

Curriculum Vita

Kristen Lee Williams Walton, PhD

CONTACT
Department of Biology
Missouri Western State University
4525 Downs Drive
St. Joseph, MO 64507
Phone: 816-271-5613
Email: kw Walton1@missouriwestern.edu

EDUCATION AND TRAINING

- 2001 – 2006 SPIRE Postdoctoral Fellow, University of North Carolina at Chapel Hill, Chapel Hill, NC
- The Seeding Postdoctoral Innovators in Research and Education (SPIRE) fellows combine research training at the University of North Carolina-Chapel Hill, teaching undergraduate-level classes at one of eight partner historically minority colleges and universities, and attending professional development workshops and seminars. <http://spire.unc.edu>
- 2001 PhD in physiology, University of North Carolina at Chapel Hill, Chapel Hill, NC
- Dissertation title: "Endocrine and paracrine actions of growth hormone and insulin-like growth factor-I in normal and diseased bowel"
 - Dissertation advisor: Dr. P. Kay Lund
- 1996 BS in biology with minors in chemistry and French, *summa cum laude* in the Honors College, Missouri State University (formerly Southwest Missouri State University), Springfield, MO

TEACHING EXPERIENCE

- 2012-present Associate Professor, Department of Biology, Missouri Western State University
Courses taught include: Pathophysiology, Animal Physiology, Molecular Basis of Disease, Immunology, Principles of Biology, Principles of Cell Biology, Medical and Public Health Microbiology, Anatomy & Physiology
- 2006-2012 Assistant Professor, Department of Biology, Missouri Western State University. Courses taught include: Pathophysiology, Medical and Public Health Microbiology, Anatomy & Physiology, Principles of Biology, Principles of Organismal Biology lab, Principles of Cell Biology, Immunology, Molecular Basis of Disease.
- 2006 Visiting Assistant Professor / SPIRE Postdoctoral Fellow. Taught Molecular Basis of Disease (undergraduate-level special topics course on molecular pathophysiology), videoteleconference class team-taught simultaneously at North Carolina Central University and the University of North Carolina at Chapel Hill
- Visiting Lecturer, taught cardiovascular physiology section (9 class sessions) of Introduction to Physiology (undergraduate allied health majors), University of North Carolina at Chapel Hill
- 2005 Visiting Lecturer, cardiovascular physiology section (8 class sessions) of Introduction to Physiology (first-year pharmacy students and upper-level undergraduates), University of North Carolina at Chapel Hill
- Visiting Assistant Professor / SPIRE Postdoctoral Fellow. Taught Immunology (undergraduate biology majors), via videoteleconference to University of North Carolina at Pembroke

- 2003 – 2004 Visiting Assistant Professor / SPIRE Postdoctoral Fellow at the University of North Carolina at Pembroke. Courses taught include Principles of Biology, lecture and laboratory (mixed non-majors and majors); Molecular Mechanisms of Disease and Drug Therapy (upper-division biology majors), team-taught at North Carolina Central University via simultaneous videoteleconference
- 1998 - 1999 Co-director, weekly journal club for Summer Undergraduate Research in Physiology (SURPh) Program, University of North Carolina at Chapel Hill
- 1998 Instructor, weekly discussion section, Medical Physiology course for first-year medical students, University of North Carolina at Chapel Hill
- 1997 Teaching assistant, weekly discussion section for Medical Physiology course for first-year medical students, University of North Carolina at Chapel Hill

UNDERGRADUATE STUDENT RESEARCH MENTORSHIP

- 2016 Holly Cornelius, senior, Missouri Western State University
Danielle Edelman, junior, Missouri Western State University
Kasey Maag, senior, Missouri Western State University
Project: “Effects of probiotic bacteria on experimental colitis in mice” (poster presentation)
- 2015 Sarah Lyle, junior, Missouri Western State University
Tony Erickson, junior, Missouri Western State University
Project: “Effects of probiotic bacteria on intestinal epithelial cells” (poster presentation)
- Erica Keffeler, senior, Missouri Western State University
Project: “Does lipopolysaccharide stimulate collagen or matrix metalloproteinase expression by cultured intestinal myofibroblasts?”
- 2014-2015 Benjamin Crumley, senior, Missouri Western State University
Project: “Effects of probiotic bacteria on intestinal epithelial cells” (poster presentation)
- Lauren Stewart, junior, Missouri Western State University
Project: “Effects of probiotic bacteria on intestinal epithelial cells” (poster presentation)
- 2014 Brenna Knott, senior, Missouri Western State University
Project: “Real-time quantitative PCR analysis of collagen gene expression in cultured cells” (poster presentation)
- 2012-2013 Jordan Carney, senior, Missouri Western State University
Project: “Effects of probiotic bacteria on the intestinal microbiota and on experimental colitis in mice” (poster presentation)
- 2012 Brandon Reynolds, junior, Missouri Western State University
Project: “Effects of probiotic bacteria on the intestinal microbiota and on experimental colitis in mice” (poster presentation)
- Tahani Atieh, senior, Missouri Western State University
Project: “Does lipopolysaccharide stimulate collagen or matrix metalloproteinase expression by cultured intestinal myofibroblasts?” (poster presentation)
- 2010 Anna Shipman, junior, Missouri Western State University
Project: “Does lipopolysaccharide stimulate collagen or matrix metalloproteinase expression by cultured intestinal myofibroblasts?”

- 2008-2010 Erica Pasch, junior/senior years, Missouri Western State University
Project: “Effects of triclosan on the normal intestinal microbiota and on susceptibility to experimental colitis in mice” (2 poster presentations and one oral presentation)
- 2008-2009 Summer Gemmell, senior, Missouri Western State University
Leah Voltmer, entering freshman, Missouri Western State University.
Project: “Effects of triclosan on the normal intestinal microbiota and on susceptibility to experimental colitis in mice” (Poster presentation)
- Andrew Gordon, senior, Missouri Western State University. **Project:** “Effects of lipopolysaccharide on collagen expression and secretion by cultured intestinal myofibroblasts” (poster presentation)
- 2007 Angela Mohamed, senior, Missouri Western State University. **Project:** “Effects of lipopolysaccharide on collagen expression and secretion by cultured intestinal myofibroblasts” (Oral presentation)
- 2005 (Co-mentor) Sadondria Richardson, rising sophomore, North Carolina A&T State University. **Project:** “Do soluble mediators produced by primary intestinal myofibroblasts influence the maturation of dendritic cells?” (Oral presentation)
- 2004 Leisha Collins, rising sophomore, Fayetteville Technical Community College. **Project:** “Are primary murine intestinal myofibroblasts responsive to lipopolysaccharide?” (Poster presentation)

RESEARCH TRAINING

- 2001 – 2006 Division of Gastroenterology and Hepatology, Department of Medicine, University of North Carolina at Chapel Hill
- Postdoctoral advisor: Dr. R. Balfour Sartor
 - Postdoctoral co-advisor (2001-2002): Dr. Nancy (Van Houten) Fisher
 - Research areas: 1) T cell responses to oral antigen in germ-free mice; 2) characterization of dendritic cell subsets and function in germ-free mice; 3) Responses of murine primary intestinal myofibroblasts to bacterial stimulation
- 1997 - 2001 Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill
- Dissertation advisor: Dr. P. Kay Lund
 - Research areas: Actions of growth hormone and insulin-like growth factor-I in intestinal growth, inflammation, and fibrosis
- 1996 Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill
- Rotation advisor: Dr. Sharon Milgram
 - Project: Characterization of an antibody-binding epitope by phage display
- 1995 Summer Medical and Research Training (SMART) Program, Baylor College of Medicine
- Advisor: Dr. JoAnne Richards
 - Project: Ovarian granulosa cell responses during pregnancy in the rat

HONORS AND AWARDS

- 2015 MWSU Foundation Award for Teaching Excellence, Missouri Western State University
- 2010-2011 Biology Scholars Program Research Residency, American Society of Microbiology
- 2009 Board of Governors Distinguished Professor award with Distinction in Scholarship, Missouri Western State University

- 2008 Outstanding Faculty Implementation of Critical Thinking award, Missouri Western State University
- 2007 American Physiological Society Teaching of Physiology Section Research Recognition Award for poster presented at Experimental Biology 2007
- 2007 Outstanding Instructor Award, Disability Services, Missouri Western State University (student-nominated award)
- 2001-2006 SPIRE Postdoctoral Fellowship, Department of Biology, University of North Carolina at Chapel Hill
- 2006 Poster of Distinction, Digestive Disease Week 2006 (meeting of the American Association of Gastroenterologists). This award is given to the top 10% of abstracts submitted for poster presentation.
- 2005 Poster of Distinction, Center for Gastrointestinal Biology and Disease Annual Research Retreat, University of North Carolina at Chapel Hill
- 2004 Poster of Distinction, Digestive Disease Week 2004 (meeting of the American Association of Gastroenterologists). This award is given to the top 10% of abstracts submitted for poster presentation.
- 1997-2001 Howard Hughes Medical Institute Predoctoral Fellowship

PROFESSIONAL SERVICE

- 2013-present Judge, Missouri Junior Academy of Science
- 2008-present Member, MWSU Health Professions Scholarship Committee
- 2008-present Member, MWSU Institutional Animal Care and Use Committee (IACUC)
- 2008-present Member of Scientific Review Committee and Judge for the Mid-America Regional Science and Engineering Fair (MARSEF), Missouri Western State University
- 2008-present Member, Editorial Board, *Bioscene*
- 2002-present Ad hoc reviewer, *American Journal of Physiology*
- 2008-present Ad hoc reviewer, National Center for Case Study Teaching in Science
- 2016 Ad hoc reviewer, *Health Education Journal*
- 2016 Ad hoc reviewer, *World Journal of Gastroenterology*
- 2015 Member, MWSU Professional Leave Committee
- 2015 Program Chair, 59th Annual Meeting of ACUBE (Association of College and University Biology Educators)
- 2012-2014 Member, MWSU Salary Committee (2013-2014 Chairperson)
- 2012 Conducted biotechnology techniques workshop, Summer Biotechnology Academy for area high school students, Western Institute

- 2008-2012 Panelist, faculty panel for parents at New Student Registration sessions, Missouri Western State University
- 2010-2012 Reviewer, Molecular Basis of Disease textbook for non-majors, Taylor and Francis publishers
- 2009-2012 Member, Steering Committee, Association of College and University Biology Educators (ACUBE)
- 2008-2012 Member, Mid-America Regional Science and Engineering Fair (MARSEF) committee, Missouri Western State University
- 2011 Panelist, faculty book review, The Immortal Life of Henrietta Lacks, sponsored by the Missouri Western State University Honors program
- 2008-2010 Member, MWSU Academic Honesty Committee
- 2007-2009 Member, Critical Thinking Steering Committee, Missouri Western State University
- 2007-2008, 2010 Demonstrated biology-related topics each February at Super Science Saturday, St. Joseph Museum Society (half-day open house for community families)
- 2008-2009 Chair, MWSU Academic Honesty Committee
- 2008, 2010 Panelist, faculty panel for Western Welcome New Faculty Orientation, Missouri Western State University
- 2007 Ad hoc reviewer, *Bioscene*
- 2007 Ad hoc reviewer for pre-revision review of textbook *Essential Biology with Physiology*, 2nd Ed., by Campbell, Reece, & Simon. Pearson Benjamin Cummings, publishers.
- 2006-2008 Ad hoc reviewer, *Clinical and Experimental Immunology, Immunology*
- 2006, 2008 Presented seminar, "Finding Summer Research Internships" for Tri Beta Biological Honor Society meeting, Missouri Western State University
- 2006 Workshop co-facilitator, "Tools of Engagement: Case Studies in Science" for participants at the MORE Division/NIGMS Institutional Research and Career Development Award (IRACDA) Annual Retreat, Kansas City, MO
- 2001-2006 Ad hoc reviewer, *Gastroenterology*

PROFESSIONAL DEVELOPMENT AND MEMBERSHIPS

- 2008-present Member, Association of College and University Biology Educators
- 2004-present Member, American Physiological Society
- 2006-present Graduate member, Tri Beta Biological Honor Society
- 2007, 2015 Member, Missouri Academy of Science
- 2007 Attended 2-day "Critical Thinking Workshop" on helping students develop critical thinking skills, Missouri Western State University

- 2006 Attended “UNC Leadership Symposium” on development of leadership and conflict resolution skills, University of North Carolina at Chapel Hill
- 2001-2006 Attended ongoing workshops and seminars on instructional technology, including use of a SMARTBoard, Blackboard courseware, videoteleconferencing technology, and web authoring
- 2006 Attended “Strategies for Success” workshop on strategies to increase active learning and student engagement in the classroom, Virginia Commonwealth University, sponsored by Benjamin Cummings publishers
- 2005 Selected to attend “Teaching Creative Problem Solving” workshop, University of Washington, sponsored by Chautauqua Short Courses for Faculty Development
- 2002, 2004-2006 Attended professional development workshops on various topics, including using active learning techniques in the classroom, grantsmanship, leadership skills, using technology in the classroom, and diversity in the classroom and in the sciences. Institutional Research and Career Development Award (IRACDA) Annual Retreat (Summers of 2002, 2004, and 2005)
- 2004 Attended “Research on Teaching and Learning in the Sciences” workshop on approaches to and publication of education research by Drs. Richard Felder and Rebecca Brent, North Carolina State University
- 2004 Attended “Student-Centered Activities for Large Enrollment Undergraduate Programs (SCALE UP) workshop: Teaching college biology, chemistry, and physics through team-based experiments instead of lectures” by Dr. Robert Beichner, North Carolina State University
- 2003 Completed SPIRE teaching workshop series by Dr. Ed Neal, Director of the Center for Teaching and Learning, University of North Carolina at Chapel Hill (8-session series of workshops covering pedagogical topics such as student learning styles, classroom management, teaching critical thinking skills, and evaluating student learning)
- 2003 Attended 1-day workshop by Dr. Malcolm Campbell, Davidson College, on several topics such as getting students involved in lecture, using versus not using IT in the science classroom, and faculty experiences at a primarily undergraduate institution
- 2002 Completed “Effective College Teaching” 2-day workshop led by Drs. Richard Felder and Rebecca Brent, North Carolina State University

INVITED RESEARCH SEMINARS

- November 2008 Department of Biological Sciences, Missouri University of Science & Technology, Rolla, MO
- October 2007 Tri Beta Biological Honor Society, Missouri Western State University, St. Joseph, MO
- November 2005 Department of Biology, Assumption College, Worcester, MA
- February 2004 Department of Biology, University of North Carolina at Pembroke, Pembroke, NC

PUBLICATIONS: PAPERS

1. **Walton KLW.** Improvement in student data analysis skills after out-of-class assignments. In press, *Journal of Biology and Microbiology Education*.

2. **Walton KLW**. Using a popular science nonfiction book to introduce biomedical research ethics in a biology majors course. *Journal of Microbiology and Biology Education* 2014;15(12):240-242.
3. Rybarczyk BJ and **KLW Walton**. The development of an instrument to assess students' data analysis skills in molecular biology. *Journal of Biology and Microbiology Education* 2014;15(12):259-267.
4. Uno, J and **KLW Walton**. Teaching and the postdoctoral experience: Impact on transition to faculty positions. *American Journal of Physiology: Gastrointestinal & Liver Physiology* 2014;306(9):G739-G740.
5. Deng S, **Walton KLW**, Blue RE, MacNaughton K, Magness ST, and PK Lund. Mucosal healing and fibrosis after acute or chronic inflammation in wild type FVB-N mice and C57BL6 procollagen alpha1(I)-promoter-GFP reporter mice. *PLoS ONE* 2012;7(8):e42568.
6. **Walton KLW**. Teaching the role of secretin in regulation of gastric acid secretion using a classic paper by Dr. Leonard Johnson and Dr. Morton Grossman. *Advances in Physiology Education* 2009;33(3):165-168.
7. **Walton KLW** and JC Baker. Group projects as a method of promoting student scientific communication and collaboration in a public health microbiology course. *Bioscene* 2009;35(2):16-22.
8. **Walton KLW**, Holt L, and RB Sartor. Lipopolysaccharide activates innate immune responses in murine intestinal myofibroblasts through multiple signaling pathways. *American Journal of Physiology: Gastrointestinal & Liver Physiology* 2009;296:G601-611.
9. **Walton, KLW** and Rybarczyk, BJ. Hypothesis Modification Activity. In: College Science Teachers Guide to Assessment, TR Lord, DP French, and LW Crow, Eds. NSTA Press, Arlington, VA. 2009.
10. Rybarczyk, BJ and **Walton, KLW**. Feedback as a Learning Opportunity. *Teaching Tips - Best Practices for College Science Teaching*. Society for College Science Teachers, 2008.
11. **Walton KLW**, Galanko JA, Sartor RB, and NC Fisher. T cell-mediated oral tolerance is intact in germ-free mice. *Clinical and Experimental Immunology* 2006;143:503-512.
12. **Walton KLW**, He JP, Kelsall BL, Sartor RB, and NC Fisher. Dendritic cells in germ-free and specific pathogen-free mice are similar in phenotype and antigen-presentation function. *Immunology Letters* 2006;102(1):16-24.
13. **Walton KLW**. The case of Baby Joe: chronic infections in an infant. The National Center for Case Study Teaching in Science Case Collection [Online database of peer-reviewed case studies]. State University of New York at Buffalo, <http://ublib.buffalo.edu/libraries/projects/cases/ubcase.htm>. Date posted: December 13, 2005.
14. **Williams KL**, Fuller CR, Mohapatra NK, Wang J, Fagin J, and PK Lund. Mesenchymal IGF-I: paracrine actions in the intestine, distinct from endocrine effects. *American Journal of Physiology: Gastrointestinal and Liver Physiology* 2002;283(4):G875-85.
15. Wilkins H, Ohneda K, Keku T, Fuller CR, D'Ercole AJ, **Williams KL**, and PK Lund. Reduction of spontaneous and irradiation-induced apoptosis in the small intestinal mucosa of IGF-I transgenic mice. *American Journal of Physiology: Gastrointestinal and Liver Physiology* 2002;283(2):G457-G464.
16. **Williams KL**, Fuller CR, Dieleman LA, DaCosta CM, Haldemann KM, Sartor RB, and PK Lund. Enhanced survival and mucosal repair following dextran sodium sulfate-induced colitis in transgenic mice that overexpress growth hormone. *Gastroenterology* 2001;120:923-937.
17. Pucilowska JB, **Williams KL**, and PK Lund. Fibrogenesis IV. Fibrosis and inflammatory bowel disease: Cellular mediators and animal models. *American Journal of Physiology: Gastrointestinal and Liver Physiology* 2000;279:G653-G659.

ABSTRACTS (*denotes undergraduate author)

1. **Walton KLW.** Development of a survey instrument to assess course-based undergraduate research experiences in an upper-division molecular pathophysiology course. Society for the Advancement of Biology Education Research (SABER) meeting, July 2016. (roundtable presentation)
2. Lyle S*, Erickson T*, and **KLW Walton.** Effects of probiotic bacteria on cytokine expression in cultured intestinal epithelial cells. Experimental Biology, April 2016. (poster presentation)
3. **Walton KLW.** Improvement in student data analysis skills after out-of-class assignments. Experimental Biology, April 2016. (Poster presentation)
4. **Walton KLW.** Assessment of improvement in student data analysis skills after out-of-class assignments. Association of College and University Biology Educators (ACUBE) meeting, October 2015. (Poster presentation)
5. Stewart L*, Crumley B*, and **KLW Walton.** Effects of probiotic VSL#3 on cytokine and tight junction protein expression in intestinal epithelial cells. Experimental Biology, April 2015. (Poster presentation)
6. **Walton, KLW.** Combining blood glucose testing with analysis of a classic paper in an endocrine physiology lab activity. Experimental Biology, April 2015. (Poster presentation)
7. **Walton, KLW.** Incorporating human subjects research ethics into a biology majors course. Association of College and University Biology Educators (ACUBE) meeting, October 2014. (Poster presentation)
8. **Walton KLW.** Introducing bioethics in a molecular pathophysiology course using a popular science nonfiction book. Experimental Biology meeting, April 2014. (Poster presentation)
9. **Walton KLW.** Course design and outcomes for an online pathophysiology course. Association of College and University Biology Educators (ACUBE) annual meeting, October 2012. (Poster presentation)
10. Rybarczyk BJ and **KLW Walton.** Research experience as a factor in the development of undergraduate biology students' visual literacy skills. Society for the Advancement of Biology Education Research (SABER) annual meeting, July 2012. (Oral presentation by BJR)
11. Baker J and **KLW Walton.** Perspectives in microbiology: using video-based assignments to enhance students' historical and global understanding of infectious diseases. American Society for Microbiology Conference for Undergraduate Educators (ASMCUE), June 2012. (Poster presentation)
12. **Walton KLW.** Assessment of online course design for a lecture-only pathophysiology course. Experimental Biology meeting, April 2012. (Poster presentation)
13. **Walton KLW.** Converting a traditional, lecture-only pathophysiology course to an online format. Association of College and University Biology Educators (ACUBE) annual meeting, October 2011. (Oral presentation)
14. **Walton KLW.** Assessing improvement in student data analysis skills in a microbiology course for allied health majors. American Society for Microbiology Conference for Undergraduate Educators, June 2011. (Poster)
15. Rybarczyk B and **Walton KLW.** A model of visual literacy skills in undergraduate biology education. National Science Teachers' Association annual meeting, March 2011. (Oral presentation by B Rybarczyk)
16. **Walton KLW.** Use of primary literature in a human disease project in a pathophysiology course for allied health majors. ACUBE annual meeting, October 2010. (Poster)

17. Rushin J, Ashley D, Baker J, Chevalier C, Daggett M, Eckdahl T, Hartman K, Koy K, Mills M, **Walton KLW**. Two Lab Learning Blocks in General Biology: Pros and Cons. Missouri Academy of Science, April 2010. (Poster)
18. **Walton KLW**. Incorporating a primary literature-based project into a non-majors pathophysiology course. Experimental Biology meeting, April 2010. (Poster)
19. Pasch E*, **Walton KLW**. Triclosan may alter the composition of the intestinal microbiota and increase the susceptibility to experimental murine colitis. Experimental Biology meeting, April 2010. (Poster)
20. **Walton KLW**. Incorporating primary literature into upper- and lower-division undergraduate biology courses. ACUBE annual meeting, October 2009. (Oral presentation)
21. Rushin J, Ashley D, Baker J, Chevalier C, Daggett M, Eckdahl T, Hartman K, Koy K, Mills M, and **Walton KLW**. Two-week long learning cycle blocks (LCB's) in general studies biology: pros and cons. ACUBE annual meeting, October 2009. (Poster)
22. Gordon, AJ* and **KLW Walton**. Effects of lipopolysaccharide on collagen expression in myofibroblasts. Missouri Academy of Science, April 2009. (Poster)
23. Pasch E*, Voltmer L*, Gemmell S*, Walter J, and **KLW Walton**. Effects of triclosan on the normal intestinal microbiota and on susceptibility to experimental murine colitis. Experimental Biology meeting, April 2009. (Poster)
24. **Walton KLW** and BJ Rybarczyk. Assessing biology students' critical thinking abilities using a skills-based classification model. Experimental Biology meeting, April 2009. (Poster)
25. **Walton KLW**. Case studies and data analysis assignments as tools for improving critical thinking skills in an anatomy & physiology course. ACUBE annual meeting, October 2008. (Poster)
26. Pasch E*, Voltmer L*, and **KLW Walton**. Effects of triclosan on the normal intestinal microbiota and on susceptibility to experimental colitis in mice. Summer Research Institute Symposium, July 2008. (Poster)
27. **Walton KLW**. Use of case studies and data analysis to improve critical thinking skills in a one-semester anatomy & physiology course. Experimental Biology meeting, April 2008. (Oral presentation)
28. Rushin J, Baker J, Boutwell D, Chevalier C, Daggett M, Eckdahl T, Seeger S, and **Walton K**. Using two-week learning cycle blocks (LCB's) as a way for non-major general biology students to do science in the lab. National Association of Biology Teachers meeting, November 2007. (Symposium presentation by J. Rushin)
29. **Walton KLW** and Rybarczyk BJ. Use of case studies and data analysis to increase student engagement and learning in a molecular basis of disease course. Experimental Biology meeting, April 2007. (Poster)
30. **Walton KLW**. Group poster presentations as a method of improving student communication and learning. Experimental Biology meeting, April 2007. (Poster)
31. **Walton KLW**, Collins L*, and Sartor RB. Lipopolysaccharide activates innate immune responses in murine intestinal myofibroblasts through multiple signaling pathways. *Gastroenterology* 2006;130(4):A698. Digestive Disease Week, May 2006. (Poster)
32. **Walton KLW**, Collins L*, and Sartor RB. Lipopolysaccharide activates innate immune responses in murine intestinal myofibroblasts. Experimental Biology meeting, April 2006. (Poster)

33. Richardson S*, **Walton KLW**, and Moran J. Look who's talking: communication between myofibroblasts and dendritic cells. Partnership for Minority Advancement in Biomedical Sciences (PMABS) Summer Research Program annual symposium, August 2005. (Oral presentation)
34. **Walton KLW**, Karrasch T, and Sartor RB. Endogenous interleukin-10 regulates lipopolysaccharide-induced secretion of proinflammatory molecules in primary murine intestinal myofibroblasts. *Gastroenterology* 2005;128(4):A659. Digestive Disease Week, May 2005. (Poster)
35. Collins L* and **Walton KLW**. Do primary intestinal myofibroblasts respond to lipopolysaccharide? Partnership for Minority Advancement in Biomedical Sciences (PMABS) Summer Research Program annual symposium, August 2004. (Poster)
36. **Walton KLW**, Sartor RB, and NC Fisher. Oral tolerance in intact in germ-free mice despite the lack of enteric bacterial colonization. *Gastroenterology* 2004;126(4):A289. Digestive Disease Week, May 2004. (Poster, selected as a "Poster of Distinction")
37. Hutchins GG and **Walton KLW**. Pharmacology and pathophysiology for undergraduate students: technology enhances the learning experience. Experimental Biology, April 2004. (Poster)
38. **Williams KL**, He JP, Kelsall BL, Sartor RB, and N Van Houten. Dendritic cells in germ-free and SPF mice are similar in phenotype and in vitro antigen-presentation function. Keystone Symposium on Regulation of Mucosal Inflammation, April 2003. (Poster)
39. Lerea LS, Baines A, Hutchins GG, McVey M, Key SCS, White CD, **Williams KL**, and W Bollenbacher. SPIRE – An Innovative Model of Postdoctoral Training Enhances Science Education at Historically Minority Universities. American Association for the Advancement of Science annual meeting, February 2003. (Poster)
40. **Williams KL**, He JP, Kelsall BL, Sartor RB, and N Van Houten. Impaired in vivo antigen-specific T cell responses to oral antigen in germ-free mice despite normal presence of dendritic cells in mucosal sites. 11th International Congress of Mucosal Immunology, June 2002. (Oral presentation).
41. **Williams KL**, Miller ME, DaCosta CD, Dieleman LA, Sartor RB, and PK Lund. Evidence for inhibition of cytokine action by growth hormone during recovery from experimental enterocolitis. *Regulatory Peptides* 2000;94:20. 13th International Symposium on Regulatory Peptides, June 2000. (Poster)
42. Miller ME, Goebel HN, **Williams KL**, Keku TO, Pucilowska JB, Sartor, RB, and PK Lund. Suppressor of cytokine signaling-3 (SOCS-3) mRNA is preferentially induced during experimental enterocolitis, ulcerative colitis and Crohn's disease. *Regulatory Peptides* 2000;94:67. 13th International Symposium on Regulatory Peptides, June 2000. (Poster)
43. **Williams KL**, Fuller CR, Dieleman LA, DaCosta CM, Clark KS, Sartor RB, and PK Lund. Enhanced survival and mucosal repair following DSS colitis in transgenic mice that overexpress bovine growth hormone. *Gastroenterology* 2000;118(4):A556. Digestive Disease Week, May 2000. (Poster)
44. **Williams KL**, Fuller CR, Mohapatra NK, Wang J, Fagin J, and PK Lund. Enhanced growth of intestinal mucosa in SMP8-IGF-I transgenic mice that overexpress insulin-like growth factor-I in intestinal mesenchymal cells via the alpha smooth muscle actin promoter. *Gastroenterology* 1999;116(4):A585. Digestive Disease Week, May 1999. (Poster)
45. **Williams KL**, Ohneda K, Fuller CR, and PK Lund. Differential effects of chronic IGF-I and GH excess on apoptosis in the small intestine. Endocrine Society Annual Meeting, New Orleans, June 1998. (Oral presentation)