

Ella M. Swierkosz, Ph.D
Curriculum Vitae

Academic Discipline

Medical and Diagnostic Microbiology

Education

<u>Institution</u>	<u>Degree</u>	<u>Year</u>	<u>Discipline</u>
University of Detroit, Detroit, Michigan	B.S.	1971	Biology
Wayne State University School of Medicine Department of Immunology and Microbiology Detroit, Michigan	M.S.	1974	Microbiology
Wayne State University School of Medicine Department of Immunology and Microbiology Detroit, Michigan	Ph.D.	1977	Microbiology and Immunology
<u>Postdoctoral training</u> University of Rochester Medical Center Department of Microbiology Rochester, New York		1977- 1979	Public Health and Clinical Microbiology (Accredited by the American Academy of Microbiology)

Certification and Honors

Diplomate, American Board of Medical Microbiology (October 1982)
Fellow, American Academy of Microbiology (December 1991)
President-Elect, Pan American Society for Clinical Virology (2004-2006)
President, Pan American Society for Clinical Virology (2006-2008)

Current Positions

1999 – Present

Professor, Department of Pathology
St. Louis University School of Medicine
St. Louis, Missouri

2011-Present

Director
SSM St. Louis Microbiology Laboratory
SSM St. Joseph Health Center
St. Charles, MO

August 2010-Present

CLIA Director
Missouri State Public Health Laboratory
Jefferson City, MO

1979 – Present

Director, Diagnostic Virology
Cardinal Glennon Children's Medical Center
St. Louis, Missouri

Professional Societies

American Society for Microbiology
Pan American Society for Clinical Virology
Pediatric Infectious Disease Society
Southwestern Association for Clinical Microbiology

Professional Activities-Hospital and University

Chair, Promotions Committee, Department of Pathology, St. Louis University School of Medicine
2008- Present

Infection Control Committee, Cardinal Glennon Children's Medical Center, 1979-Present.

Infection Control Committee, St. Louis University Hospital, 1997-August 2011

St. Louis University Faculty Senate, 1995 - 1999.

Biological Safety Committee, St. Louis University Medical Center, 1992-2005. Appointed Vice Chair 2001.

Member, Review Committee, Department of Psychiatry, St. Louis University School of Medicine. September 2005-November 2005.

Professional Activities-State and National

American Society for Microbiology Foundation Speaker, 1991-1992, 1992-1993

Guest reviewer, Diagnostic Microbiology and Infectious Disease, Clinical Microbiology Reviews, Journal of Pediatrics, Pediatric Infectious Disease Journal, Clinical Pediatrics, and Clinical Infectious Diseases

Editorial board Journal of Clinical Microbiology January 1991-1993. Reappointed for 1996-1998. Reappointed for 1999-2001. Reappointed for 2001-2003. Term ended June 2003.

Editorial board Journal of Clinical Virology, Appointed December, 1999-2007. Reappointed 2009-Present

National Committee for Clinical Laboratory Standards (NCCLS). Co-chairholder of subcommittee on Antiviral Susceptibility Testing, November 1995-2004.

Councilor, Pan American Group for Rapid Viral Diagnosis, 1994 - 1996.

Secretary-Treasurer, Pan American Society for Clinical Virology, 2000-2004.

President-Elect, Pan American Society for Clinical Virology, 2004-2006.

President, Pan American Society for Clinical Virology, 2006-2008.

Laboratory Practices Committee, American Society for Microbiology, appointed October, 2002. Reappointed September 2005, Reappointed September 2007

Member, Advisory Committee, Missouri Hospital Association. 2004-2007

Advisor, Clinical Laboratory Standards Committee (formerly NCCLS) Subcommittee on Viral Culture. Appointed November 2005-2006.

Member, Laboratory Pandemic Influenza Preparedness Committee, Missouri Department of Health and Senior Services, appointed January 2006-2007.

Ad hoc reviewer, Missouri State Public Health Laboratory System Performance Assessment, February 2, 2007, Columbia, MO.

Program Chair, 2008 Annual Meeting of the Southwestern Association for Clinical Microbiology, St. Louis, MO September 10-13, 2008.

PUBLICATIONS:

Papers:

1. Jollick, J.D. and E.M. Schervish. 1971. Genetic recombination in *Caulobacter*. J. Gen. Microbiol. 73:403-407.
2. Jollick, J.D., E.M. Schervish-Swierkosz and W.J. Brown. 1973. Nalidixic acid susceptibility testing of clinical isolates of *Serratia marcescens*. Antimicrob. Ag. Chemother. 4:532-537.
3. Chonmaitree, T., M.A. Menegus, E.M. Schervish-Swierkosz and E. Schwalenstocker. 1981. Enterovirus 71 infection: Report of an outbreak and review of the literature. Pediatrics 67:489-493.
4. Hinlicky, J., L.M. Dunkle and E.M. Swierkosz. 1982. Pseudo relapse of *Hemophilus influenzae* meningitis due to ECHO virus type 5. Amer. J. Dis. Child 136:844.
5. Arens, M. and E.M. Swierkosz. 1983. Simplified method for typing herpes simplex virus by restriction endonuclease analysis. J. Clin. Microbiol. 17:548-551.
6. Manzella, J., J. McConville, W. Valenti, M. Menegus, E.M. Swierkosz and M. Arens. 1984. An outbreak of herpes simplex virus type 1 gingivostomatitis in a dental practice. JAMA 252:2019-2022.
7. Swierkosz, E.M., M.Q. Arens and K.A. Rivetna. 1985. Problems associated with the use of (E)-5-(2-bromovinyl)-2'-deoxyuridine for typing herpes simplex virus. J. Clin. Microbiol. 21:459-461.
8. Swierkosz, E.M., M.Q. Arens, R.R. Schmidt and T. Armstrong. 1985. Evaluation of two immunofluorescence assays with monoclonal antibodies for typing herpes simplex virus. J. Clin. Microbiol. 21:643-644.
9. Arens, M.Q. and E.M. Swierkosz. 1986. Enhanced isolation of respiratory syncytial virus in cell cultures. J. Clin. Microbiol. 23:800-802.
10. Arens, M.Q. and E.M. Swierkosz. 1986. Strategy for efficient respiratory virus detection in pediatric specimens. Diagnostic Microbiol. Infect. Dis. 5:307-312.
11. Swierkosz, E.M., D.R. Scholl, J.L. Brown, J.D. Jollick and C.A. Gleaves. 1987. Improved DNA hybridization methodology for detection of acyclovir-resistant herpes simplex virus. Antimicrob. Agents Chemother. 31:1465-1469.
12. Gurevitz, M., I.T. Schulze, E.M. Swierkosz, M.Q. Arens and K.B. Schwarz. 1987. Effect of influenza B virus on nutrient transport in cultured epithelial cells. Laboratory Investigation 57:657-664.

13. Gleaves, C.A., E.M. Swierkosz, C.F. Lee and J.D. Meyers, 1988. Typing of HSV isolates with murine monoclonal antibodies. *Serodiagn. and Immunother. Infect. Dis.* 2:151-156.
14. Arens, M.Q., E.M. Swierkosz and V. Dilworth. 1988. Effects of sonication and centrifugation of clinical specimens on the recovery of herpes simplex virus. *Diagnostic Microbiol. Infect. Dis.* 11:137-145.
15. Swierkosz, E.M., L. Melvin, J.D. Miller, R. Flanders and M.W. Kline. 1989. Evaluation of the Abbott TESTPACK RSV enzyme immunoassay for detection of respiratory syncytial virus in nasopharyngeal swab specimens. *J. Clin. Microbiol.* 27:1151-1154.
16. Arens, M.Q. and E.M. Swierkosz. 1989. Detection of rotavirus by hybridization with a non-radioactive synthetic DNA probe and comparison with commercial enzyme immunoassays and silver-stained polyacrylamide gels. *J. Clin. Microbiol.* 27:277-1279.
17. Barton, L.L., A.D. Friedman, A.M. Sharkey, D.J. Schneller and E.M. Swierkosz. 1989. Impetigo contagiosa III: Comparative efficacy of oral erythromycin and topical mupirocin. *Impetigo therapy: Erythromycin vs. mupirocin. Pediatric Dermatology* 6:134-138.
18. Englund, J.A., M. Zimmerman, E.M. Swierkosz, J. Goodman, D.R. Scholl and H.H. Balfour, Jr. 1990. Herpes simplex virus resistant to acyclovir: a study in a tertiary care center. *Ann. Intern. Med.* 112:416-422.
19. Rajakumar, A., E.M. Swierkosz and I.T. Schulze. 1990. Sequence of an influenza virus hemagglutinin determined directly from a clinical sample. *Proc. Nat. Acad. Sci. USA* 87:4154-4158.
20. Barton L.L. and E.M. Swierkosz. 1992. A reconsideration of the epidemiology of respiratory virus infections. *Pediatric Rev. Commun.* 6:243-245.
21. Belshe R.B., E.M. Swierkosz, E.L. Anderson, F. Newman, S. Nugent, J. Maassab. 1992. Immunization of infants and young children with live attenuated trivalent cold-recombinant influenza A H1N1, H3N2, and B vaccine. *J. Infect. Dis.* 165:727-32.
22. Rajakumar A., M. Inkster, I.D. Manger, E.M. Swierkosz, and I.T. Schulze. 1992. The use of the polymerase chain reaction in influenza virus detection and characterization. pp. 260-271. In Becker, V., and G. Durai (ed.), *Frontiers of Virology*. Springer-Verlag, Heidelberg.
23. Naqvi, S.H., E.M. Swierkosz, J. Gerard and J.R. Mills. 1993. Presentation of *Yersinia enterocolitica* enteritis in children. *Pediatr. Infect. Dis. J.* 12:386-389.
24. Swierkosz, E.M., F. Newman, E. Anderson, S. Nugent, and R.B. Belshe. 1994. Multi-dose, live attenuated, cold recombinant trivalent influenza vaccine in infants and young children. *J. Infect. Dis.* 169:1121-1124.

25. Swierkosz, E.M., D. Erdman, T. Bonnot, C. Schneiderheinze, and J. Waner. 1995. Isolation of a naturally occurring variant of parainfluenza 3 virus. *J. Clin. Microbiol.*, 33:1839-1841.
26. Ohlemeyer, C.L., L.L. Hornberger, D.A. Lynch, and E.M. Swierkosz. 1998. Diagnosis of *Trichomonas vaginalis* in adolescent females: INPOUCH TV culture versus wet mount microscopy. *J Adolescent Health* 22: 205-208.
27. Echevarria, J.E., D.D. Erdman, E.M. Swierkosz, B.P. Holloway, and L. J. Anderson. 1998. Simultaneous detection and identification of human parainfluenza viruses 1,2,3 from clinical samples by multiplex PCR. *J. Clin. Microbiol.* 36: 1388-1391.
28. Ginocchio, C.C., E. Swierkosz, A.J. McAdam, M. Marcon, G. Storch, A. Valsamakis, S. Juretschko, J. Romero, and B. Yen-Lieberman. 2010. Multi-center study of clinical performance of the 3M Rapid Detection RSV Test. 48: 2337-2343.

Book Chapters and Monographs

1. Swierkosz, E.M. 1985. Nosocomial herpes simplex virus infections. *Microbiology - 1985*. American Society for Microbiology, Washington, DC.
2. Arens, M.Q., A. Knutsen, K.B. Schwarz, S. Roodman and E.M. Swierkosz. 1987. Multiple and persistent viral infections in a patient with bare lymphocyte syndrome. *J. Infect. Dis.* 156:837-841.
3. Swierkosz, E.M. and M.A. Menegus. 1989. Recent advances in viral diagnosis. *Current Opinion in Infectious Diseases* 2:241-243.
4. Swierkosz, E.M. Rhabdoviruses. 1990 *In* Murray, P.M. et al. (eds.) *Medical Microbiology*. C.V. Mosby Co., St. Louis.
5. Swierkosz, E.M. Chlamydiae. 1990 *In* Murray, P.M. et al. (eds.) *Medical Microbiology*. C.V. Mosby Co., St. Louis.
6. Swierkosz, E.M. 1991. Mumps. *In* Hausler, W.J. et al. *Manual of Clinical Microbiology*, 5th edition. American Society for Microbiology, Washington, D.C.
7. Swierkosz, E.M. 1992. Antiviral susceptibility testing: Coming of age. *ASM News* 58: 83-87.
8. Swierkosz, E.M. and T. Bonnot. 1992. Pseudoinfection due to simian adenovirus. *Clin. Microbiol. Newsl.* 14:110-111.
9. Swierkosz, E., and K.K. Biron. 1994. Antiviral susceptibility testing, p. 8.26.1-8.26.21. *In* Isenberg, H.D.(ed) *Clinical Microbiology Procedures Handbook, Supplement 1*. American Society for Microbiology, Washington, D.C.

10. Gleaves, C.A., R.L. Hodinka, S.L.G. Johnston and E.M. Swierkosz. 1994. Cumitech 15A, Laboratory diagnosis of viral infections. Coordinating ed., E.J. Baron, American Society for Microbiology, Washington, D.C.
11. Swierkosz, E. 1995. Mumps Virus. IN: Murray, P.R. et al (ed) Manual of Clinical Microbiology, 6th edition, pp 963-967. American Society for Microbiology, Washington, D.C.
12. Swierkosz, E., and K.K. Biron. 1995. Antiviral agents and antiviral susceptibility testing. *In* Murray, P.R. et al (ed) Manual of Clinical Microbiology, 6th edition, pp 1415-1423. American Society for Microbiology, Washington, D.C.
13. Swierkosz, E.M. and K. Biron. 1995. Antiviral susceptibility testing. In E. Lennette, D. Lennette, and E. Lennette (ed). Diagnostic procedures for viral, rickettsial, and chlamydial infections, 7th edition. American Public Health Association, Washington, D.C. pp. 139- .
14. Swierkosz, E.M. and C.G. Ray. 1997. Coronaviruses. In Gorbach, S.L., J.G. Bartlett, and N.R. Blackow (ed.) Infectious Diseases, 2nd edition. WB Saunders, Philadelphia, pp 2155-2158.
15. Swierkosz, E.M. 1999. Mumps Virus, p.959-963. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, and R. H. Yolken (ed.), Manual of Clinical Microbiology, 7th edition. ASM Press, Washington, D.C.
16. Swierkosz, E.M. and R. Hodinka. 1999. Antiviral Agents and Antiviral Susceptibility Testing, p. 1624-1639. Manual of Clinical Microbiology, 7th edition. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, and R. H. Yolken (ed.), Manual of Clinical Microbiology, 7th edition. ASM Press, Washington, D.C.
17. Swierkosz, E.M. 2000. Antiviral Drug Susceptibility Testing. In S. Specter, R.L. Hodinka, and S.A. Young (ed.), Clinical Virology Manual, 3rd edition. ASM Press, Washington, D.C.
18. NCCLS. 2000. Antiviral Susceptibility Testing; Proposed Standard. NCCLS document M33-P. NCCLS, Wayne, PA. (R. Hodinka and E. M. Swierkosz, Co-Chairholders).
19. Swierkosz, E.M. 2001. Nosocomial viral infections revisited. Clin. Microbiol. Newsl., 23: 43-48.
20. Swierkosz, E.M. 2002. Respiratory Syncytial Virus, p. 116-1-116-3. In APIC Text of Infection Control and Epidemiology. Assoc. for Professionals in Infection Control and Epidemiology, Inc., Washington, D.C.
21. Swierkosz, E. M. 2003. Antiviral Agents. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, and R. H. Yolken (ed.), Manual of Clinical Microbiology, 8th edition. ASM Press, Washington, D.C.

22. Swierkosz, E. M. and M.Q. Arens. 2003 Antiviral susceptibility testing. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, and R. H. Tenover (ed.), Manual of Clinical Microbiology, 8th edition. ASM Press, Washington, D.C.
22. Waner, J. and E. M. Swierkosz. 2003. Parainfluenza and Mumps Viruses. In P.R. Murray, E.J. Baron, M.A. Pfaller, F.C. Tenover, and R. H. Tenover (ed.), Manual of Clinical Microbiology, 8th edition. ASM Press, Washington, D.C.
23. NCCLS. 2004. Antiviral Susceptibility Testing: Herpes Simplex Virus by Plaque Reduction Assay; Approved Standard. NCCLS document M33-A. NCCLS, Wayne, PA. (R. Hodinka and E. M. Swierkosz, Co-Chairholders).
24. CLSI. Viral culture; Proposed Guideline. CLSI document M41-P. CLSI, Wayne, PA. January 2006.
25. CLSI. Viral culture; Approved Guideline. CLSI document M41-A CLSI, Wayne, PA. November 2006.
26. Arens, M.Q. and E. M. Swierkosz. Antiviral susceptibility Testing. 2007. In P.R. Murray, E.J. Baron, J.J Jorgensen, M. Landry, and M.F. Pfaller (ed.). Manual of Clinical Microbiology, 9th edition. ASM Press, Washington, D.C.
27. Arens, M.Q. and E. M. Swierkosz. 2009. Antiviral susceptibility Testing. In S. Specter, R.L. Hodinka, and S.A. Young (ed.), Clinical Virology Manual, 4th edition. ASM Press, Washington, D.C.
28. Arens, M.Q. and E. M. Swierkosz. Antiviral susceptibility Testing. 2011. In J. Versalovic, K.C, Carroll, G. Funke, J.H. Jorgensen, M.L. Landry, D.W. Warnock (ed.). Manual of Clinical Microbiology, 10th edition. ASM Press, Washington, D.C.

Abstracts

1. Schervish-Swierkosz, E.M. and J.D. Jollick. 1975. Multiple antibiotic resistance of clinical isolates of *Serratia marcescens*. Abstracts of the 75th Annual Meeting of the American Society for Microbiology, p.9.
2. Schervish-Swierkosz, E.M. and L.A. Jones. 1977. Plasmid-mediated drug resistance in *Serratia marcescens*. Abstracts of the 77th Annual Meeting of the American Society for Microbiology, p.181.
3. Schervish-Swierkosz, E.M. and M.A. Menegus. 1978. Comparison of methods for the detection of antibody to rubella. Abstracts of the 18th Interscience Conference on Antimicrobial Agents and Chemotherapy Abstracts.
4. Swierkosz, E.M. 1981. Isolation of viruses from throat swabs submitted for detection of beta-hemolytic streptococci by the fluorescent antibody technique. *Pediatric Research* 15:622.
5. Arens, M.Q. and E.M. Swierkosz. 1982. Simplified method for typing herpes simplex virus by restriction endonuclease analysis. Abstracts of the 82nd Annual Meeting of the American Society for Microbiology, p. 281.
6. Manzella, J., J. McConville, M. Menegus, W. Valenti, E.M. Swierkosz and M.Q. Arens. 1982. An outbreak of herpes simplex virus gingivostomatitis in a dental practice. Abstracts of the 22nd Interscience Conference on Antimicrobial Agents and Chemotherapy Abstracts, p. 146.
7. Swierkosz, E.M., M.A. Menegus and M.Q. Arens. 1983. DNA restriction endonuclease analysis of herpes simplex virus isolates obtained from patients with invasive disease. Abstracts of the 83rd Annual Meeting of the American Society for Microbiology, p. 285.
8. Mayo, D.R., M. Landry, E.M. Swierkosz, M.Q. Arens and G.D. Hsu. 1983. Isolation and typing of herpes simplex virus: Agreement between cell culture selectivity, BVDU sensitivity and restriction endonuclease analysis. Abstracts of the Annual Meeting of the American Society for Virology.
9. Swierkosz, E.M., M.A. Menegus, J. Manzella and J. McConville. 1983. Comparison of methods for serodiagnosis of herpes simplex virus infection. Abstracts of the 23rd Interscience Conference on Antimicrobial Agents and Chemotherapy, p. 141.
10. Swierkosz, E.M., K. Rivetna and M. Arens. 1984. Use of (E)-5-(2-bromovinyl)- 2'-deoxyuridine (BVDU) for typing herpes simplex virus in a continuous cell line. Abstracts of the 84th Annual Meeting of the American Society for Microbiology, p. 251.
11. Arens, M.Q. and E.M. Swierkosz. 1985. Evaluation of monoclonal antibodies for typing herpes simplex virus by immunofluorescence. Abstracts of the 85th Annual Meeting of the American Society for Microbiology, p.285.

12. Armstrong, T.P., E.M. Swierkosz, M.Q. Arens, R.R. Schmidt and K.A. Rivetna. 1985. Comparison of polyclonal and monoclonal antibodies for diagnosis of respiratory syncytial virus. Abstracts of the 85th Annual Meeting of the American Society for Microbiology, p. 298.
13. Swierkosz, E.M., M.A. Clapper and B. Hines. 1985. Use of the Chemstrip-9 urine test in a pediatric outpatient setting. Abstracts of the 85th Annual Meeting of the American Society for Microbiology, p. 360.
14. Arens, M.Q. and E.M. Swierkosz. 1986. Effects of sonication on recovery of herpes simplex virus from clinical specimens. Abstracts of the 86th Annual Meeting of the American Society for Microbiology, p. 336.
15. Swierkosz, E.M., D.R. Scholl, J.L. Brown, J.D. Jollick and M.K. Nichols. 1986. Improved DNA hybridization methodology for susceptibility testing of herpes simplex virus. Abstracts of the 26th Interscience Conference on Antimicrobial Agents and Chemotherapy, p. 1465-1469.
16. Swierkosz, E.M., M.K. Nichols, T. Armstrong, L. Melvin and R.R. Schmidt. 1987. Evaluation of direct immunofluorescence (DFA) and enzyme immunoassay (EIA) for detection of respiratory syncytial virus (RSV) in nasopharyngeal swab (NP) specimens. Abstracts of the 87th Annual Meeting of the American Society for Microbiology, p. 331.
17. J.A. Englund, M.E. Zimmerman, E. Swierkosz, J. Goodman and H.H. Balfour, Jr. Resistance of herpes simplex virus to acyclovir in bone marrow transplant patients. 1988. *Pediatric Research* 23:371A. (Accepted for presentation.)
18. Arens, M.Q. and E.M. Swierkosz. 1988. Detection of rotavirus by hybridization with a non-radioactive synthetic probe and comparison with commercial enzyme immunoassays and silver-stained polyacrylamide gels. Abstracts of the 88th Annual Meeting of the American Society for Microbiology, p. 348.
19. Englund, J.A., M. Zimmerman, A. Erice, F. Rhame, E. Swierkosz, C. Fletcher, H.H. Balfour, Jr. 1988. Development of herpes simplex virus (HSV) resistance to acyclovir in HIV-infected patients. Abstracts of the IVth International Conference of AIDS, Stockholm, Sweden.
20. Barton, L.L., A.D. Friedman, A.M. Sharkey, D.J. Schneller and E.M. Swierkosz. Evaluation of the efficacy of topical mupirocin vs. oral erythromycin for treatment of impetigo. Presented at the annual meeting of the Ambulatory Pediatric Association. May 3, 1989.
21. Swierkosz, E. and C. Crayton. 1989. Enhanced detection of enteroviruses after treatment of cell monolayers with polyethylenimine. Abstracts of the 89th Annual Meeting of the American Society for Microbiology, p. 408.
22. Swierkosz, E.M., L. Melvin, J. Miller, R. Flanders and M.W. Kline. 1989. Evaluation of the Abbott Testpack RSV for detection of respiratory syncytial virus in nasopharyngeal swab

- specimens. Abstracts of the 89th Annual Meeting of the American Society for Microbiology, p. 387.
23. Rajakumar, A., E. Swierkosz and I.T. Schulze. Direct sequence analysis of the HA gene of influenza A virus from a clinical sample. Annual Meeting of the American Society for Virology, July 1989. (Presented only)
 24. Rajakumar, A., E. Swierkosz and I.T. Schulze. Use of the polymerase chain reaction to determine the sequence of the influenza virus hemagglutinin gene directly from clinical samples. Annual Meeting of the American Society for Virology, July 1990. (Presented only)
 25. Swierkosz, E.M. and T. Bonnot. 1991. Comparison of CV-1 and RK cells for the isolation of herpes simplex virus. Abstracts of the 91st General Meeting of the American Society for Microbiology, p. 351.
 26. Newman, F., E. Swierkosz, E. Anderson, S. Nugent, G. Mills and R. Belshe. 1993. Multi-dose, live attenuated, cold recombinant, trivalent influenza vaccine in young children and infants. Abstracts of the 93rd General Meeting of the American Society for Microbiology, p. 441.
 27. Swierkosz, E.M. and T. Bonnot. 1993. Comparison of the Kallestad respiratory syncytial virus (RSV) microplate enzyme immunoassay with culture, direct immunofluorescence, and TESTPACK RSV. Abstracts of the 93rd General Meeting of the American Society for Microbiology, p. 450.
 28. Swierkosz, E.M., T. Bonnot and D. Regan. 1993. Recovery of parainfluenza 4 virus from pediatric patients in the metropolitan St. Louis area over the past three respiratory virus seasons. Abstracts of the 93rd General Meeting of the American Society for Microbiology, p. 453.
 29. Sirota, N., Z. Li, E. Swierkosz, M. Brennan and C. Mink. 1994. Serotyping of clinical isolates of *Bordetella pertussis* using monoclonal antibodies to surface antigens. Abstracts of the 94th General Meeting of the American Society of Microbiology, p. 495, Abstract C-29.
 30. Swierkosz, E., B. Hoo, J. Lang, T. Bonnot, and J. Kolberg. 1995. Comparison of CMV antigenemia, shell vial culture, routine culture and bDNA assay for detection of CMV infection in immunocompromised patients. Eleventh Annual Clinical Virology Symposium, Clearwater Beach, Florida. Abstract S22, p. 66.
 31. Swierkosz, E., D. Erdman, T. Bonnot, C. Schneiderheinze, and J. Waner. 1995. Isolation of a naturally occurring variant of parainfluenza 3 virus. Abstracts of the 95th General Meeting of the American Society for Microbiology, Washington, D.C. Abstract C445, p. 78.
 32. Swierkosz, E., and T. Bonnot. 1996. Comparison of PCR, antigenemia, and culture for detection of CMV in immunocompromised patients. Twelfth Annual Clinical Virology Symposium, Clearwater Beach, Florida. Abstract S16, p. 56.

33. Swierkosz, E., and T. Bonnot. 1997. Evaluation of the Directigen FLUA for detection of influenza A in nasopharyngeal swab specimens. Abstracts of the 97th General Meeting of the American Society for Microbiology, Miami Beach, Fla. Abstract C409 p.191.
34. Mink, C., N. Sirota, E. Swierkosz, D. Blumberg, and M. Pepler. 1997. Comparison of genotypes by pulse-field gel electrophoresis (PFGE) and serotypes of clinical isolates of *Bordetella pertussis*. Abstracts of the Interscience Conference on Antimicrobial Agents and Chemotherapy. Toronto, Ontario. Abstract.
35. Erdman, D.D., C.B. Hall, E. Swierkosz, T.C.T. Peret, J.A. Golub, and L.J. Anderson. 1998. Temporal and geographic distribution of human parainfluenza virus type 3 (HPIV3) strains based on sequence variability in the HPIV3 HN Gene. Abstracts of the American Society for Virology Annual Meeting. Vancouver, British Columbia, Canada. Abstract P26-3, p. 193.
36. Bonnot, T., P. Brown, J. Berger, and E.M. Swierkosz. 1999. Comparison of two monoclonal antibody reagents for detection of cytomegalovirus antigenemia. Abstracts of the 15th Annual Clinical Virology Symposium, Clearwater Beach, FL. Abstract T19.
37. Swierkosz, E.M. and M.A. Menegus. 1999. Use of CMV antigenemia for validation of a lysis procedure for CMV PCR. Abstracts of the 15th Annual Clinical Virology Symposium, Clearwater Beach, FL., Abstract T18.
38. Grosso, L., J. Siegal, E. Schmitz, S. Kukuczka, E. Swierkosz, and B. Collins. 1999. Contributions of PCR performed on BAL specimens to detect CMV and *P. carinii*. Abstracts of the Association for Molecular Pathology Annual Meeting, St. Louis, MO.
39. Bonnot, T. and E.M. Swierkosz. 2000. Evaluation of the QIAGEN One-Step RT-PCR kit for enterovirus detection in CSF. Abstracts of the 16th Annual Clinical Virology Symposium, Clearwater Beach. FL., Abstract M22.
40. Bonnot, T. and E. M. Swierkosz. 2005. Evaluation of Cepheid's analyte-specific, real-time PCR reagents for HSV (typing and non-typing) and enterovirus for diagnosis of CNS infections. Abstracts of the 21st Annual Clinical Virology Symposium, Clearwater Beach, FL., Abstract S13.
41. E. M. Swierkosz and T. Bonnot. 2009. Clinical evaluation of the 3M RSV Rapid Detection Test in nasopharyngeal aspirate specimens. Abstracts of the 25th Annual Clinical Virology Symposium, Daytona Beach, FL., Abstract M47.

Seminars Presented Nationally

1. Nosocomial herpes simplex virus infections: Incidence and control. Presented at the Annual Meeting of the American Society for Microbiology, 1984.
2. Techniques for rapid viral diagnosis. Presented at Albany Medical College, Teaching Day on Infectious Diseases, May 10, 1984.
3. Diagnosis of Gastroenteritis viruses. Presented at Symposium on Diarrheal diseases; McLaren Hospital, Flint, Michigan, October 24, 1984
4. Practical Diagnostic Virology. Presented at Central Pennsylvania Microbiology Association, Harrisburg, Pennsylvania, October 24, 1985.
5. Practical Diagnostic Virology, Faculty, Workshop at Annual Meeting of the American Society for Microbiology, St. Louis, Missouri, March 3-4, 1984.
6. Convener and Faculty of Workshop at Annual Meeting of the American Society for Microbiology, Atlanta, GA. February 28 - March 1, 1987. Title: Comprehensive Update on Viral Diagnosis.
7. Diagnostic Virology: Why, What and When? Presented at the fall meeting of the Tri-County Microbiology Association, Detroit, Michigan, October 5, 1988.
8. Evaluation of the VIDAS RSV Assay. Presented at the Vitek Users Symposium, May 14, 1989, New Orleans, Louisiana.
9. Newly Emerging Viral Pathogens. Presented at the Annual Meeting of the Missouri Medical Technology Society, Columbia, MO April 18, 1991.
10. Approaches to Testing Antiviral Agents. Presented at 91st General Meeting of the American Society for Microbiology, May 6, 1991, Dallas, Texas.
11. Cost-Effective Diagnostic Virology. Presented at Clinical Microbiology Reviews, Mayo Clinic, Rochester, Minnesota, August 5, 1991.
12. Strategies for Running a Cost-Effective Virology Laboratory. Presented at American Society for Microbiology Northern California Branch meeting, San Mateo, California, October 19, 1991.
13. Strategies for Running a Cost-Effective and Clinically Relevant Diagnostic Virology Laboratory. Presented at Missouri Society for Medical Technology Annual Meeting, Springfield, Missouri, April 22, 1992.
14. Troubleshooting Cell Culture Problems. Presented at 8th Annual Clinical Virology Symposium, Clearwater Beach, Florida, May 17, 1992.

15. Clinically Relevant Rapid Viral Diagnostic Testing. Workshop presented at The 11th Annual Meeting of the Southwestern Association of Clinical Microbiology, St. Louis, Missouri, September 30, 1992, .
16. Antiviral Susceptibility Testing. Meeting of the Northern California Branch of the American Society for Microbiology. San Jose, California. October 23, 1992.
17. Impact of the Virology Laboratory on Infectious Disease Service and Improved Patient Care. Presented at Bartels Diagnostics Division Virology Focus Group, Issaquah, Washington, March 3, 1993.
18. Antiviral Susceptibility Testing. Presented at The Missouri Branch Meeting of the American Society for Microbiology, Kansas City, Missouri, March 6, 1993.
19. Antiviral Susceptibility Testing Presented at Central Pennsylvania Microbiology Association, Harrisburg, Pennsylvania, September 23, 1993
20. Re-emergence of Pertussis. Presented at St. Louis Area Microbiologist Society, St. Louis, Missouri, February 2, 1994.
21. Update on Pertussis. Grand Rounds, Cardinal Glennon Children's Hospital, St. Louis, Missouri, March 16, 1994.
22. Cell Culture for Virus Identification: Enteroviruses. Continuing Education Program, BioWhittaker, Inc., Long Beach, California, April 14, 1994.
23. Antiviral Susceptibility Testing. Workshop on Diagnostic Virology; Convened at the 1994 General Meeting of the American Society for Microbiology, Las Vegas, Nevada, May 22, 1994.
24. Antiviral Susceptibility Testing: When and How. Current Concepts in Diagnostic Virology. 95th General Meeting of the American Society for Microbiology, Washington, D.C., May 21, 1995.
25. The Virtual Reality of Routine Virology. Spring meeting of the Southern California Branch of the American Society for Microbiology. Los Angeles, California March 9, 1996 and San Diego, California March 16, 1996.
26. Practical Molecular Detection Methods. 96th General Meeting of the American Society for Microbiology, New Orleans, LA. May 19, 1996.
27. Old and New Herpes Virus: CMV, HHV-6, HHV-7, and HHV-8. March 19, 1997. Jefferson City, Missouri. Sponsored by Chemicon Diagnostics, Inc.
28. Cost Effective Virology for the Routine Laboratory. Illinois Clinical Laboratory Science Association - Central Illinois Clinical Laboratory Manager's Association Meeting. Springfield, IL. April 18, 1997.

29. Effect of Managed Care on the Diagnostic Virology Laboratory. Annual Clinical Virology Symposium, Clearwater Beach, Florida. April 29, 1997.
30. Arboviruses. Bi-State Regional Infectious Disease Conference. St. Louis, Missouri. September 10, 1997.
31. Detection of Antiviral Resistance of Herpesviruses. 14th Annual Clinical Virology Symposium. Clearwater Beach, FL. April 26, 1998.
32. Improving Specimen Quality. 15th Annual Clinical Virology Symposium. Clearwater Beach, FL. May 9, 1999.
33. Reagents and Kits: What Works. 16th Annual Clinical Virology Symposium. Clearwater Beach, FL. April 30, 2000.
34. Diagnostic Virology for the Routine Laboratory. 19th Annual Meeting, Southwestern Association of Clinical Microbiology. Dallas, Texas, September 7, 2000.
35. Practical approaches to diagnosis of respiratory viruses. Teleconference for the University of Texas Teleconference Network. November 1, 2000.
36. Respiratory virus issues. 17th Annual Clinical Virology Symposium. Clearwater Beach, FL, April 29, 2001.
37. Bioterrorism and the Clinical Virology Laboratory. Presented at the 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, CA. September 29, 2002.
38. Clinical Utility of Enterovirus RT-PCR: Impact on Patient Management. 12th Annual Symposium DNA Technology in the Clinical Laboratory, September 27, 2003. Troy, Michigan.
39. Symposium Convener: Real-time PCR Platforms. April 25, 2004. 20th Clinical Virology Symposium, Clearwater Beach, Florida.
40. Respiratory Sample Testing: Common versus emerging agents: Standard respiratory panel. Presented at the 21st Clinical Virology Symposium, Clearwater Beach Florida, May 8, 2005.
41. Evaluation of 3 Cepheid ASRs: HSV Non-Typing, HSV Typing, and Enterovirus. May 9, 2005. Presented at the Cepheid Symposium, Clinical Virology Symposium, Clearwater Beach, Florida.
42. Infectious Diseases in Dentistry: An Update. Presented at the Second Annual Compliance Fair, St. Louis University Center for Advanced Dental Education, July 8, 2005.

43. Issues in Clinical Virology Laboratory: Directors' Perspective. April 30, 2006. Clinical Virology Symposium, Clearwater Beach. FL.
44. Role of Clinical Laboratory: Rapid Testing and Other Methods. Laboratory Pandemic Influenza Program. Missouri Department of Health. Jefferson City, MO. April 19, 2007.
45. ASRs, RUOs, IUOs, IVDs: What's Up with That? Pan American Society for Clinical Virology, Molecular Virology Workshop, Clearwater Beach, FL. April 27, 2007.
46. Algorithms for testing for respiratory viruses. Presented at the 24th Clinical Virology Symposium, Daytona Beach Florida, April 27, 2008.
47. Case studies in Clinical Microbiology. Presented at the 49th ICAAC Meeting, September 22, 2009. San Francisco, CA.
48. Virus Isolation for Respiratory Viruses. Presented at the 26th Clinical Virology Symposium, Daytona Beach Florida, April 27, 2010.
49. Point-Counterpoint: Diagnosis of *Clostridium difficile*. Presented at the 111th General Meeting of the American Society for Microbiology, New Orleans, LA May 23, 2011. (Also convener of symposium: Point-Counterpoint: Culture, antigen detection, NAA: When and Why).

Seminars Presented Internationally

1. Nosocomial Herpes Simplex Virus Infections. Presented at Symposium on Hospital-Acquired Viral Infections: Incidence and Prevention, Schluchsee, Federal Republic of Germany, June 20, 1986.
2. Antiviral Resistance. Challenges in Infection Control. London, England. November 18, 1994.
3. Diagnosis of central nervous system infections other than herpes simplex virus. Latin American Clinical Virology Symposium, Pucon, Chile, November 13, 2007.
4. Rapid diagnosis of respiratory viruses. Latin American Clinical Virology Symposium, Pucon, Chile, November 13, 2007.