

Curriculum Vitae
Pamela J. Baker
January 9, 2007

Professional Address:
Biology Department
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CURRENT EMPLOYMENT: Helen A. Papaioanou Professor of Biological Sciences;
Bates College, Lewiston, Maine 04240

DEGREES RECEIVED:

State University of New York at Buffalo, 1989. Ph.D., Oral Biology (Immunology).
State University of New York at Buffalo, 1978. M.A., Microbiology.
Bates College, Lewiston, Maine, 1970. B.S., cum laude, Biology.
University of Wales, Swansea, S. Wales, U.K., 1969. B.Sc., magna cum laude, Zoology.

Underlined denotes Student co-author

Professor of Dental Hygiene from University of New England who spent her sabbatical in my lab.

PEER-REVIEWED SCIENTIFIC RESEARCH ARTICLES:

1. Evans, R.T., P.J. Baker, R.A. Coburn and R.J. Genco. 1977. Comparison of antiplaque agents using an in vitro assay reflecting oral conditions. *J. Dent. Res.* 56: 559-567.
2. Evans, R.T., P.J. Baker, R.A. Coburn, S.L. Fischman and R.J. Genco. 1977. In vitro antiplaque effects of antiseptic phenols. *J. Periodontol.* 48: 156-162.
3. Baker, P.J., R.A. Coburn, R.J. Genco and R.T. Evans. 1978. The in vitro inhibition of microbial growth and plaque formation by surfactant drugs. *J. Perio. Res.* 13: 474-485.
4. Coburn, R.A., P.J. Baker, R.T. Evans, R.J. Genco and S.L. Fischman. 1978. In vitro antiplaque properties of a series of alkyl-bisbiguanides. *J. Med. Chem.* 21: 828-829.
5. Baker, P.J., R.A. Coburn, R.J. Genco and R.T. Evans. 1979. Alkyl-bisbiguanides as in vitro inhibitors of bacterial growth and dental plaque formation. *J. Perio. Res.* 14: 352-360.

6. Baker, P.J., J. Slots, R.J. Genco and R.T. Evans. 1983. Minimal inhibitory concentrations of various antimicrobial agents for human oral anaerobic bacteria. *Antimicrob. Agents Chemother.* 24: 420- 424.
7. Baker, P.J., R.T. Evans, R.A. Coburn and R.J. Genco. 1983. Tetracycline and its derivatives strongly bind to and are released from the tooth surface in active form. *J. Periodontol.* 54: 580-585.
8. Baker, P.J., R.T. Evans, J. Slots and R.J. Genco. 1985. Susceptibility of human oral anaerobic bacteria to antibiotics suitable for topical use. *J. Clin. Perio.* 12: 201-208.
9. Baker, P.J., R.T. Evans, J. Slots and R.J. Genco. 1985. Antibiotic susceptibility of anaerobic bacteria from the human oral cavity. *J. Dent. Res.* 64: 1233-1244.
10. Wikesjo, U.M.E., P.J. Baker, L.A. Christersson, R.J. Genco, R.M. Lyall, S. Hic, R.M. DiFlorio, V.P. Terranova. 1986. A biochemical approach to periodontal regeneration: tetracycline treatment conditions dentin surfaces. *J. Perio. Res.* 21: 322-329.
11. Terranova, V.P., L.C. Franzetti, S. Hic, R.M. DiFlorio, R.M. Lyall, U.M.E. Wikesjo, P.J. Baker, L.A. Christersson and R.J. Genco. 1986. A biochemical approach to periodontal regeneration: Tetracycline treatment of dentin promotes fibroblast adhesion and growth. *J. Perio. Res.* 21: 330-337.
12. Baker, P.J., R.A. Coburn, R.J. Genco and R.T. Evans. 1987. Structural determinants of activity of chlorhexidine and alkyl bisbiguanides against the human oral flora. *J. Dent. Res.* 66: 1099-1106.
13. Baker, P.J. and M.E. Wilson. 1988. Effect of clindamycin on neutrophil killing of Gram-negative periodontal bacteria. *Antimicrob. Ag. Chemother.* 32: 1521-1527.
14. Baker, P.J. and M.E. Wilson. 1989. Opsonic IgG antibody against *Actinobacillus actinomycetemcomitans* in localized juvenile periodontitis patients. *Oral Microbiol. Immunol.* 4: 98-105.
15. Baker, P.J., R. Butler and U.M.E. Wikesjo. 1991. Bacterial sampling by absorbant paper points. An in vitro study. *J. Periodontol.* 62: 142-146.
16. Stabholtz, A., J. Kettering, R. Aprecio, G. Zimmerman, P.J. Baker, and U.M.E. Wikesjo. 1993. Antimicrobial properties of human dentin impregnated with tetracycline HCl or chlorhexidine. *J. Clin. Periodontol.* 20: 557-562.
17. Stabholtz, A., J. Kettering, R. Aprecio, G. Zimmerman, P.J. Baker, and U.M.E. Wikesjo. 1993. Retention of antimicrobial activity by human root surfaces after in situ subgingival irrigation with tetracycline HCl or chlorhexidine. *J. Periodontol.* 64: 137-141.

18. Baker, P.J., R.T. Evans, and D.C. Roopenian. 1994. Oral infection with *Porphyromonas gingivalis* and induced alveolar bone loss in immunocompetent and severe combined immunodeficient mice. *Arch. Oral Biol.* 39: 1035-1040.
19. Baker, P.J., W.F. Busby, and M.E. Wilson. 1995. Subinhibitory concentrations of cefpodoxime alter membrane protein expression of *Actinobacillus actinomycetemcomitans* and enhance its susceptibility to killing by neutrophils. *Antimicrob. Ag. Chemother.* 39: 406-412.
20. Baker, P.J., S. Carter, M.Dixon, R.T. Evans, and D.C. Roopenian. 1999. Serum antibody response to oral infection precedes but does not prevent *Porphyromonas gingivalis* induced alveolar bone loss in mice. *Oral Microbiology and Immunology.* 14: 194-196.
21. Baker, P.J., M. Dixon, R.T. Evans, L. DuFour#, E. Johnson, and D.C. Roopenian. 1999. CD4+ T cells and the proinflammatory cytokines gamma interferon and interleukin-6 contribute to alveolar bone loss in mice. *Infection and Immunity* 67: 2804-2809.
22. Baker, P.J., M. Dixon, R.T. Evans, and D.C. Roopenian. 2000. Heterogeneity of *Porphyromonas gingivalis* strains in the induction of alveolar bone loss in mice. *Oral Microbiology and Immunology* 15: 27-32.
23. Baker, P.J., H.A. Rotch, L. Trombelli, and U.M.E. Wikesjo. 2000. An *in vitro* screening method to evaluate root conditioning protocols for periodontal regenerative procedures. *J. Periodontol.* 71: 1139-1143.
24. Baker, P.J., L. DuFour#, M. Dixon, and D.C. Roopenian. 2000. Adhesion molecule deficiencies increase *Porphyromonas gingivalis*-induced alveolar bone loss in mice. *Infection and Immunity.* 68: 3103-3108.
25. Baker, P.J., M. Dixon, and D.C. Roopenian. 2000. Genetic control of susceptibility to alveolar bone loss in mice. *Infection and Immunity* 68: 5864-5868.
26. Baker, P.J. 2000. The Role of Immune Responses in Bone Loss During Periodontal Disease. *Microbes and Infection* 2: 1181-1192. (invited review article)
27. Baker, P.J., J. Garneau, L. Howe, and D.C. Roopenian. 2001. T cell contributions to alveolar bone loss in response to oral infection with *Porphyromonas gingivalis*. *Acta. Odontol. Scandanavica* 59: 222-225.
28. Baker, P.J., Howe, L., Garneau, J. and Roopenian, D.C. 2002. T cell receptor knockout mice have diminished alveolar bone loss after oral infection with *Porphyromonas gingivalis*. *Federation of European Microbiology Societies (FEMS) Immunology and Medical Microbiology* 34: 45-50.
29. Baker, P.J. and D.C. Roopenian. 2002. Genetic susceptibility to chronic periodontal disease. *Microbes and Infection* 4: 1157-1167.

30. Hart, G.T., D.J. Shaffer, A.C. Brown, S. Akilesh, L. Moran, D.C. Roopenian, and P.J. Baker. 2004. Quantitative gene expression profiling implicates genes for susceptibility and resistance to alveolar bone loss. *Infection and Immunity* 72:4471-4479.
31. Sharma, A., S. Inagaki, K. Honma, C. Sfintescu, P. Baker, and R.T. Evans. 2005. *Tannerella forsythia*-induced alveolar bone loss in mice involves leucine-rich repeat Bsp protein. *J. Dent. Res.* 84: 462-467.
32. Baker, P.J. 2005. Genetic control of the immune response in pathogenesis. *J. Periodontology* 76: 11 (Suppl.): 2042-2046.
33. Yu, J.J., M.J. Ruddy, G.C. Wong, C. Sfintescu, P.J. Baker, J.B. Smith, R.T. Evans, and S.L. Gaffen. Jan 2007. An essential role for IL-17 in preventing pathogen- initiated bone destruction: recruitment of neutrophils to inflamed bone requires IL-17 receptor-dependent signals *Blood* (chosen for First Edition electronic pre-publication doi:10.1182/blood-2005-09-010116

OTHER PEER REVIEWED PUBLICATIONS:

Baker, Pamela, Bonnie Shulman, and Elizabeth Tobin. 2001. Difficult crossings: Stories from building two-way streets, In: Maralee Mayberry, Banu Subramaniam and Lisa Weasel., eds. Feminist Science Studies: A New Generation, Routledge Press, New York.

OTHER PUBLICATIONS:

Baker, P.J. 1996. Methods to foster critical thinking. *Biosource* 4: 2-3.

Reich, J.N., E.H. Tobin and P.J. Baker. 2004. Changing faculty workload without new resources: The creative use of curricular planning. *Council on Undergraduate Research Quarterly*, June 2004: 167.

BOOKS:

Baker, P.J. 1986. My First Book of Sign, Kendall Green Publications, Gallaudet University Press, Washington, D.C., a childrens' sign language dictionary still in print.

Minkoff, E.C. and P.J. Baker. 1996. Biology Today: An Issues Approach. McGraw Hill Companies. Inc., N.Y. An introductory biology text teaching biological concepts through current issues.

Minkoff, E.C. and P.J. Baker. 2001. Biology Today: An Issues Approach, 2nd ed. Garland Press, New York.

Minkoff, E.C. and P.J. Baker. 2004. Biology Today: An Issues Approach, 3rd ed. Garland Press, New York

ACADEMIC AND PROFESSIONAL HONORS:

1980-1987 National Research Service Award

Paper selected as one of two top abstracts submitted to New Frontiers in Oral Immunologic Diseases meeting, Lillehammer, Norway, Feb. 23-27, 2001. 5000 Kr cash prize.

2005 Helen A. Papaioanou Professor of Biological Sciences: inaugural professor

2005-2006 full year sabbatical supported by Phillips Fellowship from Bates College

2005-2006 Fulbright Scholar to Maulana Azad Dental College in New Delhi, India

EXTERNAL GRANTS RECEIVED:

National Science Foundation Instrumentation and Laboratory Improvement Grant for "Biochemistry Teaching Laboratory Instrumentation", with Glen Lawson, Lee Abrahamsen and Joe Pelliccia. 1990.

Howard Hughes Foundation to Bates College: was involved in writing three successful grants. \$900,000, \$600,000 and \$500,000. 1991,1993, 1996.

R29 First Award from The National Institutes of Health (National Institute for Dental Research): \$349,956 direct costs (\$459,830 total costs) Murine Host Response to *Porphyromonas gingivalis*. 1994-1999.

RO1 from National Institutes of Health (National Institute for Dental and Craniofacial Research): Genetics of bacterially-induced alveolar bone loss. \$855,788 direct costs (\$970,458 total costs) 2000-2004

Howard Hughes Foundation to Bates College: was involved in writing our successful grant, funded for \$1.2 million in 2004.

RR016463 grant from National Center for Research Resources, National Institutes of Health: Comparative Functional Genomics INBRE in Maine, PI of Bates' \$2.5 million section of a \$17 million five year grant to a network of biomedical research institutions in Maine, headed by Mt. Desert Island Biological Laboratory.

INTERNAL GRANTS RECEIVED

- 2000 Ladd Library Annual Collection Development Award, with Nancy Kleckner, Rebecca Sommer and Bob Thomas, for acquisition of materials related to complementary and alternative medicine

PROFESSIONAL ACTIVITIES AND ORGANIZATIONS:

- 1983-present American Society of Microbiology
 1984-present International Association for Dental Research
 1990-present Sigma Xi
 1991-present Oral Immunology and Microbiology Research Group
 1996-2002 Chair, Division of Natural Sciences and Mathematics, Bates College
 1998-2004 Editorial board: Infection and Immunity; continuing as ad hoc reviewer
 2001-present Ad hoc reviewer for Journal of Dental Research
 2004-present Editorial Board for Journal of Periodontology
 2002-2004 Biomedical Research Infrastructure Network: Bates Representative on the Steering Committee
 2004-2005 Maine INBRE: Bates Representative on the Steering Committee
 2002-2005 Consortium for High Achievement and Success: Bates representative on the Steering Committee
 2002-2005 Associate Dean of Faculty, Bates College
 2002-2005 Program Director HHMI grants IV and V
 2004 Study section N.I.H. Science Education Partnership Award program
 2004 NEASC Accreditation visit
 2005 Maine Marine Research Coalition: Bates Representative

PUBLISHED PEER-REVIEWED ABSTRACTS AND PRESENTATIONS AT SCIENTIFIC MEETINGS:

1. Evans, R.T., P.J. Baker, R.A. Coburn and R.J. Genco. 1976. An in vitro assay for examining the effects of chemotherapeutic agents on plaque-forming oral bacteria. *J. Dent. Res.* 55: B286.
2. Baker, P.J., R.T. Evans, R.A. Coburn, S.L. Fischman and R.J. Genco. 1976. In vitro antiplaque effects of representative antiseptic phenols. *J. Dent. Res.* 55: B286.
3. Evans, R.T., P.J. Baker, R.A. Coburn and R.J. Genco. 1977. Antibacterial and antiplaque effects of a series of alkyl- bisbiguanides. *J. Dent. Res.* 56: A139.
4. Baker, P.J., R.T. Evans, R.A. Coburn and R.J. Genco. 1977. Antiplaque and antimicrobial activity of cationic surfactants on dental microorganisms. *Amer. Soc. Microbiol. Abstract A42.*

5. Baker, P.J., R.T. Evans, R.A. Coburn and R.J. Genco. 1978. Antibiotics as in vitro plaque inhibitors. *J. Dent. Res.* 57: A68.
6. Evans, R.T., P.J. Baker, R.A. Coburn, R.J. Genco and B.J. Paigen. 1978. An evaluation of chlorhexidine, tribromosalan and a limited series of alkyl-bisbiguanides in an in vitro mutagenicity assay. *J. Dent. Res.* 57: A861.
7. Evans, R.T., P.J. Baker, J. Slots, R.A. Coburn and R.J. Genco. 1979. Antibiotic sensitivity patterns of anaerobic bacteria isolated from periodontal lesions. *Amer. Soc. Microbiol.*
8. Evans, R.T., P.J. Baker, R.A. Coburn, J. Slots, P.A. Mashimo and R.J. Genco. 1979. Oral anaerobic bacterial susceptibility to antibiotics determined by minimal inhibitory concentration (MIC). *J. Dent. Res.* 58.
9. Baker, P.J., R.T. Evans, J. Slots, R.A. Coburn and R.J. Genco. 1979. Susceptibility of oral facultative and anaerobic bacteria to antimicrobial agents. *Current Chemotherapy and Infectious Disease*, Nelson, J.D. and Grassi, C., eds., ASM, Washington, D.C., vol. II: 888-890.
10. Baker, P.J., R.A. Coburn, J. Slots, R.J. Genco and R.T. Evans. 1982. Activity of alkyl-bisbiguanides against human oral anaerobic bacteria. *J. Dent. Res.* 61: Abstract 1229.
11. Baker, P.J., M.J. Levine, M.W. Stinson, L.A. Tabak and R.T. Evans. 1983. The adsorption of human salivas to various surfaces. *J. Dent. Res.* 62: Abstract 430.
12. Baker, P.J., R.T. Evans and R.J. Genco. 1983. Interactions between chlorhexidine at sub-MIC levels and anaerobiosis on the initial adsorption of *Streptococcus mutans* to saliva-coated enamel. *Amer. Soc. Microbiol.* Abstract A115.
13. Baker, P.J. and R.T. Evans. 1984. Cross resistance among human oral anaerobic bacteria. *J. Dent. Res.* 63: Abstract 1275.
14. Baker, P.J., U.M.E. Wikesjo, T. Umemoto, L.A. Christersson, R.T. Evans and R.J. Genco. 1985. Substantivity and surface effects of tetracycline on dentin under simulated clinical conditions. *J. Dent. Res.* 64: Abstract 1167.
15. Ogle, R.E., R.T. Evans, P.J. Baker, S.E. Sorensen, and E.A. Lewis. 1986. In vitro bacterial adherence to denture base resins. *J. Dent. Res.* 65: Abstract 292.
16. Baker, P.J., J.J. Zambon, and M.E. Wilson. 1988. Opsonic antibody to *Actinobacillus actinomycetemcomitans* in localized juvenile periodontitis. *J. Dent. Res.* 67: Abstract 1741.
17. Baker, P.J. and W.F. Busby. 1991. Cefpodoxime-induced changes in *Actinobacillus actinomycetemcomitans* morphology and neutrophil susceptibility. *J. Dent. Res.* 70: 1414.
18. Baker, P.J., R. Butler, and U.M.E. Wikesjo. 1991. Bacterial sampling by absorbent paper points. An in vitro study. *Periodontal Abstracts.* 39: 75.

19. Price, N.O., P.J. Baker , and U.M.E. Wikesjo. 1992. Factors influencing the paper point sampling technique. J. Dent. Res. 71: Abstr. 129.
20. Stabholtz, A., J. Kettering, R. Aprecio, G. Zimmerman, P.J. Baker, and U.M.E. Wikesjo. 1992. Substantivity of tetracycline HCl and chlorhexidine following a single subgingival irrigation. J. Dent. Res. 71: IADR Abstract.
21. Baker, P.J. and R.T. Evans. 1993. Oral colonization with *Porphyromonas gingivalis* induces alveolar bone loss in normal and SCID mice. Abstract P01. Molecular basis for pathogenesis and molecular targeting in periodontal disease.
22. Baker, P.J., J. Otis, P. Bronson, and M. Wilson. 1994. Filamentous *Actinobacillus actinomycetemcomitans* lack an outer membrane protein. Presented at IADR in Seattle.
25. Baker, P.J., H.A. Rotch, and U.M.E. Wikesjo. 1996. Blood clot adhesion to conditioned dentin from human teeth. J. Dent. Res. 75.
26. Baker, P.J., R.T. Evans, and D.C. Roopenian. 1999. Murine T-cell deficiencies are associated with decreased alveolar bone loss. Journal of Dental Research 78: 2826.
27. Baker, P.J., J. Garneau, L. Howe, and D.C. Roopenian. 2001. T cell contributions to alveolar bone loss in response to oral infection with *Porphyromonas gingivalis*. New Frontiers in Oral Immunologic Diseases, Lillehammer, Norway, Feb. 23-27, 2001.
28. Baker, P.J., D. Shaffer , S. Akilesh , L. Moran , N. Matteson, and D.C. Roopenian. 2002. Development of a new method for the simultaneous quantitative measurement of expression of multiple immune regulatory genes in mice. J. Dent. Res. 81: 2487
29. Evans, R.T., A. Sharma, C. Sfintescu, Y.-Y. Wu, K. Honma. P.J. Baker, and R.J. Genco. 2003. Alveolar bone loss in mice induced by *Bacteroides forsythus*. J. Dent. Res. 82:
30. Baker, P.J. Genetics of alveolar bone loss in response to infection with *Porphyromonas gingivalis*. Invited seminar presentation at University of Medicine and Dentistry of New Jersey, December 9, 2003.
31. Baker, P.J. mRNA Expression Profiling of Mouse Strains Susceptible and Resistant to Alveolar Bone Loss. Oral Immunology and Microbiology Research Group meeting, San Juan, Puerto Rico, January 2004.
32. Baker, P.J. Genetic control of the immune response in pathogenesis. Invited speaker at symposium entitled: Periodontology: Host-Pathogen Relationships in Health and Disease, Buffalo, NY, September, 2004.

PRESENTATIONS AT OTHER MEETINGS:

Baker, P.J., S. Kinsman, B. Shulman, and E. Tobin. Science and Women's Studies: Building Two Way Streets. Presentation at National Women's Studies Association meeting, Albuquerque, N.M., June 1999.

Reich, J., E. Tobin and P. Baker. Changing Faculty Workload Without New Resources: The Creative Use of Curricular Planning. American Conference of Academic Deans meeting, Washington, D.C., January 2004.

Tobin, E., P. Baker, J.H. Robbins, and A. Smith. Practitioners on Campus: Learning Associates from the "Real World". American Association of Colleges and Universities meeting, Washington, D.C., January 2004.

INVITED LECTURES:

High School Science Education for Careers and Citizenship, a Workshop presented to high school biology teachers as part of International Education Week, Kendriya Vidyalaya Sangathan school, Delhi, India, 16 November 2005.

HIV and AIDS, presentation to high school students and their teachers at The American Corner Library, Punjab State Library, Chandigarh, India, World AIDS Day 1 December 2005.

A Mouse model for Bacterially-induced Alveolar Bone Loss. King George's Medical and Dental College, Lucknow, Uttar Pradesh, India, 7 December 2005.

Genetics of Susceptibility to Alveolar Bone Loss. 59TH Indian Dental Association National Meeting, Chandigarh, India, 28 January 2006.

Molecular Cell Biology of HIV/AIDS, lecture for Master's degree students in the Departments of Neuroscience and Biotechnology, Jiwaji University. Gwalior, Madhya Pradesh, India, 1 February 2006.

The Molecular Cell Biology of Cancer, lecture for faculty and master's degree students in the Department Microbiology, Barkatuallah University, Bhopal, Madhya Pradesh, India, 2 February 2006,.

Molecular Cell Biology of HIV/AIDS, lecture for the adult students of Bhoj Open University, for the most part Social Work students, not science students, Bhopal, Madhya Pradesh, India, 3 February 2006.

Finding Genetic Markers for Susceptibility to Chronic Diseases, lecture for medical students from Mahatma Gandhi Memorial Medical College and dental students from the Government College of Dentistry, Indore, Madhya Pradesh, India, 4 February 2006.

HIV and AIDS, lecture for high school students at the American Corner, Delhi,, India, 6 February 2006.

Genetics of Susceptibility to Alveolar Bone Loss, lecture for dental students and residents Center for Dental Education and Research, All India Institute of Medical Sciences, Delhi, India, 7 February 2006

Strategies for Discovery of Genetic Markers for Susceptibility to Chronic Diseases, lecture for Master's degree students in Biotechnology, Jawaharlal Nehru University, Delhi, 21 February 2006.

Science Education for Careers and Citizenship, one of eight featured presenters at the National Seminar on Science Education at Secondary Level: Development of Scientific Temper among the "Junior Youth", Delhi, India, 25 February 2006

Strategies for Discovery of Genetic Markers for Susceptibility to Chronic Diseases, lecture for Master's degree students in Biotechnology, Kumaon University, Nainital, Uttaranchal, India, 3 March 2006.

2. Other items for Professional Activities Report 2005-2006

d. TEACHING DEVELOPMENT

Freeman Seminar on Tibet: six Bates faculty spent 2005-2006 educating each other about Tibet; my portion was on Tibetan medicine. Seminar culminated in five of us traveling to China June 4 to June 27, 2005. This seminar and trip will eventually result in a course on public health and world medicines, possibly as a part of the new Bates Education GECs.

From September 25 to 30, 2005, I visited the World Health Organization in Geneva, Switzerland, partly in preparation for my Fulbright trip to India, but also to study the roles of NGOs and the WHO in worldwide public health efforts.

Living in India from October 27, 2005 to March 21, 2006 and meeting with science educators in several parts of India has given me much to think about in regards to effective methods of teaching science. I attended a meeting entitled Scientific Validation and Technological Evaluation of Traditional Medical Systems at the India Institute of Technology on 10 February 2006; despite its title and the joint sponsorship of the All India Institute of Medical Sciences, the meeting was as much about Hinduism and Indian politics as it was about medicine, giving me further insights into the varied roles of traditional medicine in today's world.

In addition, with the future goal of taking students to Central or South America, I spent three weeks in an intensive Spanish language school in Antigua, Guatemala, April 29 to May 23, 2006.

h. RESEARCH INTERESTS

Role of host immune system in alveolar bone loss (T cells, cytokines, MHC); genetics of susceptibility and resistance to alveolar bone loss; animal models of periodontal disease; host response to bacterial infection (*Porphyromonas gingivalis*; *Actinobacillus actinomycetemcomitans*); medicinal plants (interactions with the immune system).

Science education across cultures

Traditional medicine in present day society

Barriers to implementation of Public Health programs