

CURRICULUM VITAE

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Birthdate: October 6, 1951

Birthplace: Portland, Oregon

Education

1969-71 No Degree, University of California, Davis
1971-73 B.S. (Cum Laude), University of Washington (Microbiology and Immunology)
1975-77 M.S. University of Washington (Microbiology and Immunology)
1977-78 Ph.D. University of Washington (Microbiology and Immunology)

Thesis: Plasmids and conjugation in *Neisseria gonorrhoeae*.

Postdoctoral Training

1978-80 **Postdoctoral Fellow**, Division of Infectious Disease, Children's Orthopedic Hospital and Department of Pediatrics, University of Washington

Professional Positions

2008-Present **Member**, Institute of Translational Health Sciences
2007-Present **Professor**, Multidisciplinary Predoctoral Clinical Research Training Program at Center for Health Sciences Interprofessional Education
2007-Present **Adjunct Professor**, Global Health
2007-Present **Adjunct Professor**, Pediatric Dentistry
2006-Present **Professor**, Environmental & Occupational Health Sciences
2005 **Adjunct Faculty**, Heritage College
2003-2004 **Consultant**, ActivBiotics Lexington MA
2001-Present **Official MLS Nomenclature Center** (macrolide-lincosamide-streptogramin resistance)
2001-Present **Faculty of 1000**, Biology Reports, top 10% of all evaluations
2001-Present **Member**, Northwest/Alaska Center to Reduce Oral Health Disparities Center, Executive Committee, University of Washington, Seattle
2001-2003 **Consultant**, Transgenomic, Omaha, NB
1999-2000 **Consultant**, Roche Vitamin Inc, Nutley, NJ
1999-Present **Research Affiliate**, Washington Regional Primate Research Center
1998-1999 **Consultant**, Periodontix, Watertown, MA.
1997 **Consultant**, PerioProducts, Jerusalem, Israel
1994-Present **Professor**, Molecular and Cellular Biology Program, University of Washington, Seattle
1994-Present **Professor**, Medical Scientist Training [MD/PhD] Program
1994-2008 **Professor**, Department of Pathobiology, School of Public Health and Community Medicine, University of Washington, Seattle, WA
1994-1999 **Consultant**, Atrix Laboratories Inc, Fort. Collins, CO.
1992-1993 **Consultant**, Quinton Instrument Co. Seattle, WA.
1992-1994 **Consultant**, American Cyanamid Co. Pearl River, N.Y.

Professional Positions continued

- 1991-Present **Affiliate Member**, UW Center for AIDS and STD
1991-Present **Fellow**, Infectious Disease Society of America
1990-1994 **Associate Professor**, Molecular and Cellular Biology Program, University of WA
1989-Present **Fellow**, American Academy of Microbiology
1988-1994 **Associate Professor**, Department of Pathobiology
1987-1990 **Consultant**, Chiron Corporation, Emeryville CA
1986-Present **Member**, Graduate School, University of Washington
1985-1986 **Affiliate**, Center for Research in Oral Biology, School of Dentistry, University of Washington, Seattle WA
1985-1988 **Assistant Professor**, Department of Pathobiology
1984-1985 **Research Assistant Professor**, Department of Pathobiology
1984 **Consultant**, Battelle Laboratories, Cellular and Molecular Biotechnology Section, Columbus Laboratories, Columbus, OH
1983 **Visiting Scientist**, Oregon Health Sciences University, Portland OR
1983-Present **Affiliate**, The Child Development and Mental Retardation Center, University of Washington, Seattle, WA
1981 **Visiting Scientist**, University of Leicester, Leicester, England
1981-1984 **Research Assistant Professor**, Department of Pediatrics, University of Washington and Division of Infectious Disease, Children's Orthopedic Hospital, Seattle, WA
1980-1981 **Research Associate**, Division of Infectious Disease, Children's Orthopedic Hospital, Seattle, WA
1979 **Research Associate**, Brookhaven National Laboratory with Dr. Jane Setlow
1974 **Medical Technologist**, Ventura Hospital, Ventura, CA
1973-1974 **Medical Technologist Trainee**, Cottage Hospital, Santa Barbara, CA

Awards

- 1981-84 National Institutes of Health New Investigator Award
1981 Wellcome Trust Award for International Travel (Wellcome Research Travel Grant)
1987 Charles C. Shepard Science Award Nomination (for scientific publication recognized as an important contribution to science)
1997 Ms Chung (Graduate student) won ASM travel grant for abstract " Host range of the *ermF* rRNA methylase gene in human and animal bacteria." ICAAC Meeting 1997.
1998 Ms. Luna (Graduate student) won Pasteur Merieux Connaught Award in Communicable Disease and Epidemiology for abstract "The identification of a multi-drug resistant *Streptococcus pneumoniae* clone in Washington." 8th International Congress on Infectious Diseases
1998 Ms. Luna (Graduate student) won ASM travel grant for abstract "Host range of *mefE*?" ASM Meeting 1998
2005 Mr. Soge (Graduate Student) won ASM travel grant for abstract "Cefotaximase (CTX-M) enzymes from clinical Nigerian *Klebsiella pneumoniae* isolates." ASM Meeting 2005
2007 Ms. Tivoli (MS student) won ASM Travel Grant for abstract "*Clostridium perfringens*: A Reservoir of Antibiotic Resistance Genes in the Environment?" presented at the ASM Meeting 2007

Memberships

Alliance for Prudent Use of Antibiotics, American Association for the Advancement of Science [AAAS] American Society for Microbiology, Association for Women in Science, Sigma Xi, Anaerobe Society of the Americas, Inc. [ASA], Fellow in the American Academy of Microbiology, International Association for Dental Research, Fellow in the Infectious Disease Society of America

Research Interests

Environmental vancomycin resistant enterococci [VRE] and methicillin resistant *Staphylococcus aureus* [MRSA], Bacterial Pathogenesis, Plasmids, Bacterial Genetics, Bacteria Antibiotic Resistance Genes and Gene Exchange, Emerging and Reemerging Diseases, Dental Caries, Periodontal Disease, Molecular Epidemiology, Bacterial Mercury Resistance

Editor

2005-present Journal of Antimicrobial Chemotherapy, [JAC] British Microbiology Society
First North American Editor
2006-present FEMS Microbiology Letters, Federation of European Microbiological Society

Editorial Board

1984-1986 Journal of Bacteriology, ASM
1994-1999 Journal of Periodontology, IADR
2001-2008 Journal of Antimicrobial Chemotherapy, [JAC] British Microbiology Society
2003-2011 Antimicrobial Agents and Chemotherapy, ASM

Journal Reviewer: 1985-present

Antimicrob. Agents Chemother, Antonie van Leeuwenhoek, PNAS, Biochemistry, Canadian J. Microb., Clin. Infect. Dis., Expert Opinion on Therapeutic Patents, Eur. J. Clin. Microb., FEMS Micro Ecol., Gene, Infect. Dis., Infect. Immun., J. Antimicrob. Chemotherapy, J. App. Microbiol., J. Bacteriol., J. Clin. Microbiol., J. Dental Research, J Gen. Microbiol., J. Infect. Dis., J. Med Microbiol., Laboratory Animal Science, Lett Appl. Microbiol., Mayo Clinic Proceedings, Microbes & Infection (Institute Pasterur), Microbiology, Plasmid, Research in Microbiol., Sex. Trans. Dis.

Book Proposal Reviewer: 1999 Cambridge University Press

Professional Activity

1986-1987 **Special Grant Reviewer**, NIH Mycology and Bacteriology
Study Section #2, (Feb.)
1988-1990 **Reviewer**, NSF Grant Prokaryotic Genetics Program
1989,1995-98 **Grant Reviewer**, B.C. Health Care Research Foundation
1991,1998-99 **Grant Reviewer**, Medical Research Council of Canada
1992-1995 **Ad Hoc Member**, Scientific Panel on Net Pen Issues; Topic 3, Antibiotic
Resistance/Human Health Impact
1993 **Special Grant Reviewer**, NIH Oral Biology & Medicine Study Section #2 (Feb., June)
1993-1997 **Charter Member Grant Reviewer**, NIH Oral Biology & Medicine Study Section #2
1993 **Reviewer**, NIH Peer Review Appeal
1993 **Reviewer**, NIH Small Business Innovation Research Program (June)
1993,1997 **Reviewer**, British Society for Antimicrobial Chemotherapy
1993 **Reviewer**, The Wellcome Trust Grant
1993,1997-99 **Reviewer**, University of Washington Royalty Research Fund
1994 **Chairperson**, Oral Session 72nd General Session of International Association for Dental
Research, Genetic Systems of Oral Bacteria, Seattle, WA March 9-13, 1994
1994 **Reviewer**, NIH Small Business Innovation Research Program (July)
1994 **Reviewer**, NIH Ad Hoc Committee Bacteriology & Mycology 1
1995 **Chairperson**, Symposium 29th General Session of American Association for Dental
Research, Impact of Bacterial Antibiotic Resistance on Dental Practice San Antonio,
TX. March 8-12, 1995
1995-1996 **Director**, "Impact of Bacterial Antibiotic Resistance on Oral Health: What is the
Relevance?" Conference Sept 5-7, 1996 sponsored by NIH
1995 **Member**, Recruitment Committee for Washington State Health Laboratory Molecular
Microbiology Position
1996 **Member**, Canadian Bacterial Diseases Network Appeal Committee

Professional Activity (continued)

- 1996-1997 **Special Editor**, Supplement of "International Journal of Antimicrobial Agents" published
1997-98 **Reviewer**, Alberta Heritage Foundation for Medical Research
1998 **Founding Member**, Antibiotic Resistance in Non-clinical Bacteria Board
1998-99 **Co-chair**, Colloquium for Academy of Microbiology "Global Issues of Antibiotic Resistance: Ecology, Surveillance, and Use."
1999 **PhD Thesis External Examiner**, Samantha Ginn; The University of Sydney, Postgraduate
1998 **Chair**, NIH Special Emphasis Panel (June)
1999 **Chair**, Colloquium for Academy of Microbiology "Global Issues of Antibiotic Resistance: Ecology, Surveillance, and Use." July 16-18, 1999 San Juan, Puerto Rico
1999 **Moderator**, "Antibiotic Resistance: Ecology, Surveillance, and Use." July 18, 1999 University of Puerto Rico, San Juan, Puerto Rico
2000 **Co-Chair**, Microbiology/Immunology and Infection Control Epidemiology, Oral Session, IADR April 8, 2000, Washington DC
2000 **Reviewer**, NIH Center for Scientific Review Special Emphasis Panel ZRG1 AARR-1 06
2000 **Reviewer**, FDA Research Studies on Microbiological Hazards Associated with the Food Animal Production Environment
2000 **Founding Member**, Tacoma-Pierce County Health Department Antimicrobial Resistance
2000-2002 **Program Chair** of the Agriculture/Veterinary Committee, Tacoma Health Department
2001 **PhD Thesis External Reviewer**, Franco Pagotto; The University of Ottawa, Ottawa Canada
2001 **Reviewer**, Cooperative Grants Program, U.S. Civilian Research & Development Foundation
2001 **Key Faculty Member**, Fall Faculty Fellows Program
2001 **Reviewer**, NSF Microbial Genetics Program
2001 **PhD Thesis External Reviewer**, Carolina Marquez, Catedra de Microbiologia, Facultad de Quimica, Montevideo, Uruguay
2001-2002 **Moderator**, ROAR International e-mail list-serve on antibiotic resistant bacteria
2002-2004 **Alternative Councilor**, Division A of the American Society of Microbiology
2002-2008 **Council Member**, The Anaerobe Society of the Americas
2002 **Reviewer**, The Wellcome Trust, UK
2002 **Reviewer**, DSc Application, University of Leeds UK
2002 **Reviewer**, Michael Smith Foundation for Health Research, British Columbia, Canada
2002-2003 **Reviewer**, NIH, NIDCR SBRI Program Review
2002-2003 **Reviewer**, NSF Microbial Genetics
2002 **Co-Chair**, Surveillance and Early Detection of Resistance, Forty-second Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego CA, Sept 28, 2002
2002 **Reviewer**, NIH, NIAID Innovative Approaches for Combating Antimicrobial Resistance ZA11-AR-M-M1
2002 **PhD Thesis External Examiner**, Jeanette Teo Woon Pei, National University of Singapore, Singapore
2002-07 **Member**, Steering Committee ROAR II Project
2002-08 **Member**, Disparities Center Administrative Advisory Executive Committee
2002-03 **Member**, ASM Committee for Identifying Emergent High Profile Topics in Microbiology
2003-2006 **Councilor**, Division A of the American Society of Microbiology
2003 **Reviewer**, USDA, Animal Health & Well-Being Program
2003 **Reviewer**, The Wellcome Trust, UK
2003 **Chair**, NIH, NIDCR SBRI Special Emphasis Panel (Dec)
2004 **Chairperson**, Session #34; Cariogenic bacteria, biofilm/plaque, Immunology. General Session of International Association for Dental Research, Honolulu, HI. March 10-13, 2004

Professional Activity (continued)

- 2004 **Organizing Committee**, The 7th Biennial Congress of the Anaerobe Society of the Americas
- 2004 **Reviewer**, American Institute of Biological Sciences
- 2004 **Reviewer**, USDA/CSREES/National Research Initiative Competitive Grants Program Soils & Soil Biology Program
- 2004 **Charter Member Reviewer**, NIH Drug Discovery & Mechanisms of Antimicrobial Resistance Study Section
- 2004 **Co-Chair**, Session XII; Looking back and looking forward in anaerobic bacteriology, 2004 Anaerobe. The 7th Biennial Congress of the Anaerobe Society of the Americas, Annapolis, MD, July 19-21, 2004
- 2004 **Judge**, Student posters 2004 Anaerobe Meeting. The 7th Biennial Congress of the Anaerobe Society of the Americas, Annapolis, MD, July 19-21, 2004
- 2004-Present **Member**, Advisory Committee K22 award to Sun Oh Chung
- 2005 **Reviewer**, ROAR pilot projects for NIH grant
- 2005 **Reviewer**, Wellcome Trust Sanger Institute Review of Program Projects, UK
- 2005 **Reviewer**, ROAR Grant Review Committee
- 2005 **Reviewer**, British Society for Antibiotics and Chemotherapy Grant Review
- 2005 **Reviewer**, Chief Scientist Office, Scottish Executive Health Dept. Biomedical & Therapeutic Research Committee
- 2005 **Reviewer**, Civilian Research & Development Foundation Cooperative Grants Program
- 2006 **Organizing Committee**, The 8th Biennial Congress of the Anaerobe Society of the Americas
- 2006 **Judge**, Student posters 2006 Anaerobe Meeting. The 8th Biennial Congress of the Anaerobe Society of the Americas, Boise ID, July 25-28, 2006
- 2006 **Co-Chair**, Session IX; Mechanisms of antimicrobial resistance among anaerobes. Anaerobe 2006, The 8th Biennial Congress of the Anaerobe Society of the Americas, Boise ID, July 25-28, 2006.
- 2008 **Chair**, Session XI;I The Other Clostridia. Anaerobe 2008, The 9th Biennial Congress of the Anaerobe Society of the Americas, Long Beach CA June24-27, 2008.
- 2008 **Judge**, Student posters 2008 Anaerobe Meeting. The 9th Biennial Congress of the Anaerobe Society of the Americas, Long Beach CA June24-27, 2008.

PUBLICATIONS

1. Elwell, L.P., **M. Roberts**, L.C., Mayer and S. Falkow. Plasmid-mediated beta-lactamase production in *Neisseria gonorrhoeae*. *Antimicrob. Agents Chemother.* 11:528-533, 1977.
2. Falkow, S., L.P. Elwell, **M. Roberts**, F. Heffron and R. Gill. The transposition of ampicillin resistance: Nature of ampicillin in *Haemophilus influenzae* and *Neisseria gonorrhoeae*. p. 115-129. *IN R-factors: Their properties and possible control symposium*. Baden near Vienna, April 27-29, 1977. *Topics in Infectious Disease*, Vol. 2 J. Drews and G. Hogenauer (eds). Springer-Verlag, Austria, 1977.
3. **Roberts, M.** and S. Falkow. Conjugal transfer of R plasmids in *Neisseria gonorrhoeae*. *Nature (London)* 266:630-631, 1977.
4. **Roberts, M.**, L.P. Elwell and S. Falkow. Molecular characterization of two beta-lactamase-specifying plasmids isolated from *Neisseria gonorrhoeae*. *J. Bacteriol.* 131:557-563, 1977.
5. Elwell, L.P., **M. Roberts** and S. Falkow. Common beta-lactamase-specifying R plasmids isolated from the genera *Haemophilus* and *Neisseria*. p. 255-256. *IN Microbiology 1978*. D. Schlessinger (ed). American Society for Microbiology, Washington D.C., 1978.
6. **Roberts, M.** and S. Falkow. Plasmid mediated chromosomal gene transfer in *Neisseria gonorrhoeae*. *J. Bacteriol.* 134:66-70, 1978.
7. **Roberts, M.**, L.P. Elwell and S. Falkow. Introduction to the mechanisms of genetic exchange in the gonococcus: Plasmid and conjugation in *Neisseria gonorrhoeae*. p. 38-43. *IN Immunobiology of Neisseria gonorrhoeae*, G.F. Brooks, E.C. Gotschlick, K.K. Holmes, W.D. Sawyer, F.E. Young (eds). American Society for Microbiology, Washington D.C., 1978.
8. Tompkins, L.S., **M. Roberts**, J.H. Crosa and S. Falkow. Epidemiology of plasmid-mediated ampicillin resistance in pathogenic microorganisms. p. 177-184. *IN Genetics of Industrial Microorganisms*. O.K. Sebek and A.I. Laskin (eds). American Society for Microbiology, Washington, D.C., 1978.
9. Piot, P., **M. Roberts** and G. Ninare. Beta-lactamase production in commensal *Neisseriaceae*. *Lancet* i:619, 1979.
10. **Roberts, M.** and S. Falkow. *In vivo* conjugal transfer of R plasmids in *Neisseria gonorrhoeae*. *Infect. Immun.* 24:982-984, 1979.
11. **Roberts, M.**, P. Piot and S. Falkow. The ecology of gonococcal plasmids. *J. Gen. Microbiology* 114:491-494, 1979.
12. **Roberts, M.C.**, C.D. Swenson, L.M. Owens and A.L. Smith. Characterization of chloramphenicol resistant *Haemophilus influenzae*. *Antimicrob. Agents Chemother.* 18:610-615, 1980.
13. **Roberts, M.C.** and A.L. Smith. Molecular characterization of "plasmid-free" antibiotic resistant *Haemophilus influenzae*. *J. Bacteriol.* 144:476-479, 1980.
14. **Roberts, M.**, T.L. Stull and A.L. Smith. Comparative virulence in *Haemophilus influenzae* with a type b or type d capsule. *Infect. Immun.* 32:518-524, 1981.
15. Azemun, P., T. Stull, **M. Roberts** and A.L. Smith. Rapid detection of chloramphenicol resistance in *Haemophilus influenzae*. *Antimicrob. Agents Chemother.* 20:168-170, 1981.
16. Johnson, M.A., W.L. Drew and **M. Roberts**. *Branhamella (Neisseria) catarrhalis*: a lower respiratory tract pathogen? *J. Clin. Microbiol.* 13:1066-1069, 1981.

17. Scheifele, D.W., S.J. Fussel and **M.C. Roberts**. Characterization of ampicillin-resistant *Haemophilus parainfluenzae*. *Antimicrob. Agents Chemother.* 21:734-739, 1982.
18. Wong, K., **M.C. Roberts** and A.L. Smith. The activity of Sch29482 against type b *Haemophilus influenzae* lacking or possessing beta-lactamase activity. *J. Antimicrob. Chemother.* 9 suppl. C, 163-170, 1982.
19. Smith, A.L., R.S. Daum, D. Scheifele, V. Syriopolou, D.R. Averril, **M.C. Roberts** and T.L. Stull. Pathogenesis of *Haemophilus influenzae* meningitis. p. 89-109. *IN Haemophilus influenzae: epidemiology, Immunology and Prevention of Disease.* S.H. Sell and P.F. Wright (eds). Elsevier Science Publishing Co., Inc. 1982.
20. **Roberts, M.**, A. Corney and W.V. Shaw. Molecular characterization of chloramphenicol acetyltransferases isolated from *Haemophilus influenzae*. *J. Bacteriol.* 151:737-741, 1982.
21. Mendelmann, P.M., **M.C. Roberts** and A.L. Smith. Mutation frequency of *Haemophilus influenzae* to rifampin-resistance. *Antimicrob. Agents Chemother.* 22:531-533, 1982.
22. Wong, K., **M.C. Roberts**, L. Owens, M. Fife and A.L. Smith. Selective media for the quantitation of bacteria in cystic fibrosis sputum. *J. Med. Microbiol.* 17:113-120, 1984.
23. Spiegel, C.A. and **M. Roberts**. *Mobiluncus* gen. nov., *Mobiluncus curtisii* subspecies *curtisii* sp. nov., *Mobiluncus curtisii* subspecies *holmesii* subsp. nov., and *Mobiluncus mulieris* sp. nov., curved rods from the human vagina. *Internat. J. Syst. Bacteriol.* 34:177-184, 1984.
24. Stull, T.L., R.F. Jacobs, J.E. Haas, **M.C. Roberts**, C.B. Wilson and A.L. Smith. Strain and growth phase dependence of human serum activity against *Haemophilus influenzae* type b. *J. Gen. Microbiol.* 130:665-672, 1984.
25. Marshall, B., **M. Roberts**, A. Smith and S.B. Levy. Homogeneity of tetracycline-resistance determinants in *Haemophilus* species. *J. Infect. Dis.* 149:1028-1029, 1984.
26. **Roberts, M.**, R.F. Jacobs, J.E. Haas and A.L. Smith. Adherence of *Haemophilus influenzae* to monkey respiratory tissue in organ culture. *J. Gen. Microbiol.* 130:1437-1447, 1984.
27. **Roberts, M.C.**, S.L. Hillier, F.O. Schoenknecht, and K.K. Holmes. Nitrocellulose filter blots for species identification of *Mobiluncus curtisii* and *Mobiluncus mulieris*. *J. Clin. Microbiol.* 20:826-827, 1984.
28. Smith, A.L., **M.C. Roberts**, T. Stull, P. Mendelman, and J.E. Haas. Mechanisms of *Haemophilus influenzae* type b meningitis. p. 11-21. *IN Bacterial Meningitis.* M.A. Sande, A.L. Smith and R.K. Root (eds). Churchill Livingstone. New York. 1985.
29. **Roberts, M.C.**, E.J. Baron, S.M. Finegold and G.E. Kenny. Antigenic distinctiveness of *Mobiluncus curtisii* and *Mobiluncus mulieris*. *J. Clin. Micro.* 21:891-893, 1985.
30. **Roberts, M.C.**, S.L. Hillier, F.O. Schoenknecht and K.K. Holmes. Comparison of gram stain, DNA probe, and culture for the identification of *Mobiluncus* spp. in female genital specimens. *J. Infect. Dis.* 152:74-77, 1985.
31. **Roberts, M.C.**, L. Koutsky, D. LeBlanc, K.K. Holmes and G.E. Kenny. Tetracycline resistant *Mycoplasma hominis* strains containing streptococcal *tetM* sequences. *Antimicrob. Agents Chemother.* 28:141-143, 1985.
32. **Roberts, M.C.**, L.A. Actis and J.H. Crosa. Molecular characterization of chloramphenicol resistant *Haemophilus parainfluenzae* and *Haemophilus ducreyi*. *Antimicrob. Agents Chemother.* 28:176-180, 1985.

33. **Roberts, M.C.** Antibiotic resistance among mycoplasmas and other urogenital bacteria. *APUA Newsletter*. 3:1-2, 1985.
34. Woloj, M., M.E. Tolmasky, **M.C. Roberts** and J.H. Crosa. Plasmid-encoded amikacin resistance to multiresistant strains of *Klebsiella pneumoniae*. *Antimicrob. Agents Chemother.* 29:315-319, 1986.
35. **Roberts, M.C.** and G.E. Kenny. Dissemination of the *tetM* tetracycline resistance determinant to *Ureaplasma urealyticum*. *Antimicrob. Agents Chemother.* 29:350-352, 1986.
36. **Roberts, M.C.**, C.L. Mintz and S. Morse. Characterization of *Haemophilus parainfluenzae* strains with low- M_r or ladder-like lipopolysaccharides. *J. Gen. Microbiol.* 132:611-616, 1986.
37. **Roberts, M.**, T.A. Bell, K.I. Sandstrom, A.L. Smith and K.K. Holmes. Characterization of *Haemophilus* spp. isolated from infant conjunctivitis. *J. Med. Microbiol.* 21:219-224, 1986.
38. Tolmasky, M.E, **M. Roberts**, M. Woloj and J.H. Crosa. Molecular cloning of amikacin resistance determinants from a *Klebsiella pneumoniae* plasmid. *Antimicrob. Agents Chemother.* 30:315-320, 1986.
39. Morse, S.A., S.R. Johnson, J.W. Biddle and **M.C. Roberts**. High-level tetracycline resistance in *Neisseria gonorrhoeae* is result of acquisition of streptococcal *tetM* determinant. *Antimicrob. Agents Chemother.* 30:664-670, 1986.
40. **Roberts, M.C.**, S.L. Hillier, J. Hale, K.K. Holmes, and G.E. Kenny. Tetracycline resistance and *tetM* in pathogenic urogenital bacteria. *Antimicrob. Agents Chemother.* 30:810-812, 1986.
41. **Roberts, M.C.** and G.E. Kenny. Tetracycline resistant *Ureaplasma urealyticum*. *Pediatr. Infect. Dis.* 5:S338-S340, 1986.
42. Kenny G.E., F.D. Cartwright and **M. Roberts**. Agar dilution method for determination of antibiotic susceptibility of *Ureaplasma urealyticum*. *Pediatr. Infect. Dis.* 5:S332-S334, 1986.
43. **Roberts, M.C.**, B. Moncla and G.E. Kenny. Chromosomal DNA probes for the identification of *Bacteroides* species. *J. Gen. Microbiol.* 133:1423-1430, 1987.
44. **Roberts, M.C.**, C. McMillian and M.B. Coyle. Whole-chromosomal DNA probes for the rapid identification of *Mycobacterium tuberculosis* and *Mycobacterium avium* complex. *J. Clin. Microbiol.* 25:1239-1243, 1987.
45. **Roberts, M.C.**, and G.E. Kenny. Conjugal transfer of transposon Tn916 from *Streptococcus faecalis* to *Mycoplasma hominis*. *J. Bacteriol.* 169:3836-3839, 1987.
46. **Roberts, M.C.**, M. Hooton, W. Stamm, K.K. Holmes, and G.E. Kenny. DNA probes for detection of *Mycoplasma hominis* in genital specimens. *Israel J. Med. Sci.* 23:618-620, 1987.
47. **Roberts, M.**, and H. Brunner. Interest Session: Chemotherapy in mycoplasma infections. *Israel J. Med. Sci.* 23:781-782, 1987.
48. Brown, J.T., and **M.C. Roberts**. Cloning and characterization of *tetM* from an *Ureaplasma urealyticum* strain. *Antimicrob. Agents Chemother.* 31:1852-1854, 1987.
49. **Roberts, M.C.**, B. van Klingeren, J.H.T. Wagenvoort, and J.S. Knapp. *tetM*, β -lactamase-containing *Neisseria gonorrhoeae* (tetracycline resistant and penicillinase producing) in the Netherlands. *Antimicrob. Agents Chemother.* 32:158, 1988.

50. Hooton, T.M. , **M.C. Roberts**, P.L. Roberts, K.K. Holmes, W.E. Stamm, and G.E. Kenny. Prevalence of *Mycoplasma genitalium* in men with urethritis as determined by DNA probe. *Lancet* i:266-268, 1988.
51. Sanchez-Pescador, R., J.T. Brown, **M. Roberts**, and M.S. Urdea. The nucleotide sequence of the tetracycline resistance determinant tetM from *Ureaplasma urealyticum*. *Nucl. Acid Res.* 16:1216-1217, 1988.
52. Sanchez-Pescador, R., J.T. Brown, **M. Roberts**, and M.S. Urdea. Homology of the TetM with translational elongation factors: implications for potential modes of tetM conferred tetracycline resistance. *Nucl. Acid Res.* 16:1218, 1988.
53. **Roberts, M.C.**, and J.S. Knapp. Host range of the conjugative 25.2 Mdal tetracycline resistance plasmid from *Neisseria gonorrhoeae*. *Antimicrob. Agents Chemother.* 32:488-491, 1988.
54. **Roberts, M.C.** Tetracycline resistance in genital tract bacteria. *Infections in Medicine.* 5:199-203, 1988.
55. Knapp, J.S., S.R. Johnson, J.M. Zenilman, **M.C. Roberts**, and S.A. Morse. High-level tetracycline resistance resulting from TetM in strains of *Neisseria* species, *Kingella denitrificans*, and *Eikenella corrodens*. *Antimicrob. Agents Chemother.* 32:765-767, 1988.
56. Knapp, J.S., J.M. Zenilman, **M.C. Roberts**, J.R. Johnson, M.E. Shepherd, J.W. Biddle, and S.A. Morse. High-level resistance associated with tetM in *Neisseria meningitidis* and other *Neisseriaceae*. p. 137-141. *IN Gonococci and meningococci.* J. T. Poolman (ed). Kluwer Academic Publishers. Dordrecht, The Netherlands, 1988.
57. Morse, S.A., S.R. Johnson, J.W. Biddle and **M.C. Roberts**. Acquisition of the streptococcal tetM determinant by *Neisseria gonorrhoeae*. p. 153-158. *IN Gonococci and meningococci.* J. T. Poolman (ed), Kluwer Academic Publishers. Dordrecht, The Netherlands, 1988.
58. **Roberts, M.C.** Tetracycline resistance in genital tract bacteria. *Physician Assistants in Primary and Hospital Care* 5:200-203, 1988.
59. **Roberts, M.C.**, and B.J. Moncla. Tetracycline resistance and TetM in oral anaerobic bacteria and *Neisseria perflava-N. sicca*. *Antimicrob. Agents Chemother.* 32:1271-1273, 1988.
60. **Roberts M.C.**, and J.S. Knapp. Transfer of β -lactamase plasmids from *Neisseria gonorrhoeae* to *Neisseria meningitidis* and commensal *Neisseria* species by the 25.2-Megadalton conjugative plasmid. *Antimicrob. Agents Chemother.* 32:1430-1432, 1988.
61. Moncla, B.J., L. Strockbine, P. Braham, J. Karlinsey and **M.C. Roberts**. The use of whole cell DNA probes for the identification of *Bacteroides intermedius* in a dot blot assay. *J. Dent. Res.* 67:1267-1270, 1988.
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