

# CURRICULUM VITAE

Mario J. Marcon, PhD

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## BUSINESS ADDRESS

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## EDUCATION:

1966-1970	Colgate University Hamilton, NY BA, Biology, 1970
1973-1978	Wake Forest University Medical Center Winston-Salem, NC PhD, Microbiology and Immunology, 1978
1978-80	Fellowship in Clinical and Public Health Microbiology, Hartford Hospital, Hartford CT and the University of Connecticut Health Sciences, Farmington, CT

## ACADEMIC APPOINTMENT:

Clinical Associate Professor of Pathology  
Ohio State University College of Medicine and Public Health  
Columbus, OH

## CERTIFICATION:

Medical and Public Health Microbiology  
American Board of Medical Microbiology  
American Society for Microbiology

## EMPLOYMENT AND PROFESSIONAL EXPERIENCE:

2004-present:	Director, Clinical/Molecular Microbiology, Virology, & Immunoserology Department of Laboratory Medicine Nationwide Children's Hospital, Columbus, OH
1997-2004:	Director, Clinical Laboratories Department of Laboratory Medicine, Children's Hospital
1990-1997:	Director, Clinical/Molecular Microbiology and Virology Department of Laboratory Medicine, Children's Hospital
1980-1990:	Director, Clinical Microbiology Department of Laboratory Medicine, Children's Hospital

- 1978-1980: Postdoctoral Fellow, Public Health and Medical Microbiology,  
Department of Pathology, Hartford Hospital, Hartford, CT
- 1976-1978: Instructor, Medical Microbiology/Immunology  
Wake Forest University Medical Center, Winston-Salem, NC
- 1973-1976: Teaching/Research Assistant, Medical Microbiology/Immunology  
Wake Forest University Medical Center
- 1970-1973: Secondary School Teacher, Biology and Health Sciences  
Rondout Valley School, Accord, NY

**CLINICAL RESEARCH INTERESTS:**

- (1) Rapid diagnostic methods in clinical virology
- (2) Nucleic acid based methods for diagnosis of infectious diseases
- (3) Antimicrobial agents and resistance mechanisms

**HOSPITAL COMMITTEE ASSIGNMENTS:**

- 1998-present Nationwide Children's Hospital Pharmacy and Therapeutics  
1995-present: Nationwide Children's Hospital Infection Control  
1997-2004: Children's Hospital Quality and Performance Improvement  
1993- 2003: Children's Hospital Human Subjects Review

**PROFESSIONAL SOCIETIES:**

- (1) American Society for Microbiology (ASM)
- (2) South Central Association of Clinical Microbiology (SCACM).
- (3) Association for Molecular Pathology (AMP)
- (4) Pan American Society for Clinical Virology (PASCV)
- (5) American Association for Clinical Chemistry (AACC)

**PROFESSIONAL ACTIVITIES:**

- (1) Advisory Committee, Unites States Pharmacopeia, Viral Diagnostics, 2005-2007
- (2) Written Examination Committee, American Board of Medical Microbiology  
American Society for Microbiology, 1998-2000
- (3) Oral Examination Committee, American Board of Medical Microbiology  
American Society for Microbiology, 2000-2002
- (4) Inspector, College of American Pathology Lab Accreditation Program 1998-present

**OFFICES HELD:**

- (1) SCACM Central Ohio Area Director, 1984-1987
- (2) SCACM Public and Professional Affairs Committee, 1988-92
- (3) SCACM Antimicrobial Agents Interest Group, Coordinator, 1992 - 1995
- (4) SCACM Board of Directors, 1995-1996, 2000-2004

**JOURNAL REVIEWER (Ad-Hoc)**

- (1) J Clinical Microbiology
- (2) J Clinical Virology

## SCIENTIFIC CONSULTANT

- (1) Clinical Microbiology, Mt Carmel Medical Center (Ohio) 2006-present
- (2) Medical Laboratory Diagnostics 3M Corporation (Minnesota) 2006-present
- (3) Medical Laboratory Diagnostics, R-BioPharm AG (Germany) 2005-2007
- (4) Clinical Microbiology, Ross Laboratories (Ohio) 2000-2003

## ONGOING TEACHING/TRAINING ACTIVITIES:

- (1) Medical Technology Program – Ohio State University School of Allied Health  
Annual lectures in clinical microbiology and diagnostic molecular microbiology
- (2) Pediatrics and pediatric surgery residents lectures, Children's Hospital
- (3) Pediatric pathology fellow lectures, Children's Hospital
- (4) PharmD student (Ohio State University College of Pharmacy) monthly rotations in Lab  
Medicine, Children's Hospital
- (5) Pediatric infectious diseases fellowship program, annual 3 month rotation, Children's  
Hospital
- (6) Pediatric Endocrinology Fellowship program, annual 1 month rotation, Children's Hospital

## PEER-REVIEWED PUBLICATIONS:

- (1) **Marcon** MJ and LS Kucera. 1976. Consequences of herpes simplex virus type 2 and human cell interaction at supraoptimal temperature. *J. Virol.* 20: 54-62.
- (2) **Marcon** MJ and LS Kucera. 1979. Stimulation of human cellular thymidine kinase activity during abortive infection with herpes simplex virus type 2. *Virology* 96: 315-8.
- (3) **Marcon** MJ and LS Kucera. 1979. Stimulation of human cell DNA synthesis by defective herpes simplex virus type 2. *Virology* 98: 364-72.
- (4) Hamoudi AC, J A Klamar, RN Palmer, and MJ **Marcon**. 1983. Multiple enteric pathogens from endemic areas: case report. *Pediatr. Infect. Dis.* 2:138-40.
- (5) **Marcon** MJ and RG Bartlett. 1983. Laboratory evaluation of the serum dilution test in serious staphylococcal infection. *Am. J. Clin. Pathol.* 80: 46-51.
- (6) Hamoudi AC, MJ **Marcon**, HJ Cannon, and RE McClead. 1983. Comparison of three major antigen detection methods for the diagnosis of group B streptococcal sepsis in neonates. *Pediatr. Infect. Dis.* 2: 432-5.
- (7) **Marcon** MJ, AC Hamoudi, HJ Cannon. 1984. Comparative laboratory evaluation of three antigen detection methods for diagnosis of *Haemophilus influenzae type b* disease. *J. Clin. Microbiol.* 19:333-7.
- (8) Hamoudi AC, MJ **Marcon**, and HJ Cannon. 1984. Evaluation of rapid identification of Gram-positive cocci in positive blood cultures by use of the AMS-GPI card. *J. Clin. Microbiol.* 20: 171-4.
- (9) Abramson JS, KD Hampton, B Sylvia, BL Wasilaukas, and MJ **Marcon**. 1985. Cerebrospinal fluid C-reactive protein for differentiating meningitis from other central nervous system diseases. *J. Infect. Dis.* 151: 854-8.
- (10) Barson WJ, Miller MA, **Marcon** MJ, Hribar MM, Brady, MT, Pacini DL and DA Powell. 1985. Cefuroxime therapy of potentially bacteremic soft tissue infections in children. *American J. Dis. Child.* 139: 1141-5.
- (11) Cannon HJ, ES Goetz, AC Hamoudi and MJ **Marcon**. 1986. Rapid screening and microbiologic processing of pediatric urine specimens. *Diag. Microbiol. Infect. Dis.* 4: 11-17.

- (12) Powell DA, DE Durrell and MJ **Marcon**. 1986. Growth of *Malassezia furfur* in parenteral fat emulsions. J. Infect. Dis. 153: 640-1.
- (13) **Marcon** MJ, DA Powell and DE Durell. 1986. Methods for optimal recovery of *Malassezia furfur* from blood culture. J. Clin. Microbiol. 24: 696-700.
- (14) Powell DA, MJ **Marcon**, DE Durrell, and RM Pfister. 1987. Scanning electron microscopy of *Malassezia furfur* attachment to Broviac catheters. Human Pathol. 18: 740-5.
- (15) Powell DA, J Hayes, DE Durrell, M Miller and MJ **Marcon**. 1987. *Malassezia furfur* skin colonization of infants hospitalized in intensive care units. J. Pediatr. 111:217-20.
- (16) Welch DF, MJ **Marcon**, MJ Muszynski, CH Pai, et al. 1987. Selective and differential medium for the recovery of *Pseudomonas cepacia* from the respiratory tract of patients with cystic fibrosis. J. Clin. Microbiol. 25:1730-4.
- (17) Brady MT, MJ **Marcon** and H Maddux. 1987. Broviac catheter related infection due to *Mycobacterium fortuitum* in a patient with AIDS. Pediatr. Infect. Dis. 6:492-4.
- (18) **Marcon** MJ, HJ Cannon, MM Hribar and AC Hamoudi. 1987. Comparison of throat and nasopharyngeal swab specimens for culture diagnosis of *Bordetella pertussis* infection. J. Clin. Microbiol. 25:1109-10.
- (19) **Marcon** MJ, DA Powell, DE Durrell and WJ Buesching. 1987. In-vitro activity of systemic anti-fungal agents against *Malassezia furfur*. Antimicrob. Agents Chem. 31:951-3.
- (20) Powell DA, and MJ **Marcon**. 1987. Failure to eradicate *Malassezia furfur* Broviac catheter infection with antifungal therapy. Pediatr. Infect. Dis. 6:579-80.
- (21) Hamoudi AC, SJ Qualman, MJ **Marcon**, et. al. 1988. Prevalence of Cryptosporidiosis in a central Ohio Pediatric population. American J. Public Health. 78:273-5.
- (22) Barson WJ, BA Cromer, and MJ **Marcon**. 1987. Puncture wound osteochondritis of the foot due to CDC group Vd. J. Clin. Microbiol. 25:2014-6.
- (23) **Marcon** MJ et al. 1988. Occurrence of a mucoid M-type 18 *Streptococcus pyogenes* in a Central Ohio pediatric population. J. Clin. Microbiol. 26:1539-42.
- (24) **Marcon** MJ, M. Nahata, DA Powell, and Lisby S. 1990. Beta-lactam susceptibility of coagulase negative Staphylococci causing catheter sepsis in pediatric patients. Diag. Microbiol. Infect. Dis.13:9-15
- (25) Hamoudi AC, MM Hribar, MJ **Marcon**, HJ Cannon. 1990. Clinical relevance of viridans and non-hemolytic Streptococci isolated from blood and cerebrospinal fluid in a pediatric population. American J. Clin. Pathol. 93:270-2.
- (26) Qualman S, MJ **Marcon**, BR Pawel and AC Hamoudi. 1992. Comparison of laboratory assays for *Clostridium difficile* for detection of disease in a pediatric population. Lab Medica International. 9:9-12.
- (27) Kein CL, RD Murray, SJ Qualman, and M **Marcon**. 1999. Lactulose feeding in piglets: a model for persistent diarrhea and colitis induced by severe sugar malabsorption. Digestive Diseases Sciences 44: 1476-1484.
- (28) Jawadi AH, **Marcon M** et al. 2004. Comparison of oral findings in special needs children with and without gastrostomy. Pediatric Dentistry 26:3, 283-288.
- (29) Green M, **MJ Marcon** et al. 2005. In vitro activity of telithromycin against macrolide-susceptible and macrolide resistant pharyngeal isolates of group A streptococcus in the US. Antimicrob. Agents Chemother. 49: 2487-89.

- (30) Green M, B Bernard, **MJ Marcon** et al. 2006. Multicenter surveillance of the prevalence and molecular epidemiology of macrolide resistance among pharyngeal isolates of group A streptococci in the USA. *J. Antimicrob Chemother* 57: 1240 - 1243..
- (31) Agoritsas K, Mack K, Bonsu BK, Goodman D, Salamon D, and **MJ Marcon**. 2006. Evaluation of the Quidel Quickvue test for influenza A and B in the pediatric emergency medicine setting using 3 specimen collection methods. *J Clin Microbiol.* 2006 44: 2638-2641.
- (32) Fox JW, **Marcon MJ**, and BK Bonsu. 2006. Streptococcal pharyngitis: A re-evaluation of the optimal site of sampling in the advent of newer diagnostic techniques. . *J Clin. Microbiol.* 44: 2593-2594.
- (33) Fox JW, Cohen DM, **Marcon MJ**, Cotton WC, and Bonsu BK. 2006. Performance of rapid streptococcal antigen testing varies by personnel. *J Clin. Microbiol.* 44:3918-3922.
- (34) Duc HDo, S Laus, MJ **Marcon**, JM Martin and RM Wadowsky, One-step, Reverse-Transcription PCR Assay with a Degenerate TaqMan Minor Groove Binder Probe for Detection of Rhinovirus in Nasal Aspirate Specimens, submitted for publication, *J Clin Microbiol.*
- (35) Wondwossen AG,P Pancholi, K Stevenson, DA. Tadesse, and **MJ Marcon** Characterization of antimicrobial resistance genes in *Acinetobacter baumannii* (in prep).

#### **BOOK CHAPTERS, REVIEW, MONOGRAPHS**

- (1) Hamoudi AC and MJ **Marcon**. 1981. Antimicrobial susceptibilities of fastidious organisms. ASCP Check Program No. MB-112.
- (2) Hamoudi AC, and MJ **Marcon**. 1982. Human infections due to *Aeromonas hydrophilia*. ASCP Check Sample Program No. MB-116.
- (3) Hamoudi AC, and MJ **Marcon**. 1984. Infant Botulism. ASCP Check Sample Program No. MB-178.
- (4) **Marcon MJ** and DA Powell. 1987. Epidemiology, diagnosis, and management of *Malassezia furfur* systemic infection (Review Article). *Diag. Microbiol. Infect. Dis.* 7:161-75.
- (5) **Marcon MJ**, and DA Powell. 1988. *Malassezia furfur* (Review Article). *Clin. Microbiol. News.* 10:41-5.
- (6) **Marcon MJ**. 1990. Bacterial antigen testing of normally sterile body fluids. ASCP Tech Sample. No. MB-5. American Society for Clinical Pathologists.
- (7) **Marcon MJ** and DA Powell. 1992. Human Infections due to *Malassezia sp.* *Clinical Microbiology Reviews.* 5:101-19.
- (8) **Marcon MJ**. 1994. Rapid detection of group A streptococcal antigens in throat swab specimens: where do we stand? *Lab O* 5:101-19.
- (9) **Marcon MJ**. *Bordetella pertussis*. 1995. In: Murray et. al. (eds), p. 566-73, Manual of Clinical Microbiology, 6th edition, American Society for Microbiology, Washington, D.C.
- (10) **Marcon MJ**. Direct microbial antigen detection. 1995. In: Mahon and Manuselis (eds), p.119-40, Textbook of Diagnostic Microbiology. W.B. Saunders, Philadelphia.
- (11) **Marcon MJ**. Serologic diagnosis of infectious diseases. In:Mahon and Manuselis (eds), p. 141-61, Textbook of Diagnostic Microbiology. W.B. Saunders, Philadelphia. 1995.
- (12) **Marcon MJ**. 1996. The medical relevance of molecular taxonomy and associated name changes or “What’s in a name?” *Clin Microbiol Newsl.* 18:123-5.

- (13) **Marcon** MJ, and D Salamon. 1997. Traditional and newer approaches to laboratory diagnosis of herpes simplex virus infection. Clin Microbiol Newsl. 19:9-14.
- (14) **Marcon** MJ. 1997. Probiotics in health and medicine: moving from fashion to scientific validity. Clin Microbiol Newsl. 19:89-93.
- (15) **Marcon** MJ. 1997. Clinical and laboratory diagnostic features of *Bordetella spp*: pertussis and beyond. Clin Microbiol Newsl. 19:185-191.
- (16) Robinson A, M **Marcon**, et al. 1999. Controversies affecting the future practice of clinical microbiology. J Clin Microbiol 37: 883-889.
- (17) **Marcon** MJ. 2001. Role of the hospital based, comprehensive clinical virology laboratory in modern healthcare. Clin Microbiol Newsl. 24: 187-191.
- (18) **Marcon** MJ, et al. Enterobacteriaceae, In: SS Long, LK Pickering, and CG Prober (eds), Principles and Practices of Pediatric Infectious Diseases, Chaps 148, 149, 150, 152, 153, 154, 158. Churchill-Livingston, New York, 2003.
- (19) **Marcon** MJ, et al. Nonenterobacteriaceae, In: SS Long, LK Pickering, and CG Prober (eds), Principles and Practices of Pediatric Infectious Diseases, Chaps 159, 161, 162, 163, 164, 165, 173. Churchill-Livingston, New York, 2003.
- (20) **Marcon** MJ. 2003. "Valued-added" reporting in clinical microbiology: Use of computer-based textual reports and comments as an aid to communicating appropriate utilization and application of test results. Clin Microbiol Newsl 25: 62-65.
- (21) **Marcon** MJ. 2003. Viral central nervous system infections – role of the clinical laboratory in diagnosis. ASCP Check Sample Program – Microbiology.
- (22) **Marcon** MJ, et al. Enterobacteriaceae (several chapters), In: SS Long, LK Pickering, and CG Prober (eds), Principles and Practices of Pediatric Infectious Diseases (2<sup>nd</sup> ed), Churchill-Livingston, New York, 2008. (In press)
- (23) **Marcon** MJ, et al. Nonenterobacteriaceae (several chapters), In: SS Long, LK Pickering, and CG Prober (eds), Principles and Practices of Pediatric Infectious Diseases (2<sup>nd</sup> ed), Churchill-Livingston, New York, 2008 (In press)

#### **ABSTRACTS PRESENTED AT NATIONAL MEETINGS:**

- (1) Annual Meeting, ASM, New Orleans, 1983
  - Competitive ELISA for *H. influenzae b* antigen detection
  - Rapid laboratory methods for urine culture
  - Diagnosis of neonatal sepsis by three antigen detection methods on concentrated urine and tracheal aspirates
- (2) Annual Meeting, Interscience Conf.on Antimicrob. Agents Chemo. (ICAAC), Las Vegas, 1983
  - Rapid identification of *S. pneumoniae* in positive blood culture bottles
- (3) Annual Meeting, ICAAC, Washington, 1984
  - Laboratory evaluation of the Bactigen latex agglutination test for the rapid diagnosis of *Neisseria meningitidis* disease
  - A rapid alternative for detection of group A streptococcus in pharyngeal specimens
- (4) Annual Meeting, ASM, Las Vegas, 1985
  - Isolation of *Malassezia furfur* from blood cultures of neonates receiving fat emulsions

- (5) Annual Meeting, American Society for Microbiology, Washington, 1986  
Recovery of *Malassezia furfur* from Bactec 6b bottles and Isolator tubes  
Isolation of *Pseudomonas cepacia* from cystic fibrosis patients
- (6) Annual Meeting, ICAAC, New Orleans, 1986  
-Antimicrobial susceptibility of *Malassezia furfur* catheter sepsis isolates to amphotericin B and 5-fluorocytosine  
-Risk factors for skin colonization of hospitalized infants with *Malassezia furfur*
- (7) Annual Meeting, ASM, Atlanta, 1987  
-Comparison of throat and NP swab specimens for culture diagnosis of *Bordetella pertussis*  
-Beta-lactam susceptibility of coagulase-negative staph causing catheter sepsis
- (8) Annual Meeting, ICAAC, New York, 1987.  
-Appearance and antimicrobial susceptibility of mucoidal group A streptococci in a central Ohio pediatric population.
- (9) Annual Meeting, ASM, New Orleans, 1989  
-Prolonged nasopharyngeal colonization by *Bordetella pertussis* despite therapy with erythromycin estolate.  
-Nontypable *Haemophilus influenzae* systemic infections in pediatric patients.
- (10) Molecular Infectious Disease Conference, Moran, Wyoming, 1993.  
-Optimal specimen preparation methods for CSF for detection of HSV by PCR.
- (11) Annual Meeting, ASM, Las Vegas, 1994  
-Evaluation of polymerase chain reaction for diagnosis of herpes simplex encephalitis.  
-Evaluation of PCR detection of *Bordetella pertussis* in NP specimens.
- (12) Annual Meeting, Society for Healthcare and Epidemiology of America, Washington,DC 1996.  
-Nosocomial *Legionella pneumophila* infection in a ventilated pediatric patient.
- (13) Annual Meeting, Association of Professionals Infection Control/Epidemiology. Atlanta, 1996.  
-*Neisseria meningitidis* infection in a neonatal development unit.
- (14) Annual Meeting, ICAAC, New Orleans, 1996.  
-Clinical and laboratory features of aseptic meningitis due to an unusual enterovirus.
- (15) Annual Meeting, Asso. for Professionals in Infection Control, Washington, DC, 1997.  
-*Klebsiella pneumoniae* infections in a neonatal intensive care unit.
- (16) Clinical Virology Symposium, Clearwater, April 1997.  
-First recovery of LaCrosse virus from CSF: a case report  
-Evaluation of Roche Amplicor Enterovirus Assay for enteroviral detection in CSF.
- (17) Annual Meeting, ASM, Miami Beach, May 1997.  
-Value of IgG antibody of acute serum in diagnosis of La Crosse virus infection.
- (18) Infectious Diseases Society of America (ISDA), San Diego, October 2003  
-Macrolide resistance among pharyngeal isolates of Group A Streptococcus
- (19) Clinical Virology Symposium, Clearwater, April 2004  
-Comparison of PANBIO EIA/IFA Tests for Detection IgG/IgM Antibodies to West Nile Virus
- (20) Annual Meeting, ASM, New Orleans, May 2004  
-Comparative Sensitivity of Molecular Methods for Group A Streptococcus Detection
- (21) ISDA, Boston, Sept 2004

- (22) -Molecular Epidemiology of Group A Streptococcus  
Clinical Virology Symposium, Clearwater, May 2005
  - Evaluation of a minor groove binder Taqman RT-PCR assay for detection of rhinovirus.
  - Evaluation of 3 nucleic acid extraction instruments
  - Evaluation of Quidel Quickview rapid flu A/B test using 3 specimen collection methods
  - Evaluation of the Athena Multi-lyte EBV test system for EBV antibody detection
- (23) Clinical Virology Symposium, Clearwater, April 2006
  - Comparison of EBV serologic patterns with viral load
  - Comparison or 3 extraction systems and 3 amplification systems for detection of HSV in CSF
- (24) Annual Meeting, American Society for Microbiology, May 2006
  - Comparison of 3 extraction systems for downstream amplification of nucleic acids of B pertussis, HSV, and HCV
- (25) Clinical Virology Symposium, Clearwater, April 2007. Diagnostic sensitivity of DFA vs PCR for detection of human metapneumovirus in clinical samples
- (26) Pediatric Academic Society Annual Meeting, Toronto, CA, May 2007  
Comparison of NAAT on genital swabs and urine in the detection of CG and CT in child sexual abuse survivors
- (27) Annual Meeting, American Society for Microbiology, Toronto, May 2007.  
Comparison of PCR-based assays for ongoing validation of *Bordetella pertussis* and *Bordetella parapertussis* detection by PCR
- (28) Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Sept 2007.  
Characterization of Multi-Drug Efflux Genes in *Acinetobacter baumannii*

**INVITED LECTURES/WORKSHOPS:**

- (1) Western Pennsylvania Society for Clinical Microbiology, Pittsburgh, 1983. Blood Culture Practices in a Pediatric Hospital.
- (2) Ohio Society of Pathologists, Columbus, 1983. Practical Aspects of Antimicrobial Susceptibility Testing.
- (3) Pediatric Infectious Disease Emergencies Conference, Columbus, 1983. Rapid Microbiologic Method for Laboratory Diagnosis of Bacterial Sepsis and Meningitis.
- (4) Flint (Michigan) Society for Medical Technology, Flint, 1983. Rapid Screening and Microbiologic Processing of Urine Specimens.
- (5) Burroughs-Wellcome Symposium on Antigen Detection Methods. Research Triangle Park, 1983. Antigen Detection in the Clinical Laboratory.
- (6) Annual Meeting, ASM, St. Louis, 1984. The Role of Instrument-assisted Microbial Identification and Susceptibility Test Systems in the Pediatric Clinical Laboratory.
- (7) Fall Meeting, SCACM, Indianapolis, 1984. Workshop on Commercial Kits for Direct Bacterial Antigen Testing in Meningitis and Other Deep-seated Infections.
- (8) Ohio Society of Pathologists, Columbus, 1984. Infant Botulism-Epidemiologic and Laboratory Diagnosis.
- (9) Annual Meeting, American Society for Medical Technology, Region IV. Columbus, 1985. Direct Antigen Testing of Microbial Agents.
- (10) Update on Newer Antimicrobial Agents-Clinical and Laboratory Aspects. Sponsored by SCACM. 1985. Columbus.

- (11) Update on Blood Culture Methods. Sponsored by SCACM. 1985. Columbus.
- (12) Workshop in Physician Office LabPractices. Children's Hospital, 1985. Columbus.
- (13) Quinolone Antibiotics. Sponsored by SCACM. 1987. Columbus.
- (14) Burroughs-Wellcome Update on Antigen Detection, Laboratory Aspects, 1989. Chicago.
- (15) ASM Symposium on Cost Effective, Clinically Relevant Microbiology for the 1990s: Direct, Non-cultural, Diagnostic Tests. 1992. New Orleans.
- (16) Blood Culture Practice in a Pediatric Hospital, 1993. Organon-Teknika Workshop, Pittsburgh.
- (17) ASM Symposium in Clinical Microbiology: The Future Role of PCR in Clinical Microbiology Laboratories. 1994. Las Vegas.
- (18) SCACM Workshop on Challenges of Changes in Antimicrobial Susceptibility of Bacterial Pathogens. 1994. Cincinnati.
- (19) ASM Symposium in Clinical Microbiology. Clinical Relevance of Molecular Taxonomy. 1995. Washington DC.
- (20) SCACM Spring Meeting. Molecular Diagnosis of Infectious Diseases. 1995. Louisville.
- (21) ASM Symposium in Clinical Microbiology. Integrating the Microbiology Lab into the General Clinical Laboratory. 1996. New Orleans.
- (22) ASM Symposium in Clinical Microbiology. The Value of Licensure of Clinical Laboratory Professionals. 1997. Miami.
- (23) Clinical Microbiology Update. Western Pennsylvania Society for Clinical Microbiology. Probiotics in Health and Medicine. 1997. Pittsburgh.
- (24) Update on Viral Diagnostics. Pediatric Infectious Diseases Conference. 1999, Columbus.
- (25) Case Studies in Clinical Microbiology. CACMLE Teleconference. 1999. Columbus.
- (26) Clinical Microbiology. American Acad. of Pediatrics-ID Prep Review Course. 1999. Chicago.
- (27) Role of the Virology Lab in Healthcare, Clinical Virology Symposium, 2000. Clearwater.
- (28) How to Manage the Viral Diagnostic Lab, Clinical Virology Symposium. 2001. Clearwater.
- (29) Case Presentations in Clinical Virology. SCACM Teleconference. 2003. Columbus.
- (30) Best Laboratory Practices for Diagnosis of Infectious Diseases. Pediatric Infectious Diseases Conference, 2003. Columbus.
- (31) Communicating Antimicrobial Susceptibility Test Results to Physicians. SCACM Conference, 2003 Columbus
- (32) ASM Symposium (co-chair and speaker), Quality, Cost and Clinical Relevance, Revisited. May 2004, New Orleans
- (33) Ohio River Valley AACC/CLMA Meeting. Implementing Nucleic Acid Diagnostics in a Pediatric Setting. April 2005, Ft Mitchell, KY.

- (34) American Society for Clinical Lab Science, Annual Meeting. Case Presentations in Clinical Microbiology, May 2005, Columbus.
- (35) Clinical Virology Symposium. Managing Personnel in the Molecular Virology Laboratory. May 2005, Clearwater, FL
- (36) ASM Symposium (co-chair), Update on Clinically Significant Gram Positive Cocci. June 2005, Atlanta.
- (37) Clinical Virology Symposium. Nucleic acid extraction systems for the moderately sized Molecular Microbiology Lab. May 2006. Clearwater, FL
- (38) American Society for Clinical Lab Science, Annual Meeting. Case Presentations in Clinical Microbiology, May 2006, Toledo.
- (39) American Society for Clinical Lab Science, Annual Meeting. Newly Emerging Respiratory Viruses. May 2006, Toledo.
- (40) ASM Teleconference Series. Laboratory Diagnostics for Respiratory Viruses. May 2006.
- (41) TIMMS Spring Meeting. Utility of Nucleic Acid Amplification Tests in Pediatric Clinical Microbiology: Case Studies. May 2006. Cleveland, OH
- (42) Pediatric Infectious Diseases Conference, Columbus – Gastrointestinal Tract Infections. October 2006.
- (43) American Society for Clinical Lab Science, Annual Meeting, Worthington, OH. May 2007. GI infections: Case Studies.
- (44) Ohio River Valley AACC/CLMA Meeting. Columbus, Ohio May 2007. To PCR or not to PCR! – Challenges for the Diagnosis of Respiratory Tract Infections
- (45) ASCP Spring 2007 Teleconference Series. *Bordetella species*: pertussis and beyond. June 2007.
- (46) ASM Fall Teleconference Series. PCR-based testing for diagnosis of respiratory infections, Oct 2007
- (47) XMap (Luminex) Conference, Evaluation of Plexus EBV panels in a pediatric setting, Oct 2007 (Amsterdam)

**EXTERNALLY FUNDED CONTRACT RESEARCH (SPONSORS ANONYMOUS):**

- |     |   |          |
|-----|---|----------|
| (1) | Evaluation of Bactigen Latex Test Reagents for Bacterial Meningitis (PI). 1983-84.  | \$3,500. |
| (2) | Evaluation of a Monoclonal Antibody for Detection of <i>Chlamydia trachomatis</i> in Pediatric Patient Specimens (PI). 1984-85. | \$4,300. |
| (3) | Evaluation of Reagents for Direct Detection of <i>N. meningitidis</i> Antigens in CSF and Urine (PI). 1985-86.                  | \$8,200. |
| (4) | Evaluation of Directigen vs. Reveal for Direct Detection of Group A Streptococcus (PI). 1989.                                   | \$5,000. |
| (5) | Directigen 1-2-3 Product integrity program (PI). 1990-91.   | \$5,000. |
| (6) | Tryptic Soybean Digest - Blood Agar Media Evaluation (PI). 1992.  | \$7,000. |

(7)	Directigen 1-2-3 vs Biostar OIA for Direct Group A Streptococcal Detection in Throat Swabs (PI). 1993.	\$5,000.
(8)	Evaluation of Respiratory Tract Isolates of <i>H. influenzae</i> against 10 Antimicrobial Agents (PI). 1994.	\$10,000.
(9)	Enterovirus Detection by PCR (PI). 1994-95	\$83,000.
(10)	Molecular Methods for Identification of <i>Lactobacillus</i> and <i>Bifidobacterium</i> spp. of Human Origin (PI). 1995-96.	\$97,000.
(11)	Methods for Typing and Strain Delineation of Human Probiotic Bacteria (PI). 1998-99.	\$23,000.
(12)	Detection of <i>S. pyogenes</i> using culture, Gen-Probe Strep A, and Roche Light Cycler – PCR. (PI) 2002-2003.	\$17,000.
(13)	Evaluation of IgM-Capture for West Nile Virus (PI). 2003.	\$15,000.
(14)	Evaluation of MultiLyte Assay for EBV (PI). 2004.	\$6,000.
(15)	NASBA for Enterovirus (PI). 2004-05.	\$105,000.
(16)	Rapid Influenza Diagnosis (PI). 2004-05.	\$6,000.
(17)	Diagnostic Efficacy of GenProbe Aptima GC/CT Combo Test in Suspected Child Abuse (CO-INV). 2006-07.	\$25,000.
(18)	Influenza Rapid Diagnostics (PI). 2006-07.	\$43,750.
(19)	EBV Plexus Study (PI). 2007.	\$55,900.
(20)	Influenza Diagnostics Study (PI). 2007.	\$53,950.
(21)	RSV Diagnostics Study (PI). 2007.	\$67,600.
(22)	RSV Rapid Diagnostics Study (PI). 2007.	\$25,000.
(23)	EIA vs PCR for Detection of Norovirus (PI). 2007.	\$21,175.
(24)	<i>C. difficile</i> Diagnostics (PI). 2007.	\$27,300.
(25)	Plexus Parasite Study (PI). 2007.	\$46,000.
(26)	RT-PCR for Human Metapneumovirus (PI). 2007-08	\$13,000.
(27)	EBV Rapid Diagnosis (PI). 2007-08.	\$23,000.
(28)	NASBA for Influenza Diagnosis (PI). 2007-08.	\$44,000.
(29)	Influenza Diagnostics by Antigen Detection (PI) 2007-08.	\$63,000.
(30)	Multicenter Trial for Norovirus Diagnosis. 2007-08.	\$70,000.