

CURRICULUM VITAE

RITA MARIE GANDER, PhD, ABMM

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Southwestern Medical Center
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UNDERGRADUATE EDUCATION:

1974 **BA in Biology**
University of Texas, Austin, Texas

1974-1975 Medical Technologist (ASCP)
Austin State Hospital School of Medical Technology, Austin, Texas

GRADUATE EDUCATION:

1980-1985 **PhD in Microbiology**
The University of Texas Health Science Center at San Antonio

PhD Thesis: Variation in Surface Adhesins in the Pathogenesis of a Wild Type *Escherichia coli*
Uropathogen.

POSTGRADUATE EDUCATION:

1986-1988 **Postdoctoral Fellow**

ABMM/CPEP Accredited Program in Medical and Public Health Laboratory
Microbiology

The University of Texas Medical School
Baylor College of Medicine
Houston, Texas

BOARD CERTIFICATION:

1990 **Diplomate**, American Board of Medical Microbiology in Medical and Public Health
Microbiology

POSITIONS HELD:

- 1974 **Laboratory Technician**
Texas State Department of Health, Austin, Texas
- 1975-1977 **Medical Technologist**
Kansas University Medical Center, Kansas City, Kansas
- 1978-1980 **Medical Technologist**
Lutheran General Hospital, San Antonio, Texas
- 1980-1984 **Graduate Teaching Assistantship**, Department of Microbiology,
The University of Texas Health Science Center, San Antonio, Texas
- 1984-1985 **NIH Predoctoral Fellow**, Training Grant - Molecular Mechanisms
of Pathogenicity, Department of Microbiology,
The University of Texas Health Science Center, San Antonio, Texas
- 1986 **Research Instructor**, Department of Microbiology,
The University of Texas Health Science Center, San Antonio, Texas
- 1986-1988 **Postdoctoral Fellow**, ABMM/CPEP Accredited Postdoctoral
Fellowship Program in Medical and Public Health Laboratory
Microbiology, Department of Pathology and Laboratory Medicine,
The University of Texas Medical School, Houston, Texas
- 1988-1989 **Instructor**, Department of Pathology
The University of Texas Southwestern Medical Center, Dallas, Texas
- 1989-1996 **Assistant Professor**, Department of Pathology
The University of Texas Southwestern Medical Center, Dallas, Texas
- 1988-present **Associate Director**, Clinical Microbiology
Parkland Memorial Hospital, Dallas, Texas
- 1989-2003 **Director**, Clinical Microbiology
Zale Lipshy University Hospital, Dallas, Texas
- 1996-2002 **Associate Professor**, Department of Pathology
The University of Texas Southwestern Medical Center, Dallas, Texas
- 2001- 2008 **Associate Director**, Laboratory for Molecular Infectious Diseases,
The University of Texas Southwestern Medical Center, Dallas, Texas
- 2002- present **Professor**, Department of Pathology
The University of Texas Southwestern Medical Center, Dallas, Texas
- 2003-2008 **Consultant**, Clinical Microbiology
St. Paul University Hospital, Dallas, Texas
- 2009-present **Director**, Clinical Microbiology
St. Paul University Hospital, Dallas, Texas

TEACHING AND EDUCATIONAL ACTIVITIES:

1975-1977	Instructor in Microbiology to medical technology students Kansas University Medical Center, Kansas City, Kansas
1978-1980	Instructor in Microbiology to laboratory technology students, Lutheran General Hospital, San Antonio, Texas
1980-1984	Teaching Assistantship, Department of Microbiology, The University of Texas Health Science Center, San Antonio, Texas
1986-1988	Lecturer in medical and clinical microbiology to medical technology students enrolled in the Allied Health Sciences program. Guest lecturer in medical microbiology to optometry students enrolled in a pathology course. Lecturer in clinical microbiology to medical students enrolled in a clinical pathology course. The University of Texas Medical Center, Baylor College of Medicine, Dallas, Texas and The University of Houston School of Optometry, Houston, Texas
1989-1994, 1997-2001	Lecturer in clinical microbiology to medical technology students enrolled in the Allied Health Sciences program The University of Texas Southwestern Medical Center, Dallas, Texas
1989-present	Lecturer in clinical microbiology to pathology residents in the Department of Pathology The University of Texas Southwestern Medical Center, Dallas, Texas
1992-1998	Lecturer in medical microbiology to second year medical students
2001- present	Lab instructor and small group leader in medical microbiology course for second year medical students
1994-1999	Lab instructor in pathology course for second year medical students
1998-2002	Lecturer in microbiology to Infectious Diseases fellows; Infectious Diseases core curriculum course
1990-present	Students under direct clinical/research training supervision: Kate Elkind, M.D. - Infectious Disease Fellow - part time (1990-1991) Kathleen Chambers-Huffnagle, Ph.D. - Clinical Microbiology Fellow - (1990-1992) Susan Antone, Ph.D., D.V.M. - Clinical Microbiology Fellow - (1991-1993) Ajay Mohabeer, M.D.-Clinical Microbiology Fellow - (1997-1998) Dominick Cavuoti, D.O-Clinical Microbiology Fellow - (2001-2002) Asim Diab, M.D.- Clinical Microbiology Fellow - (2004-2005) Roberto Arena, M.D.- Clinical Microbiology Fellow – (2008-2009) Adnan Alatoom, M.D., Ph.D. - Clinical Microbiology Fellow (2009-2010) Jessica Ricaldi-Camahuali, M.D., Ph.D. - Clinical Microbiology Fellow (2009-2010)

ACADEMIC HONORS:

Dean's List at University of Houston, 1972
Dean's List at University of Texas, 1973
S.E. Sulkin Award for Outstanding Student Paper, 1985, Texas Branch of American Society for Microbiology (Fall), San Antonio, Texas
Distinguished Service Award, 2000, Southwestern Association of Clinical Microbiology

PROFESSIONAL SOCIETIES:

American Society of Clinical Pathologists (ASCP) MT 101547 - 1975
American Society for Microbiology-1981
 Nominations Committee for Chair of Division C-1993
Texas Society for Clinical Microbiology-1988
 Program Chairman, 1993-present
Southwestern Association of Clinical Microbiology-1989
 Symposia Co-chairman, 2006 Annual Meeting
 Board Member and Area Director for North Texas, 1990-1992, 1994-1996
 Workshop Chairman, 1992 Annual Meeting
 Program Co-chairman, 1996 Annual Meeting
 President-elect, 1997-1998
 President, 1998-1999
 Nominations Chairman, 1999-2000
North Texas Society for Pathology, 2005
National Shellfisheries Association-1990
American Board of Medical Microbiology-1990
 Recorder/Examiner-in-Training, 1991
The Academy of Clinical Laboratory Physicians and Scientists-1992
Infectious Diseases Society of America-1992
Texas Society of Infectious Diseases-1994

COMMITTEE SERVICE:

PMH Hospital Design, 2009 - present
PMH Clinical Pathology Hospital Replacement Committee, 2008
St. Paul University Hospital Infection Control Committee, 2007 - present
PMH Hospital Infection Control Committee, 1988 - present
Tissue Transplant Services Center Advisory Committee, Advisory Board, 2007 - present
Zale-Lipshy University Hospital Infection Control Committee, 1989-2003
Zale-Lipshy University Hospital Pharmacy and Therapeutics Committee, 1989-1997
Graduate Student Representative-Committee on Graduate Studies, 1984-1985
Medical Laboratory Services Chair Ad Hoc Committee, 1989-1990
Pathology Course Revision Committee - Pathology Practice Group, 1993
Cerner Advisory Board, 1994

REVIEWER FOR:

Journal of Clinical Microbiology (1990-present)
Pediatric Infectious Disease Journal (1995-present)
European Journal of Clinical Microbiology and Infectious Diseases (1995-present)
Laboratory Medicine (2003-present)

APPOINTED MEMBER of EDITORIAL BOARD:

Journal of Clinical Microbiology (1/1/93-12/31/95; 1/1/96-12/31/98; 1/1/99-12/31/01)
Appointed Member of American Society for Microbiology AskIt Expert Panel
(2002-present)
Laboratory Medicine (1/1/07-present)

PREVIOUS AND CURRENT RESEARCH SUPPORT:

- 07/15/87-
11/01/87 E.R. Squibb and Sons, Inc., Princeton, NJ: *In Vitro* Evaluation of Aztreonam's Activity Against Gram Negative Bacilli; P.I.: D. Moore, PhD, Co-Investigator: R. Gander, PhD; Direct Cost: \$3,500.
- 09/01/88-
08/31/89 Southwestern Medical School Institutional Research Grant, Characterization of Pilus-like Structures on *Vibrio vulnificus* Strains; P.I.: R. Gander, PhD; Direct Cost: \$6,000.
- 12/15/88 Wellcome Diagnostics, Research Triangle Park, NC and Wampole Laboratories, Cranbury, NJ: Direct Detection of Bacterial Pathogens in Blood Cultures with Latex Agglutination Reagents; P.I.: R. Gander, PhD; Direct Cost: \$4,600.
- 07/01/89 The National Foundation for Infectious Diseases, Bethesda, MD: Adhesins of *Vibrio vulnificus* as Potential Mediators of Attachment to Human Epithelial Cells; P.I.: R. Gander, PhD; Direct Cost: \$4,000.
- 09/01/89-
12/31/90 Sea Grant College Program - Texas A & M University, College Station, TX: Adhesins of *Vibrio vulnificus* as Potential Mediators of Attachment to Human Epithelial Cells; P.I.: R. Gander, PhD; Direct Cost: \$13,775.
- 03/04/91 Gen-Probe, San Diego, CA: Detection of *Histoplasma capsulatum* DNA in Blood Samples and Culture Isolates Using a Nucleic Acid Probe; P.I.: R. Gander, PhD, Co-Investigator: K. Huffnagle, PhD; Direct Cost: \$3,500.
- 01/01/92-
07/01/94 Texas Higher Education Coordinating Board, Austin, TX: Biology and Public Health Significance of *Vibrio vulnificus* in Texas Oysters; Co-P.I.: R. Gander, PhD; Direct Cost: \$53,000.
- 07/01/93 Roche Molecular Systems, Inc., Branchburg, NJ: Roche Polymerase Chain Reaction Assay for Mycobacteria; P.I.: R. Gander, PhD, Co-Investigators: Paul M. Southern, MD and Joseph H. Keffer, MD; Direct Cost: \$39,000.
- 01/01/94 Roche Molecular Systems, Inc., Branchburg, NJ: Roche Polymerase Chain Reaction Assay for Mycobacteria (Extended Study); P.I.: R. Gander, PhD, Co-Investigators: Paul M. Southern, MD and Joseph H. Keffer, MD; Direct Cost: \$39,000.
- 11/01/94- MicroScan, West Sacramento, CA: RAQ41 Clinical Trial;

01/31/96 P.I.: R. Gander, PhD; Direct Cost: \$80,663.

08/01/97 Pharmacia and Upjohn Company, Kalamazoo, MI: Susceptibility Testing of *Bartonella henselae* Against New Antibacterial Agents; P.I.: R. Gander, PhD; Direct Cost: \$4,564.38.

01/12/98 BioStar, Inc., Boulder, CO: Clinical Performance of an Optical Immunoassay for the Detection of Influenza A or B Antigens in Human Subjects; P.I.: R. Gander, PhD; Direct Cost: \$51,932.50.

09/01/98 Bristol-Myers Squibb Company, Princeton, NJ: The Effect of Formulary Conversion from Ceftazidime to Cefepime on the In Vitro Sensitivities of *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Enterobacter cloacae* and *Klebsiella pneumoniae* to Selected Antibiotics; Co-P.I.: R. Gander, PhD and Paul M. Southern, Jr., MD; Direct Cost: \$20,000.

01/01/99 BioStar, Inc., Boulder, CO: Evaluation of the BioStar CdTOX A OIA™ for *In Vitro* Diagnostic Use as an Aid in the Diagnosis of *Clostridium difficile*-Associated Disease; P.I.: R. Gander, PhD; Direct Cost: \$18,100.

09/09/99 Bayer Corporation, West Haven, CT: Moxifloxacin Regional and National In-Vitro Susceptibility of Common Respiratory Tract Pathogens; P.I.: R. Gander, PhD; Direct Cost: \$5,000.

01/01/00 Alcon Laboratories, Inc., Ft. Worth, TX: Determination of Postantibiotic Effect of Commercial Ophthalmic Solutions of Ciprofloxacin and Ofloxacin Against Bacterial Ocular Pathogens; P.I.: R. Gander, PhD; Direct Cost: \$7,417.50.

01/12/01 Alcon Laboratories, Inc., Ft. Worth, TX: Determination of Postantibiotic Effect of Commercial Ophthalmic Solutions of Ciprofloxacin and Ofloxacin Against Bacterial Ocular Pathogens (Extended Study); P.I.: R. Gander, PhD; Direct Cost: \$22,252.50.

01/01/01 BioStar, Inc., Boulder, CO: Evaluation of the Thermo BioStar[®] Automated Analyzer System (OIASys[®]) for In Vitro Diagnostic Use as an Aid in the Rapid Detection and Identification of Influenza A and B; P.I.: R. Gander, Ph.D.; Direct Cost: \$34, 968.75.

04/20/01 Digene Corporation, Gaithersburg, MD.: Validation of Cytoc PreservCyt[®] Solution as an Alternate Specimen Type for Hybrid Capture 2 CT/GC, CT-ID and GC-ID Tests; Co-P.I.: R. Gander, Ph.D; Direct Cost: \$80,558.50.

11/30/01 Thermo BioStar, Inc., Boulder, CO: Evaluation of the Thermo BioStar™ Automated Analyzer System (OIASys™ for *In Vitro* Diagnostic Use as an Aid in the Rapid Detection and Identification of Influenza A and B. (Extended Study); P.I.: R. Gander, PhD; Direct Cost: \$53,625.00.

08/01/02 Digene Corporation, Gaithersburg, MD: Validation of Cytoc PreservCyt[®] Solution as an Alternate Specimen Type for Hybrid Capture 2 CT/GC, CT-ID and GC-ID Tests; (Extended Study); Co-P.I.: R. Gander, Ph.D; Direct Cost: \$113,556.19.

PUBLICATIONS:

1. Woodruff RC, **Gander R.M.** 1974. The induction of temperature-sensitive mutations in *Drosophila melanogaster* by the acridine mustard ICR-170. *Mutation Research*. 25(3):337-45.
2. **Gander R.M.**, V.L. Thomas, and M. Forland. 1985. Mannose-resistant hemagglutination and P receptor recognition of uropathogenic *Escherichia coli* isolated from adult patients. *J. Infect. Dis.* 151:508-513.
3. **Gander R.M.** and V.L. Thomas. 1986. Utilization of anion exchange chromatography and monoclonal antibodies to characterize multiple pili types on an O6 uropathogenic *Escherichia coli* isolate. *Infect. Immun.* 51:385-393.
4. Abraham, J.M., C.S. Freitag, **R.M. Gander**, J.R. Clements, V.L. Thomas, and B.I. Eisenstein. 1986. Fimbrial phase variation and DNA rearrangements in uropathogenic isolates of *Escherichia coli*. *Mol. Biol. Med.* 3:495-508.
5. **Gander, R.M.** and V.L. Thomas. 1987. Distribution of type 1 and P pili on uropathogenic *Escherichia coli* O6. *Infect. Immun.* 55:293-297.
6. **Gander, R.M.** and M.T. LaRocco. 1987. Multiple drug resistance in *Shigella flexneri* isolated from a patient with human immunodeficiency virus. *Diagnostic Micro. and Infect. Dis.* 8:193-196.
7. Oefinger, P.E., S.H. Loo, and **R.M. Gander**. 1988. Modified spin-amplified adsorption procedure with conventional tissue culture tubes for rapid detection and increased recovery of herpes simplex virus from clinical specimens. *J. Clin. Micro.* 26:2195-2199.
8. **Gander, R.M.** and M.T. LaRocco. 1989. Detection of pilus-like structures on clinical and environmental isolates of *Vibrio vulnificus*. *J. Clin. Micro.* 27:1015-1021.
9. Gateley, A., **R.M. Gander**, P.C. Johnson, S. Kit, H. Otsuka, and S. Kohl. 1990. Herpes simplex virus Type 2 meningoencephalitis resistant to acyclovir in a patient with AIDS. *J. Infect. Dis.* 161:711-715.
10. Hearn, Y.R. and **R.M. Gander**. 1991. *Achromobacter xylosoxidans*: An unusual neonatal pathogen. *Am. J. Clin. Path.* 96(2):211-214.
11. Huffnagle, K.E., P.M. Southern, Jr., L.T. Byrd, and **R.M. Gander**. 1992. *Apophysomyces elegans* as an agent of zygomycosis in a patient following trauma. *J. Med. Vet. Mycol.* 30:83-86.
12. **Gander, R.M.** 1992. Vibrio infections. *Southwestern Assoc. Clin. Micro. Newsletter.* 9(2):34- 36.
13. Huffnagle, K.E. and **R.M. Gander**. 1993. Evaluation of Gen-Probe's *Histoplasma capsulatum* and *Cryptococcus neoformans* AccuProbes. *J. Clin. Microbiol.* 31:419-421.
14. Wilson, K.S., S. Antone Maroney, and **R.M. Gander**. 1995. The family pet as an unlikely source of group A beta-hemolytic streptococcal infection in humans. *Pediatr. Infect. Dis. J.* 14:372-375.
15. Batiste-Milton, S.E., D.D. Colvin, and **R.M. Gander**. 1995. Tubo-ovarian abscess and peritoneal effusion due to *Arcanobacterium haemolyticum*. *Clin. Micro. Newsletter* 17(15):118-120.
16. Bradley, R.M., **R.M. Gander**, S.K. Patel, and H.S. Kaplan. 1997. Inhibitory effect of 0°C storage on *Yersinia enterocolitica* proliferation in donor blood. *Transfusion.* 37:691-695.

17. Mohabeer, A.J., P.J. Kaplan, P.M. Southern, Jr., and **R. M. Gander**. 1997. Algaemic sepsis due to *Prototheca wickerhamii* in a patient with myasthenia gravis. *J. Clin. Microbiol.* 35:3305-3307.
18. Southern, Jr., P.M., S. Patel, and **R.M. Gander**. 1998. Does examination of urinary sediment identify individuals with Gulf War Syndrome? A pilot study. *Am. J. Med. Sci.* 315:225-229.
19. Arocha, D. and **R.M. Gander**. 2000. *Escherichia coli* meningitis in association with *Strongyloides* infection. *American Society of Clinical Pathologists. Tech Sample. Microbiology No. MB-6:27-32.*
20. Reddy, S.T., M.K. Jain, K. Horan, D.J. Skiest and **R.M. Gander**. 2001. Gonococcal retropharyngeal abscess complicated by cervical osteomyelitis in a patient with acquired immunodeficiency syndrome. *Infect. Dis. Clin. Practice.* 10(5):275-278.
21. Willis, M.S., D. Cavuoti and **R.M. Gander**. 2001. Nocardia meningitis. *Lab Med.* 32 (11): 695-697.
22. Fuda, F.S., E. Sigauke, D. Cavuoti, **R.M. Gander**, S. Kroft and M. Willis. 2002. Primary amoebic meningo encephalitis. *Lab Med.* 33(1):57-60.
23. Cavuoti, D., M. Fogli, R. Quinton, **R.M. Gander** and P.M. Southern. 2002. Splenic abscess with *Vibrio cholerae*. *Diag. Microbiol. Infect. Dis.* 43:311-313.
24. Sigauke, E., P.M. Southern, **R.M. Gander**, D. Cavuoti, and W. Beebe. 2003 Ophthalmomyiasis Externa in Dallas County: A Case Report. *Am. J. Trop. Med. Hygiene.* 68:46-47.
25. Sarode, V.R., C. Werner, **R. Gander**, B. Foster, A. Fulmer, M. H. Saboorian and R. Ashfaq . 2003, Reflex HPV DNA testing on residual liquid-based (TPPT™) cervical samples; focus on age-stratified clinical performance. *Cancer Cytopathology.* 99(3):149-155.
26. White MD, Willis MS, Fuda FS, and **Gander RM**, Southern PM. 2004, Periumbilical rash in an immunosuppressed patient. *Lab Med.* 35:346-349.
27. Seegmiller, AC and **Gander RM**. 2004. Abdominal pain and leukocytosis in an immunosuppressed patient. *Lab Med.* 35:669-671.
28. Sailors, J., **R. Gander**, M.H. Saboorian, P. Berkley, B. Foster and R. Ashfaq. 2005. Stability of Preservcyt® for Hybrid Capture® (HCII) HPV Test. *Diagnostic Cytopathology.* 32(5):260-263.
29. Hussey S., **R. Gander**, Southern P, and Hoang MP. 2005. Subcutaneous phaeohyphomycosis caused by *Cladophialophora bantiana*. *Archives of Path. and Lab Med.* 129(6):794-797.
30. Diab A., **R. Gander**, D. Grant, D. Cavuoti, and Southern PM. 2005. Fever, weight loss, cough and chest pain in a HIV-positive man. *Lab Med.* 36(11):696-699.
31. Cimo ML, **R. Gander**, and Southern PM. 2005. Fever, headache, and abdominal pain in an African male. *Lab Med.* 36(2):90-94.
32. Thompson MP, F. Fuda, RM Gander. 2007. Fever, night sweats, headache, cough and myalgias in a 60 year-old man. *Lab Med.* 38(6):7-11.

33. Sutton LM, **R. Gander**, P. Revell, and P. Southern. 2008. Travel-related fever due to an emerging infection. *Lab Med*. 39(2):83-6.
34. Alatoon A., J. Sheffield, **R. Gander**, P. Southern, J. Shaw, and D. Cavuoti. 2008. Fascioliasis in pregnancy. *Obstetrics and Gynecology* 112(2):483-485.
35. Alatoon A., D. Cavuoti, P. Southern, and **R. Gander**. 2008. *Fasciola hepatica* infection in the United States. *Lab Med* 39(7):425-428.
36. **Gander, R.M.**, L. Byrd, M. DeCrescenzo, S. Hirany, M. Bowen, and J. Baughman. 2009. Impact of phlebotomy-drawn blood cultures on contamination rates and health care costs in a hospital emergency department. *J. Clin. Microbiol.* 47(4):1021-1024.
37. Alatoon, A., J.N. Ricaldi, R. Sumpter and **R. Gander**. 2010. Q fever over 75 years: What have we achieved? American Society of Clinical Pathology Check Sample. (MB10-7:73-86).
38. Chan, J.L., W. Dai, J.W. Dharamsi, S. Soliman, C. Ricotti, **R. M. Gander** and P.R. Bergstresser. 2011. Cutaneous fusariosis developing in a post-irradiation site. *Dermatology Online Journal*. May; 17(5):5.
39. Nuara, A., A. Calame, D. Cavuoti, **R. M. Gander**, D. M. Scollard, S.P. Nations and J.B. Cohen. 2011. Dual infection with *Mycobacterium haemophilum* and *Mycobacterium leprae* in an iatrogenically immunosuppressed patient initially diagnosed as sarcoidosis. (Submitted for publication).

ELECTRONIC PUBLICATION:

Aquino, D.B. and **R.M. Gander**: *Cyclospora cayetanensis* and Food-Borne Outbreaks of Diarrhea in Humans. American Society for Microbiology; Education page; 03/31/99; <http://www.asmta.org>

BOOK CHAPTER:

Rogers, B.B. and **R.M. Gander**: Molecular Testing for Infectious Disease. *In: Handbook of Clinical Pathology*, R.W. McKenna and J.H. Keffer, eds., ASCP Press, American Society of Clinical Pathologists, Chicago. 2000. Chapter 34:517-525.

PRESENTATIONS AND ABSTRACTS:

1. **Gander, R.M.** and V.L. Thomas. 1981. Mannose-resistant agglutination of rat erythrocytes, spleen cells, and bladder epithelial cells by an *E. coli* 06 urinary pathogen. Texas Branch of the American Society of Microbiology (Fall), San Antonio, Texas.
2. **Gander, R.M.** and V.L. Thomas. 1982. Mannose-resistant agglutination of rat erythrocytes, spleen cells, and bladder epithelial cells by a *Escherichia coli* 06 urinary pathogen. (Abstract No. B-154). American Society for Microbiology, 82nd Annual Meeting, Atlanta, Georgia.
3. Thomas, V.L., J.J. Ratner, and **R.M. Gander**. 1982. Shared antigens of *E. coli* and human tissues as detected by SDS-PAGE. (Abstract No. B-76). American Society for Microbiology, 82nd Annual Meeting, Atlanta, Georgia.

4. **Gander, R.M.** and V.L. Thomas. 1983. Reactivity of 68 strains of *E. coli* O6 uropathogens with *E. coli* K12 type 1 fimbriae antiserum and correlation with yeast agglutination, bacterial piliation, and autoradiography using Western blotting. (Abstract No. B-2). American Society for Microbiology, 83rd Annual Meeting, New Orleans, Louisiana.
5. **Gander, R.M.** and V.L. Thomas. 1984. Variations in agglutinin expression of individual colonies within strains of uropathogenic *Escherichia coli*. (Abstract No. B-107). American Society for Microbiology, 84th Annual Meeting, St. Louis, Missouri.
6. **Gander, R.M.**, V. Thomas, and M. Forland. 1984. Mannose-resistant hemagglutination and P receptor recognition of uropathogenic *Escherichia coli* isolated from adult patients whose urines contain antibody-coated bacteria. (Abstract No. 280A). IX International Congress of Nephrology, Los Angeles, California.
7. **Gander, R.M.** and V.L. Thomas. 1985. Monoclonal antibodies against multiple pili types of an *E. coli* O6 uropathogen - immunofluorescence and electron microscopy studies. (Abstract No. B- 58). American Society for Microbiology, 85th Annual Meeting, Las Vegas, Nevada.
8. Thomas, V., T. Jones, **R. Gander**, and F. Pfluger. 1985. Monoclonal antibody against *Escherichia coli* cross-reacts with human kidney. (Abstract No. B-174). American Society for Microbiology, 85th Annual Meeting, Las Vegas, Nevada.
9. Neal, Jr., D.E., E.E. Moody, **R. Gander**, V.L. Thomas, and H.M. Radwin. 1985. Development of upper urinary tract infection as a result of cystitis in a primate model. (Abstract). American Urological Association, Atlanta, Georgia.
10. Neal, Jr., D.E., E.E. Moody, V.L. Thomas, **R. Gander**, and H.M. Radwin. 1985. *In vivo* transfer of an R-plasmid in a urinary tract infection model. (Abstract). American Urological Association, Atlanta, Georgia.
11. **Gander, R.M.** and V.L. Thomas. 1985. Utilization of anion exchange chromatography and monoclonal antibodies to characterize multiple pili types on a O6 uropathogenic *Escherichia coli* isolate. Texas Branch of the American Society of Microbiology (Fall), San Antonio, Texas.
12. **Gander, R.M.**, D.E. Neal, and V.L. Thomas. 1986. Variations in piliated subpopulations of a uropathogenic *Escherichia coli* in experimental retrograde urinary tract infections in primates. (Abstract No. B-98). American Society for Microbiology, 86th Annual Meeting, Washington, D.C.
13. Abraham, J.M., C.S. Freitag, J.R. Clements, **R. Gander**, and B.I. Eisenstein. 1986. Independent DNA rearrangements control type 1 fimbriae expression and are associated with P fimbriae expression. (Abstract No. H-193). American Society for Microbiology, 86th Annual Meeting, Washington, D.C.
14. **Gander, R.M.** and A. Robinson. 1987. Serum bactericidal activity of cefotaxime and ceftazidime alone or in combination with tobramycin against *Pseudomonas aeruginosa*. (Abstract No. C-239). American Society for Microbiology, 87th Annual Meeting, Atlanta, Georgia.
15. **Gander, R.M.** and A. Robinson. 1987. Serum bactericidal activity of vancomycin alone or in combination with gentamicin and rifampin against methicillin-resistant coagulase negative staphylococci. (Abstract No. 871). 27th Interscience Conference on Antimicrobial Agents and Chemotherapy, New York, New York.

16. **Gander, R.M.** and M.T. LaRocco. 1988. Detection of pili-like structures on *Vibrio vulnificus*. (Abstract No. B-179). American Society for Microbiology, 88th Annual Meeting, Miami, Florida.
17. Oefinger, P.E., S.H. Loo, and **R.M. Gander**. 1988. Use of tissue culture tubes in a modified spin amplified adsorption technique for enhanced recovery of clinical isolates of herpes simplex virus. (Abstract No. C-67). American Society for Microbiology, 88th Annual Meeting, Miami, Florida.
18. **Gander, R.M.** and S.K. Patel. 1990. Characterization of pili of *Vibrio vulnificus* by electron microscopy and electrophoresis. (Abstract). National Shellfisheries Association and the Shellfish Institute of North America, Williamsburg, Virginia.
19. Patel, S.K. and **R.M. Gander**. 1990. Comparison of Wellcogen, Directigen, and Bactigen latex agglutination tests for direct identification of bacterial pathogens in blood cultures. (Abstract). American Society for Microbiology, 90th Annual Meeting, Anaheim, California.
20. **Gander, R.M.** and S.K. Patel. 1990. Biochemical and electron microscopy analysis of pili and flagella of *Vibrio vulnificus*. (Abstract). American Society for Microbiology, 90th Annual Meeting, Anaheim, California.
21. **Gander, R.M.** and S.K. Patel. 1991. Reactivity of rabbit and human immune sera against pili of *Vibrio vulnificus*. (Abstract No. 1752). American Society for Microbiology, 91st Annual Meeting, Dallas, Texas.
22. Southern, P.M., L.A. Byrd, and **R.M. Gander**. 1991. Effect of the AIDS epidemic on the practice of clinical microbiology at a large acute care hospital. (Abstract). American Society for Microbiology, 91st Annual Meeting, Dallas, Texas.
23. Huffnagle, K., **R. Gander**, and P. Southern. 1991. Effect of NaCl concentration on detection of methicillin resistance in coagulase-negative staphylococci. (Abstract). American Society for Microbiology, 91st Annual Meeting, Dallas, Texas.
24. Elkind, C.C., S.K. Patel, and **R.M. Gander**. 1992. Investigation of the ability of *Vibrio vulnificus* to invade HEp-2 cells. (Abstract). American Society for Microbiology, 92nd Annual Meeting, New Orleans, Louisiana.
25. Southern, P.M., **R.M. Gander**, L. Byrd, D. Colvin, and M. Dowell. 1994. Pseudomeningitis (Pm) again: association with cytofunnel (CF) and Gram-stain reagent (GSR). (Abstract). 34th Interscience Conference on Antimicrobial Agents and Chemotherapy, Orlando, Florida.
26. Tevere, V., M.D. Appleman, M. Bankowski, W. Black, R. D'Amato, M. Del Vecchio, **R. Gander**, et al. 1995. Results of a multicenter clinical trial study for the direct detection of *Mycobacterium tuberculosis* in respiratory samples utilizing the Amplicor™ *M. tuberculosis* test. (Abstract). American Society for Microbiology, 95th Annual Meeting, Washington, D.C.
27. Rutter, M., S.S. Barth, L. Del Rosario, and **R.M. Gander**. 1995. Molecular analysis of methicillin resistant *Staphylococcus aureus* isolates from a metropolitan hospital. (Abstract). American Society for Microbiology, 95th Annual Meeting, Washington, D.C.
28. **Gander, R.M.**, S.K. Patel, J. Armitage, and J. Prosser. 1995. Clinical evaluation of the Roche Amplicor™ test for direct detection of *Mycobacterium tuberculosis* in respiratory secretions. (Abstract). American Society for Microbiology, 95th Annual Meeting, Washington, D.C.

29. Armitage, J.B., D.D. Boettcher, **R.M. Gander**, and M.Q. Ansari. 1995. Comparison of CALAST™ latex agglutination assay to fungal culture for the diagnosis of cryptococcal meningitis. (Abstract). American Society of Clinical Pathologists, Fall Meeting, New Orleans, Louisiana.
30. **Gander, R.M.**, S.K. Patel, T.P. Gillis, and C.B. Lyde. 1998. Detection of *Mycobacterium leprae* by polymerase chain reaction in nasal specimens of leprosy patients and household contacts. (Abstract). International Leprosy Congress, 15th Annual Meeting, Beijing, China.
31. **Gander, R.M.**, S.T. Reddy, and S.K. Patel. 1998. Clinical evaluation of the BioStar® AB FLU OIA® test for direct detection of Influenza types A and B in respiratory secretions. (Abstract). Interscience Conference on Antimicrobial Agents and Chemotherapy, 38th Annual Meeting, San Diego, California.
32. **Gander, R.M.**, S.K. Patel, T.P. Gillis, and C.B. Lyde. 1999. Investigation of nasal carriage of *M. leprae* in leprosy patients and household contacts in a non-endemic area. (Abstract). American Society for Microbiology, 99th Annual Meeting, Chicago, Illinois.
33. Haley, R.W., K. Hawkins, B. Moody, **R.M. Gander**, P.M. Southern, Jr., L. Uchal, K.E. Joy, L. Christensen, J.P. Minei. 2000. Alternative case definitions do not predict treatment of ventilator-associated pneumonia in prospectively studied patients in a surgical intensive care unit. (Abstract). Surgical Infection Society Meeting, Providence, Rhode Island.
34. **Gander, R.M.**, S.K. Patel, and J.P. McCulley. 2000. Postantibiotic effect of ciprofloxacin and ofloxacin on *Staphylococcus epidermidis*. (Abstract). Ocular Microbiology and Immunology Group Meeting, Dallas, Texas.
35. **Gander, R.M.**, D.C. Cavuoti, P.V. Berkley, K. Alford and J.P. McCulley. 2001. Postantibiotic effect of ciprofloxacin and ofloxacin on *Staphylococcus aureus*. (Abstract). Ocular Microbiology and Immunology Group Meeting, New Orleans, Louisiana.
36. **Gander, R.M.**, P.V. Berkley and J.P. McCulley. 2002. Postantibiotic effect of ciprofloxacin and ofloxacin on *Pseudomonas aeruginosa*. (Abstract). Ocular Microbiology and Immunology Group Meeting, Orlando, Florida.
37. Sailors J, **R. Gander**, Saboorian MH, Berkley P, Foster B, Ashfaq R. Stability of PreservCyt® for Hybrid Capture® (HC II) HPV Test. (Abstract) 50th Annual Scientific Meeting of the American Society of Cytopathology, Salt Lake City, UT, November 2002.
38. Makarla, P.B., A. Virmani, C. Muller, K.O. Toyooka, **R. Gander**, H.M. Saboorian, T. Gokaslan, J.D. Minna, A.F. Gazdar and R. Ashfaq. 2004. Relationship of Aberrant Promoter Methylation and HPV Risk Status to Clinical Evolution in Early Preneoplastic Uterine Cervical Epithelial Lesions. (Abstract). American Society of Cytopathology, 51st Annual Scientific Meeting, Orlando, Florida.
39. Push, T., D. Kemp, S. Trevino, T. Button, P. Sanchez, **R. Gander** and P. Sreemoju. 2011. Controlling Transmission of Vancomycin-Resistant Enterococcus faecium Across Multiple Hospital Units (Abstract). SHEA 2011 Annual Scientific Meeting, Dallas, Texas.
40. Ricaldi, J., L Byrd, A. Alatom and **R. Gander**. 2011. Cost analysis of a Review and Approval Mechanism for Molecular Microbiology Tests in a Teaching Hospital. (Abstract). American Society for Microbiology, 111th Annual Meeting, New Orleans, Louisiana.

INVITED PRESENTATIONS:

- 10/31/87 Houston Association of Medical Microbiologist, Baylor College of Medicine, "Non-cholerae Vibrios."
- 11/14/87 Houston District Society of Medical Technology, University of Texas Health Science Center at Houston, "Non-cholerae Vibrios and other new bugs."
- 05/21/90 Sexually Transmitted Diseases Seminar Series, Dallas Countywide Public Health Department, "Trichomoniasis - the most prevalent non-viral sexually transmitted disease."
- 10/25/90 Department of Biology Seminar Series, Texas Woman's University, "*Vibrio vulnificus*, New Monster of the Deep."
- 10/11/91 Southwestern Association of Clinical Microbiology, 10th Annual Meeting, Fort Worth, Texas, "Vibrios."
- 06/30/93 American Society of Clinical Pathologists Teleconference, "Microbiological and Clinical Aspects of Water-Borne Bacterial Infections; *Vibrio*, *Aeromonas*, and *Plesiomonas* species."
- 09/11/93 Texas Society of Hospital Pharmacists, Midyear Clinical Meeting, South Padre, Texas, "Microbiology Results Interpretation" and "Case Studies in Microbiology."
- 09/24/93 Progress in Clinical Pathology, Dallas, Texas, "Progress in the Laboratory Diagnosis of Acid Fast Bacilli: Molecular Techniques for the Routine Laboratory."
- 03/05/94 El Paso Area Society of Hospital Pharmacists, Annual Clinical Meeting, El Paso, Texas, "Microbiology Results Interpretation" and "Case Studies in Microbiology."
- 05/26/94 American Society for Microbiology, 94th Annual Meeting, Las Vegas, Nevada, "Debates in Clinical Microbiology" (PRO: "Rapid testing for tuberculosis transmission in health care facilities, is a rational use of laboratory resources.").
- 09/22/94 Progress in Clinical Pathology, Dallas, Texas, "Update in TB by PCR."
09/23/94 Progress in Clinical Pathology, Dallas, Texas, "Predictable Bacteria Becoming Unpredictable: Emerging Antibiotic Resistance in the 90's."
- 04/13/95 Texas Association for Clinical Laboratory Science, 1995 Convention, Arlington, Texas, "Challenge of the 90's: Drug Resistant Bacteria."
- 04/25/95 Roche MTB Principal Investigator Roundtable Meeting, Scottsdale, Arizona, "General Impressions and Clinical Utility of the Amplicor *Mycobacterium tuberculosis* Test."

- 05/23/95 American Society for Microbiology, 95th Annual Meeting, Washington, D.C., "Debates in Clinical Microbiology" (PRO: "Rapid testing and reporting of bacterial identification and susceptibility testing are clinically essential.")
- 09/29/95 Progress in Clinical Pathology, Dallas, Texas, "Rapid Assays for Bacterial Identification and Susceptibility Testing: Impact on Patient Care, Weighing the Cost and Benefits."
- 09/05/96 Southwestern Association of Clinical Microbiology, 15th Annual Meeting, Dallas, Texas, "Human Granulocytic Ehrlichiosis".
- 10/18/96 Progress in Clinical Pathology, Dallas, Texas, "Case Histories Relevant to Antibiotic Susceptibility Patterns".
- 10/26/96 American Association of University Women, Expanding Your Horizons in Science and Mathematics, Dallas, Texas, "From Mars to Twenty-Thousand Leagues Under the Sea - Microbes are Everywhere".
- 10/10/97 Progress in Clinical Pathology, Dallas, Texas, "Case Histories in Microbiology".
- 10/18/97 LAP/CAP Inspector Training Seminar Advanced Agenda, Dallas, Texas, "How to Inspect the Microbiology Laboratory".
- 01/17/98 LAP/CAP Inspector Training Seminar Advanced Agenda, Corpus Christi, Texas, "How to Inspect the Microbiology Laboratory".
- 02/21/98 American Association of University Women, Expanding Your Horizons in Science and Mathematics, Dallas, Texas, "Beware of Microbes in Your Hamburger - They are Everywhere!"
- 08/11/98 Southwestern Association of Clinical Microbiology, 17th Annual Meeting, Austin, Texas, "CAP Inspections - How to Do One, How to Pass One".
- 11/06/98 BioStar, Inc., Boulder, Colorado, "The Challenge: Early Diagnosis of Methicillin-Resistant *Staphylococcus aureus* Infections".
- 03/05/99 Progress in Clinical Pathology, Dallas, Texas, "Microbiology Case Studies".
- 04/15/99 LAP/CAP Advanced Inspector Training Seminar, Dallas, Texas, "How to Inspect the Microbiology Laboratory".
- 06/28/99 Northeast Association for Clinical Microbiology and Infectious Diseases, North Falmouth, Massachusetts, "Practical Problems in Clinical Microbiology".
- 06/28/99 Northeast Association for Clinical Microbiology and Infectious Diseases, North Falmouth, Massachusetts, "Influenza: The Yearly Plague".
- 11/03/99 Teleconference Network of Texas, "Interpretation of Gram Stains: Common and Uncommon".

- 11/12/99 Texas Branch American Society for Microbiology, Fall Meeting 1999, Ft. Worth, Texas, "Molecular Methodology for Investigation of Nasal Carriage of *Mycobacterium leprae*".
- 03/04/00 Progress in Clinical Pathology, Dallas, Texas, "Molecular Tests in the Diagnosis of Central Nervous System Infections".
- 09/15/00 Hansen's Disease Ambulatory Care Program Conference, Baton Rouge, Louisiana, "Investigation of Nasal Carriage of *M. leprae* in Leprosy Patients and Household Contacts in a Nonendemic Area, Using Molecular Methodology".
- 02/07/01 Teleconference Network of Texas, "How to Survive a CAP Inspection of your Microbiology Laboratory."
- 02/22/01 Progress in Clinical Pathology, Dallas, Texas, "Update in Rapid Diagnostic Testing in Clinical Microbiology."
- 11/02/01 Southwestern Association of Clinical Microbiology Workshop, Dallas, Texas, "A Biblical Disease in Modern Times."
- 03/06/02 Teleconference Network of Texas, "Newer Approaches to the Diagnosis of Tuberculosis."
- 04/05/03 Progress in Clinical Pathology, Dallas, Texas, "What's New in Antimicrobial Susceptibility Testing."
- 01/22/04 Progress in Clinical Pathology, Dallas, Texas, "Microorganisms in Blood Smears."
- 07/18/05 Progress in Clinical Pathology, Keystone, Colorado, "Detection of Emerging Antibiotic Resistance in Microorganisms."
- 07/18/05 Progress in Clinical Pathology, Keystone, Colorado, "Microbiology-Case Oriented Review of Interesting Organisms."
- 07/19/05 Progress in Clinical Pathology, Keystone, Colorado, "Promise and Pitfalls of Molecular Infectious Disease Testing."
- 09/06/06 Teleconference Network of Texas, "Beyond Streptococci & Staphylococci: Organisms in Gram-Stained Smears."
- 11/07/07 Teleconference Network of Texas, "Case Studies in Clinical Microbiology."
- 06/10/08 MicroScan Update, Arlington, Texas, "Tales from the Life of a Parkland Microbiologist".
- 06/03/10 TB Intensive, Heartland National Tuberculosis Center, Tyler, Texas, "Laboratory Tests to Aid in the Diagnosis of Mycobacterium Tuberculosis Infection."
- 02/02/11 Teleconference Network of Texas, "Interesting Cases in Bacteriology"