

Lauren Opremcak Bakaletz, Ph.D.

Curriculum Vitae

Academic Background

- 1984 - Ph.D. Microbiology, The Ohio State University, Columbus, Ohio
- 1981 - M.S. Microbiology, The Ohio State University, Columbus, Ohio
- 1979 - B.S. Microbiology, The Ohio State University, Columbus, Ohio

Professional Background

- 2008 – present Professor, Department of Otolaryngology (joint appointment), The Ohio State University College of Medicine, Columbus, Ohio
- 2006 – present Member, Center for Microbial Interface Biology, The Ohio State University
- 2006 – present Vice-President for Basic Science Research, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio
- 2006 – present Tillie E. Coleman Endowed Chair in Pediatric Research, Nationwide Children's Hospital
- 2003 – present Director, Center for Microbial Pathogenesis, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio
- 2000 – present Professor, Department of Pediatrics, Division of Molecular Medicine, O.S.U. College of Medicine, The Research Institute at Nationwide Children's Hospital, Columbus, Ohio
- 1998 - 2000 Associate Professor, Department of Pediatrics, Division of Molecular Medicine, O.S.U. College of Medicine & Public Health, Children's Research Institute, Columbus, Ohio
- 1996 - 1998 Head, Microbial Pathogenesis Section, Division of Otologic Research, Department of Otolaryngology, O.S.U. College of Medicine, Columbus, Ohio.
- 1993 - 1998 Associate Professor, Otological Research Laboratories, Department of Otolaryngology, O.S.U. College of Medicine, Columbus, Ohio
- 1987 - 1993 Assistant Professor, Otological Research Laboratories, Department of Otolaryngology, O.S.U. College of Medicine, Columbus, Ohio
- 1986 - 1987 Senior Research Associate, Otological Research Laboratories, Department of Otolaryngology, O.S.U. College of Medicine, Columbus, Ohio
- 1985 - 1986 Postdoctoral Researcher, Otological Research Laboratories, Department of Otolaryngology, O.S.U. College of Medicine, Columbus, Ohio

Administrative Responsibilities

- 2008 – present Symposium Co-Director, 10th International Symposium on Recent Advances in Otitis Media, New Orleans, LA, (June 5-9, 2011).
- 2006 - 2009 Member, Otitis Media Program Committee, 6th Extraordinary International Symposium on Recent Advances in Otitis Media, Seoul, Korea, (May 6-10, 2009).

- 2006 - 2007 Member, Program Committee, 9th International Symposium on Recent Advances in Otitis Media, St. Petersburg, FL, (June 4-8, 2007).
- 2005 Organizer, IDSA Annual Meeting session entitled "*New Insights into and Current Challenges Presented by Polymicrobial Diseases of the Respiratory Tract*", San Francisco, CA (October 6-9).
- 2002 - 2005 Member, Advisory Committee, ASM sponsored conference "*International Pasteurellaceae 2005*", Kohala Coast, HI, (October 23-26, 2005).
- Member, Advisory Council, Fifth Extraordinary International Symposium on Recent Advances in Otitis Media. Amsterdam, The Netherlands, (April 24-27, 2005).
- 2004 Organizer, National Institutes of Health-sponsored workshop, "*Otitis Media Vaccines: Overcoming Obstacles to Progress*", June 8-9.
- Chair, Molecular Diagnostic/Therapeutics Section, NIDCD/NIH Workshop: "*Translational Research in Hearing and Balance*", (April 27-28).
- 2002 - 2003 Member, Organizing Committee, ASM sponsored meeting "*Polymicrobial Diseases*", (October, 2003).
- Member, Organizing Committee, Eighth International Symposium on Recent Advances in Otitis Media, Ft. Lauderdale, FL, (June, 2003).
- 2001 - 2002 President, Association of Faculty and Professional Women, The Ohio State University.
- 2000 - 2001 Vice President & Program Chair, Association of Faculty and Professional Women, The Ohio State University.
- Organizer/Co-Chair, NIDCD & NIAID/NIH-convened workshop entitled "*Otitis Media: New Approaches for Analysis, Treatment and Prevention*", Rockville, MD, (Nov. 29-30, 2000).
- Invited Faculty, "Vaccine Strategies" Panel at CME conference entitled *New Paradigms in Infectious Diseases: Applications to Otitis Media*. Allegheny General Hospital, Pittsburgh, PA, (October 13-15, 2000).
- 1998 - 1999 Member, Organizing Committee, Seventh International Symposium on Recent Advances in Otitis Media, Ft. Lauderdale, FL.
- 1996 - 1997 Faculty Member and Program Advisor, Third Extraordinary International Symposium on Recent Advances in Otitis Media, Copenhagen, Denmark, (June 1-5, 1997).
- 1995 Poster Session Coordinator, Sixth International Symposium on Recent Advances in Otitis Media, Ft. Lauderdale, FL.
- 1994 Member, Organizing Committee, Sixth International Symposium on Recent Advances in Otitis Media, Ft. Lauderdale, FL.
- 1993 Member, Organizing Committee, Second Extraordinary International Symposium on Recent Advances in Otitis Media, Oita, Japan.
- 1991 Symposium Coordinator and Poster Session Coordinator, Fifth International Symposium on Recent Advances in Otitis Media, Ft. Lauderdale, FL.

1987 Poster Session Coordinator, Fourth International Symposium on Recent Advances in Otitis Media, Bal Harbour, FL.

Internal Committees

2010 – present Member, Research Conflict of Interest Committee, The Research Institute at Nationwide Children's Hospital

2008 – present Member, Small Animal Imaging Facility Oversight Committee, The Research Institute at Nationwide Children's Hospital.

2006 - present Member, Grievance and Appeals Committee, The Ohio State University, College of Medicine.

2006 – 2007 Member, Search Committee, Center Director, Center for Perinatal Research, Columbus Children's Research Institute.

2005 - present Vice-Chair, Patents and Copyrights Committee, The Research Institute at Nationwide Children's Hospital.

2002 - 2008 Vice-Chair, Appointment, Promotion and Tenure Committee, Department of Pediatrics.
Member, Child Health Research Career Development Award (CHRCDA) Internal Advisory Committee.

2002 - 2005 Chair, Institutional Biological & Chemical Safety Committee, Columbus Children's Research Institute.

2001 - 2005 Member, Board of Patents and Copyrights, Columbus Children's Hospital.

2000 - 2002 Member and Affirmative Action Designee, Search Committee for Director of the Division of Pediatric Hematology Oncology, Columbus Children's Hospital.
Member, Appointment, Promotion and Tenure Committee, Dept. of Pediatrics.

2001 - 2002 Member, Children's Research Institute, Branding Strategy Committee Member.
Member, Children's Research Institute, Retreat Planning Committee.

2000 - 2002 Member, Investigator Advisory Committee, Children's Research Institute.

2000 Member, Children's Research Institute Retreat Planning Committee.

1997 - 1998 Member and Procedures Oversight Designee, Promotion and Tenure Committee, Department of Otolaryngology.

1996 - 1998 Member of College of Medicine Strategic Planning Committee

1996 - 1998 Departmental Representative to College of Medicine Faculty Council.

1996 Member of Search Committee for Director of the Office of Industrial Outreach.
Member of Board of Regents Equipment Funds Allocation Committee.
Member of Search Committee for Director of the Office of Technology Transfer.

- 1995 - 1998 Member of Neurotology Fellowship Application Evaluation Committee, Department of Otolaryngology.
- 1993 - 1997 Member and Affirmative Action Representative, Promotion and Tenure Committee, Department of Otolaryngology.
- 1993 - 1995 Participation in interviewing for selection of Chairman of Pediatric Otolaryngology, Columbus Children's Hospital.
- Member of Search Committee for Senior Otological Researcher, Department of Otolaryngology.
- 1993 Participation in interviewing for selection of Associate Vice President for Research/Associate Dean for Research and Graduate Education.
- 1992 - 1998 Member of Resident Research Committee, Dept. of Otolaryngology.
- 1992 Member of *Ad-hoc* Committee, Preparation of Academic Challenge Document for Board of Regents, Department of Otolaryngology.
- Member of *Ad-hoc* Committee, Preparation of Proposal for Ear Research Institute, Department of Otolaryngology.
- Liaison with Olympus League, Department of Otolaryngology.
- Member of College of Medicine Research Committee, The Ohio State University.
- 1989 Member of Search Committee for Research Biochemist, Department of Otolaryngology.
- 1987 - 1998 Participation in Department of Otolaryngology resident applicant interviewing and selection process.

External Committees

- 2007 Chair, Vaccine Panel, Post Symposium Research Conference on Recent Advances in Otitis Media, June 7- 8.
- Member of Panels on: Pathogenesis, Anatomy and Pathology and Cell Biology; Molecular Biology, Biochemistry, Genetics and Animal Models; Microbiology and Immunology, Post-Symp. Research Conference on Recent Advances in OM, June 7-8.
- 2003 Co-Chair, Panel on Vaccines, Post Symposium Research Conference on Recent Advances in Otitis Media, June 7-8.
- Member of Panels on: Cell Biology, Middle Ear Mechanics, Physiology/Pathophysiology, Pathology and Animal Models; Molecular Biology and Biochemistry; Microbiology and Immunology, Post-Symp. Research Conference on Recent Advances in OM, June 7-8.
- 2002 Co-Chair, Symposium on Progress in Development of New Bacterial and Viral Vaccines, Third World Congress on Vaccines and Immunization, Opatija, Croatia, June 4-9.
- 2000 Co-Chair, Workshop on Development of Bacterial Vaccines, Millennium World Congress on Vaccines and Immunisation, Liege, Belgium, Aug. 29-Sept. 3.

- 1999 Member of Panels on: Cell Biology, Pathology and Animal Models; Microbiology and Immunology, Post Symp. Research Conf. on Recent Advances in Otitis Media, June 1-6.
- Co-Chair, Panel on Molecular Biology and Biochemistry, Post Symposium Research Conference on Recent Advances in Otitis Media, June 1-6.
- Co-Moderator, Mini Symposium on 'Antimicrobial Resistance', Post Symposium Research Conference on Recent Advances in Otitis Media, June 1-6.
- 1997 Session Moderator, 'Immunology & Vaccination', Third Extraordinary International Symp. on Recent Advances in Otitis Media, Copenhagen, Denmark, June 1-5.
- 1995 Member of Panels on: Microbiology, Immunology and Vaccination and Molecular Biology and Biochemistry. Post-Symp. Research Conf. on Rec. Adv. in Otitis Media, June 9-10.
- 1994 Member Round Table on Immunological Aspects of Otitis Media, VI Intl. Congress of Pediatric Otorhinolaryngology, Rotterdam, The Netherlands, May 29 - June 1.
- 1993 Co-Chairperson, Immunology Session, Second Extraordinary Intl. Symposium on Recent Advances in Otitis Media, Oita, Japan, March 31 - April 3.
- 1991 Member of Panels on: Eustachian Tube and Middle Ear Physiology and Pathophysiology; Microbiology, Immunology, Biochemistry and Vaccination. Post-Symp. Research Conference on Recent Advances in Otitis Media, May 24-25.
- Co-Chairperson of Panel on: Molecular Biology, Post-Symposium Research Conference on Recent Advances in Otitis Media, May 24-25.
- 1990 Member of President's Undergraduate Leadership Award Selection Committee. Wright Award for outstanding student organization advisor, March 28-April 3.
- 1987 Member of Panel on Microbiology, Immunology, Vaccination and Biochemistry, Post-Symp. Research Conference on Recent Advances in Otitis Media, June 4-5.

Service

- 2007 Tour Leader, 2007 Ohio Legislative Service Commission Internship Program
- 2007 Judge, Center for Microbial Pathogenesis Retreat 2007. June 15 -16.
- 2000 Judge, Ohio Branch ASM Spring Meeting 2000, Outstanding Student Research Award competition, Hueston Woods Resort and Conference Center. April 14-15.
- 1997 Advising Scientist, *Dragonfly* magazine, published by the National Science Teachers Association for young investigators.
- 1994 -1996 Participation in Career Day, Hilliard City Schools
- 1994 Participation in Landacre Day Specialty Fair, Career Day. O.S.U. College of Medicine, Dept. of Otolaryngology representative.
- 1994 Participation in The Landacre Society Summer Research Opportunities Workshop. O.S.U. College of Medicine, Dept. of Otolaryngology representative.
- 1993 Participation in The Landacre Society Summer Research Opportunities Workshop. O.S.U. College of Medicine, Dept. of Otolaryngology representative.

- 1992 - 1993 Organized and conducted workshops for students in Biomedical Communications to demonstrate the use and application of light and electron-microscopy in biomedical research.
- 1992 Participation in judging Science Fair. Upper Arlington High School, Columbus, OH.
- 1992 Organized and conducted 6-week workshop for employees of Ross Laboratories to learn *in vitro* methodology for demonstration of bacterial adherence to eukaryotic cells and the specific inhibition thereof.
- 1990 -1994 Participation in Honor's Science Program/mentoring program. Upper Arlington High School, Columbus, OH.
- 1990 Participation in Landacre Day and Specialty Fair. OSU College of Medicine, Dept. of Otolaryngology representative.
- 1988 Assisted coordinating script preparation and production for fund-raising video "*Seeking Sound for the Silent World of Hearing Impaired Children*".
- Conducted workshop on "*Electron microscopy and its application to medical research*". Upper Arlington High School Advanced Biology Students.

Consultantships

- 2006 – 2008 Served as a consultant on NHMRC grant "*Factors that increase occurrence and severity of middle ear infection*" to Jennelle Kyd, Ph.D., Central Queensland University, Australia and Allan W. Cripps, Ph.D., Griffith University Gold Coast, Australia.
- 1994 - 2003 Served as consultant to GlaxoSmithKline Biologicals, Rixensart, Belgium.
- 2000 - 2001 Served as a consultant to Merck Research Laboratories, Rahway, New Jersey.
- 1997 - 1999 Served as consultant to SmithKline Beecham Pharmaceuticals, Philadelphia, PA.
- 1992 - 1995 Served as consultant to Ross Laboratories, Columbus, OH.
- 1992 - 1994 Served as electron microscopy consultant on grant re: the ultrastructural localization of *Mycobacterial* enzymes via immunocytochemical staining to Pappachan E. Kolattukudy, Ph.D., Director, O.S.U. Biotechnology Center, Columbus, OH.
- 1991 - 1994 Served as electron microscopy consultant on grant concerning studies of the pathogenesis of nontypable *H. influenzae* - induced disease to Steven J. Barenkamp, M.D., St Louis University School of Medicine, St. Louis, MO.

Courses and Workshops attended

- Fostering a Culture of Compliance, sponsored by the NIH, Educational and Outreach Seminar. The Ohio State University, Columbus, OH, August 21, 2003.
- BIA Basics for BIACORE[®] 3000 training course. Piscataway, NJ, April 3-4, 2003.
- The Future Face of Institutional Biosafety Committees: Evolving Roles and Responsibilities, Upcoming Challenges and Opportunities *A Professional Development Conference and Training Session*, Sponsored by the NIH Offices of Biotechnology Activities and Laboratory Animal Welfare; American Biological Safety Association and Applied Research Ethics National Association, San Diego, CA, February 20-22, 2003.
- Recombinant DNA Methodology, The Center for Advanced Training in Cell and Molecular Biology, Washington

DC, March 5-9, 1990.

- Summer Workshop in Recombinant DNA Technology. The Ohio State Biotechnology Center, Columbus, OH, August 7-18, 1989.

Post-Professional Researchers Directed

Current

- Rachel Balder, Ph.D., post-doctoral scientist, April 2011 – present.
- Michael Mullins, Ph.D., post-doctoral scientist, November 2010 – present.
- Michael Carruthers, Ph.D., post-doctoral scientist, August 2009 – present.
- Subinoy Das, M.D., Assistant Professor of Otolaryngology, August 2008 – present.

Past

- Glen McGillivray, Ph.D., post-doctoral scientist, August 2004 – April 2010.
- Ryan Johnson, Ph.D., post-doctoral scientist, June 2008 – February 2010.
- Amanda DeRocco, Ph.D., post-doctoral scientist, September 2008 – December 2009.
- Fang Ye, Ph.D., post-doctoral scientist, July 2006 – May 2008.
- Kevin M. Mason, Ph.D., post-doctoral scientist, October 2000 – March 2008.
- Yi Jin, Ph.D., post-doctoral scientist, October 2005 – January 2006.
- Randall H. Harris, Ph.D., post-doctoral scientist, November 2000 – January 2004.
- Samir Pancholi, D.O., Doctor's Hospital, general internship, September 1998 – June 1999.
- Heidi Dunniway, M.D. Resident, Department of Otolaryngology. December 1995 - June 1999.
- Naoya Miyamoto, M.D., Ph.D., visiting Assistant Professor. January 1995 - December 1996.
- Tatiana Sirakova, Ph.D., post-doctoral researcher. April 1991- 1994.
- Kenji Suzuki, M.D., post-professional researcher. March 1991 - March 1993.
- Thomas Linder, M.D., post-professional researcher. April 1991 - June 1992.
- Robert Daniels, M.D., post-professional researcher. June 1991 - June 1992.
- David H. Darrow, M.D., D.D.S., post-professional researcher. March 1991.
- Keehyun Park, M.D., post-professional researcher. June 1990 - March 1991.
- Mohammed A. Ahmed, Ph.D., post-doctoral researcher. February 1990 - February 1991.
- Yuichi Kurono, M.D., post-professional researcher. July 1989 - April 1991.
- Lishya Liauw, M.D., post-professional researcher, Univ. of Leiden, The Netherlands. Sept. 1989 - March 1990.
- James Coticchia, M.D., Recipient of NIH NRSA-training grant. October 1988 - July 1990.
- Stephen R. Griffith, M.D., Dept. of Otolaryngology resident. 1987–1989.

Students Directed

Current

- Nathan Marcinkowski, undergraduate student, The Ohio State University, October 2010 – present.
- David Allen, New Albany High School student. June 2010 – present.
- Martha Bowers, undergraduate student, The Ohio State University. June 2010 – present.
- Liz Brockson, graduate student, The Ohio State University. March 2010 – present.
- Dana Staffen, Olentangy High School student. March – May 2008, undergraduate student, The Ohio State University. January 2009 – present.
- Zach Jordan, undergraduate student, College of William and Mary. June 2008 – August 2008, June 2009 - present.

Past

- Kyle Obergfell, undergraduate student, University of Southern California. June 2010 – August 2010.
- Kara Ganser, undergraduate student, University of Dayton. June 2008 – August 2009.
- Jessica Grieves, graduate student, The Ohio State University. February 2008 – February 2009.
- Leanne Lesko, medical student, The Ohio State University. June 2008 – April 2009.
- Kate Fenning, medical student, The Ohio State University. June 2007 – April 2008.
- Sara Keller, undergraduate student, Roanoke College. June – August 2005, June – August 2006, June – August 2007.

- Beth Gottesman, undergraduate student, Northwestern University. June – August 2007.
- Joanna Marshall, undergraduate student, The Ohio State University. June 2006 – May 2007.
- Allison Parish, Hilliard Davidson High School student. June – August 2003, June-August 2004.
- Brian Quist, undergraduate student in Biomedical Engineering, University of Illinois (UIUC). June – August 2003, July – August 2004.
- Andrea den Haan, undergraduate student, The Ohio State University. July 2002 – July 2003.
- Jon Moses, medical student, The Ohio State University. June – August 2002.
- Leslie Keller, Buckeye Valley High School student, June-Aug. , 1999 and June-Aug., 2000.
Pre-medical student, Otterbein College. June-Aug. 2001, May-Aug. 2002, May-Aug. 2003, May-Aug. 2004.
- Jessica Bowers, Buckeye Valley High School student. June-August, 2001, 2002.
- Yael Beck, undergraduate in Molecular Genetics, The Ohio State University. July – December 2001.
- Aral Sezginis, pre-medical student, The Ohio State University. April, 2000 – November 2000.
- Vivek Raizada, first year medical student, SUNY at Stony Brook. July-September, 1998
- David C. Ford, first year medical student, The Ohio State University. Roessler Research Fellow, June-Sept. 1998.
- Shani Thompson, undergraduate in Dept. of Microbiology, The Ohio State University. June 1997 – Jan. 1999.
- Ben Wakefield, pre-medical student, The Ohio State University. Student researcher. June 1996 - Sept. 1996.
- Rolf Hultsch, first year medical student, The Ohio State University. Roessler Research Fellow, June-Sept. 1996.
- Susan Thompson, University Honors Scholar, Molecular Genetics. Sept. 1995 – Aug. 1996.
- Stuart Wahl, Ph.D. candidate. Member, dissertation committee, Dept. Microbiology, O.S.U., April 1995-August 1996.
- Lori Ann Benzino, undergraduate in Dept. of Microbiology, O.S.U. 1994 – 1995.
- Geoffrey Kunz, first year medical student. Roessler Research Fellow, June - Sept. 1994.
- Beth McGuire, high school honors biology course/mentor program. Nov. 1990 – March 1994.
- Paul Hoskins, Student researcher. November 1990 – August 1991.
- Katherine Holmes, B.S., Student researcher; Research Assistant. April, 1989 - July, 1991.
- Matthew White, pre-medical student OSU. Recipient of a University Honors Scholarship. Sept. 1989 - March 1991.
- Nelleke Biljsma, medical student, Univ. of Leiden, The Netherlands. July 89 – Feb. 90.
- George Liu, second year medical student. Roessler Research Fellow, July - August, 1989.
- Charles Bogden, fourth year medical student. Roessler Research Fellow, July, 1987.

Professional Societies

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| American Society for Microbiology | Honor Society of Phi Kappa Phi |
| American Association for the Advancement of Science | Ohio Branch, A.S.M. |
| Society for Pediatric Research | Association of Faculty and Professional Women, |
| Sigma Xi, Scientific Research Society of North America | O.S.U. |

Editorial Board

Infection and Immunity 1/1/08 – 12/31/13

Journal Review Boards – ad hoc

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| <i>Proceedings of National Academy of Sciences, U.S.A.</i> | <i>Pharmacological Research</i> |
| <i>The Journal of Infectious Diseases</i> | <i>Annals of Otolaryngology, Rhinology and Laryngology</i> |
| <i>Vaccine</i> | <i>Otolaryngology - Head and Neck Surgery</i> |
| <i>Microbial Pathogenesis</i> | <i>Ear, Nose and Throat Journal</i> |
| <i>Journal of Clinical Microbiology</i> | <i>The Laryngoscope</i> |
| <i>Clinical, Diagnostic and Laboratory Immunology</i> | <i>American Journal of Otolaryngology</i> |
| <i>Journal of Bacteriology</i> | <i>Antimicrobial Agents and Chemotherapy</i> |
| <i>Journal of the American Medical Association (JAMA)</i> | <i>Scandinavian Journal of Infectious Diseases</i> |
| <i>Applied and Environmental Microbiology</i> | <i>Journal of Virology</i> |
| <i>Science</i> | <i>PLoS Pathogens</i> |
| <i>Trends in Microbiology</i> | <i>Immunology and Cell Biology</i> |
| <i>European Journal of Epidemiology</i> | <i>Clinical Microbiology and Infection</i> |
| <i>PLoS Genetics</i> | |

Review Boards – ad hoc

American Society for Microbiology, book proposal “*Post-Infectious Sequelae and Long-term Consequences of Infectious Diseases*”.

Advisory Boards

National Deafness and Other Communication Disorders Advisory Council, National Institutes of Health, July 2010 – May 2014.

Advisory Boards-ad hoc

- USDA, Agricultural Research Service Project Plan review, January 2011.
- Special Emphasis Panel/Scientific Review Group 2010/08, ZRG1 IDM-L (55) R meeting, National Institutes of Health, June, 2010.
- Louisiana Board of Regents Research Competitiveness Subprogram, RCS proposal, December 2009.

- Special Emphasis Panel/Scientific Review Group 2009/10, ZDC1 SRB-Y (59), National Institutes of Health, June 12, 2009.
- National Institute on Deafness and Other Communication Disorders, R03 Hearing and Balance review, June 2009.
- National Institutes of Health Challenge Grants (ARRA), June, 2009.
- National Institutes of Health Challenge Grants (ARRA), May, 2009.
- Small Grants Program (R03) Reviewer, NIH/NIDCD ZDC1 SRB-R 37, October 2008.
- Small Grants Program (R03) Reviewer, NIH/NIDCD, October 2008.
- Small Grants Program (R03) Reviewer, NIH/NIDCD, June 2006.
- External Consultant, Program Project grant “Recurrent otitis media and COPD: immunity and vaccines.” PI: Timothy Murphy, University at Buffalo, S.U.N.Y., 2004 – 2005.
- Special Emphasis Panel, ZRG1-IFCN-B-03, National Institutes of Health, NIDCD, July 6, 2005.
- Special Emphasis Panel, ZRG1-IFCN-B-03, National Institutes of Health, July 20, 2004.
- Special Emphasis Panel, National Institutes of Health, March 19, 2004.
- The Thrasher Research Fund, Grant Review, September 1, 2003 and January 25, 2004.
- National Institute of Allergy and Infectious Diseases, NIH, Immunological Sciences Study Section, February 28, 2002.
- External Advisory Committee, Sandeep Kathju, M.D., Ph.D. Center for Genomic Sciences, West Penn Allegheny Health System, Pittsburg, PA, 2001.
- Working Group on Concept Clearance, National Institutes of Health, NIDCD, May 23, 2001.
- National Institute of Child Health and Human Development, National Institutes of Health, Joint CDC Initiative, August 18, 2000.
- John Sealy Memorial Endowment Fund for Biomedical Research, Grant Review, University of Texas Medical Branch at Galveston, January, 2000.
- Special Emphasis Panel, Basic and Clinical Studies in Otitis Media, Program grant review, NIH, NIDCD, 3/11/1999.
- Integrative, Functional and Cognitive Neuroscience Study Section (IFCN-6), NIH, October 19-20, 1998.
- S.U.N.Y. at Buffalo - Multidisciplinary Pilot Project Program Seed Grant Program, 1994.
- National Institute on Deafness and Other Communication Disorders - Small Grant Program, 1991.

Awards/Inventions

- Patent “Chimeric vaccine for *H. influenzae*-induced disease”, issued 10/12/10, U.S. Patent #7,811,591
- Patent “Nontypeable *H. influenzae* Virulence Factors”, issued 5/25/10, U.S. Patent #7,723,504
- Patent “Genes of an Otitis Media Isolate of Nontypeable *Haemophilus influenzae*” issued 12/29/09, U.S. Patent #7,638,282
- Patent “Synthetic Chimeric Fimbrin Peptides” divisional, issued 6/12/07, U.S. Patent # 7,229,622
- Patent “Nontypeable *H. influenzae* Virulence Factors” issued 12/11/07, U.S. Patent #7,306,805
- Patent “Polypeptide encoded by a nucleotide sequence of a nontypeable strain of *Haemophilus influenzae*”, issued 7/10/07, U.S. Patent #7,241,867
- Patent “*Haemophilus influenzae* type IV pili”, issued 3/10/09, U.S. Patent # 7,501,131

- Patent "Otitis media vaccine", issued 5/13/03, U.S. Patent #6,562,349
- Patent "Method for nasal application of a medicinal substance", issued 3/25/03, U.S. Patent # 6,537,265
- Patent "Synthetic Chimeric Fimbrin Peptides" divisional, issued 8/20/02, U.S. Patent # 6,436,405
- Patent "Method for preparing the fimbrin protein of *H. influenzae*", issued 2/29/00, U.S. Patent # 6,030,626
- Patent "Vaccine" #WO9964067, PCT/US99/11980, filed 6/11/98 in the U.K., published 12/16/99
- National Institutes of Health, James A. Shannon Director's Award, August 1999
- Patent "Synthetic Chimeric Fimbrin Peptides", issued 12/1/98, U.S. Patent #5,843,464
- Patent "DNA molecules which encode the fimbrin protein of *Haemophilus influenzae*", issued 6/16/98, U.S. Patent # 5,766,608
- Equity and Excellence Award, The Ohio State University, College of Medicine, June 1996
- Equity and Excellence Award, The Ohio State University, College of Medicine, June 1994

Publications

1. **Opremcak, L.B.**, and Rheins, M.S. (1982). Scanning electron microscopy of mouse ciliated oviduct and tracheal epithelium infected *in vitro* with *Bordetella pertussis*. Can J Microbiol, 29:415-420.
2. **Bakaletz, L.O.** and Rheins, M.S. (1985). A whole-organ perfusion model of *Bordetella pertussis* adherence to mouse tracheal epithelium. In Vitro Cell Dev Biol, 21:314-320.
3. **Bakaletz, L.O.**, DeMaria, T.F., and Lim, D.J. (1987). Phagocytosis and killing of bacteria by middle ear macrophages. Arch Otolaryngol, 113:138-144.
4. **Bakaletz, L.O.**, DeMaria, T.F. and Lim, D.J. (1987). Effect of preopsonization on phagocytosis of *Hemophilus influenzae*. Arch Otolaryngol, 113:526-529.
5. Lim, D.J., DeMaria, T.F., and **Bakaletz, L.O.** (1987). Functional morphology of the tubotympanum related to otitis media: A review. Am J Otol, 8:385-389.
6. Lim, D.J., DeMaria, T.F., and **Bakaletz, L.O.** (1987). Functional morphology of the tubotympanum related to otitis media. Adv Oto-rhino-laryngol, 37:21-25.
7. **Bakaletz, L.O.**, Tallan, B.M., Hoepf, T., DeMaria, T.F., Birck, H.G., and Lim, D.J. (1988). Frequency of fimbriation of nontypable *Hemophilus influenzae* and ability to adhere to chinchilla and human respiratory epithelium. Infect Immun, 56:331-335.
8. **Bakaletz, L.O.**, Hoepf, T.M., DeMaria, T.F., and Lim, D.J. (1988). The effect of antecedent influenza virus infection on the adherence of *H. influenzae* to chinchilla tracheal epithelium. Am J Otolaryngol, 9:127-134.
9. DeMaria, T.F., Enrique, R., Dohar, J., **Bakaletz, L.O.**, and Lim, D.J. (1988). Beta₂-microglobulin in the middle ear effusions and sera from patients with chronic OME. Arch Otolaryngol, 114:1259-1261.
10. Lim, D.J., DeMaria, T.F., and **Bakaletz, L.O.** (1988). Current concepts of pathogenesis of otitis media: a review. Acta Otolaryngol, S458:174-180.
11. **Bakaletz, L.O.**, Griffith, S.R., and Lim, D.J. (1989). The effect of prostaglandin E₂ and bacterial endotoxin on the rate of dye transport in the Eustachian tube of the chinchilla. Ann Otol Rhinol Laryngol, 98:278-282.
12. **Bakaletz, L.O.**, Ohashi, Y., DeMaria, T.F., and Lim, D.J. (1989). Effect of formalin-fixed *H. influenzae* and *S. pneumoniae* on dye transport by the chinchilla Eustachian tube. Acta Otolaryngol, (Stockh). 107:235-243.
13. **Bakaletz, L.O.**, Tallan, B.M., Andrzejewski, W.J., DeMaria, T.F., and Lim, D.J. (1989). Immunological responsiveness of chinchillas to outer membrane and isolated fimbrial proteins of nontypable *Haemophilus influenzae*. Infect Immun, 57:3226-3229.
14. Liauw, L., Lim, D.J., **Bakaletz, L.O.**, and van Blitterswijk, C. (1991). Effect of Vitamin A on the growth and

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157. Bruggeman, M.E., McGillivray, G., Mason, K.M., Munson Jr., R.S. **Bakaletz, L.O.** (2007). Microbe-induced dysregulation of expression of mucosal antimicrobial peptides influences colonization of the chinchilla upper respiratory tract by nontypeable *Haemophilus influenzae*. Abst. 107th General Mtg., Am. Soc. for Microbiol.
158. Adams, L., Novotny, L.A., Hill, S.R., Sethi, S., Murphy, T.F., **Bakaletz, L.O.** (2007). Epitope-mapping the immune response of children with otitis media and adults with chronic obstructive pulmonary disease to the PilA protein of the nontypeable *Haemophilus influenzae* type IV pilus. Abst. 107th General Mtg., Am. Soc. for Microbiol.
159. Marshall, J.M., Mason, K.M., Munson Jr., R.S., **Bakaletz, L.O.** (2007). The sap transport system inner membrane permease of nontypeable *Haemophilus influenzae* (NTHI) mediates potassium acquisition in conjunction with antimicrobial peptide resistance. Abst. 107th General Mtg., Am. Soc. for Microbiol.
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161. Novotny, L.A., Partida-Sanchez, S., **Bakaletz, L.O.** (2007). Intranasal immunization with LB1 induces maturation and migration of chinchilla respiratory dendritic cells to local lymphoid tissue. Abst. 9th Intl. Symp. Recent Adv. in Otitis Media.
162. Adams, L.D., Novotny, L.A., Sethi, S., Murphy, T.F., **Bakaletz, L.O.** (2007). Epitope-mapping the immune response of children with otitis media and adults with chronic obstructive pulmonary disease to the PilA protein of nontypeable *Haemophilus influenzae* type IV pilus. Abst. 9th Intl. Symp. Recent Adv. in Otitis Media.
163. McGillivray, G., King, S.J., Munson Jr., R.S., **Bakaletz, L.O.** (2007). *Streptococcus pneumoniae* desialylates and degrades the antimicrobial peptide sPLUNC-1 as a potential mechanism for immune evasion. Abst. 9th Intl. Symp. Recent Adv. in Otitis Media.
164. Bruggeman, M.E., Jurgisek, J.A., **Bakaletz, L.O.** (2007). Antibodies directed against the type IV pilus protein of nontypeable *Haemophilus influenzae* can prevent or reverse biofilms formed *in vitro*. Abst. 9th Intl. Symp. Recent Adv. in Otitis Media.
165. Jurgisek, J.A., **Bakaletz, L.O.** (2007). The biofilm formed by nontypeable *Haemophilus influenzae* in the middle ear of the chinchilla during experimental otitis media contains dsDNA and type IV pilin protein. Abst. 9th Intl. Symp. Recent Adv. in Otitis Media.
166. Tracy, E.N., Ye, F., **Bakaletz, L.O.**, Munson Jr., R.S. (2007). Efficient construction of non-polar mutants in *Haemophilus influenzae*. Abst. 14th Ann. Midwest Microbial Pathogenesis Mtg.
167. Ye, F., Tracy, E.N., **Bakaletz, L.O.**, Munson Jr., R.S. (2007). Characterization of the competence gene cluster in *Haemophilus influenzae*: role in transformation. Abst. 14th Ann. Midwest Microbial Pathogenesis Mtg.
168. Mason, K.M., Harrison, A., Munson R.S., Jr., **Bakaletz, L.O.** (2008). The Sap binding protein mediates iron homeostasis and influences biofilm formation by nontypeable *Haemophilus influenzae* (NTHi). Abst. 108th General Mtg., Am. Soc. for Microbiol.
169. McGillivray, G., Munson, R.S., Jr., **Bakaletz, L.O.** (2008). sPLUNC-1 is a sialylated peptide secreted abundantly by nasopharyngeal epithelial cells that kills nontypeable *Haemophilus influenzae*. Abst. 108th General Mtg., Am. Soc. for Microbiol.
170. Novotny, L.A., Partida-Sánchez, S., **Bakaletz, L.O.** (2008). Modulation of dendritic cell maturation and function by the OMP P5 adhesin of nontypeable *Haemophilus influenzae*. Abst. 108th General Mtg., Am. Soc. for Microbiol.
171. Jurgisek, J.A., Mason, K.M., **Bakaletz, L.O.** (2008). Sub-lethal concentrations of antimicrobial peptides alter biofilm formation by nontypeable *Haemophilus influenzae*. Abst. 108th General Mtg., Am. Soc. for Microbiol.
172. Novotny, L.A., Tracy, E., Munson, R.S., Jr., Jurgisek, J.A., **Bakaletz, L.O.** (2008). The Role of the Type IV Pilus of Nontypeable *Haemophilus influenzae* in the Pathogenesis of Otitis Media and Protective Efficacy of Novel PilA-Derived Vaccine Candidates. Abst. 1st Intl. Workshop on *Haemophilus influenzae* and *Moraxella catarrhalis*.
173. Novotny, L.A., **Bakaletz, L.O.**, Poolman, J., Denoël, P. (2008). 10-Valent pneumococcal Protein-D conjugate vaccine induces protection against NTHi-induced otitis media in a chinchilla model. Abst. 1st Intl. Workshop on *Haemophilus influenzae* and *Moraxella catarrhalis*.

174. McGillivray, G., **Bakaletz, L.O.** (2008). Determination of the attributes conferred to the uppermost airway-expressed antimicrobial peptide csPLUNC-1 by sialylation, including its ability to kill *Moraxella catarrhalis* and nontypeable *Haemophilus influenzae*. Abst. 1st Intl. Workshop on *Haemophilus influenzae* and *Moraxella catarrhalis*.
175. Jurgisek, J.A., Grieves, J.L., **Bakaletz, L.O.** (2008). Resolution of experimental NTHI-induced OM and eradication of pre-existing middle ear biofilms in chinchillas immunized with a type IV pilus protein-based vaccine candidate. Abst. 1st Intl. Workshop on *Haemophilus influenzae* and *Moraxella catarrhalis*.
176. Mason, K.M., **Bakaletz, L.O.** (2008). The *Haemophilus influenzae* periplasmic Sap protein is essential for both antimicrobial peptide resistance and heme utilization. Abst. 1st Intl. Workshop on *Haemophilus influenzae* and *Moraxella catarrhalis*.
177. Fening, K.M., Novotny, L.A., **Bakaletz, L.O.** (2008). Dendritic cell influence on immune response development following administration of vaccine candidate LB1 for the prevention of otitis media in the chinchilla model. Abst. OSUMC Graduate and Postgraduate Research Day.
178. Johnston, J.W., Mootz, J.M., Jurgisek, J.A., **Bakaletz, L.O.**, Munson, R.S., Jr., Apicella, M.A. (2008). Characterization of a novel biofilm to planktonic signaling pathway of nontypeable *Haemophilus influenzae*. Abst. International *Pasteurellaceae* Society 2008 Meeting.
179. McGillivray, G., **Bakaletz, L.O.** (2009). *Streptococcus pneumoniae* desialylates and degrades the antimicrobial peptide csPLUNC-1 as a mechanism of immune evasion. Abst. Gordon Research Conference, Understanding Health and Disease Through Antimicrobial Host Defense Peptides.
180. Das, S., Jurgisek, J.A., McGillivray G., **Bakaletz, L.O.** (2009). Development of a chinchilla model to allow direct, continuous imaging of fluorescent non-typeable *Haemophilus influenzae* during experimental chronic rhinosinusitis. Abst. Rhinoworld 2009.
181. DeRocco, J.A., **Bakaletz, L.O.** (2009). Host microenvironmental cues modulate expression of nontypeable *Haemophilus influenzae* outer membrane and adhesin proteins. Abst. Sixth Extraordinary Intl. Symp. Recent Adv. in Otitis Media.
182. McGillivray, G., **Bakaletz, L.O.** (2009). Targeted delivery of silencing RNA to knock down expression of a chinchilla sialylated antimicrobial peptide to reveal its role in otitis media caused by NTHI. Abst. Sixth Extraordinary Intl. Symp. Recent Adv. in Otitis Media.
183. Novotny, L.A., **Bakaletz, L.O.** (2009). A novel transcutaneous immunization regimen with OMP P5 and type IV pilus-derived immunogens confers protection against nontypeable *Haemophilus influenzae*-induced otitis media. Abst. Sixth Extraordinary Intl. Symp. Recent Adv. in Otitis Media.
184. Jurgisek, J.A., Grieves, J.L., **Bakaletz, L.O.** (2009). Immunization with a type IV pilus protein-based vaccine candidate effectively eradicates established NTHI biofilms from the chinchilla middle ear. Abst. Sixth Extraordinary Intl. Symp. Recent Adv. in Otitis Media.
185. Johnson, R.W., Bevins, C.L., Kays, R.J., McBride, K.L., **Bakaletz, L.O.** (2009). Susceptibility to otitis media is associated with a gene copy number variation in the β -defensin gene cluster. Abst. Sixth Extraordinary Intl. Symp. Recent Adv. in Otitis Media.
186. Das, S., McGillivray, G., Jurgisek, J.A., **Bakaletz, L.O.** (2009). Neutrophil-derived antimicrobial peptides are novel components of the extracellular matrix of NTHI-induced biofilms and are associated with dsDNA. Abst. Sixth Extraordinary Intl. Symp. Recent Adv. in Otitis Media.
187. DeRocco, A.J., Bruggeman, M.E., Tracy, E.N., Munson Jr., R.S., **Bakaletz, L.O.** (2009). The Virulence-Associated Autotransporter Lav is Critical for Nontypeable *Haemophilus influenzae* Colonization of the Mammalian Nasopharynx. Abst. 109th General Meeting, American Society for Microbiology.
188. Ganser, K., Tracy, E.N., Jacobs, B., Munson, Jr., R.S., **Bakaletz, L.O.** (2009). Characterizing the biological role(s) of the products of genes within the Type IV pilus regulon of nontypeable *Haemophilus influenzae* strain 86-028NP. Abst. 109th General Meeting, American Society for Microbiology.
189. McGillivray, G, Mason, K.M., Jurgisek, J.A., Peebles, M.E., **Bakaletz, L.O.** (2009). Nontypeable *Haemophilus influenzae* colonization of the upper airway is augmented by RSV-induced dysregulation of expression of a mucosal β -defensin. Abst. 109th General Meeting, American Society for Microbiology.
190. Grieves, J.L., Jurgisek, J.A., Martinez-Sobrido, L., Garcia-Sastre, A., Durbin, J.E., **Bakaletz, L.O.** (2009). An intranasal vaccine candidate protects the upper airway from infection with respiratory syncytial virus through induction of a mucosal adaptive immune response. Abst. 109th General Meeting, American Society for Microbiology.
191. Jurgisek, J.A., Das, S., **Bakaletz, L.O.** (2009). Neutrophils contribute double stranded DNA (dsDNA) to the biofilm matrix formed by nontypeable *Haemophilus influenzae*. Abst. 109th General Meeting, American Society for Microbiology.

192. Novotny, L.A., **Bakaletz, L.O.** (2009). A novel transcutaneous immunization regimen elicits a mucosal and systemic immune response that confers protection against nontypeable *Haemophilus influenzae*-induced otitis media. Abst. 109th General Meeting, American Society for Microbiology.
193. Johnson, R.W., **Bakaletz, L.O.** (2009). Determination of the expression and biological role of protein D/glycerophosphodiester phosphodiesterase in nontypeable *Haemophilus influenzae*-induced otitis media. Abst. 109th General Meeting, American Society for Microbiology.
194. Harrison, A., **Bakaletz, L.O.**, Munson Jr., R.S. (2009). The RNA chaperone Hfq and post-transcriptional regulation of gene expression in nontypeable *Haemophilus influenzae*. Abst. 109th General Meeting, American Society for Microbiology.
195. Tracy, E.N., Miller, M., Saldivar, J., **Bakaletz, L.O.**, Munson Jr., R.S. (2009). The *pil* cluster of nontypeable *Haemophilus influenzae*. Abst. 109th General Meeting, American Society for Microbiology.
196. Dickson, A.C., Novonty, L.A., **Bakaletz, L.O.** (2010). Defining the immune correlates of protection induced by nontypeable *Haemophilus influenzae* OMP P5- and type IV pilus-derived immunogens during experimental otitis media. Abst. 110th General Meeting, American Society for Microbiology.
197. Jurgisek, J.A., Dickson, A.C., Novotny, L.A., **Bakaletz, L.O.** (2010). Defining the mechanism(s) for eradication of biofilms by immune targeting of the nontypeable *Haemophilus influenzae* type IV pilus protein PilA. Abst. 110th General Meeting, American Society for Microbiology.
198. Carruthers, M.D., Tracy, E.N., **Bakaletz, L.O.**, Munson Jr., R.S. (2010). Characterization of ComE, the putative type IV pilus secretin of nontypeable *Haemophilus influenzae*. Abst. 110th General Meeting, American Society for Microbiology.
199. Jordan, Z.B., McGillivray, G., Durbin, J.E., **Bakaletz, L.O.** (2010). Expression of the gene that encodes the anti-viral protein Viperin is upregulated in the mammalian airway in response to infection with respiratory syncytial virus. Abst. 110th General Meeting, American Society for Microbiology.
200. McGillivray, G., **Bakaletz, L.O.** (2010). Defining the roles of the multifunctional sPLUNC-1 protein in host defense against nontypeable *Haemophilus influenzae*-induced otitis media. Abst. 110th General Meeting, American Society for Microbiology.
201. Novotny, L.A., Clements, J.D., **Bakaletz, L.O.** (2010). Protection and therapeutic efficacy of transcutaneous immunization against nontypeable *Haemophilus influenzae*-induced otitis media. Abst. 110th General Meeting, American Society for Microbiology.
202. Novotny, L.A., Clements, J.D., **Bakaletz, L.O.** (2010). Transcutaneous immunization as a regimen to prevent and treat *Haemophilus influenzae*-induced otitis media. Abst. Immunological Mechanisms of Vaccination, Keystone Symposia on Molecular and Cellular Biology.
203. Carruthers, M.D., Munson Jr., R.S., **Bakaletz, L.O.** (2011). Nontypeable *Haemophilus influenzae* type IV pili: biogenesis of a critical colonization factor. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
204. Dickson, A.C., Staffen, D.J., Novotny, L.A., Clements, J.D., **Bakaletz, L.O.** (2011). Sublingual immunization as a novel and noninvasive method to prevent experimental nontypeable *Haemophilus influenzae*-induced otitis media. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
205. Jones, E.A., McGillivray, G., **Bakaletz, L.O.** (2011). Extracellular DNA in a nontypeable *Haemophilus influenzae*-induced biofilm serves as a cationic sink for host defense peptides. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
206. McGillivray, G., Jordan, Z.B., **Bakaletz, L.O.** (2011). Replication of respiratory syncytial virus, a viral co-pathogen of otitis media, is inhibited by the novel host defense molecule Viperin. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
207. Jurgisek, J.A., Oberfell, K., Goodman, S.D., **Bakaletz, L.O.** (2011). Immune targeting of integration host factor disrupts the architecture of biofilms formed by nontypeable *Haemophilus influenzae*. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
208. Oberfell, K., Jurgisek, J.A., Goodman, S.D., **Bakaletz, L.O.** (2011). Biofilms formed *in vitro* by bacterial strains that cause otitis media are eradicated by treatment with antibodies directed against integration host factor protein. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
209. Brockson, M.E., Jurgisek, J.A., McGillivray, G., **Bakaletz, L.O.** (2011). Respiratory Syncytial Virus promotes ascension of *Moraxella catarrhalis* into the chinchilla middle ear in a polymicrobial model of experimental otitis media. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
210. Rosas, L.E., Das, S., **Bakaletz, L.O.** (2011). Using proteomics to identify a nontypeable *Haemophilus influenzae* specific signature in infectious diseases of the upper airway. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
211. Novotny, L.A., Clements, J.D., **Bakaletz, L.O.** (2011). Preventative and therapeutic application of

- transcutaneous immunization against experimental nontypeable *Haemophilus influenzae*- induced otitis media. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
212. Mullins, M.A., Jordan, Z.B., **Bakaletz, L.O.** (2011). Expression of critical nontypeable *Haemophilus influenzae* virulence determinants is altered in an *in vitro* model of the polymicrobial disease otitis media. Abst. 10th Intl. Symp. Recent Adv. in Otitis Media.
213. Fox, K., Srikhanta, Y., Eckert, A., **Bakaletz, L.O.**, Jennings, M. (2011). The role of phase variation of LPS biosynthetic genes in progression of nontypeable *Haemophilus influenzae* from the nasopharynx to the middle ear of human patients. Abst. IPC 2011.
214. Novotny, L.A., Clements, J.D., **Bakaletz, L.O.** (2011). Unraveling the mechanisms that underlie how transcutaneous immunization induces rapid resolution of existing biofilms present in the middle ear during experimental otitis media due to nontypeable *Haemophilus influenzae*. Abst. Skin Vaccination Summit 2011.

Book Chapters

- Bakaletz, L.O.** Contributor to chapter - *Moraxella catarrhalis* and non-typable *Haemophilus influenzae* vaccines to prevent otitis media. In: Levine, M.M., Dougan, G., Good, M.F., Liu, M.A., Nabel, G.J., Nataro, J.P. and Rappuoli, R., *New Generation Vaccines 4th ed.* Informa Healthcare, New York, NY (2009).
- Bakaletz, L.O.** Peptide Vaccine for Otitis Media. In: Kastin, A.J. ed., *Handbook of Biologically Active Peptides.* Elsevier, San Diego (2006).
- Bakaletz, L.O.** Otitis Media. In: Brogden, K.A. and J.M. Guthmiller, eds., *Polymicrobial Diseases.* American Society for Microbiology Press, Washington, D.C. (2002).

Volumes Edited or Co-Edited

- Recent Advances in Otitis Media – Proc. of the Eighth Intl. Symp., B.C. Decker Inc., 2005.
- Recent Advances in Otitis Media – Proc. of the Seventh Intl. Symp. B. C. Decker Inc., 2002.
- Recent Advances in Otitis Media – Proc. of the Sixth Intl. Symp. B. C. Decker Inc., 1996.
- Recent Advances in Otitis Media – Proc. of the Fifth Intl. Symp. Decker Periodicals, 1993.
- Recent Advances in Otitis Media – Proc. of the Fourth Intl. Symp. B.C. Decker Inc, 1988.

Invited Presentations

- “Recent advances in otitis media: Microbiology, immunology and animal models”. HinMax2011, Curacao, Netherlands Antilles, August 10-11, 2011.
- “Targeting the nontypeable *Haemophilus influenzae* biofilm for development of novel preventative and therapeutic vaccine candidates”. University of Toledo, April 6, 2011.
- “Targeting the nontypeable *Haemophilus influenzae* biofilm for development of novel preventative and therapeutic vaccine candidates”. University of Toronto Dean’s Lecture Series, March 22, 2011.
- “Targeting the nontypeable *Haemophilus influenzae* biofilm for development of novel preventative and therapeutic vaccine candidates”. SUNY Buffalo, March 10, 2011.
- “Developing a vaccine that targets a bacterial biofilm protein for prevention of otitis media”. Microbial Infectious Disease Seminar, University of Southern California, October 26, 2010.
- “Role of the type IV pilus of nontypeable *H. influenzae* in the pathogenesis of otitis media and prospects for vaccine- mediated prevention”. Dept. of Microbiology, Immunology & Molecular Genetics, University of Kentucky, March 9, 2010.
- “Targeting a *Haemophilus influenzae* protein expressed during biofilm growth *in vivo* for development of a vaccine for otitis media”. 5th ASM Conference on Biofilms, Cancun, Mexico, November 15-19, 2009.
- “Role of the type IV pilus of nontypeable *H. influenzae* in the pathogenesis of otitis media and prospects for vaccine- mediated prevention”. Seattle Children’s Research Institute, October 14, 2009.
- “Mechanisms by which upper respiratory tract viruses predispose to otitis media due to nontypeable *Haemophilus influenzae*”. 2nd Co-Infections Meeting, St. Jude Children’s Research Hospital, Memphis, TN, May 28-29, 2009.

- "Updates to our understanding of the pathogenesis of otitis media caused by nontypeable *Haemophilus influenzae* and recent development in approaches for prevention". 6th Extraordinary International Symposium on Recent Advances in Otitis Media, Seoul, Korea, May 6-10, 2009.
- "Feasibility of intranasal immunization against nontypeable *Haemophilus influenzae*-induced otitis media". 6th Extraordinary International Symposium on Recent Advances in Otitis Media, Seoul, Korea, May 6-10, 2009.
- "Role of the type IV pilus of nontypeable *H. influenzae* in the pathogenesis of otitis media and prospects for anti-PilA mediated treatment or prevention". Molecular Virology and Microbiology 5th Annual Retreat, University of Pittsburgh School of Medicine, May 1, 2009.
- "Middle ear host defense and otitis media", Gordon Research Conference, Understanding Health and Disease Through Antimicrobial Host Defense Peptides, Ventura, CA, March 1-6, 2009.
- "Role of innate immunity in the pathogenesis and prevention of otitis media due to nontypeable *Haemophilus influenzae*". US Japan ARI Panel Meeting, Chiba City, Japan, February 16-17, 2009.
- "Role of biofilms in otitis media: evidence and relevance". House Ear Institute Biofilm Workshop, Los Angeles, CA, December 4, 2008.
- "Role of the type IV pilus of nontypeable *H. influenzae* in the pathogenesis of otitis media and prospects for anti-PilA mediated treatment or prevention". Microbiology and Molecular Genetics Fall Seminar Series, Emory University, November 17, 2008.
- "Role of the type IV pilus of nontypeable *Haemophilus influenzae* in the pathogenesis of otitis media and protection afforded by novel PilA-derived vaccine candidates". University of Georgia, Department of Infectious Diseases, November 3, 2008.
- "Role of the type IV pilus of *Haemophilus influenzae* in the pathogenesis of otitis media and its protective potential as a vaccine candidate". ID Grand Rounds - David Geffen School of Medicine at UCLA, Los Angeles, CA, September 26, 2008.
- "The role of the type IV pilus of nontypeable *Haemophilus influenzae* in the pathogenesis of otitis media and protective efficacy of novel PilA-derived immunogens". 20th Annual Buffalo Conference on Microbial Pathogenesis, Buffalo, NY, April 30, 2008.
- "Role of biofilms in otitis media: Evidence and Relevance". 1st Global Master Class on Childhood Bacterial Respiratory Diseases, Brussels, Belgium, March 28-31, 2008.
- "Current understanding of the molecular mechanisms of the pathogenesis of nontypeable *Haemophilus influenzae*-induced otitis media and recent advances in prospects for prevention". OSU Department of Otolaryngology Grand Rounds, Columbus, Ohio, March 6, 2008.
- "The Role of the Type IV Pilus of Nontypeable *Haemophilus influenzae* in the Pathogenesis of Otitis Media and Protective Efficacy of Novel PilA-Derived Immunogens". U.S.-Japan ARI Subcommittee Meeting, Bethesda, MD, February 25, 2008.
- "Developing a vaccine candidate for the prevention of nontypeable *Haemophilus influenzae*-induced otitis media". OSU Department of Speech and Hearing, Columbus, Ohio, January 24, 2008.
- "Ear infections: On the threshold of a cure". Dinner with the Docs, New Albany Country Club, Columbus, OH, October 23, 2007.
- "Recurrent and persistent OM: understanding the role of biofilms". Second AOM Working Group Meeting, Tampa, Florida, June 3, 2007.
- "Characterizing the role of the type IV pilus of nontypeable *Haemophilus influenzae* in the pathogenesis of otitis media". Indiana University School of Medicine, Department of Microbiology and Immunology, April 12, 2007.
- "The role of bacterial biofilms in chronic and recurrent otitis media". GSK Satellite Symposium, 17th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Munich, Germany, April 1, 2007.
- "Developing a vaccine candidate for the prevention of nontypeable *Haemophilus influenzae*-induced otitis media". Department of Medical Genetics & Microbiology University of Toronto, Toronto, ON, March 12-13, 2007.
- "Characterizing the role of the type IV pilus of nontypeable *Haemophilus influenzae* in the pathogenesis of otitis media". Department of Medical Genetics & Microbiology University of Toronto, Toronto, ON, March 12-13, 2007.
- "Mechanisms of upper respiratory tract viral predisposition to bacterial superinfection of the mammalian airway". U.S.-Japan ARI Subcommittee Meeting, Osaka, Japan - January 22-23, 2007.
- "Using a chinchilla superinfection model to study NTHI-induced otitis media and its prevention". University of California, Davis, Sacramento, CA, Oct. 31, 2006.
- "Preclinical studies of Protein D as a candidate vaccine for prevention of NTHI disease". GSK Advisory Board Meeting for Acute Otitis Media, Paris, France, June 23-24, 2006.

- "Using a chinchilla superinfection model to study NTHI-induced otitis media and its prevention". The University of Texas Southwestern Medical Center, Dallas, Texas, April 25, 2006.
- "NTHI-induced diseases of the respiratory tract – Prospects for prevention". 45th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Washington, DC, December 16-19, 2005.
- "Using a chinchilla superinfection model to study NTHI-induced otitis media and its prevention". ASM Conference on Pasteurellaceae 2005, Kona, HI, October 23-26, 2005.
- "Synergistic relationship between upper respiratory tract viruses and the bacteria that cause otitis media". Infectious Dis. Society of America (IDSA) 43rd Annual Meeting, San Francisco, CA, October 6-9, 2005.
- "Demonstration of type IV pilus expression and a twitching phenotype by *Haemophilus influenzae*". Fifth Extraordinary International Symposium on Recent Advances in Otitis Media, Amsterdam, The Netherlands, April 24-27, 2005.
- "Developing models of viral-bacterial synergy in the chinchilla host to study the pathogenesis and prevention of otitis media". St. Jude Children's Research Hospital, Memphis, TN, February 9-10, 2005.
- "Identifying Vaccine Candidates to Prevent Infection of the Middle Ear (Otitis Media)". 1st Annual Venture Conf. at the Fisher College of Business, The Ohio State University, Columbus, OH, October 29, 2004.
- "Developing models of viral-bacterial synergy in the chinchilla host to study the pathogenesis and prevention of otitis media". Medimmune, Inc., Gaithersburg, MD, September 29, 2004.
- "Development and use of an animal model of viral-bacterial synergy for otitis media due to nontypeable *Haemophilus influenzae*". 8th Annual Meeting of the US/Japan Cooperative Medical Science Program, Acute Respiratory Infections Panel. San Francisco, CA, March 21-22, 2004.
- "Development of chinchilla models of viral-bacterial synergy to test vaccine candidates for prevention of nontypeable *Haemophilus influenzae*-induced otitis media". University of North Carolina, Chapel Hill, NC, November 21, 2003.
- "Otitis Media". ASM Conference on Polymicrobial Diseases, Lake Tahoe, NV, October 20, 2003.
- "Vaccines for Otitis Media", Multidisciplinary Symposium on Otitis Media & Sinusitis, Wayne State University, Detroit, MI, October 1, 2003.
- "New vaccine developments for the prevention of infectious diseases important to ENT" in section on Infectious Diseases in Otolaryngology: Beyond Bugs and Drugs presented at the American Academy of Otolaryngology - Head and Neck Surgery Foundation 2003 Annual Meeting and OTO Expo, Orlando, FL, September 23, 2003.
- "Development and use of an animal model of viral-bacterial synergy to test nontypeable *H. influenzae* adhesin-based vaccine candidates for OM". Cold Spring Harbor Laboratory, Long Island, NY, Sept. 12, 2003.
- "Developing a peptide vaccine to prevent nontypeable *Haemophilus influenzae*-induced otitis media". The Ohio State University, College of Medicine and Public Health, Department of Molecular Virology, Immunology and Medical Genetics, Columbus, OH, November 6, 2002.
- "Assessing the immune response to a nontypeable *Haemophilus influenzae* adhesin-derived immunogen when delivered intranasally as a microaerosolized spray to the chinchilla host". 3rd World Congress on Vaccines & Immunisation, Opatija, Adriatic Riviera, Croatia, June 4-9, 2002.
- "Nontypeable *Haemophilus influenzae*-induced otitis media: molecular methods of pathogenesis and strategies for prevention as derived from chinchilla models". Center for Genomic Sciences, Allegheny General Hospital, Pittsburgh, PA, May 20, 2002.
- "Otitis media: interaction between viruses and bacteria in an animal model". GlaxoSmithKline Biologicals Second Extramural Symposium, Rixensart, Belgium, April 22-23, 2002.
- "Epitope-targeting strategy for design of the modern peptide-based vaccine against nontypeable *H. influenzae*". Institute of Immunology, Zagreb, Croatia, June 13, 2001.
- "Using an epitope-targeting strategy to develop a vaccine component for otitis media due to nontypeable *Haemophilus influenzae*". University of Rochester Medical Center, Rochester, NY, February 26, 2001.
- "Epitope-targeted vaccine strategy for nontypeable *Haemophilus influenzae*. New Paradigms in Infectious Disease: Applications to Otitis Media. Pittsburgh, PA, October 15, 2000.
- "Peptide and recombinant antigens for protection against bacterial middle ear infection". Millennium World Congress on Vaccines & Immunisation, Liege, Belgium, Sept. 1, 2000.
- "Developing an adhesin-based vaccine component directed against nontypeable *Haemophilus influenzae*-induced otitis media", Merck Research Laboratories, Rahway, NJ, June 27, 2000.
- "Developing an Otitis Media Vaccine Directed Against a Bacterial Adhesin". Meeting of Children's Research Institute Board of Trustees, Columbus, OH, April 21, 2000.

- "Developing a Bacterial Vaccine to Prevent Middle Ear Infections". Columbus Children's Hospital Meeting of Joint Boards of Trustees, Columbus, OH, December 9, 1999.
- "Developing an otitis media vaccine directed against a bacterial adhesin". The Child Health Research Center Speaker Series, Children's Research Institute, Columbus, OH, October 21, 1999.
- "Developing an otitis media vaccine directed against a bacterial adhesin". The Ohio State University, Sixth Annual Department of Otolaryngology Alumni Symposium, Columbus, OH, June 12, 1998.
- "Recent advances in the pathogenesis of otitis media". CME Conference on Current Concepts in Adult and Pediatric Infectious Disease of the Head and Neck, Akron, OH, November, 1, 1997.
- "Carrier states and complicated infections". 1996 *Haemophilus, Actinobacillus and Pasteurella* (HAP) International Conference, Acapulco, Mexico, October 14, 1996.
- "Modeling of NTHi-induced otitis media and progress toward development of a vaccine". Miami University, Oxford, OH, September 18, 1996.
- "Results of assessment of the protective efficacy of Fimbrin and LPD used as immunogens against Experimental Otitis Media in a Chinchilla Model". SmithKline Beecham Biologicals, Rixensart, Belgium, March 25, 1996.
- "Pathogenesis and prevention of nontypable *Haemophilus influenzae*-induced otitis media." Seminar, Department of Microbiology, The Ohio State University, Columbus, OH, September 28, 1995.
- "Relative importance and specificity of adherence and nasopharyngeal colonization among the etiologic agents of otitis media in exptl. models." NEOSE Tech., Inc. Horsham, PA, August 14, 1995.
- "Chinchilla modeling of vaccine efficacy versus otitis media". SmithKline Beecham Biologicals, Rixensart, Belgium, June 3, 1994.
- "Importance of different microbial immunity determinants in protection from otitis media." VI International Congress of Pediatric Otorhinolaryngology, Rotterdam, The Netherlands, May 30 - June 2, 1994.
- "Chinchilla model for testing vaccine candidates against otitis media". Novel Vaccine Strategies: New Advances in Vaccine Technologies and Applications, Washington DC, February 23-24, 1994.
- "The effect of immunization with fimbrial protein in a chinchilla model of nontypable *H. influenzae*-induced experimental OM." 2nd Extraordinary Intl. Symp. Recent Adv. in Otitis Media, Oita, Japan, April 2, 1993.
- "Synergistic effect of adenovirus type 1 on experimental nontypable *H. influenzae*-induced otitis media in the chinchilla." Kagoshima ENT Meeting, Kagoshima University, Kagoshima, Japan, March 30, 1993.
- "Role of fimbriae in the pathogenesis of nontypable *Haemophilus influenzae*-induced otitis media." Nagoya City University Medical School, Nagoya, Japan, March 27, 1993.
- "Modeling otitis media in the chinchilla." Ross Laboratories, Columbus, OH, May 12, 1992.
- "Inhibition of adherence of nontypable *H. influenzae* to mucosal epithelial cells." Ross Laboratories, Columbus, OH, August 21, 1991.
- "Cloning and sequence analysis of a fimbrial gene from nontypable *Haemophilus influenzae* strain #1128." Epidemiology, Pathogenesis and Prevention of *Haemophilus influenzae* Disease, Eindhoven, The Netherlands, September 24-28, 1990.
- "Pathogenesis of otitis media induced by nontypable *H. influenzae*." Grand Rounds, Department of Otolaryngology, The Ohio State University, Columbus, OH, May 23, 1990.
- "Pathogenesis of NTHi - induced Otitis Media." Praxis Laboratories. Rochester, NY, March 30, 1990.
- "Role of fimbriae in nontypable *Haemophilus influenzae* - induced otitis media." Resident Research Forum, Department of Otolaryngology, The Ohio State University, Columbus, OH, October 26, 1987.

Support

Current

1. "Determinants of *H. influenzae* Virulence in Otitis Media"
P.I.: Lauren O. Bakaletz, Ph.D. (30% effort) Dates: 9/30/99 – 11/30/14
Agency: NIH/NIDCD
Direct Costs: \$5,169,836
2. "Determinants of *H. influenzae* Virulence in Otitis Media Supplement" (Jennings)
P.I.: Lauren O. Bakaletz, Ph.D. (5% effort WOC) Dates 7/17/09 – 8/31/10, NCE to 2/28/11
Agency: NIH/NIDCD
Direct Costs: \$232,184
3. "Antimicrobial Peptides & Innate Immunity in Otitis Media"

- P.I.: Lauren O. Bakaletz, Ph.D. (30% effort) Dates: 9/20/02 – 8/31/13
Agency: NIH/NIDCD
Direct Costs: \$3,324,547
4. “Antimicrobial Peptides & Innate Immunity in Otitis Media Supplement” (Das)
P.I.: Lauren O. Bakaletz, Ph.D. (WOC) Dates: 4/1/09 – 8/31/11
Agency: NIH/NIDCD
Direct Costs: \$308,000
 5. “RSV Upper Airway Infection & Otitis Media”
P.I.: Lauren O. Bakaletz, Ph.D. (11% effort) & Joan Durbin, M.D., Ph.D. Dates: 1/1/04 – 11/30/10, NCE to 11/30/11
Agency: NIH/NIDCD
Direct Costs: \$1,755,112
 6. “NTHI Type IV Pili: Expression and Vaccine Potential”
P.I.: Robert S. Munson Jr., Ph.D. Dates: 12/1/05 – 11/30/10, NCE to 11/30/11
Co-Investigator: Lauren O. Bakaletz, Ph.D. (13% effort)
Agency: NIH/NIDCD
Direct Costs: \$1,559,086
 7. “Genetics and Biology of *M. catarrhalis* LOS in Otitis Media”
P.I.: Anthony A. Campagnari, Ph.D. Dates: 12/1/07 – 11/30/12
Co-Investigator : Lauren O. Bakaletz, Ph.D. (2% effort)
Agency: NIH/NIDCD
Direct Costs: \$28,516
 8. “10th International Post-Symposium Research Conference on Recent Advances in Otitis Media”
P.I.: Lauren O. Bakaletz, Ph.D. (5% effort WOC) Dates: 12/13/10 - 11/30/11)
Agency: NIH/NIDCD
Direct Costs: \$40,000
 9. “Novel immunotherapeutics for the management of otitis media due to *H. influenzae*”
P.I.: Lauren O. Bakaletz, Ph.D. (20% effort) & Steven D. Goodman, Ph.D. Dates: 7/1/11 – 6/30/16
Agency: NIH/NIDCD **Pending Council Review**
Direct Costs: \$2,565,227

Submitted but not funded

1. “Mucins, Sialic Acid and *H. influenzae* Virulence”
P.I.: Michael A. Apicella, M.D. Dates: 12/1/06 – 11/30/11
Co-Investigator: Lauren O. Bakaletz (2 % effort)
Agency: NIH/NIAID
Direct Costs: \$139,004 Score: 180
2. “BIAcore 3000”
P.I.: Lauren O. Bakaletz, Ph.D. Dates: 4/01/01 – 3/31/02
Agency: NIH/NIDCD
Direct Costs: \$260,000

Past

1. “Assessment of a Novel Candidate Antigen Combination for the Prevention of Experimental NTHI-induced Otitis Media”
P.I.: Lauren O. Bakaletz, Ph.D. (10% effort) Dates: 6/1/10 – 12/31/10
Agency: GlaxoSmithKline Biologicals
Direct Costs: \$195,997

2. "Studies on the Biology and Immunogenicity of NTHi"
P.I.: Michael A. Apicella, M.D. Dates: 7/1/03 – 7/31/10
Co-Investigator: Lauren O. Bakaletz, Ph.D. (1% effort)
Agency: NIH/NIAID/DMID
Direct Costs: \$1,688,829
3. "Assessment of Several Targeted and Novel Candidate Antigens for the Prevention of NTHi-induced Otitis Media"
P.I.: Lauren O. Bakaletz, Ph.D. (5% effort) Dates: 6/1/07 – 5/31/10
Agency: GlaxoSmithKline Biologicals, S.A.
Direct Costs: \$503,634
4. "*M. catarrhalis* pili: Role in colonization and infection"
P.I.: Anthony A. Campagnari, Ph.D. Dates: 4/1/06 – 3/31/10 (NCE)
Co-Investigator: Lauren O. Bakaletz (1% effort)
Agency: NIH/NIDCD
Direct Costs: \$72,950
5. "Assessment of the Relative Ability of Pediatric Immune Serum Pools Directed against either the POET or Streptorix formulations of GSK's pneumococcal polysaccharide-protein D conjugate vaccine to protect against ascending otitis media in a chinchilla passive transfer-superinfection model"
P.I.: Lauren O. Bakaletz, Ph.D. (10% effort) Dates: 6/1/06 – 5/31/07
Agency: GlaxoSmithKline Biologicals, S.A.
Direct Costs: \$107,049
6. "Molecular Pathogenesis of *H. influenzae* Hemoglobin Binding"
P.I.: Terrence Stull, M.D. Dates: 7/1/05 - 6/30/06
Co-Investigator: Lauren O. Bakaletz (2% effort)
Agency: NIH/NIAID/NICMH
Direct Costs: \$35,712 (subcontract)
7. "Immune dampening OMPs of non-typeable *H. influenzae*"
P.I.: Peter Nara, D.V.M., Ph.D. Dates: 7/15/03 – 6/30/06
Co-Investigator: Lauren O. Bakaletz (7% WOC)
Agency: NIH (SBIR)
Direct Costs: \$87,469
8. Assessment of Relative Immunogenicity and Efficacy of an NTHi Immunogen and Two Test Adjuvants Delivered Intranasally to the Chinchilla Host"
P.I.: Lauren O. Bakaletz (25% effort) Dates: 2/1/02 – 10/31/03
Agency: GlaxoSmithKline Biologicals
Direct Costs: \$208,225
9. "Molecular Pathogenesis of *H. influenzae* Hemoglobin Binding"
P.I.: Terrence Stull, M.D. Dates: 7/1/00 – 5/31/03
Co-Investigator: Lauren O. Bakaletz (5% effort)
Agency: NIH/NIAID/NICMH
Direct Costs: \$27,676 (subcontract)
10. "Continued Evaluation of NTHi Immunogens"
P.I.: Lauren O. Bakaletz, Ph.D. (35% effort) Dates: 3/1/00 – 2/28/02
Agency: SmithKline Beecham Biologicals
Direct Costs: \$245,886
11. "Determinants of *H. influenzae* Virulence in Otitis Media" *NTHi Sequencing Supplement*

- P.I.: Lauren O. Bakaletz (5% effort) Dates: 12/1/00-8/31/01
Agency: NIH/NIDCD
Direct Costs: \$85,702
12. "Determinants of *H. influenzae* Virulence in Otitis Media" *DNA Microarray Supplement*
P.I.: Lauren O. Bakaletz (5% effort) Dates: 9/1/00-8/31/01
Agency: NIH/NIDCD
Direct Costs: \$32,787
13. "Development of a Fimbrin Vaccine against Otitis Media"
P.I.: Lauren O. Bakaletz (35% effort) Dates: 2/1/96 - 1/31/01
Agency: NIH/NIDCD
Direct Costs: \$491,766
14. "Determinants of *H. influenzae* Virulence in Otitis Media"
P.I.: Lauren O. Bakaletz (25% effort) Dates: 9/1/99-8/31/00
Agency: NIH/James A. Shannon Award
Direct Costs: \$80,000
15. "Synthesis of PK1TT3, PK2TT3, MVF-PK1 and MVF-PK2"
P.I.: Lauren O. Bakaletz, Ph.D. Dates: 11/1/99-12/31/99
Co-P.I.: Pravin Kaumaya, Ph.D.
Agency: SmithKline Beecham Biologicals
Direct Costs: \$32,699
16. "Recent Advances in Otitis Media-Research Conference Grant"
P.I.: David J. Lim Dates: 7/1/99-6/30/00
Co-P.I.: Lauren O. Bakaletz
Agency: NIH/NIDCD
Direct Costs: \$30,000
17. "Assessment of cross-protective efficacy of LB1 and LPD-LB1(f)_{2,1,3} as parenteral immunogens against development of OM induced by NTHi strains representing LB1(f) groups 1, 2, and 3"
P.I.: Lauren O. Bakaletz (20% effort) Dates: 7/1/98 – 12/31/99
Agency: SmithKline Beecham Biologicals
Direct Costs: \$167,172
18. "Assessment of Relative Efficacy of NTHi OMP26 , LB1 or LPD-LB1(f)_{2,1,3} as Immunogens Against NTHi-Induced OM in Chinchilla Models of Active and Passive Immunization & Assessment of Four *M. catarrhalis* Antigens as Immunogens Against Nasopharyngeal Colonization"
P.I.: Lauren O. Bakaletz (15% effort) Dates: 11/1/98 – 10/31/99
Agency: SmithKline Beecham Biologicals/CORTECS
Direct Costs: \$171,375
19. "Antibiotic Efficacy versus Nontypeable *Haemophilus influenzae* in the Chinchilla Nasopharyngeal Colonization Model"
P.I.: Lauren O. Bakaletz (10% effort) Dates: 12/1/98 – 11/30/99
Agency: SmithKline Beecham Pharmaceuticals
Direct Costs: \$74,182
20. "Assessment of Efficacy of Fusion Peptides as Systemic and/or Mucosal Immunogens against Nasopharyngeal Colonization by NTHi in a Chinchilla Model"
P.I.: Lauren O. Bakaletz Dates: 6/1/96 - 12/31/98
Agency: SmithKline Beecham Biologicals
Direct Costs: \$229,049

