## Kimberly E. Walker, Ph.D., MT(ASCP) Program Director, Medical Diagnostics 303-C Willard Hall

Date:	June 2022
Contact Information:	Department of Medical & Molecular Sciences University of Delaware 303-C Willard Hall Education Building <u>kewalker@udel.edu</u> 302-831-8737
Education:	May, 1993 Ph.D., Microbiology and Immunology, Medical College of Virginia / VA Commonwealth University, Richmond, VA "Isolation and Characterization of the Dermonecrotic Toxins of <i>Bordetella</i> species" <b>Advisor:</b> Alison A. Weiss, Ph.D.
	May 1986 B.S., Medical Technology, University of Maryland at Baltimore, Baltimore, MD
Post Graduate	2000-01, ASM/AAAS Congressional Science Fellow, Personal Office of Paul D. Wellstone, US Senator for Minnesota <b>Supervisor:</b> John H. Gilman, M.D., J.D.
	July, 1999-August, 2000 Postdoctoral Fellow, UMB Dental School/Morgan State University, Baltimore, MD <b>Advisor:</b> Henry N. Williams, Ph.D.
	March 1997-July 1999, Post-doctoral fellow, Center of Marine Biotechnology, UMBI, Baltimore, MD <b>Advisor:</b> M. Robert Belas, Ph.D.
	June 1993-Feb 1997, Post-doctoral fellow, Center for Vaccine Development, UMAB, Baltimore, MD <b>Advisor:</b> James P. Nataro, M.D., Ph.D.
Certification:	ASCP Medical Technologist, 1986-current
Employment History:	
Academic	2020-2022, Program Director, CLSC and PHBT, Lorain County Community College, Elyria, Ohio
	2001-2011, Assistant Professor of Medicine, Department of Medical and Research Technology (DMRT), University of Maryland School of Medicine, Baltimore, MD
	2006-2011, Graduate Program Director, DMRT
Other Employment	2011-2020, Federal Specialist: Clinical Microbiology and Biosafety American Society for Microbiology, Washington, DC
	1986-1987, Medical Technologist, The Allentown Hospital and Allentown Osteopathic Medical Center (now St. Luke's)
Professional Societies:	National Association of Advisors for the Health Professions (NAAHP)

	American Society for Microbiology (ASM) American Society of Clinical Pathologists (ASCP) American Society for Clinical Laboratory Science (ASCLS) American Association for Clinical Chemistry (AACC) American Association for the Advancement of Science (AAAS)
Honors and Awards:	2020, ASM Exceptional Achievement Award for COVID Registry Activities Phi Kappa Phi Honor Society 1990-1992, ASM Pre-doctoral Minority Fellowship 1990, ASM Travel Award Recipient 1989 NSF Minority Graduate Fellow Honorable Mention
Administrative Service:	2022: Health and Wellness Dean Search Committee 2021 – current: LCCC Curriculum Committee 2007-2010: School of Medicine Communications Advisory Panel 2006-2011: Chair of Graduate Program Committee, DMRT 2003-2009: School of Medicine Faculty Assembly elected representative.
Local and National Service:	Maryland Forensic Laboratory Advisory Committee, 2008-2013 Tele-Screener, AAAS Kavli Science Journalism Award, 2010 AAUW International Fellowship Panel, 2009-2011 Radio Screener, AAAS Science Journalism Award, 2007-08 Mentor, UMBC Meyerhoff Student, 1997-2012
<u>Teaching Service</u> :	Course Director (full responsibility) for: MMSC 407/607 Clinical Chemistry MMSC 605 Graduate Regulations and Fiscal Matters MMSC 438/439 Diagnostic Bacteriology MMSC 402 Body Fluid Analysis CLSC 221 - Clinical Chemistry 10 credits CLSC 213 - Clinical Microbiology 9 credits PHLB 121 - Phlebotomy Practicum 3 credits MEDT 490-Pathogenic Microbiology 4 credits MEDT 471-Parasitology/Mycology 3 credits MEDT 454-Applied Cellular and Mol. Biology 4 credits MEDT 422-Computer Applications 2 credits MEDT 628-Graduate Seminar 1 credit MEDT 687-Quality Control and Regulations 2 credits MEDT 671-Molecular and Cellular Biology 3 credits MEDT 491-Clinical Immunology 4 credits
	Shared Responsibility: PHLB 112 – Introduction to Lab MEDT 410-Product Develop & Commercial Appl.1 credit MEDT 402-Comprehensive Review 1 credit MEDT 408-Research Project 1-3 credits
Invited Lecture	October 4, 2018: Georgetown University, MCB 606: Public Policy for Scientists "Science Communication: The Federal Agencies and Congress"
Publications:	Duodenoscope Surveillance Sampling and Culturing: Reducing the Risks of Infection Developed by the FDA/CDC/ASM Working Group on Duodenoscope Culturing February 2018
	Journal articles:

Caliendo, A., M. Couturier, C. Ginocchio, K. Hanson, M. Miller, **K. Walker**, and G. Frank. 2016. Maintaining Life-Saving Testing for Patients with Infectious Diseases: IDSA, ASM, and PASCV Recommendations on the Regulation of Laboratory Developed Tests. 2016. <u>*Clin Infect Dis.* 63(2):</u> 151-154.

Walker, K. E. and Meghan O'Brien. 2015. The Policy of Microbiology. <u>*Clinical Microbiology*</u> <u>Newsletter</u>. **37**:199-202.

Snyder, A., H. Williams, M. Baer, **K. Walker**, and O. Stine. 2002. 16S rDNA Sequence Analysis of Environmental *Bdellovibrio* and Like Organisms (BALO) Reveals Extensive Diversity. *International Journal of Systematic and Evolutionary Microbiology*. **52**:2089-2094.

**Walker, K.**, S. Moghaddame-Jafari, C. Lockatell, D. Johnson, and R. Belas. 1999. ZapA, the IgAdegrading metalloprotease of *Proteus mirabilis*, is avirulence factor expressed specifically in swarmer cells. <u>Mol. Microbiol. **32**:825-826</u>

Temple, L., A. Weiss, **K. Walker**, H. Barnes, V. Christensen, D. Miyamoto, C. Shelton, and P. Orndorf. 1998. *Bordetella avium* virulence measured *in vivo* and in vitro. <u>Infect. Immun. 66:5244-525</u>1

Nataro, J.P., Y. Deng, Y. Deng, and **K. Walker**. 1994. AggR, an Rns homolog, is required for the expression of aggregative adherence fimbria I in entero-aggregative *Escherichia coli*. <u>J. Bact.</u> <u>176:4691-4699</u>

Walker, K.E. and A. A. Weiss. 1994. Dermonecrotic toxin sequences in the genus *Bordetella*. *Infect. Immun.* 62:3819-3828

Weiss, A., A. Melton, **K. Walker**, C. Andraos-Selim, and J. Meidl. 1989. Use of the promoter fusion transposon *Tn5lac* to identify mutations in *Bordetella pertussis vir*-regulated genes. <u>Infect.</u> <u>Immun 57:2674-2682</u>

Book Chapters:

**Kimberly E. Walker**, Connie R. Mahon, and George Manuselis. *Enterobacteriaceae*. In: Mahon,C., Lehman, D. and Manuselis, G.(Eds.), *Textbook of Diagnostic Microbiology*. Philadelphia, PA: W.B. Saunders, Co., 6<sup>th</sup> Edition 2018

**Kimberly E. Walker,** Connie R. Mahon, and George Manuselis. *Enterobacteriaceae*. In: Mahon,C., Lehman, D. and Manuselis, G.(Eds.), *Textbook of Diagnostic Microbiology*. Philadelphia, PA: W.B. Saunders, Co., 5<sup>th</sup> Edition 2015

**Kimberly E. Walker,** Amy J. Horneman, Connie R. Mahon, and George Manuselis. *Enterobacteriaceae*. In: Mahon,C., Lehman, D. and Manuselis, G.(Eds.), *Textbook of Diagnostic Microbiology*. Philadelphia, PA: W.B. Saunders, Co., 4<sup>th</sup> Edition 2010

**Kimberly E. Walker**, Amy J. Horneman, Connie R. Mahon, and George Manuselis. *Enterobacteriaceae*. In: Mahon,C., Lehman, D. and Manuselis, G.(Eds.), *Textbook of Diagnostic Microbiology*. Philadelphia, PA: W.B. Saunders, Co., 3<sup>rd</sup> Edition 2007

Selected Abstracts:

**K. Walker**., K. Fernando and J. Girón. 2007. Transposon mutagenesis of *Bacteriovorax stolpii* UKi2 and screening for *pilT* mutants. American Society for Microbiology (ASM) Annual Meeting

**K. Walker**. 2004. Identification of *Bacteriovorax* Flagellar Amplicons Using Primers with Homology to *fliA, flaA, flhDC, fliE, fliC, motAB*, and *flgC* from *E. coli*, *Yersinia* ssp. and *Pseudomonas* ssp. ASM Annual Meeting

Snyder, A., **K. Walker**, J. Johnson, and H. Williams. 2000. Environmental Bdellovibrios exhibit widespread molecular diversity using 16S PCR-RFLP and ribotyping analyses. ASM Annual Meeting

**Walker, K.**, S. Mogghadame-Jafari, and R. Belas. 1998. Analysis of the genes encoding an ABC transport mechanism exporting the *Proteus mirabilis* ZapA IgA degrading metalloprotease. Fallen Leaf Lake Conference

**Walker, K**., C. Lockatell, D. Johnson, and R. Belas. 1998. A metalloprotease negative *P. mirabilis* shows altered virulence in a mouse model of ascending urinary tract pathogenesis. ASM Annual Meeting

**Walker, K**. and J. Nataro. 1997. Domain structure-function studies of the AAF/I regulator, AggR. ASM Annual Meeting

**Walker, K**., and J. Nataro. 1995. Structure-function studies with AggR, the fimbrial regulator in entero-aggregative *Escherichia coli*. ASM Annual Meeting

**Walker, K.E.** and A.A. Weiss. 1993. Molecular studies of the *Bordetella* dermonecrotic toxin. Abstracts of the 16<sup>th</sup> Annual Extra-Chromosomal Elements and Molecular Genetics Meeting in PLASMID **30**:183

**Walker, K**. and A. Weiss. 1992. A genetic analysis of the dermonecrotic toxin activities in the genus *Bordetella*. ASM Annual Meeting

**Walker, K**. and A. Weiss. 1990. A comparative study of the dermonecrotic toxin activities of serotype D *Pasteurella multocida* and the genus *Bordetella*. Sixth Annual International Symposium on Pertussis

References:

Available upon request