

CURRICULUM VITAE

Personal Data:

Name Katarina Kulhankova
Citizenship USA
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Education:

Ph.D. 12/2006 College of Public Health, University of Iowa; Occupational and Environmental Health, with emphasis on **pulmonary immuno-toxicology**
M.S. 07/2001, College of Public Health, University of Iowa; Occupational and Environmental Health, with emphasis on **environmental exposures contributing to pathogenesis of asthma**
M.D. 07/1997, Medical School, Komensky University, Bratislava, Slovakia

Professional Experience:

Assistant Research Scientist; 01/2014 – present

Department of Microbiology, Carver College of Medicine, University of Iowa, Iowa City, IA.
Focus: Role of Staphylococcal superantigens in the pathogenesis of infective endocarditis, pneumonia, and toxic shock. PI: Wilmar Salgado-Pabon, PhD.

Postdoctoral Research Scholar; 07/2010 – 12/2012

Department of Pathology, Carver College of Medicine, University of Iowa, Iowa City, IA.
Focus: Pulmonary and systemic immune responses to pandemic H1N1 influenza A virus and viral-bacterial co-infection in immuno-competent and immuno-compromised host. Mentor: Kevin L. Legge, PhD.

Postdoctoral Research Fellow; 06/2006 –06/2010

Department of Internal Medicine, Carver College of Medicine, University of Iowa, Iowa City, IA, and
Department of Medicine, Veterans Affairs Medical Center, Iowa City, IA.
Focus: Role of paracrine IL-2 in T regulatory lymphocyte biology and function. Mentor: Elizabeth H. Field, MD.

Graduate Research Assistant; 07/2002-08/2006

Department of Occupational and Environmental Health, College of Public Health, Inhalation Toxicology Facility, University of Iowa, Iowa City, IA.
Focus: Role of early life environmental inhalation exposures of endotoxin and allergens in the pathogenesis of airway disease, systemic sensitization, and developmental abnormalities of the lungs; pulmonary immuno-toxicology. Mentor: Peter S. Thorne, MS, PhD.

Research Assistant; 07/2001-06/2002

Department of Occupational and Environmental Health, College of Public Health, Inhalation Toxicology Facility, University of Iowa, Iowa City, IA.

Graduate Research Assistant; 07/1998-06/2001

Department of Occupational and Environmental Health, College of Public Health, Inhalation Toxicology Facility, University of Iowa, Iowa City, IA.
Focus: Indoor environmental exposures and risk of asthma - in the context of the endotoxin arm of the United States National Survey of Lead and Allergens in Housing. Mentor: Peter S. Thorne, MS, PhD.

Resident in Medical Microbiology and Immunology; 08/1997-06/1998

Employer: National Institute of Public Health, Bratislava, Slovakia

Research Grants:

PI: Katarina Kulhankova; Training Mentor: Elizabeth H. Field.

\$115,788; 6/1/2007-5/31/2010

Funding Agency: Immunology Postdoctoral Training Grant; University of Iowa; T32; NIH T32, AI007260-22

Project: CD4+CD25+ T Regulatory Cell IL-2 Paracrine Delivery.

PI: Katarina Kulhankova, Co-Investigators: Peter S. Thorne, and Elizabeth H. Field.

\$30,000; 6/1/2006-5/31/2008

Funding Agency: Environmental Health Sciences Research Center, University of Iowa; NIEHS P30 ES05605

Project: Role of Fetal and Perinatal Allergen Exposures in Pulmonary and Immune Hyperresponsiveness

PI: Suzana Hadina, Co-Investigators: Peter S. Thorne, Paul B. McCray Jr., Jerrold P. Weiss, Katarina Kulhankova.

\$30,000; 4/01/2005-4/01/2006

Funding Agency: Environmental Health Sciences Research Center, University of Iowa; NIEHS P30 ES05605

Project: The Role of MD-2 in Endotoxin Responsiveness *in vivo*

PI: Katarina Kulhankova, Co-Investigators: Peter S. Thorne, Caroline L.S. George, Joel N. Kline, Geoffrey McLennan.

\$20,000; 9/01/2004-8/01/2005

Funding Agency: Environmental Health Sciences Research Center, University of Iowa; NIEHS P30 ES05605

Project: The Role of Neonatal and Juvenile Inhalation Exposures on Pulmonary Hyperresponsiveness and Lung Growth

PI: Caroline L.S. George; Katarina Kulhankova - KK was the main author of the project, though listed as the second author due to a graduate student status at that time; Co-Investigator: Peter S. Thorne.

\$20,000; 7/1/2002-6/30/2003

Funding Agency: Environmental Health Sciences Research Center, University of Iowa; NIEHS P30 ES05605

Project: Effects of Early Life Endotoxin Inhalation on Murine Hyperresponsiveness in Adulthood

Scholarships and Awards:

2007-2010 Postdoctoral Fellowship in Immunology, University of Iowa, NIH Training Grant

2007 Poster of Distinction, Federation of Clinical Immunology Societies (FOCIS) Annual Meeting

2007 Competitive Travel Award, Federation of Clinical Immunology Societies (FOCIS)

2006 Scholarly Presentation Competitive Travel Award, the University of Iowa Student Government

2006 Competitive Travel Award, Graduate Student Senate, the University of Iowa

2005 Outstanding Research Award, Research Week, of the University of Iowa, College of Medicine/ College of Public Health/ Veterans Administration Medical Center, Graduate Poster Session

2004 Competitive Travel Award, Graduate Student Senate, the University of Iowa

2003 Competitive Travel Award, Graduate Student Senate, the University of Iowa

2003 Scholarly Presentation Competitive Travel Award, the University of Iowa Student Government

2002 Competitive Travel Award, International Society for Environmental Epidemiology and International Society of Exposure Analysis (ISEE/ISEA)

1998 NIH Fogarty Scholarship, Center for International Rural and Environmental Health, the University of Iowa, 06/1998 – 12/2000

Teaching/Lecturing:

<u>Year</u>	<u>Course or Seminar Title</u>	<u>No. of Students Regist.</u>	<u>Length</u>	<u>Part for which Responsible</u>
2014	Bacterial Physiology Research Group	N/A	1 s.h.	1 lecture
2012	Immunology Interest Research Group	N/A	1 s.h.	2 lectures
2011	Immunology Interest Research Group	N/A	1 s.h.	2 lectures
2010	Interdisciplinary Program in Immunology Seminar	N/A	1 s.h.	1 lecture
2010	Immunology Interest Research Group	N/A	1 s.h.	1 lecture
2006	Environmental Health Sciences Institute for Rural Youth	18	N/A	1 lecture
2005	Epidemiology II – Advanced Methods	28	3 s.h.	1 lecture
2005	Environmental Health Sciences Institute for Rural Youth	16	N/A	1 lecture
2004	Environmental Health Sciences Institute for Rural Youth	16	N/A	2 lectures
2003	Theories of Environmental Policy and Assessment	9	3 s.h.	2 lectures
2003	Environmental Health Sciences Institute for Rural Youth	16	N/A	1 lecture
2002	Occupational and Environmental Health Seminar	20	1 s.h.	1 lecture
2001	Occupational and Environmental Health Seminar	18	1 s.h.	1 lecture
2000	Special Topics in Toxicology	5	2 s.h.	1 lecture
2000	Occupational and Environmental Health Seminar	10	1 s.h.	1 lecture
1999	Environmental Health	34	3 s.h.	1 lecture

Instructing/Training:

<u>Year</u>	<u>Name and Position</u>
2014-15	Jessica King, PhD, postdoctoral scholar, Microbiology, University of Iowa (UI)
2014-15	Anthony Martini, MS, doctoral graduate student, Microbiology, UI
2014	Yujia Liu, BS, doctoral graduate student, Biosciences Graduate Program, UI
2014-15	Michael Cahill, undergraduate student, Undergraduate Research Experience, UI
2010-12	Alfonza D. Brown, undergraduate student, Iowa Center for Undergraduate Research, Iowa Bioscience Advantage, Iowa Edge, UI
2012	Wilmara Salgado-Pabon, PhD, Microbiology, postdoctoral scholar, UI
2007	Lauren E. Jensen, undergraduate student, Pre-Medical Student Training Program, UI
2006	Shivaughn Johnson, undergraduate student, Minority Student Summer Research Program, UI
2004	Suzana Hadina, DVM, PhD, postdoctoral scholar, Occupational and Environmental Health (OEH), UI
2002	Irena Szadkowska Stanczyk, MD, PhD, visiting international scientist, OEH, UI
2001	Andrea Adamcakova-Dodd, PhD, MS, postdoctoral researcher, OEH, UI

Professional Affiliations:

FOCIS	Federation of Clinical Immunology Societies, 2012 - present
CIIBD	Center for Immunology & Immune-Based Diseases; member, University of Iowa, 05/2012 - present
ICTS	Institute for Clinical and Translational Science, University of Iowa; member, 2010-present
NPDA	National Postdoctoral Association; member; 06/2012 – 06/2013
IMS	Iowa Microscopy Society; member, 2003-present
APHA	Public Health Student Caucus of the American Public Health Association; member, 2001-2006
AAAAI	American Academy of Allergy, Asthma & Immunology; member, 2006-2010

Service in Professional Organizations. Other Professional Activities:

Editor, Enliven: Immunology and Immunotechniques, international open access journal, 07/2014-present
Vice-President, University of Iowa Postdoctoral Association, University of Iowa (UI), 07/2012 – 12/2012
Chair, Policy and Advocacy Committee, University of Iowa Postdoctoral Association, UI, 07/2012 – 12/2012
Founding Member, Professional Development Committee, UI Postdoctoral Association, UI, 2011 – 2012
Scientific Discussion Panel Member, International Society for Exposure Assessment/ American Industrial Hygiene Conference, San Diego, CA, 05/2002

Scientific Judges Committee, Eastern Iowa Science and Engineering Fair, Cedar Rapids, IA, 05/2004

Advanced Postgraduate Training:

- 2012 Center for Immunology and Immune-based Diseases Annual Conference, University of Iowa (UI)
- 2012 Teaching Your Research, Workshop Series, College of Medicine and Center for Teaching, UI
- 2012 The UI Research Professionals Network Intermediate Clinical Research Symposium: Beyond the Basics of Clinical Research, Institute of Clinical and Translational Science, UI
- 2011 Course in Scientific Management and Leadership, Institute for Clinical and Translational Science, UI
- 2011 UI Health Sciences & Engineering Women Faculty Development Conference
- 2011 Human Toxicology and Environmental Health Sciences Research Center Seminars, selected seminars, UI
- 2011 Career Development Grants for Post Docs, UI
- 2011 Women in Medicine & Science Seminar Series, selected seminars, UI
- 2011 Optimizing Scientific Talk, Women in Science and Engineering Workshop, UI
- 2011 Effectively Responding to Reviewer Comments, Women in Science and Engineering Workshop, UI
- 2010 The Sixth Biennial All-Iowa Virology Symposium, University of Iowa
- 2007 Advanced Course in Basic & Clinical Immunology, Federation of Clinical Immunology Societies; Scottsdale, AZ
- 2000 Domestic Preparedness Training for Hospital Providers, US Army Medical Command. Iowa City, IA

Field and Laboratory Research Expertise:

Environmental Health, Environmental Toxicology, Basic and Pulmonary Immunology, and Microbiology

- *In vitro* and *in vivo* models (mouse and rabbit) of innate and adaptive immune responses to toxins, and infectious and non-infectious agents. Studying immuno-modulatory effects of lipopolysaccharide; CD4+ and CD8+ T lymphocyte responses to viral and bacterial challenge; and interaction and cytokine delivery between antigen-presenting dendritic cells and CD4+CD25+ T regulatory cells. Mouse models of acute and chronic lung disease induced by inhalation of infectious and non-infectious agents in immuno-competent and -compromised host, wild type and transgenic host. Rabbit model of pneumonia, infective endocarditis and its embolic complications.
- Extensive experience in design, execution, and analysis of complex, acute and chronic inhalational exposure protocols utilizing newborn, juvenile and adult mouse models, followed by evaluation of pulmonary and systemic inflammatory responses, innate and adaptive immune responses, and postnatal lung development.
- Research methods including: neonatal and adult murine inhalational exposures utilizing a whole body exposure chamber; intra-nasal and intra-tracheal inoculation; intravenous, subcutaneous, retroorbital, and intraperitoneal injections, broncho-alveolar lavage; murine pulmonary function tests; collection, processing, and analysis of biological specimens; husbandry and screening of various genetically modified strains of mice; flow cytometry, flow cytometry assisted cell sorting (AutoMax and DIVA); surface and intracellular organelle and cytokine staining; ELISA, ELISPOT, multiplex cytokine assay; basic and advanced methods in bacteriology and microbial identification, antibiotic resistance testing; generation of H1N1 influenza A virus stock (PR8/34) and bacterial stocks; viral and bacterial titer assay, viral tissue culture; maintenance and transfection of hybridoma cell lines and primary cell cultures; PCR; preparation of specimens for microscopy; live cells confocal laser scanning microscopy, epifluorescence and light microscopy; immuno-histochemical staining; histological analysis of the lungs; sampling and analysis of environmental airborne substances in indoor and outdoor human environments, endotoxin and allergen measurements in environmental and biological samples, and others. Performed and supervised quality control/ quality assurance, good laboratory practice guidelines, and standard operating procedures.

Peer-Reviewed Scientific Manuscripts:

- Vu, BG, Stach, CS, **Kulhankova, K**, Salgado-Pabon, W, Klingelutz, AJ, Schlievert, PM. Chronic Superantigen Exposure Induces Systemic Inflammation, Elevated Bloodstream Endotoxin, and Abnormal Glucose Tolerance in Rabbits: Possible Role in Diabetes. *MBio*. 2015 Feb 24;6(2)
- Kulhankova, K**, King, JM, Salgado-Pabon W. Staphylococcal toxic shock syndrome: superantigen-mediated enhancement of endotoxin shock and adaptive immune suppression. *Immunology Research*. 2014; 59(1-3)
- Kulhankova, K**, Rouse, T, Nasr, ME, Field, EH. Dendritic Cells Control CD4+CD25+ Treg Cell Suppressor Function *in vitro* through Juxtacrine Delivery of IL-2. *PLoS ONE* 7(9):e43609. Doi:10.1371/journal.pone.0043609, September, 2012
- Kulhankova, K**, George, CL, Kline JN, Darling, M, and Thorne PS. Endotoxin Inhalation Alters Lung Development in Neonatal Mice. *American Journal of Industrial Medicine*. 2012 Dec;55(12):1146-58. doi: 10.1002/ajim.22061
- Kulhankova, K**, George, CL, Kline JN, Snyder, JM, Darling, M, Field, EH, and Thorne PS. Early Life Co-Administration of Cockroach Allergen and Endotoxin Augments Pulmonary and Systemic Responses. *Clinical and Experimental Allergy*. 2009, 39(7):1069-1079
- Hadina, S, Weiss, JP, McCray, PB Jr, **Kulhankova, K**, Thorne, PS. MD-2-dependent pulmonary immune responses to inhaled lipooligosaccharides: effect of acylation state. *Am J Respir Cell Mol Biol* 2008. 38(6):647-54.
- Field, EH, **Kulhankova, K**, Nasr, ME. Natural Tregs, CD4+CD25+ Inhibitory Hybridomas, and Their Cell Contact Dependent Suppression. *Immunologic Research*. 2007, 39(1-3):62-78; Published online June 19, 2007; 10.1007/s12026-007-0064-5
- Heederik, D, Sigsgaard, T, Thorne, PS, Kline, JN, Avery, R, Bønløkke, JH, Chrischilles, EA, Dosman, JA, Duchaine, C, Kirkhorn, SR, **Kulhankova, K**, and Merchant, JA. Health Effects of Airborne Exposures from Concentrated Animal Feeding Operations. *Environmental Health Perspectives*. 2007, 115(2):298-302
- George, CL, White, ML, **Kulhankova, K**, Mahajan, A., Thorne, PS, Snyder, JM, Kline, JN: Early Exposure to a Non- hygienic Environment Alters Pulmonary Immunity and Allergic Responses. Accepted for publication in the *American Journal of Physiology – Lung Cellular and Molecular Physiology*. 2006, 291(3):L512-L522
- Thorne, PS, **Kulhankova, K**, Yin, M, Cohn, R, Arbes, S, Zeldin, DC: Endotoxin Exposure is a Risk Factor for Asthma: the National Survey of Endotoxin in United States Housing. *American Journal of Respiratory and Critical Care Medicine*. 2005, 172(11):1371-7
- Thorne, PS, Bartlett, KH, Phipps, J, **Kulhankova, K**: Evaluation of Five Extraction Protocols for Determination of Endotoxin in Metalworking Fluid (MWF) Aerosol. *Annals of Occupational Hygiene*. 2003, 47(1):31-6

Manuscripts in Preparation:

- Kulhankova, K**, Sagado-Pabon, W, et al. The role of Staphylococcus aureus secreted factors in the pathogenesis of organ-specific complications during infective endocarditis and sepsis. In final stages of preparation; planned submission 2015.
- Kulhankova, K**, Legge, KL, et al. Innate immune responses in the lungs during severe disease induced by co-infection with influenza A virus and *Streptococcus pyogenes*. In final stages of preparation; planned submission 2015.
- Kulhankova, K**, Waldschmidt, T, Legge, KL, et al. Chronic ethanol consumption predisposes to more severe *Streptococcus pyogenes* pneumonia. Alcoholism – Clinical and Experimental Research. In final stages of preparation; planned submission 2015.
- Kulhankova, K**, Waldschmidt, T, Legge, KL, et al. Characterization of organ-specific changes in mice chronically exposed to ethanol during *Streptococcus pyogenes* pneumonia. Alcoholism – Clinical and Experimental Research. In final stages of preparation; planned submission 2015.

Dissertation/Thesis:

- Kulhankova, K.** The Role of Environmental Inhalation Exposures in the Pathogenesis of Asthmatic Airways Disease. **PhD Dissertation** submitted in partial fulfillment of the requirements for the Doctor of Philosophy degree in Occupational and Environmental health in the Graduate College of the University of Iowa; Dissertation supervisor Prof. Peter S. Thorne, MS, PhD; December 2006
- Kulhankova, K.** The United States National Survey of Endotoxin in Housing. **MS Thesis** submitted in partial fulfillment of the requirements for the Master of Science degree in Occupational and Environmental Health in the Graduate College of The University of Iowa; Thesis supervisor Prof. Peter S. Thorne, MS, PhD; July 2001

Published Scientific Abstracts:

- Kulhankova K**, Legge KL. Innate immune responses in the lungs during post-influenza A - *Streptococcus pyogenes* secondary pneumonia. Accepted for publication in the American Journal of Respiratory and Critical Care Medicine, Suppl.; American Thoracic Society, May 2015
- Stach, CS, King JM, **Kulhankova, K**, Schlievert PM, Salgado-Pabon W. Tissue-specific effects of superantigens and their contribution to Staphylococcus aureus infective endocarditis. Proceedings of the International Conference on Gram-positive pathogens. October 12-15, 2014, Omaha, Nebraska.
- Kulhankova, K**, Fan, KJ, Tygrett, LT, Young, BM, Coleman, RA, Meyerholz, DK, Schlueter, A, Waldschmidt, TJ, Cook, RT, Legge. KL. Fetal/neonatal exposure to ethanol alters pulmonary immunity and increases the severity of respiratory infections. Alcohol, 2012, 46(2):176
- Legge, KL, McGill, JL, **Kulhankova, K**, Fan, KJ, Tygrett, LT, Young, BM, Coleman, RA, Meyerholz, DK, Schlueter, A, Waldschmidt, TJ, Cook, RT. Persistence of adaptive immune lesions into adulthood in mice after fetal/neonatal exposure to ethanol. Alcoholism. Clinical and Experimental Research, 2011;35(s1)1A-339A. 34th Annual Scientific Meeting on the Research Society on Alcoholism, June 25-29, 2011, Atlanta, Georgia.
- Field, EH, **Kulhankova, K**, Rouse, T, Nasr, ME. Dendritic cells control CD4+CD25+ Treg cell function in vitro through juxtacrine delivery of IL-2. Journal of Immunology, 2011, 186:50.3. The American Association of Immunologists, 98th Annual Meeting, May 13-17, 2011, San Francisco, California
- Field, EH, **Kulhankova, K**, Rouse, T, Nasr, ME. Dynamic capping of CD25 occurs at point of contact prior to delivery of IL-2 from dendritic cell to Treg hybridoma. Journal of Immunology, 2011, 186:50.12. The American Association of Immunologists, 98th Annual Meeting, May 13-17, 2011, San Francisco, California
- Field, EH, Nasr, ME, **Kulhankova, K**, Rouse, T. Dendritic Cell Paracrine IL-2 Regulates Phenotype and Function of CD4+CD25+ Treg Cells in vitro. Journal of Immunology, 2010, 184:138.5, 97th Annual Meeting, Baltimore, Maryland, May 7-11, 2010
- Kulhankova, K**, Rouse, T, Nasr, ME, Field, EH. Delivery of IL-2 from Dendritic to T Regulatory Cells is augmented by Cell-Cell Contact. Journal of Immunology, 2010, 184:49.14, 97th Meeting, Baltimore, Maryland, May 7-11, 2010
- Kulhankova, K**, Rouse, T, Nasr, ME, Field, EH. Proximity Counts for Dendritic Cell Delivery of IL-2 to T Regulatory Cells. Proceedings of the ASHI Meeting, Pub. Number 180-P, American Society for Histocompatibility and Immunogenetics Meeting, November 2-6, 2101, San Francisco, CA,
- Nasr, ME, Rouse, T, **Kulhankova, K**, and Field, EH. Dendritic Cells Supply Paracrine IL-2 for Treg Cell Functional Activity. American Transplant Congress, Boston, May 30-June 3, 2009. American Journal of Transplantation, 9 (Supp 2):627(#1573), 2009.
- Nasr, ME, Rouse, T, **Kulhankova, K**, and Field, EH. Interruption in Dendritic Cells Paracrine Delivery of IL-2 to Treg Cells Impairs their Function. Annual Meeting of the American Association of Immunologists, May 8-12, Seattle, Washington. The Journal of Immunology 2009, 182, 141.30
- Nasr, ME, Rouse, T, **Kulhankova, K**, Jensen, E, Field, E.H. Dendritic Cells Supply Paracrine IL-2 for Treg Cell Functional Activity. American Transplant Congress, Toronto, Ontario, May 31-June 4, 2008. American

Journal of Transplantation, 8 (Supp 2):223(#169), 2008.

- Kulhankova, K**, Rouse, T, Nasr, ME, Dailey, ME, Field, EH. Evidence for DC:Treg Paracrine IL-2 Delivery. Proceedings of the Annual Meeting of the Federation of Clinical Immunology Societies, June 2007, San Diego, CA; published online April 2007
- Field, EH, **Kulhankova, K**, Dailey, ME, Rouse, T, Nasr, ME. Visualizing IL-2:CD25 Interactions on CD4+CD25+ Regulatory Cells. American Journal of Transplantation, 7 (s2):220(#284), May 2007
- Kulhankova, K**, Rouse, T, Nasr, ME, Dailey, ME, Field, EH. Dynamic CD4+CD25+ T-regulatory Cell:Cell Interactions. American Journal of Transplantation, 7 (s2):479(#1290), May 2007
- Field, EH, **Kulhankova, K**, Dailey, ME, Rouse, T, Nasr, ME. Visualizing CD25 and Cell:Cell Interactions Involving CD4+CD25+ Regulatory Cells. Book of Abstracts of the World Immune Regulation Meeting, April 2007, Davos, Switzerland
- Kulhankova, K**, Rouse, T, Nasr, ME, Dailey, ME, Field, EH. CD4+CD25+ T Regulatory Cell:Cell Interactions during an Antigen Driven Response. Book of Abstracts of the 35th Annual Autumn Immunology Conference, November 2006, Chicago, IL
- Kulhankova, K**, George, CL, Kline, JN, Thorne, PS: Pulmonary and Systemic Responses to Inhaled Allergens are Aggravated by Inhaled Endotoxin. Poster, American Academy of Allergy, Asthma & Immunology International Meeting, 2006, Miami, FL; Abstract published in Supplement to The Journal of Allergy and Clinical Immunology, Vol. 117, No 2, p.S318:1226, 2006
- Kulhankova, K**, Hadina, S, Thorne, PS: Inflammatory Cytokines in Lung Lavage Fluid Determined by Bead-Based and ELISA Cytokine Assays. Poster, American Academy of Allergy, Asthma & Immunology International Meeting, 2006, Miami, FL; Abstract published in Supplement to The Journal of Allergy and Clinical Immunology, Vol. 117, No 2, p.S255:985 2006
- Hadina, S, Thorne, PS, **Kulhankova, K**, McCray, Jr., PB, Weiss, JP: Lipooligosaccharide Inhalation Produces Dose- and Time-Dependent Lung Inflammation and Cytokine Release in Mice. Poster, American Academy of Allergy, Asthma & Immunology International Meeting, 2006, Miami, FL; Abstract published in Supplement to The Journal of Allergy and Clinical Immunology, Vol. 117, No 2, p.S149:579, 2006
- Thorne, PS, Hadina, S, **Kulhankova, K**, Wolford-Lenane, C, McCray, Jr., PB, Weiss, JP: Monitoring of Endotoxin-Induced Pulmonary Inflammation *In Vivo* in NF-kB Luciferase Transgenic Mice. Poster, American Academy of Allergy, Asthma & Immunology International Meeting, 2006, Miami, FL; Abstract published in Supplement to The Journal of Allergy and Clinical Immunology, Vol. 117, No 2, p.S147:573, 2006
- Kulhankova, K**, Thorne, PS, George, CL, White, M, O'Neill, ME: Neutrophilic Lung Inflammation Induced by Aerosol Inhalation and Nasal Aspiration of Endotoxin in a Newborn Murine Model. Poster, American Thoracic Society International Meeting, 2005, San Diego, CA; Abstract published in Proceedings of the American Thoracic Society, Vol. 2:A531, Abstract Issue, 2005
- Kulhankova, K**, George, CL, Kline, JN, Thorne, PS: Synergistic Effect of Cockroach Allergens and Endotoxin in Development of Airway Disease and Systemic Sensitization. Poster, American Thoracic Society International Meeting, 2005, San Diego, CA; Abstract published in Proceedings of the American Thoracic Society, Vol. 2:A98, Abstract Issue, 2005
- Kulhankova, K**, George, CL, Kline, JN, White, M, Thorne, PS: Inhalation of Allergen Results in Systemic Sensitization and Upper and Lower Airways Disease. Poster, American Thoracic Society International Meeting, 2005, San Diego, CA; Abstract published in Proceedings of the American Thoracic Society, Vol. 2: A98, Abstract Issue, 2005
- George, CL, White, M, **Kulhankova, K**, Mahajan, A, Thorne, PS, Kline, JN. Organic Dust, the Developing Immune System, and Allergic Lung Disease. Journal of Leukocyte Biology Vol 76, Suppl. 124, 2004
- Kulhankova, K**, George, CL, White, M., O'Neill, ME, Kline, JN, Thorne, PS: A Novel Model to Study the Developing Lung. Poster, American Thoracic Society International Meeting, May 2003, Seattle, WA; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl. Vol. 169, No 7. , 2004
- Kulhankova, K**, George, CL, White, M., O'Neill, ME, Kline, JN, Thorne, PS: Cockroach Allergen Induced

Lung Inflammation in a Murine Model Follows a Dose-Dependent Pattern. Poster, American Thoracic Society International Meeting, May 2003, Seattle, WA; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl. Vol. 169, No 7. , 2004

Thorne, PS, **Kulhankova, K**, Yin, M, Cohn, R, Arbes, S, Zeldin, DC. Endotoxin in House Dust is Associated with Asthma but not Allergy. Poster, American Thoracic Society International Meeting , May 2003, Seattle, WA; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl. Vol. 167, No. 7, 2003

George, CL, **Kulhankova, K**, Thorne, PS, Kline, JN: Grain Dust and the Hygiene Hypothesis. Poster, American Thoracic Society International Meeting, May 2003, Seattle, WA; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl. Vol. 167, No 7. , 2003

Kulhankova, K, Thorne, PS, Yin, M, Cohn, R, Friedman, W, Zeldin, DC: Endotoxin in Household Dust is Associated with Resident, Housing, and Demographic Characteristics. Oral presentation, International Society for Exposure Assessment / American Industrial Hygiene Conference, May 2002, San Diego, CA

Thorne, PS, **Kulhankova, K**, Yin, M, Cohn, R, Friedman, W, Zeldin, DC: Endotoxin in Household Dust is Associated with Resident, Housing, and Demographic Characteristics. International Society of Environmental Epidemiology / International Society for Exposure Assessment Annual Meeting, Vancouver, BC, Aug 2002

Thorne, PS, Mueller-Anneling, L, O'Neill, ME, **Kulhankova, K**, O'Shaughnessy, PT.: Validation of whole blood cytokine elicitation as a biomarker for organic dust-induced inflammation. International Society of Environmental Epidemiology / International Society for Exposure Assessment Annual Meeting, Vancouver, BC, Aug 2002

Thorne, PS, **Kulhankova, K**, Yin, M, Cohn, R, Friedman, W, Zeldin, DC: Health, Geographic and Demographic Factors Associated with Endotoxin in the U.S. Housing Stock. Poster, American Thoracic Society International Meeting, May 2002, Atlanta, GA; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl., May 2002

Thorne, PS, **Kulhankova, K**, O'Neill, ME, Vojta, PJ, Friedman, W, Zeldin, DC: A National Survey of Endotoxin in House Dusts. Poster, American Lung Association/American Thoracic Society International Meeting, May 2000, Toronto, Ontario, Canada; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl., May 2000

Gassman, JM, O'Neill, ME, Phipps, J, **Kulhankova, K**, Duchaine, C, Thorne, PS: Comparison Of The Inflammatory Potency Of Bacteria And Their Cell Wall Components In The Lung. 39th Annual Meeting of the Society of Toxicology, 2000 March 19-23; Philadelphia, Pennsylvania, Abstract published in Proceedings of the SOT, 2000

Invited Presentations:

Kulhankova K, Rouse T, Nasr M, Dailey ME, Field HE. Evidence for DC:Treg Paracrine IL-2 Delivery. **Annual Meeting of the Federation of Clinical Immunology Societies**, June 2007, San Diego, CA

Kulhankova K. Synergistic Effect of Concurrently Inhaled Endotoxin and Cockroach Allergen on the Development of Pulmonary Hyperresponsiveness. **Environmental Health Sciences Research Center, Investigators Meeting**, May 2006, Iowa City

Kulhankova K, Thorne PS, Yin M, Cohn R, Friedman W, Zeldin DC: Endotoxin in Household Dust is Associated with Resident, Housing, and Demographic Characteristics. Oral presentation, **International Society for Exposure Assessment / American Industrial Hygiene Conference**, May 2002, San Diego, CA

Kulhankova K. National Survey of Lead and Allergens in US Housing – Endotoxin Analysis Component of the Survey.

Institute for Rural and Environmental Health, Jun 2002, Trnava, Slovakia

Lectures and Poster Presentations:

- Kulhankova K**, Legge KL. Innate immune responses in the lungs during post-influenza A - *Streptococcus pyogenes* secondary pneumonia. Accepted for poster presentation. **American Thoracic Society International Meeting**, May 2015, Denver, CO
- Kulhankova K**, Young BM, Coleman RA, Waldschmidt TJ, Schlueter A, Horswill A, Legge KL. Chronic ethanol consumption predisposes to more severe *Streptococcus pyogenes* pneumonia. Department of Pathology Research Day. University of Iowa, Nov 13, 2012.
- Kulhankova K**, Horswill A, Legge KL. Innate and adaptive immune responses to influenza A virus and *Streptococcus pyogenes* co-infection. Department of Pathology Research Day. University of Iowa, Nov 13, 2012.
- Kulhankova K**, Young BM, Coleman RA, Waldschmidt TJ, Horswill A, Legge KL. *Streptococcus pyogenes* pneumonia in a model of chronic ethanol consumption. **Postdoctoral Research Day**, University of Iowa, May 14, 2012
- Kulhankova K**, Young BM, Coleman RA, Waldschmidt TJ, Horswill A, Legge KL. *Streptococcus pyogenes* pneumonia in a model of chronic ethanol consumption. **Health Sciences Research Week**, University of Iowa, April 2-4, 2012
- Kulhankova K**, Fan KJ, Tygrett LT, Young BM, Coleman RA, Meyerholz DK, Schlueter A, Waldschmidt TJ, Cook RT, and Legge KL. Fetal/neonatal exposure to ethanol alters pulmonary immunity and increases the severity of respiratory infections. **Alcohol and Immunology Research Interest Group Annual Meeting**, November 18, 2011, Chicago, Illinois
- Brown AD, **Kulhankova K**, Meyerholz DK, and Legge KL. Development of a pulmonary bacterial model for testing the immune factors contributing to the increased pulmonary disease observed in alcoholics. SACNAS National Conference – **Society for Advancement of Chicanos and Native Americans in Science**, October 27-30, 2011, San Francisco, California
- Legge KL, McGill JL, **Kulhankova K**, Fan KJ, Tygrett LT, Young BM, Coleman RA, Meyerholz DK, Schlueter A,
- Waldschmidt TJ, Cook RT. Persistence of adaptive immune lesions into adulthood in mice after fetal/neonatal exposure to ethanol. 34th Annual Scientific Meeting on the **Research Society on Alcoholism**, June 25-29, 2011, Atlanta, Georgia.
- Kulhankova K**, B. Young, Horswill A, Legge KL. An Influenza A virus and *Streptococcus pyogenes* Model of Acute Co- Infection. **Department of Pathology Research Day**, University of Iowa, October 11, 2011
- Field EH, **Kulhankova K**, Rouse T, and Nasr ME. Dendritic cells control CD4+CD25+ Treg cell function *in vitro* through juxtacrine delivery of IL-2. **The American Association of Immunologists**, 98th Annual Meeting, May 13-17, 2011, San Francisco, California
- Field EH, **Kulhankova K**, Rouse T, and Nasr ME. Dynamic capping of CD25 occurs at point of contact prior to delivery of IL-2 from dendritic cell to Treg hybridoma. **The American Association of Immunologists**, 98th Annual Meeting, May 13-17, 2011, San Francisco, California
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- Kulhankova K**, B. Young, Horswill A, Legge KL. An Influenza A virus and *Streptococcus pyogenes* Model of Acute Co- Infection. **College of Medicine, Public Health, Pharmacy and VAMC Research Week**, University of Iowa, April 12-14, 2011
- Field EH, Nasr ME, **Kulhankova K**, Rouse T. Dendritic Cell Paracrine IL-2 Regulates Phenotype and Function of CD4+CD25+ Treg Cells *in vitro*. **The American Association of Immunologists**, 97th Annual Meeting, Baltimore, Maryland, May 7-11, 2010
- Kulhankova K**, Rouse T, Nasr ME, and Field EH. Delivery of IL-2 from Dendritic to T Regulatory Cells is augmented by Cell-Cell Contact. **The American Association of Immunologists**, 97th Annual Meeting, Baltimore, Maryland, May 7-11, 2010

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- Kulhankova K**. DC-Treg Interactions Result in Juxtacrine Delivery of IL-2. **Interdisciplinary Immunology Seminar Series, University of Iowa**, June 03, 2009
- Kulhankova K**, Rouse T, Nasr ME, and Field EH. Cell Contact-Facilitated Delivery of IL-2 from Dendritic cells to T Regulatory Cells. **College of Medicine, Public Health, Pharmacy and VAMC Research Week**, University of Iowa, April 15, 2009
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- Jensen LE, **Kulhankova K**, Rouse T, Nasr ME, Dailey ME, and Field EH. Do Dendritic Cells Provide Paracrine IL-2 to CD4+CD25+ T Regulatory Cells? Poster presentation (LEJ). **The Interdisciplinary Summer Undergraduate Research Program in Immunology**, Iowa City, IA, 2007
- Kulhankova K**, Rouse T, Nasr ME, Dailey ME, Field EH. Evidence for DC:Treg Paracrine IL-2 Delivery. Oral and poster presentation (KK). **Annual Meeting of the Federation of Clinical Immunology Societies**, June 2007, San Diego.
- Field EH, **Kulhankova K**, Dailey ME, Rouse T, Nasr ME. Visualizing IL-2:CD25 Interactions on CD4+CD25+ Regulatory Cells. Poster presentation (EHF). **American Transplant Congress**, May 2007, San Francisco, CA, **American Journal of Transplantation**, Supp 2, Vol 7:220(#284), 2007.

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- Field EH, **Kulhankova K**, Dailey ME, Rouse T, Nasr ME. Visualizing CD25 and Cell:Cell Interactions Involving CD4+CD25+ Regulatory Cells. Poster (EHF). **Research Week of the COM/CPH/VAMC**, April 2007, the University of Iowa
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- Kulhankova K**, Rouse T, Nasr ME, Dailey ME, Field EH. CD4+CD25+ T Regulatory Cell:Cell Interactions during and Antigen Driven Response. Poster, **35th Annual Autumn Immunology Conference**, November 2006, Chicago, IL
- Kulhankova K**: The Role of Environmental Inhalation Exposures in the Pathogenesis of Asthmatic Airways Disease. **Public Doctoral Dissertation Defense**. September 2006, The University of Iowa
- Johnson S, **Kulhankova K**, Rouse T, Nasr ME, Field EH. Characterization of the IL-2R Signaling Pathway during a Regulated Immune Response. Poster and oral presentation (SJ). The Interdisciplinary Summer Undergraduate Research Program in Immunology, July 2006, Iowa City, IA
- Hadina S, Thorne PS, **Kulhankova K**, McCray PB, Jr., and Weiss JP: Lipooligosaccharide Inhalation Produces Dose- and Time-Dependent Lung Inflammation and Cytokine Release in Mice. Poster, **The University of Iowa, College of Medicine/ College of Public Health/ Veterans Administration Medical Center Research Week**, March 2006, Iowa City
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- Kulhankova K**, George CLS, Kline JN, and Thorne PS: Pulmonary and Systemic Responses to Inhaled Allergens are Aggravated by Inhaled Endotoxin. Poster, **American Academy of Allergy, Asthma & Immunology International Meeting**, 2006, Miami, FL; Abstract published in Supplement to The Journal of Allergy and Clinical Immunology, Vol. 117, No 2:1226, 2006
- Kulhankova K**, Hadina S, Thorne PS: Inflammatory Cytokines in Lung Lavage Fluid Determined by Bead-Based and ELISA Cytokine Assays. Poster, **American Academy of Allergy, Asthma & Immunology International Meeting**, 2006, Miami, FL; Abstract published in Supplement to The Journal of Allergy and Clinical Immunology, Vol. 117, No 2:985 2006
- Hadina S, Thorne PS, **Kulhankova K**, McCray PB, Jr., and Weiss JP: Lipooligosaccharide Inhalation Produces Dose- and Time-Dependent Lung Inflammation and Cytokine Release in Mice. Poster, **American Academy of Allergy, Asthma & Immunology International Meeting**, 2006, Miami, FL; Abstract published in Supplement to The Journal of Allergy and Clinical Immunology, Vol. 117, No 2:579, 2006
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- Kulhankova K**, Thorne PS, George CLS, White M, and O'Neill ME: Neutrophilic Lung Inflammation Induced by Aerosol Inhalation and Nasal Aspiration of Endotoxin in a Newborn Murine Model. Poster, **The University of Iowa, College of Medicine/ College of Public Health/ Veterans Administration Medical Center Research Week**, April 2005, Iowa City

- Kulhankova K**, George CLS, Kline JN, and Thorne PS: Synergistic Effect of Cockroach Allergens and Endotoxin in Development of Airway Disease and Systemic Sensitization. Poster, **The University of Iowa, College of Medicine/ College of Public Health/ Veterans Administration Medical Center Research Week**, April 2005, Iowa City
- Kulhankova K**, Thorne PS, George CLS, and White M: Two Inhalation Exposure Protocols in a Study of Environmental Lung Disease Poster, **The James F. Jakobsen Graduate Forum, Organized by the Graduate Student Senate, the University of Iowa**, Iowa City, April, 2005
- Kulhankova K**, George CLS, Kline JN, and Thorne PS: Role of Complex Environmental Exposures in Etiology of Allergic Airway Disease. Poster, **The James F. Jakobsen Graduate Forum, Organized by the Graduate Student Senate, the University of Iowa**, Iowa City, April, 2005
- Kulhankova K**, George CLS, Kline JN, and Thorne PS: Synergistic Effect of Cockroach Allergens and Endotoxin in Development of Airway Disease and Systemic Sensitization. Poster, **The University of Iowa 7th Annual Interdisciplinary Health Sciences Forum**, April 2005, Iowa City
- Kulhankova K**, Thorne PS, George CLS, White M, and O'Neill ME: Neutrophilic Lung Inflammation Induced by Aerosol Inhalation and Nasal Aspiration of Endotoxin in a Newborn Murine Model. Poster, **American Thoracic Society International Meeting**, 2005, San Diego, CA; Abstract published in Proceedings of the American Thoracic Society, Vol. 2, Abstract Issue, 2005
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- Kulhankova K**, George CLS, White M, O'Neill ME, Kline JN and Thorne PS Title: Early Life Exposure to Endotoxin: A Novel Model to Study the Developing Lung. Poster, **American Thoracic Society International Meeting**, May 2004, Orlando, FL; Abstract published in American Journal of Respiratory and Critical Care Medicine, Vol. 169, No 7. 2004
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- George CLS, White M, **Kulhankova K**, Thorne PS, Kline JN: Subchronic Exposure to Inhaled Endotoxin Alters MHC Class II Expression in the Lung. Poster, American Pediatric Society & Society for Pediatric Research, **Pediatric Academic Societies' Annual Meeting**, May 2004, San Francisco, CA
- George CLS, **Kulhankova K**, Mahajan A, Thorne PS, Kline JN: Organic Dust alters the Developing Lung's Immune System. Poster, **The University of Iowa, College of Medicine/ College of Public Health/ Veterans Administration Medical Center Research Week**, April 2004, Iowa City
- Kulhankova K**, George CLS, White M, O'Neill ME, Kline JN and Thorne PS: Eosinophilic Lung Inflammation in a Murine Model of Allergic Asthma. Poster, **The University of Iowa, College of Medicine/ College of Public Health/ Veterans Administration Medical Center Research Week**, April 2004, Iowa City
- Kulhankova K**, George CLS, White M, O'Neill ME, Kline JN and Thorne PS: Dose-Response Pattern in a Murine Model of Eosinophilic Lung Inflammation. Poster, **The University of Iowa 6th Annual Interdisciplinary Student Health Research Poster Session**, April 2004, Iowa City
- Kulhankova K**, George CLS, White M, O'Neill ME, Kline JN and Thorne PS: Murine Model of Eosinophilic Lung Inflammation Induced by Inhalation of Cockroach Allergen. Poster, **The James F. Jakobsen Graduate Forum, Organized by the Graduate Student Senate, the University of Iowa**, Iowa City, March, 2004

- Kulhankova K**, George CLS, White M, O'Neill ME, Kline JN and Thorne PS: A Novel Model to Study the Developing Lung. Poster, **American Thoracic Society International Meeting**, May 2003, Seattle, WA; Abstract published in American Journal of Respiratory and Critical Care Medicine, Vol. 169, No 7. , 2003
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- Kulhankova K**. Human Health and Environmental Effects of Chernobyl Nuclear Catastrophe. **Lecture, Environmental Policy and Assessment Course, College of Public Health, The University of Iowa**, April 2003, Iowa City
- Kulhankova K**. Endocrine Disrupting Chemicals. Lecture, **Environmental Policy and Assessment Course, College of Public Health, The University of Iowa**, February 2003, Iowa City
- Kulhankova K**, Thorne PS, White M, O'Neill ME, and George CLS. Early Life Exposure to Endotoxin: A Novel Model to Study the Developing Lung. Poster, **University of Iowa 5th Annual Interdisciplinary Student Health Research Poster Session**, April 2003, Iowa City
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- George CLS, **Kulhankova K**, Thorne PS, and Kline JN: Grain Dust and the Hygiene Hypothesis. Poster, **American Thoracic Society International Meeting**, May 2003, Abstract published in American Journal of Respiratory and Critical Care Medicine, Vol. 167, No 7. , 2003
- Kulhankova K**. Series of lectures on Environmental Epidemiology and the National Surveys of the United States during the **Summer Institute for Rural and Environmental Health, Trnava, Slovakia**, Jun 2002
- Thorne PS, **Kulhankova K**, Yin M, Cohn R, Friedman W, Zeldin DC: Endotoxin in Household Dust is Associated with Resident, Housing, and Demographic Characteristics. **International Society of Environmental Epidemiology / International Society for Exposure Assessment Annual Meeting**, Vancouver, BC, Aug 2002
- Thorne PS, Mueller-Anneling L, O'Neill ME, **Kulhankova K**, O'Shaughnessy PT: Validation of whole blood cytokine elicitation as a biomarker for organic dust-induced inflammation. **International Society of Environmental Epidemiology / International Society for Exposure Assessment Annual Meeting**, Vancouver, BC, Aug 2002
- Kulhankova K**, Thorne PS, Yin M, Cohn R, Friedman W, Zeldin DC: Endotoxin in Household Dust is Associated with Resident, Housing, and Demographic Characteristics. Oral presentation (KK), **American Industrial Hygiene International Conference and Expo**, May 2002, San Diego
- Kulhankova K**, Thorne PS: Endotoxin in Household Dust - A National Survey of the United States. Poster, **College of Medicine/College of Public Health Research Week, The University of Iowa**, Iowa City, April 10, 2001
- Kulhankova K**, Thorne PS: Endotoxin in Household Dust - A National Survey of the United States. Poster, **Student Interdisciplinary Health Research Poster Session, The University of Iowa**, Iowa City, April 3, 2001
- Kulhankova K**, Thorne PS: Endotoxin in Household Dust - A National Survey of the United States. Poster, **The James F. Jakobsen Graduate Forum**, Organized by the Graduate Student Senate, **The University of Iowa**, Iowa City, March 30, 2001
- Kulhankova K**. Public Master's Thesis defense: The United States National Survey of Endotoxin in Housing. A Thesis submitted in partial fulfillment of the requirements for the Master of Science degree in

Occupational and Environmental Health in the Graduate College of **The University of Iowa**; Thesis supervisor Prof. Peter S. Thorne, M.S, PhD.; July 2001

Kulhankova K. Endotoxin in Housing – A National Survey of the United States. Oral presentation, **The Second Annual Iowa Fogarty Network Meeting, Bratislava, Slovakia**, May 2001

Thorne PS, **Kulhankova K**, Yin M, Schuett E, Cohn R, Friedman W, Muilenberg M, Zeldin DC. National Survey Of Endotoxin In Housing: Associations Of Bedroom Endotoxins With Health And Demographic. Poster, **American Lung Association/ American Thoracic Society International Meeting**, May 2001, San Francisco; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl., 2001

Kulhankova K. National Survey of Endotoxin in Housing – Preliminary Results. Oral presentation, Occupational and Environmental Health Seminar Series, **College of Public Health, The University of Iowa**, May 2000

Kulhankova K. The United States, Countries of European Union and Countries of Eastern Europe – Trends in Selected Health, Socio-demographic, and Economic Indicators. Lecture, **International Health Course, The University of Iowa**, December 2000

Thorne PS, **Kulhankova K**, O'Neill ME, Vojta PJ, Friedman W, Zeldin DC. A National Survey of Endotoxin in House Dust. Poster, **American Lung Association/ American Thoracic Society International Meeting**, May 2000, Toronto, Ontario, Canada; Abstract published in American Journal of Respiratory and Critical Care Medicine, Suppl., 2000

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Community Service:

Leadership Board, Parent-Teacher Organization, Ernest Horn School, Iowa City, IA, 7/2013 - present
Leadership Board, Before and After School Program, Ernest Horn School, Iowa City, IA, 7/2014-present
Parent Advisory Board, University of Iowa Hospitals and Clinics Child Care Center, 2011-2013
Judges Committee Scientific Presentations, Eastern Iowa Science and Engineering Fair, Cedar Rapids, IA, 2004
Czech and Slovak National Museum and Library in Cedar Rapids, Iowa, Volunteer, 1998 – 2006

Languages:

English (excellent), Slovak (native), Czech (excellent), Polish and Russian (passive).

Computer Skills:

Microsoft Office Environment, SAS Statistical Software, Prism, SigmaPlot, SigmaStat, FlowJo, Adobe Photoshop, ImageJ, Olympus, Leica and Zeiss confocal and fluorescent microscope operational platforms, Eluminate Live Web-conferencing.