

Curriculum vitae

Name: Jessica Germond Moreland, M.D.

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Place of Birth: Washington, DC

Education

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

Postdoctoral Training

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

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
1998-2006	Assistant Professor	Pediatrics/Critical Care	University of Iowa, Iowa City, Iowa
2006-2013	Associate Professor (with Tenure)	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
2011-2013	Division Director	Pediatrics/Critical Care	University of Iowa, Iowa City, Iowa
2012-2013	Faculty Mentor	Medical Scientist Training Program, Caver College of Medicine	University of Iowa, Iowa City, Iowa

2013-2014	Professor (with Tenure)	Pediatrics/Critical Care	University of Iowa, Iowa City, Iowa
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

Current Licensure and Certification

Licensure

1996 Iowa License (Expires 7/1/14)

2013 Texas Medical License

Board and Other Certification

1995 American Board of Pediatrics

1998 Board Certified, Pediatric Critical Care (Recertified 2013)

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
1988	Graduated with <i>Cum Laude</i> Honors	Duke University
1988	1988 Amos Christie Scholarship	Vanderbilt University Medical School
1992	1992 Alpha Omega Alpha	Alpha Omega Alpha Honor Medical Society
1992	Amos Christie Award in Pediatrics	Vanderbilt University Medical School
1995	David Karzon Award	Vanderbilt University, Department of Pediatrics
1995	House Officer Research Award	Society for Pediatric Research
1997	Elliot V. Newman Award	Vanderbilt University Medical Center Research Forum
2001	Election to Society for Pediatric Research	Society of Pediatric Research
2005	Above and Beyond Award	University of Iowa Health Care
2006	Above and Beyond Award	University of Iowa Health Care
2012-2013	Best Doctors in America	Best Doctors, Inc
2013	Election to American Pediatric Society	American Pediatric Society

Appointments at Hospitals/Affiliated Institutions

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

Major Administrative/Leadership Positions

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

Professional Societies

Dates	Society Name, member
1998- Present	American Academy of Pediatrics, member
2000- Present	Society for Critical Care Medicine, member

1998-2005	American Thoracic Society, member
2001- Present	Society for Pediatric Research, member
2000- Present	Society for Leukocyte Biology, member
2014- Present	American Pediatric Society

National Committees

2012- Present	Society for Critical Care Medicine, Drug Shortages Task Force
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Grant Review Activities

Year(s)	Name of Review Committee	Organization
2007	Ad hoc reviewer special emphasis panel	NIH
2012	Ad hoc reviewer Cellular and Molecular Immunology-A Study Section	NIH

Editorial Activities

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

Grant Support

<u>Present</u>	<i>Grantor: NIH 1 R21 AI109127-01</i>
	<i>Title of Project: A novel anti-inflammatory role for the neutrophil NADPH oxidase</i>
	<i>Role (Principal Investigator, Co-Investigator):Principal Investigator</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):\$275,000.00</i>

<u>Past</u>	<i>Grantor: NIH P01 AI4462</i>
	<i>Title of Project: Innate immune response to microbial infection</i>
	<i>Role (Principal Investigator, Co-Investigator):Co-Investigator</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):\$1,200,000.00 08/01/10 – 07/31/15 (Did not transfer with move to UTSW)</i>
	<i>Grantor: NIH-NIAID IRO1 A1073872-01</i>
	<i>Title of Project: CIC-3 ion transport modulates NADPH oxidase-dependent PMN priming by endotoxin</i>
	<i>Role (Principal Investigator, Co-Investigator):Principle Investigator</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):\$1,250,000 05/01/08-04/30/13</i>
	<i>Grantor: NIH-NIAID 5R21AI067533-02</i>
	<i>Title of Project: Role of CIC- 3 channels in regulation of cell volume and shape in neutrophils</i>
	<i>Role (Principal Investigator, Co-Investigator):Principle Investigator</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only):\$275,000.00 02/01/06-07/31/08</i>
	<i>Grantor: American Lung Association Project No.: RG-127-N</i>
	<i>Title of Project: Organism-specific neutrophil-endothelial cell interactions in the pathogenesis of pneumococcal pneumonia</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): \$70,000.00 07/01/03 – 06/30/05</i>
	<i>Grantor: Carver Collaborative Pilot, Carver College of Medicine</i>
	<i>Title of Project: Basal Nox activity in neutrophils and endothelial cells regulate resolution of inflammatory response.</i>
	<i>Role (Principal Investigator, Co-Investigator): Principal Investigator</i>
	<i>Total amount of award (if multi-year) and dates (direct costs only): \$50,000.00</i>

Teaching Activities

Year(s)	Activity
<u>Medical and graduate school didactic and small group teaching</u>	
12/10/99	Department of Pediatrics, Grand Rounds, University of Iowa Hospitals, <u>Respiratory Failure</u>
10/16/01	Department of Pediatrics, Critical Care Journal Club, <u>Activated Protein C in Sepsis</u>

02/14/02	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Kawasaki Disease</u>
04/18/03	Department of Pediatrics, Grand Rounds, University of Iowa Hospitals, <u>Disorders of Neutrophil Function: a Molecular Approach</u>
05/01/03	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Reye's syndrome</u>
12/02/04	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Ill Humours</u>
11/03/05	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Adherens Junction, Lost your Function</u>
12/15/06	Department of Pediatrics, MSTP Grand Rounds, Faculty Advisor, <u>The Role of Adhesion Molecules in ARDS</u>
01/11/07	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Eosinophilic Myocarditis</u>
02/09	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>PCP pneumonia</u>
12/02/09	Department of Internal Medicine, Infectious Disease Grand Rounds, University of Iowa Hospitals, <u>Pertussis and lethal pulmonary hypertension</u>
01/27/10	Department of Internal Medicine, Allergy/Immunology Grand Rounds, <u>Role of Nox2 derived intracellular ROS in neutrophil priming</u>
05/09/14	Department of Pediatrics, Pulmonary Vascular Biology Conference, UT Southwestern Medical Center, <u>Neutrophils are primed by TLRZ agonists in a donor-dependent manner.</u>
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>
<u>Dissertation committees</u>	
2012	Justin Schwartz, MSTP student, PhD
2014	Jennifer Streeter, MSTP student, PhD
2014	Jed Rasmussen, PhD student in Microbiology
2013	Drew Fayram, MS student in Microbiology
2014	Matthew Long, PhD student in Microbiology
2014	Laura Whitmore, PhD student in Molecular Cell Biology
2013	Tyler Ulland, PhD student in Immunology
<u>Medical student rotations</u>	
Spring 2003	Egon Ozer, MSTP Clinical Connections Course
Fall 2004	Josh Eastvold, MSTP Clinical Connections Course
Spring 2005	Grant Schulert, MSTP Clinical Connections Course

Fall 2006	Stanley Sedore, MSTP Clinical Connections Course
Fall 2007	Sara Alford, MSTP Clinical Connections Course
Spring 2009	Emma Mohr, MSTP Clinical Connections Course
Fall 2009	Jennifer Streeter, MSTP Clinical Connections Course
<u>Graduate student trainees</u>	
2002-2005	Jessica Hook, M.S., Masters in Molecular Biology/Research Assistant
2011-2014	Laura Whitmore, PhD Student, Molecular Cell Biology, University of Iowa
<u>Postdoctoral trainees</u>	
2003-2006	A. Paige Volk, M.D., Assistant Professor of Pediatrics, University of Iowa
2009-2010	Gina South, M.D., Hematology/Oncology Fellow, Denver Children's, CO
2009-2012	Jody Huber, M.D., Assistant Professor of Pediatrics, Sanford Children's, SD
2010-2013	Melissa Jensen, M.D., Assistant Professor of Pediatrics, Sanford Children's, SD

Invited Lectures

Year(s)	Title	Location
<u>International</u>		
October 2004	Anion movement through the channel ClC-3 is required for normal neutrophil migration, phagocytosis, and microbicidal activity. Presented at the Society for Leukocyte Biology	Toronto, Canada
September 2006	<u>Gordon Research Conference on NADPH oxidases</u> - <i>Endotoxin priming of PMNs is mediated by NADPH oxidase derived oxidants and the anion transporter ClC-3</i>	Les Diablerets, Switzerland
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
<u>National</u>		
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
February 1996	Endothelial cell proliferation: effects of vascular endothelial cell growth factor (VEGF)	Keystone, CO

	and hyperoxia. Presented at the ECMO and Advanced Therapies for Respiratory Failure Symposium	
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
May 1999	TNF- α and IL-1 β do not appear to be essential to grain dust induced airway disease. Presented at American Thoracic Society	San Diego, CA
March 2000	LPS induced pulmonary neutrophil recruitment, but not airway hyperreactivity is CD11b dependent. Presented at Child Health Research Center	Bethesda, MD
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
May 2002	Organism specific variation in neutrophil transmigration to bacterial pathogens	Vanderbilt University, Nashville, TN
June 2003	Organism-specific neutrophil-endothelial cell interactions in response to <i>S. pneumoniae</i> , <i>E. coli</i> , and <i>S. aureus</i> . Presented at the Gordon Conference on Phagocytes	Connecticut College, New London, CT
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 2005	<u>Gordon Research Conference on Phagocytes</u> - Invited short subjects presentation: <i>LOS priming of neutrophils: a role for oxidants and anion channels,</i>	Connecticut College
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
May 2007	<i>Role of CIC-3 and the NADPH oxidase in neutrophil priming by endotoxin</i>	Cincinnati Children's, Cincinnati, OH
October 2007	Basal oxidant production by the neutrophil NADPH oxidase. For presentation at the Society for Leukocyte Biology	Cambridge, MA
June 2009	Neutrophil NADPH oxidase is functional in	Waterville Valley, NH

	unstimulated cells. Presented at Phagocyte Gordon Conference	
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 ClC-3 and the NADPH oxidase in endotoxin priming of neutrophils</i>	Anaheim, CA
July 2010	<u>SEECMO 2010</u> - <i>ECMO for sepsis</i>	Iowa City, IA
September 2010	<i>Priming of neutrophils from meningococemia to cardiopulmonary bypass: when is it necessary?</i>	Phoenix Children's Hospital, Phoenix, AZ
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
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, Davidson College</i>	Davidson, NC
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
November 2012	<u>Pediatric Critical Care Scientist Development Program Annual Retreat</u>	Deer Valley, Utah
June 2013	<u>Gordon Research Conference on Phagocytes</u> – <i>Anti-inflammatory role of Nox2 maintains inflammatory balance</i>	Waterville Valley, New Hampshire
October 2013	<i>Differential priming responses in neutrophils: a consequence of a common TLR1 polymorphism. Presented at the Society for Leukocyte Biology</i>	Newport, RI
October 2013	<u>The University of Pennsylvania's Institute for Environmental Medicine</u> – <i>Anti-inflammatory functions of NADPH Oxidase 2: critical for homeostasis</i>	Philadelphia, Pennsylvania
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

Bibliography

Peer-Reviewed Publications

Original Research Articles

1.	Grubbs TC, Slater E and Klekamp JG : Hypotensive closed head injuries in children: case report. <i>Air Medical Journal</i> , 1997; 16:108-110.
2.	Klekamp JG , 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 Klekamp JG : 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.	Klekamp JG , 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, Klekamp JG , 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.	Moreland JG , Fuhrman RM, Wohlford-Lenane CL, Quinn TJ, Benda E, Pruessner JA and Schwartz DA: TNF- α and IL-1 β 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.	Moreland JG , 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.	Moreland JG , 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.	Moreland JG , and Bailey G: Neutrophil transendothelial migration <i>in vitro</i> to <i>Streptococcus pneumoniae</i> is pneumolysin dependent. <i>Am J Physiol Lung Cell Mol Physiol</i> , 2006 May; 290(5):L833-40.
10.	Moreland JG , 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, Moreland JG , 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, Moreland JG , Burkhart 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.	Moreland JG , 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, Moreland JG , 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, Hougen JL, Artman CM, Volk KA, Wessels D, Soll DR, Nauseef WM, Lamb FS, and Moreland JG . CLC-3 and ICL _{swell} 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.
16.	Lamb FS, Moreland JG , 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, Strohbahn G, Bair TB, Moreland JG , 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.	Moreland JG , 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. <i>This project was performed in my laboratory under my supervision and was funded by the PPG during a previous funding cycle. I designed all the experiments, analyzed the data, and wrote and edited the manuscript.</i>
19.	McCaffrey RL, Schwartz JT, Lindemann SR, Moreland JG , Buchan BW, Jones BD, and Allen LA. Multiple mechanisms of NADPH oxidase inhibition by type A and type B Francisella tularensis. <i>J Leukocyte Biology</i> , 2010; 88 (4): 791-805.
20.	Matsuda JJ, Filali MS, Moreland JG , Miller FJ, and Lamb FS. Activation of ICL _{swell} by TNF- α requires CLC-3-dependent endosomal reactive oxygen production. <i>Journal of Biological Chemistry</i> , 2010; 285 (30): 22864-73.
21.	Volk APD, Barber BM, Goss KL, Ruff JG, Heise CK, Hook JS, and Moreland JG . Priming of Neutrophils and Differentiated PLB-985 Cells by Pathophysiological Concentrations of TNF- α Is Partially Oxygen Dependent. <i>J Innate Immunity</i> , 2011; 3 (3): 298-314.
22.	Lamb FS, Hook JS, Hilkin BM, Huber JN, Volk APD, and Moreland JG . Endotoxin priming of neutrophils requires endocytosis and NADPH oxidase-dependent endosomal reactive oxygen species. <i>Journal of Biological Chemistry</i> , 2012 Apr 6:287(15); 12395-404.
23.	Klesney-Tait J, Keck K, Li X, Gilfillan S, Otero K, Baruah S, Meyerholz DK, Varga S, Knutson CJ, Moninger TO, and Moreland JG , Zabner J, Colonna M. Transepithelial migration of

	neutrophils into the lung requires TREM-1. <i>J Clin Invest</i> , 2013 Jan 2;123(1):138-49.
24.	Whitmore LC, Hilkin BM, Goss KL, Wahle EM, Boggiatto PM, Varga SM, Miller FJ, and Moreland JG . NOX2 protects against prolonged inflammation, lung injury, and mortality following systemic inflammatory insults. <i>Journal of Innate Immunity</i> . Epub ahead of print, 2013 April 27.
25.	Whitmore LC, Goss KL, Newell EA, Hilkin BM, Hook JS, Moreland JG . NOX2 protects against progressive lung injury and multiple organ dysfunction syndrome. <i>Am J Physiol Lung Cell Mol Physiol</i> . 2014 May 2

Reviews, Chapters, Monographs and Editorials

1.	Klekamp JG and Churchwell KB, <u>Diabetic Ketoacidosis in Pediatric Critical Care: the Essentials</u> . JD Tobias, editor, Futura Publishing, Armonk, NY, 1999.
2.	Moreland JG . <u>ROS-containing endosomal compartments: implications for signaling</u> . Editor, P. Michael Conn, PhD., In <i>Methods in Enzymology</i> , in press.
3.	Moreland JG . <u>The Immune System in Critical Illness</u> , in <i>Pediatric Critical Care Medicine: A Systems Approach</i> . Derek Wheeler, Hector Wong, Thomas Shanley editors, Springer Science and Business Media, In Press.

Abstracts

1.	Klekamp JG , Jarzecka K, Redmond N, Obermeier SK, Hoover RL, Summar ML and Perkett EA: Vascular endothelial cell growth factor (VEGF): cloning of ovine cDNA; constitutive expression in pulmonary artery smooth muscle cells with regulation by hypoxia and dexamethasone. <i>Pediatric Research</i> 37: 338A, 1995. Oral presentation at the Society of Pediatric Research, San Diego, CA. May 1995.
2.	Klekamp JG , Jarzecka AK, Lloyd E, Hoover RL and Perkett EA: 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; February 1996.
3.	Klekamp JG , Jarzecka AK, Rinaldo JE, Hoover RL and Perkett EA: Hyperoxia decreases vascular endothelial growth factor (VEGF) mRNA and protein in rat lung epithelium. Presented at the American Thoracic Society Meeting, San Francisco, CA: May 1997.
4.	Klekamp JG , Benda E, Wohlford-Lenane CL, Quinn TJ, Fuhrman R and Schwartz, DA: TNF- α and IL-1 α do not appear to be essential to grain dust induced airway disease. <i>Am J Respir Crit Care Med</i> , 159:A97, 1999. Presented at American Thoracic Society, May 1999.
5.	Klekamp JG , Fuhrman R, Pruessner JA and Schwartz, DA: LPS induced pulmonary neutrophil recruitment, but not airway hyperreactivity is CD11b dependent. <i>Am J Respir Crit Care Med</i> , 161:A845, 2000.
6.	Moreland JG , Bailey G, Weiss JP, Nauseef WM: Neutrophil Transmigration in Response to <i>E. coli</i> and <i>S. aureus</i> involves CD18. <i>The FASEB Journal</i> , 16(4): A690, 2002.
7.	Moreland JG , Bailey G, Nauseef WM, and Weiss JP: Organism-specific neutrophil-endothelial cell interactions in response to <i>S. pneumoniae</i> , <i>E. coli</i> , and <i>S. aureus</i> . Presented at the Gordon

	Conference on Phagocytes; June 2003.
8.	Moreland JG , and Bailey G: Neutrophil transendothelial migration <i>in vitro</i> to <i>S. pneumoniae</i> is partially pneumolysin-dependent. <i>J Leukocyte Biol</i> , supplement 47, 2003.
9.	Moreland JG , Nauseef WM, Davis AP, Bailey G, and Lamb FS: CIC-3 chloride channel is involved in generation of the respiratory burst by stimulated leukocytes. <i>The FASEB Journal</i> , 18:A1158, 2004.
10.	Moreland JG , Davis AP, Nauseef WM, and Lamb FS: Anion movement through the channel CIC-3 is required for normal neutrophil migration, phagocytosis, and microbicidal activity. Presented at the Society for Leukocyte Biology, October 2004. <i>J Leukocyte Biol</i> , supplement 2004: 30.
11.	Davis AP, Lamb FS, Nauseef WM, Bailey G, and Moreland JG : The Anion Channel CIC-3 is Required for Normal Oxidant Production in Neutrophils. Presented at the Society for Leukocyte Biology, October 2004. <i>J Leukocyte Biol</i> , supplement 25, 2004.
12.	Moreland JG , Davis AP, Nauseef WM, and Lamb FS: Anion transporter CIC-3 modulates NADPH oxidase activity during endotoxin priming of PMNs. Presented at the Society for Leukocyte Biology, November 2006.
13.	Moreland JG , AP Davis, and Lamb FS: Basal oxidant production by the neutrophil NADPH oxidase. For presentation at the Society for Leukocyte Biology, October 2007.
14.	Drake JM, Strohbahn G, Varzavand A, Winterwood NE, Moreland JG, Stipp CS, and Henry MD. Transendothelial migration selects for prostate cancer cells with a mesenchymal phenotype and loss of laminin 332 expression. Presented at the AACR, San Diego, CA, April 2008.
15.	Barber BM, Hook JS, Heise CK, Davis AP, and Moreland JG . TNF- α priming of PMNs and differentiated PLB cells is oxygen-dependent. Presented at University of Iowa College of Medicine Research week 2008.
16.	Moreland JG , Davis AP, and Lamb FS. Neutrophil NADPH oxidase is functional in unstimulated cells. Presented at Phagocyte Gordon Conference, Waterville Valley, NH, June 2009.
17.	Huber JN, Barber BM, South GK, Hook JS, Goss KL, Weiss JP, Gioannini TL, and Moreland JM . Proximal Signaling in Endotoxin Stimulated Neutrophil Priming. Midwest Society for Pediatric Research Meeting; Iowa City, IA; October 2010.
18.	Gross EA, Jensen MJ, Hook JS, Hilkin BM, and Moreland JG . Neutrophil Activation During Bacterial Sepsis: A Finely Regulated Process. Research in the Capitol. Des Moines, Iowa. March 2011.
19.	Moreland JG , Hilkin BM, and Hook J. Endotoxin priming elicits generation of intracellular NADPH oxidase-derived ROS into endosomal vesicles, not secondary granules. Presented at Phagocyte Gordon Conference, Davidson College, June 2011.
20.	Huber JN, Hilkin BM, South GK, Hook JS, Goss KL, Weiss JP, Gioannini TL, and Moreland JG . Potency of endotoxin priming is dependent on mode of presentation. Phagocyte Gordon Conference, Davidson College, 2011.
21.	Whitmore LC, Goss KL, Hilkin BM, Wahle EM, Miller FJ, and Moreland JG . NADPH Oxidase 2 is required for Normal Resolution of Systemic Inflammatory Responses. Presented at Society for Leukocyte Biology, Kansas City, September 2011.
22.	Jensen MJ, Gross EA, Hilkin BM, South G, and Moreland JG . Role of p38 MAPK in TNF- α mediated neutrophil priming: a model for chronic inflammatory states. Annual NASPGHAN meeting, Orlando, Florida, October 2011.
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