTP student, PhD, University of Iowa
2014	Jed Rasmussen, PhD student in Microbiology, University of Iowa
2014	Matthew Long, PhD student in Microbiology, University of Iowa
2014	Laura Whitmore, PhD student in Molecular Cell Biology, University of Iowa
2013	Drew Fayram, MS student in Microbiology, University of Iowa
2013	Tyler Ulland, PhD student in Immunology, University of Iowa
2012	Justin Schwartz, MSTP student, PhD, University of Iowa
<u>Medical student rotations</u>	
Spring 2009	Emma Mohr, MSTP Clinical Connections Course
Spring 2005	Grant Schulert, MSTP Clinical Connections Course
Fall 2009	Jennifer Streeter, MSTP Clinical Connections Course
Fall 2007	Sara Alford, MSTP Clinical Connections Course
Fall 2006	Stanley Sedore, MSTP Clinical Connections Course
Fall 2004	Josh Eastvold, MSTP Clinical Connections Course
Spring 2003	Egon Ozer, MSTP Clinical Connections Course
<u>Graduate student trainees</u>	
2011-2014	Laura Whitmore, PhD Student, Molecular Cell Biology, University of Iowa
2002-2005	Jessica Hook, M.S., Masters in Molecular Biology/Research Assistant
<u>Postdoctoral trainees</u>	
2017-Present	Kirstin Henley, MD, Critical Care Medicine Fellow, UTSW Medical Center, Dallas, TX
2015-Present	Blake Nichols, M.D., Assistant Professor of Pediatrics, UTSW Medical Center, Dallas, TX
2010-2013	Melissa Jensen, M.D., Assistant Professor of Pediatrics, Sanford Children's, SD
2009-2012	Jody Huber, M.D., Assistant Professor of Pediatrics, Sanford Children's, SD

2009-2010	Gina South, M.D., Hematology/Oncology Fellow, Denver Children's, CO
2003-2006	A. Paige Volk, M.D., Associate Professor of Pediatrics, UTSW Medical Center, Dallas, TX

### **Invited Lectures**

Year(s)	Title	Location
<b><u>International</u></b>		
September 2016	"Toll-like receptor trafficking and cellular responses are determined by common SNPs," <i>Society of Leukocyte Biology</i> "	Verona, Italy
June 2012	Nox2 protects against the development of inflammatory lung disease and mortality following systemic inflammatory insults. International Symposium "The Neutrophil in Immunity"	Quebec City, QC, Canada
September 2006	<u>Gordon Research Conference on NADPH oxidases - Endotoxin priming of PMNs is mediated by NADPH oxidase derived oxidants and the anion transporter CIC-3</u>	Les Diablerets, Switzerland
October 2004	Anion movement through the channel CIC-3 is required for normal neutrophil migration, phagocytosis, and microbicidal activity. Presented at the Society for Leukocyte Biology	Toronto, Canada
<b><u>National</u></b>		
February 2018	"Research Snapshot Theater" " <i>Subjects with Type 1 Diabetes and Diabetic Ketoacidosis Have Ineffective Neutrophils</i> "	Society of Critical Care Medicine, San Antonio, TX
April 2015	<u>Anti-inflammatory role for Nox2</u>	University of Colorado Denver Anschutz Medical Campus, Denver, CO
January 2014	<u>Society of Critical Care Medicine 2014—Year in Review: Basic Science</u>	San Francisco, CA
January 2014	<u>Society of Critical Care Medicine 2014—An anti-inflammatory function for the neutrophil NADPH oxidase</u>	San Francisco, CA
October 2013	<i>Differential priming responses in neutrophils: a consequence of a common TLR1 polymorphism.</i> Presented at the Society for Leukocyte Biology	Newport, RI
October 2013	<u>The University of Pennsylvania's Institute for Environmental Medicine – Anti-inflammatory functions of NADPH Oxidase 2: critical for homeostasis</u>	Philadelphia, Pennsylvania
June 2013	<u>Gordon Research Conference on Phagocytes – Anti-inflammatory role of Nox2 maintains inflammatory</u>	Waterville Valley, New Hampshire

	<i>balance</i>	
June 2012	<u>University of Minnesota, Department of Pediatrics Grand Rounds</u> - <i>Neutrophil priming: from the bench to the bypass circuit</i>	Minneapolis, MN
June 2011	<u>Gordon Research Conference on Phagocytes</u> - <i>Endotoxin priming elicits generation of intracellular NADPH oxidase-derived ROS into endosomal vesicles, not secondary granules</i> , Davidson College	Davidson, NC
October 2010	<u>Northwestern University Feinberg School of Medicine, Department of Pediatrics</u> - <i>Neutrophil priming: How it turns on, and when to turn it off</i>	Chicago, IL
September 2010	<i>Priming of neutrophils from meningococcemia to cardiopulmonary bypass: when is it necessary?</i>	Phoenix Children's Hospital, Phoenix, AZ
July 2010	<u>SEECMO 2010</u> - <i>ECMO for sepsis</i>	Iowa City, IA
May 2010	<u>Vanderbilt University Department of Pediatrics Grand Rounds</u> - <i>Neutrophil priming: how it turns on, and when to turn it off</i>	Nashville, TN
April 2010	<u>Experimental Biology 2010</u> - <i>Role of the Cl-/H+ antiporter CIC-3 and the NADPH oxidase in endotoxin priming of neutrophils</i>	Anaheim, CA
June 2009	Neutrophil NADPH oxidase is functional in unstimulated cells. Presented at Phagocyte Gordon Conference	Waterville Valley, NH
October 2007	Basal oxidant production by the neutrophil NADPH oxidase. For presentation at the Society for Leukocyte Biology	Cambridge, MA
May 2007	<i>Role of CIC-3 and the NADPH oxidase in neutrophil priming by endotoxin</i>	Cincinnati Children's, Cincinnati, OH
November 2006	Anion transporter CIC-3 modulates NADPH oxidase activity during endotoxin priming of PMNs. Presented at the Society for Leukocyte Biology	San Antonio, TX
June 2005	<u>Gordon Research Conference on Phagocytes</u> - Invited short subject's presentation: <i>LOS priming of neutrophils: a role for oxidants and anion channels</i> ,	Connecticut College
October 2004	Anion movement through the channel CIC-3 is required for normal neutrophil migration, phagocytosis, and microbicidal activity. Presented at the Society for Leukocyte Biology	Toronto, Canada
April 2004	CIC-3 chloride channel is involved in generation of the respiratory burst by stimulated leukocytes. Presented at Experimental Biology meeting	Orlando, FL
June 2003	Organism-specific neutrophil-endothelial cell interactions in response to <i>S. pneumoniae</i> , <i>E. coli</i> , and	Connecticut College, New London, CT

	<i>S. aureus</i> . Presented at the Gordon Conference on Phagocytes	
May 2002	Organism specific variation in neutrophil transmigration to bacterial pathogens	Vanderbilt University, Nashville, TN
April 2002	Neutrophil Transmigration in Response to <i>E. coli</i> and <i>S. aureus</i> involves CD18. Presented at Experimental Biology meeting	New Orleans, LA
March 2000	LPS induced pulmonary neutrophil recruitment, but not airway hyperreactivity is CD11b dependent. Presented at Child Health Research Center	Bethesda, MD
May 1999	TNF- $\alpha$ and IL-1 $\beta$ do not appear to be essential to grain dust induced airway disease. Presented at American Thoracic Society	San Diego, CA
May 1997	Hyperoxia decreases vascular endothelial growth factor (VEGF) mRNA and protein in rat lung epithelium. Presented at the American Thoracic Society Meeting	San Francisco, CA
February 1996	Endothelial cell proliferation: effects of vascular endothelial cell growth factor (VEGF) and hyperoxia. Presented at the ECMO and Advanced Therapies for Respiratory Failure Symposium	Keystone, CO
May 1995	Vascular endothelial cell growth factor (VEGF): cloning of ovine cDNA; constitutive expression in pulmonary artery smooth muscle cells with regulation by hypoxia and dexamethasone. Oral presentation at the Society of Pediatric Research	San Diego, CA
<u>Local/Regional</u>		
March 2019	Extracorporeal Life Support Organization- ECMO Training Course- <u>Cardiac ECMO</u> “ <i>Management of Cardiac ECMO in Children</i> ”	UT Southwestern Medical Center, Dallas, TX
March 2018	Extracorporeal Life Support Organization- ECMO Training Course- <u>Cardiac ECMO</u> “ <i>Management of Cardiac ECMO in Children</i> ”	Children’s Medical Center of Dallas, Dallas, TX
March 2017	Extracorporeal Life Support Organization- ECMO Training Course- <u>Cardiac ECMO</u> “ <i>Management of Cardiac ECMO in Children</i> ”	Children’s Medical Center of Dallas, Dallas, TX
April 2016	Pediatric-Neonatal and Adult ECMO Course/ Cardiac ECMO Course	Children’s Health Simulation Center- Dallas, TX
April 2016	Extracorporeal Life Support Organization- ECMO Training Course- <u>Cardiac ECMO</u>	Children’s Medical Center of Dallas, Dallas, TX
June 2015	UTSW Pediatric Research Retreat: A Novel Anti-Inflammatory Role for Nox2	UT Southwestern Medical Center at Dallas, Dallas, TX
March 2015	Extracorporeal Life Support Organization- ECMO Training Course/ <u>Cardiac ECMO Course</u>	Children’s Medical Center of Dallas, Dallas, TX

October 2014	UTSW Department of Microbiology, <u>Neutrophil Priming by TLR agonists: Role of Common polymorphisms</u>	UT Southwestern Medical Center at Dallas, Dallas, TX
September 2014	UTSW Department of Pediatrics Grand Rounds: <u>The Immune and Inflammatory Balance in Critical Illness</u>	UT Southwestern Medical Center at Dallas, Dallas, TX

## **Bibliography**

### **Peer-Reviewed Publications**

#### **Original Research Articles**

1.	Grubbs TC, Slater E, and <b>Klekamp JG</b> : Hypotensive closed head injuries in children: case report. <i>Air Medical Journal</i> , 1997; 16:108-110.
2.	<b>Klekamp JG</b> , Jarzecka K, Hoover RL, Summar ML, Redmond N, and Perkett EA: Vascular endothelial growth factor is expressed in ovine pulmonary vascular smooth muscle cells <i>in vitro</i> and regulated by hypoxia and dexamethasone. <i>Pediatric Research</i> , 1997; 42:744-749.
3.	Perkett EA and <b>Klekamp JG</b> : Vascular endothelial growth factor expression is decreased in rat lung following exposure to 24 or 48 hours of hyperoxia. <i>Chest</i> , 1997; 114:525-535.
4.	<b>Klekamp JG</b> , Jarzecka K and Perkett EA. Exposure to hyperoxia decreases the expression of vascular endothelial growth factor and its receptors in adult rat lungs. <i>Am J Pathol</i> , 1999; 154:823-831.
5.	Haselton DJ, <b>Klekamp JG</b> , Christman BW, Whitlock JA, and Barr FE: Treatment of a child with diffuse alveolar hemorrhage after bone marrow transplantation with high dose corticosteroids. <i>Crit Care Med</i> , 2000; 28:245-8.
6.	<b>Moreland JG</b> , Fuhrman RM, Wohlford-Lenane CL, Quinn TJ, Benda E, Pruessner JA, and Schwartz DA: TNF- $\alpha$ and IL-1 $\beta$ are not essential to the inflammatory response in LPS induced airway disease. <i>Am J Physiol Lung Cell Mol Physiol</i> , 2001; 280: L173-L180.
7.	<b>Moreland JG</b> , Fuhrman RM, Pruessner JA, and Schwartz DA: CD11b and ICAM-1 are involved in pulmonary neutrophil recruitment in LPS-induced airway disease. <i>Am J Respir Cell Mol Biol</i> , 2002; 27:474-480.
8.	<b>Moreland JG</b> , Bailey G, Nauseef WM, and Weiss JP: Organism-specific neutrophil-endothelial cell interactions in response to <i>E. coli</i> , <i>S. pneumoniae</i> , and <i>S. aureus</i> , <i>Journal of Immunology</i> , 2004; 172: 426-32.
9.	<b>Moreland JG</b> , and Bailey G: Neutrophil transendothelial migration in vitro to <i>Streptococcus pneumoniae</i> is pneumolysin dependent. <i>Am J Physiol Lung Cell Mol Physiol</i> , 2006 May; 290(5): L833-40.

10.	<b>Moreland JG</b> , Davis AP, Bailey G, Nauseef WM, and Lamb FS: Anion channels, including ClC-3, are required for normal neutrophil oxidative function, phagocytosis, and transendothelial migration. <i>Journal of Biological Chemistry</i> , 2006 May 5; 281(18):12277-88.
11.	Femling JK, Cherny VV, Morgan D, Rada B, Davis AP, Czirják G, Enyedi P, England SK, <b>Moreland JG</b> , Ligeti E, Nauseef WM, and DeCoursey TE: The Antibacterial Activity of Human Neutrophils and Eosinophils Requires Proton Channels but Not BK Channels. <i>J Gen Physiol</i> , 2006, 127: 659-672.
12.	Morriss J, <b>Moreland JG</b> , Burkhardt H, and Kao S. Pre-Surgical Evaluation of Interrupted Aortic Arch with 3-Dimensional Reconstruction of CT Images. <i>Ann Thorac Surg</i> , 2007, 84: 299.
13.	<b>Moreland JG</b> , Davis AP, Matsuda JJ, Hook JS, Bailey G, Nauseef WM, and Lamb FS. Endotoxin priming of neutrophils requires NADPH-oxidase generated oxidants and is regulated by the anion transporter ClC-3. <i>Journal of Biological Chemistry</i> , 2007; 282 (47): 33958-67.
14.	Matsuda JJ, Filali MS, Volk KA, Collins MM, <b>Moreland JG</b> , and Lamb FS. Overexpression of CLC-3 in HEK293T cells yields novel currents that are pH dependent. <i>Am J Physiol Lung Cell Mol Physiol</i> , 2008; 294 (1):C251-62.
15.	Volk APD, Heise CK, Hougén JL, Artman CM, Volk KA, Wessels D, Soll DR, Nauseef WM, Lamb FS, and <b>Moreland JG</b> . ClC-3 and ICL <sub>swell</sub> are required for normal neutrophil chemotaxis and shape change. <i>Journal of Biological Chemistry</i> , JBC Papers in Press published on October 7, 2008 as doi:10.1074/jbc.M803141200. <i>J Biol Chem</i> . 2008 Dec 5;283(49):34315-26. doi: 10.1074/jbc.M803141200. Epub 2008 Oct 7.
16.	Lamb FS, <b>Moreland JG</b> , and Miller FJ. Electrophysiology of reactive oxygen production in signaling endosomes. <i>Antioxidants and Redox Signaling</i> , 2009; 11(6): 1335-47.
17.	Drake JM, Strohhahn G, Bair TB, <b>Moreland JG</b> , and Henry MD. ZEB1 Enhances Transendothelial Migration and Represses the Epithelial Phenotype of Prostate Cancer Cells. <i>Molecular Biology of the Cell</i> , 2009; 20(8): 2207-17.
18.	<b>Moreland JG</b> , Hook JS, Bailey G, Ulland, T, and Nauseef WM. Francisella tularensis directly interacts with the endothelium and recruits neutrophils with a blunted inflammatory phenotype. <i>Am J Physiol Lung Cell Mol Physiol</i> , 2009; 296 (6): L1076-84.
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