

Curriculum vitae

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Place of Birth: Cedar Rapids, IA

Education

Year	Degree (Honors)	Field of Study (Thesis advisor for PhDs)	Institution
1996	BA	Biochemistry & Chemistry, <i>Summa Cum Laude</i>	Cornell College, Mt. Vernon, IA
2000	MD	Medicine	University of Iowa College of Medicine, Iowa City, IA

Postdoctoral Training [Include residency/fellowship]

Year(s)	Titles	Specialty/Discipline (Lab PI for postdoc research)	Institution
2000-2003	Resident	Pediatrics	University of Iowa, Iowa City, IA
2003-2006	Fellow	Pediatric Critical Care	University of Iowa, Iowa City, IA

Faculty Academic Appointments

Year(s)	Academic Title	Department	Academic Institution
2006-2008	Associate	Pediatrics	University of Iowa, Iowa City, IA
2008-2015	Assistant Professor	Pediatrics	University of Iowa, Iowa City, IA
2015- present	Associate Professor	Pediatrics	UT Southwestern Medical Center, Dallas, TX

Current Licensure and Certification

Licensure

2000 Iowa Board of Medical Examiners (Expires 2016)
2015 Texas Medical Board (Expires 2016)

Board and Other Certification

2003 National Board of Medicine Examiners
2003 American Board of Pediatrics (Recertified 12/13)
2006 Pediatric Critical Care (Expires 2016)

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
1992	William Fletcher King Scholar	Cornell College, Mt. Vernon, IA
1992-1996	Dean's List – Highest Honors	Cornell College, Mt. Vernon, IA
1992	Tull Award in Humanities	Cornell College, Mt. Vernon, IA
1993	Freshman Chemistry Achievement Award	Cornell College, Mt. Vernon, IA
1994	Class of 1907 Award	Cornell College, Mt. Vernon, IA
1994	McCutcheon Award in Humanities	Cornell College, Mt. Vernon, IA
1994	Shakespeare Award for Outstanding Essay	Cornell College, Mt. Vernon, IA
1995	Pauley Award for Academic Achievement	Cornell College, Mt. Vernon, IA
1995	Yohe Award in Humanities	Cornell College, Mt. Vernon, IA
1995	Analytical Chemistry Award	Cornell College, Mt. Vernon, IA
1995-1996	President's Leadership Council	Cornell College, Mt. Vernon, IA
1995-1996	Mortar Board National Honor Society	Cornell College, Mt. Vernon, IA
1996	Volunteer Service Award	Cornell College, Mt. Vernon, IA
1996	F.G. Brooks Memorial Award in Biology	Cornell College, Mt. Vernon, IA
1996	American Institute of Chemists Award	Cornell College, Mt. Vernon, IA
1996	Phi Beta Kappa	Cornell College, Mt. Vernon, IA
1998	PEO Scholarship for International Study	University of Iowa Healthcare
1999	International Study in Pediatrics	Royal Hospital for Sick Children, Glasgow, Scotland
2003	Above and Beyond Award	University of Iowa Healthcare
2003	Outstanding Pediatric Resident in General Pediatrics	University of Iowa Healthcare
2009	Election to Midwest Society for Pediatric Research	Society of Pediatric Research
2011	Election to Society for Pediatric Research	Society of Pediatric Research

Appointments at Hospitals/Affiliated Institutions

<u>Past</u>			
Year(s)	Position Title	Department/Division	Institution
<u>Current</u>			
Year(s)	Position Title	Department/Division	Institution
2015-present	PICU Medical	Pediatrics/Critical Care	Children's Medical Center

	Director-Legacy Campus		Plano
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Major Administrative/Leadership Positions *[Do not include Professional Society positions]*

Year(s)	Position Title	Institution
2011-2015	Chief Advisor for Pediatrics to the University of Iowa Hospital Incident Commander for Disaster Management	University of Iowa Healthcare
2011-2015	Schwartz Center Rounds Physician Leader and Committee Chairperson	University of Iowa Healthcare
2014-2015	Fellowship Program Director	University of Iowa Healthcare
2015- present	Children’s Medical Center PICU Medical Director-Plano Campus	Children’s Medical Center, Plano, TX

Committee Service *(Member, unless noted otherwise) [Do not include Professional Society positions]*

Year(s)	Name of Committee	Institution/Organization
<u>UTSW</u>		
<u>Hospital</u>		
2000-2003	Pediatric Education Committee	University of Iowa Healthcare
2002-2006	Critical Care Subcommittee	University of Iowa Healthcare
2009-present	Schwartz Rounds Steering Committee	University of Iowa Healthcare
2009-present	Pediatric Palliative Care Group, End of Life Goals Subcommittee, University of Iowa Healthcare	University of Iowa Healthcare
2012-present	Pediatric Residency Clinical Competency Committee	University of Iowa Healthcare
2013-present	Emergency Management Subcommittee Member, University of Iowa Healthcare	University of Iowa Healthcare
2014-present	Ethical Issues Subcommittee Member, University of Iowa Healthcare	University of Iowa Healthcare
<u>State/Regional</u>		
2014-present	Iowa Chapter of American Academy of Pediatrics; Champion for Statewide Disaster Preparedness	University of Iowa Healthcare
2013-present	Iowa Healthcare Collaborative; Task Force on Iowa Physician Orders for Scope of Treatment (IPOST), Pediatric Team Leader	University of Iowa Healthcare

Professional Societies [List all society committees, leadership, and course leadership roles here]

Dates	Society Name, member
1995-1996	Mortar Board National Honor Society, member
1996	Phi Beta Kappa Society, member
2000-present	American Academy of Pediatrics, member
2003-present	Society of Critical Care Medicine, member
2004-present	Society for Leukocyte Biology, member
2008-present	Pediatric Academic Society, member
2009-present	Midwest Society for Pediatric Research, member
2012-present	University of Iowa Inflammation and Immune Diseases Center, member
	<i>Committees</i>
1996-1997	Faculty Liaison Committee, University of Iowa, College of Medicine
1997-2000	'Shades of Medicine' student diversity organization, University of Iowa, College of Medicine
1997	Medical Education Community Orientation Extern, University of Iowa, College of Medicine
1997	Bowen Science Building Mural Committee, University of Iowa, College of Medicine

Grant Review Activities

Year(s)	Name of Review Committee	Organization
2011	Ad hoc institutional grant reviewer of two proposals, entitled: 1) <i>Modulation of RNA-mediated regulation by helicases and nucleases in the par system of Enterococcus faecalis</i> ; 2) <i>Host cell modification during primary influenza virus infection.</i>	University of South Dakota

Editorial Activities

<u>Ad Hoc Reviewer</u>	
2011	Journal of Leukocyte Biology: <i>Sublytic concentrations of Staphylococcus aureus Panton-Valentine leukocidin alter human PMN gene expression and function</i>
2013	Cellular and Molecular Immunology: <i>Hypotonic environment can up-regulate the endocytosis activity of bone marrow-derived macrophages in vitro through CIC-3</i>
2014	Journal of Leukocyte Biology: <i>Plasma Mitochondrial DNA- a novel DAMP in pediatric severe sepsis</i>

Invited Lectures [*Since last promotion/appointment*]

Year(s)	Title	Location
<u>National</u>		
2008	Anion Transporter Function is Required for Normal Neutrophil Chemotaxis and Shape Change	Pediatric Critical Care Scientist Development Program Research Retreat, Deer Valley, UT
2008	Normal neutrophil chemotaxis requires cell volume regulation via anion transporters.	Pediatric Academic Society Meeting, Honolulu, HI
2009	Role of reactive oxygen species in neutrophil chemotaxis.	Pediatric Academic Society Meeting, Baltimore MD
2009	Role of NADPH oxidase-derived ROS in neutrophil chemotaxis signaling,	Gordon Research Conference on Phagocytes, Waterville Valley, NH
2009	Role of NADPH oxidase-derived ROS in neutrophil chemotaxis signaling	Child Health Research Center Annual Retreat, Seattle, WA
2009	Role of NADPH oxidase-Derived ROS in Neutrophil Chemotaxis Signaling	Pediatric Critical Care Scientist Development Program Research Retreat, Deer Valley, UT
2011	Role of Nox2-Derived ROS in Neutrophil Chemotaxis Signaling and Shape Change	Pediatric Critical Care Scientist Development Program Research Retreat, Deer Valley, UT
2012	Nox2-Derived Reactive Oxygen Species are Required for Neutrophil Chemotaxis Signaling and are Regulated by CLC-3	Society for Leukocyte Biology Meeting; Kahului, HI
2013	Intracellular Nox2-Derived Reactive Oxygen Species are Required for Neutrophil Chemotaxis Signaling and are Regulated by CLC-3	Gordon Research Conference on Phagocytes, Waterville Valley NH
<u>Regional/Local</u>		
2011	CLC-3 is Required for Normal Neutrophil Chemotaxis and Shape Change and Regulates the Neutrophil NADPH oxidase	UI Department of Pharmacology Seminar Series, Iowa City, IA
2012	Nox2-derived reactive oxygen species are required for neutrophil chemotaxis signaling and are regulated by CLC-3	The University of Iowa Center for Immunology and Immune Diseases Research Retreat, Iowa City IA
2014	The Pathophysiology and Clinical Management of Acute Respiratory Distress Syndrome	Anatomy and Physiology Course Cornell College, Mt. Vernon, IA
2014	Lunch with a Pediatrician – Advice on Medicine as a Career Choice	Cornell College, Mt. Vernon, IA
2014	Iowa Physician Orders for Scope of Treatment: Implementing IPOST in the Pediatric Community	Iowa Healthcare Collaborative Care Coordination Conference, Altoona, IA

Bibliography

Peer-Reviewed Publications (List in chronological order with complete pagination. Authors should be listed in the same order as they appear in the published article. Do not include abstracts or submitted works.)

Original Research Articles (Some Publications under former name A. Paige Davis)

1.	Femling JK, Cherny VV, Morgan D, Rada BK, Davis AP , Czirjak G, Enyedi P, England SK, Moreland JG, Ligeti E, Nauseef WM, Decoursey TE: The antibacterial activity of human neutrophils and eosinophils requires proton channels but not BK channels. 2005. <i>Journal of General Physiology</i> 127: 659-672.
2.	Davis AP : Review of Malerba, G., Romano-Girard, F., Cravoisy, A., Dousset, B., Nace, L., Lev B., Bollaert, P.: Risk factors of relative adrenocortical deficiency in intensive care patients needing mechanical ventilation. <i>Intensive Care Medicine</i> . 31:388-392. 2005. http://pedsCCM.wustl.edu/EBJ/PREDICTION/Malerba-adrenal.html Pediatric Critical Care Medicine Evidence-Based Journal Club.
3.	Moreland JG, Davis AP , Bailey G, Nauseef WM, Lamb FS: Anion channels including CIC-3 are essential for neutrophil oxidative function, phagocytosis, and transendothelial migration. 2006. <i>Journal of Biological Chemistry</i> 281(18):12277-12288.
4.	Moreland JG, Davis AP , Matsuda JJ, Hook JS, Bailey G, Nauseef WM, Lamb FS: Endotoxin priming of neutrophils requires NADPH-oxidase generated oxidants and is regulated by the anion transporter CIC-3. 2007. <i>Journal of Biological Chemistry</i> 281(47):33958-33967.
5.	D'Alessandro DM, Davis AP : What are the Current Recommendations for Treatment of Acute Traumatic Head Injury? PediatricEducation.org. Available from the Internet at: http://www.pediatriceducation.org/2007/11/05 (rev. 11/5/07, cited 11/5/07).
6.	Volk APD , Heise CK, Hougén JL, Artman CM, Volk KA, Wessels D, Soll SR, Nauseef NM, Lamb FS, Moreland JG: CIC-3 and ICl _{swell} are required for normal neutrophil chemotaxis and shape change. 2008. <i>Journal of Biological Chemistry</i> . 283(49):34315-34326.
7.	Volk APD , Barber BM, Goss KL, Ruff JG, Heise CK, Hook JS, Moreland JG: Priming of neutrophils and differentiated PLB-985 cells by pathophysiological concentrations of TNF- α is partially oxygen-dependent. 2011. <i>Journal of Innate Immunity</i> . 3:298-314
8.	Lamb FS, Hook JS, Barber BM, Huber J, Volk APD , Moreland JG: Endotoxin priming of neutrophils requires endocytosis and NADPH-oxidase-dependent endosomal reactive oxygen species. 2012. <i>Journal of Biological Chemistry</i> . 287(15):12395-12404.

Reviews, Chapters, Monographs and Editorials

1.	<u>ROS-containing endosomal compartments: implications for signaling.</u> Editor, P. Michael Conn, PhD., 2014, <i>Methods in Enzymology</i> , 535:201-24.
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Non-peer reviewed scientific or medical publications/materials in print or other media

1.	Volk APD: A Pediatrician's Perspective on IPOST: Iowa Physician Orders for Scope of Treatment; The Heartland Newsletter, a publication of The Iowa Chapter of The American Academy of Pediatrics; Sept 2014.
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