

CURRICULUM VITAE

Michael Leonidas Chikindas

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EDUCATION

- 1982 – 1984** Ph.D. Student, Research Institute of Genetics and Selection of Industrial Microorganisms (VNIIGenetika) of the Ministry of Medical and Microbiological Industry, Moscow, Russia
- 1976-1981** B.S. and M.S. Student, Department of Genetics, Faculty of Biology, Yerevan State University, Yerevan, Republic of Armenia

DEGREES AND QUALIFICATIONS

- 1987** Ph.D. in Genetics, awarded by VNIIGenetika, Moscow, Russia. Dissertation "Structural Organization of the Riboflavin Biosynthesis Operon of *Bacillus subtilis*" (scientific supervisor: Prof. Dr. A.I. Stepanov)
- 1981** Honors Degree (B. Sc. and M.Sc.) in Genetics (*summa cum laude*), awarded by the Yerevan State University, Yerevan, Republic of Armenia

APPOINTMENTS

- 2015 – present** Director, Center for Digestive Health, New Jersey Institute for Food, Nutrition and Health
- 2014 – present** Professor, Department of Food Science, Rutgers University
- 2007 – 2014** Associate Professor (with tenure), Department of Food Science, Rutgers University
- 2001 – 2007** Assistant Professor, Department of Food Science, Rutgers University
- 1998 – 2000** Assistant Research Professor, Department of Food Science, Rutgers University, New Brunswick, USA and an Associate Member of the Faculty (since 1999)
- 1997 – 1998** Post-Doctoral Research Fellow, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, Shreveport, USA
- 1995 – 1997** Researcher, Janssen Research Foundation, Janssen Pharmaceutica, Beerse, Belgium
- 1993 – 1995** Microbial Geneticist, Dental Division, Unilever Research Port Sunlight Laboratory UK
- 1990-1993** Researcher, Department of Genetics, University of Groningen, Groningen, The Netherlands
- 1990** Senior Researcher, Center of Bioengineering, Institute of Molecular Biology, Moscow, Russia
- 1989-1990** Senior Researcher, Head of the Group, Research Center of Molecular Diagnostics of the Ministry of Health, Moscow, Russia
- 1988-1989** Junior Researcher, Research Center of Molecular Diagnostics of the Ministry of Health, Moscow, Russia
- 1985-1987** Junior Researcher, Research Institute of Applied Microbiology of the Ministry of Medical and Microbiological Industry, Obolensk, Russia
- 1982-1984** PhD Student at the Institute of Genetics and Selection of Industrial Microorganisms, Ministry of Medical and Microbiological Industry, Moscow, Russia
- 1976-1981** Laboratory Assistant (part-time), Laboratory of *Pseudomonas* Genetics, Institute of Experimental Biology, Academy of Sciences of Armenia, Yerevan, Republic of Armenia
- 1975-1976** Laboratory assistant, Central Laboratory, The Charentsavan Experimental Microbiological Plant "Lysine", Charentsavan, Republic of Armenia

HONORS

- 2004** Certificate of Appreciation from the Theobald Smith Society (the New Jersey Branch of the American Society for Microbiology) for service to the Society as Local Councilor (2001-2004)
- 2001** Medal awarded by the Yerevan State University (Armenia) in recognition of achievements in research and collaboration with international academia
- 2000** 1st recipient of the Young Investigator Award for the Year 2000, Theobald Smith Society, New Jersey Branch, American Society for Microbiology
- 2000** Certificate "For outstanding contributions to CAFT research conducted as a part of the Cooperative Research Program"

PROFESSIONAL AFFILIATIONS

Society for Applied Microbiology
American Society for Microbiology
Institute of Food Technologists (IFT) - professional member until 2011

SPECIAL TRAINING

"Step-up" Employee Development Programme in Importance of Profit, Unilever Research Port Sunlight Laboratory (21st May 1993), UK

TEACHING EXPERIENCE

- 2016** Short course "Beneficial Microbes in Food and Life" taught at the Southern Federal University (Rostov-on-Don, Russia) September 16-26, 2016.
- 2014 – present** Coordination of the graduate-level course "Beneficial Microbes in Food and Life" (16:400:535)
- 2012 – 2015** Guest Lecturer in Microbial Biotechnology Bio 5502, Temple University, Philadelphia
- 2010 (Fall)** Seminar in Microbial Biology (16:682:520), 10%, Department of Biochemistry and Microbiology
- 2010 (Fall)** Chair of the Graduate Students' Seminar (16:400:601 and 16:400:602), 50%, Department of Food Science, Rutgers
- 2008 – 2010** Participating in the Bergen County Technical School's development and implementation/evaluation of a new four year curriculum in food science
- 2007 – present** Participating in teaching of the Graduate Course Microbial Life (16:682:501), Department of Biochemistry and Microbiology
- 2005 – 2011** Participating in teaching of the General Microbiology Undergraduate Course (11:680:390), Department of Biochemistry and Microbiology, teaching 25%
- 2005 – 2008** Participating in teaching of the Undergraduate Course "Principles of Food Science" (11:400:201), 30%
- 2004 – present** Member of the Teaching Effectiveness and Improvement Committee, Rutgers
- 2004 – 2008** Participating in teaching of the Undergraduate Course "Perspectives in Agriculture and the Environment (11:015:101), Rutgers
- 2003 – present** Invited lecture on Food Biotechnology, Undergraduate Course "Science of Foods" (11:400:103), Department of Food Science, Rutgers
- 2002 – present** Faculty Member, Rutgers/UMDNJ Graduate Program in Molecular Biosciences
- 2001 – present** External Faculty Member for the Department of Biochemistry and Microbiology
- 2001 – present** Coordinator of the Undergraduate Course "Food Microbiology Lab" (11:400:424) Department of Food Science, Rutgers
- 2001 – present** Coordinator of the Undergraduate Course "Food Microbiology" (11:400:423) Department of Food Science, Rutgers

- 2001 (Fall)** Co-chair of the Graduate Students' Seminar (16:400:601 and 16:400:602), 50%, Department of Food Science, Rutgers
- 2001** Teaching part of "Food Biotechnology" course, University of Stellenbosch, South Africa
- 2000 – present** Member of the Cook College (Rutgers) undergraduate students' advisory committee
- 2000** Participant in the "Euromaster" program at the Department of Food Science, Rutgers
- 1999 – 2000** Undergraduate Course "Principles of Food Science", taught 25%, Department of Food Science, Rutgers
- 1999 – present** Graduate Course "Food Biology Fundamentals" (16:400:514), teaching 40%, Department of Food Science, Rutgers
- 1999** Co-chair of the Graduate Students' Seminar (16:400:601 and 16:400:602), 50%, Department of Food Science, Rutgers
- 1999** Co-initiator of the Graduate Course "Microbial Food Safety" (16:400:603), taught 30%, Department of Food Science, Rutgers
- 1997** Introduction lectures (2) in Biotechnology course, University of Ghent, Belgium

REVIEWER AND EDITORIAL BOARD SERVICE

Editorial Board Member

- 2008 – present** Probiotics and Antimicrobial Proteins, Founder and Editor-in-Chief
- 2008 – present** Beneficial Microbes
- 2008 – present** International Journal of Microbiology
- 2004 – 2008** Food Microbiology
- 2004 – present** Applied and Environmental Microbiology
- 1997 – present** Journal of Applied Microbiology
- 1997 – present** Letters in Applied Microbiology

External examiner and reviewer

- 2015 – present** Member of the Science and Technology Expert Committee of the Rostov Institute for Biotechnology, Rostov-Don, Russia
- 2009 – present** External Reviewer, Science Foundation Ireland (SFI)
- 2008 – 2015** External Reviewer, Department of Appointments and Promotions, University of Haifa, Israel
- 2005 – present** External Examiner, University of Otago, New Zealand
- 2005 – present** Member of the Review Committee for the NCCAM NIH grants
- 2004 – present** Reviewer for Natural Sciences and Engineering Research Council, Canada
- 2004 – present** Reviewer for the Netherlands Organisation for Scientific Research (NWO)
- 2003 – 2015** Reviewer for the Chief Scientist of the Israeli Ministry of Agriculture Fund
- 2000 – present** NIH and USDA grants
- 1995 – present** Reviewer for the Foundation for Research Development (NRF), South Africa
- 1995 – present** External Examiner, University of Stellenbosch, South Africa
- 1993 – 2015** Reviewer for the BARD (USA - Israel)

Ad hoc journal reviewer

- 2013 – present** Journal of Medical Microbiology, Plos One, Antiviral Research, Brazilian Journal of Microbiology
- 2009 – present** Expert Opinion on Pharmacotherapy

- 2009 – present** Journal of Basic Microbiology, Antonie van Leeuwenhoek International Journal of General and Molecular Microbiology, Journal of Agricultural and Food Chemistry, Journal of Bacteriology, Antimicrobial Agents and Chemotherapy, Dairy Science and Technology
- 2006 – present** International Journal of Food Science and Technology
- 2005 – present** Acta Pharmacologica Sinica
- 1998 – present** Journal of Food Safety, Current Biotechnology, Molecular Microbiology and Biotechnology, Gene, Journal of Microbiological Methods, International Dairy Journal

GRANTS

Ongoing

“Probiotic microorganisms with anti-oxidant and DNA-protecting activities for the delayed reproductive aging in poultry.” 2016-2018. Russian Science Foundation № 16-16-04032. Role: the U.S. partner group supervisor.

“Synthetic AMPs that Control Biofilms of Gram-variable Pathogens.” 2016-2018. NIH R21 AI126053-01. Role: Co-PI.

“Natural antimicrobials from probiotic bacilli for the control of the periodontal pathogen, *Porphyromonas gingivalis*.” New Jersey Health Foundation. 2016-2018. Role: Co-PI.

“Transforming human gut-friendly *Lactobacillus* to produce beta-carotene.” Busch Biomedical Grant. 2015-2017. Role: Co-PI.

Completed

“Sporeforming probiotics for human health and agriculture.” 2014-2016. Jiangsu Sinoyoung. Role: PI.

“Bacteriocins for control of foodborne pathogens.” NJAES. 2014-2016. Role: PI. \$45,000.

“Biofilm formation and prevention in medical disposable materials.” LifeCell. 2013-2014. Role: PI. \$50,000.

“Promoting children and infant healthy growth with β -carotene-rich probiotics” Bill and Melinda Gates Grand Challenges Explorations (Round 7) Proposal, 2012-2013. Role: Co-PI. \$150,000.

“Multiplex Nanocarrier-based Hydrogels for Prevention of Vaginal HIV Transmission, Highly Innovative Tactics to Interrupt Transmission of HIV (HIT-IT)”, 9/15/09 – 8/31/2013, PHS, National Institute of Allergy and Infectious Diseases 1R01AI084137. Role: Co-PI.

“The natural spermicidal antimicrobial subtilisin controls vaginal infections”. Bill and Melinda Gates Grand Challenges Explorations (Round 5) Proposal Number: OPP1025200 BMGF:01064000092, 2010-2012. Role: PI.

Technology Commercialization Fund (TCF) Award “Formulation and production of antimicrobial peptide for control of bacterial vaginosis”, 2010-2011. Role: PI.

“Antimicrobial peptide subtilisin for control of bacterial vaginosis and feminine health care” Life Science Commercialization Award, 2008-2009. Role: PI.

“Natural antimicrobials for toxins control in foodborne pathogens” Vedeqsa Inc., 2008 - 2009. Role: PI.

“PFI: Creating Value from Agricultural Materials for the Biomedical Market.” NSF Award No. 0650199. 2007-2009. Role: Co-PI.

“Natural antimicrobials for control of human pathogens.” CAFT Cooperative Research and Development Program, 2007-2009. Role: PI.

“Natural antimicrobial polymers for control of biofilm formation by foodborne pathogens.” CAFT Cooperative Research and Development Program, 2007-2009. Role: Co-PI.

“Biodegradable Polymers to Prevent Biofilms” CAFT Cooperative Research and Development Program – Food Safety, 2006-2008. Role: Co-PI.

“Development of Novel Food Packaging for Controlled Release of Active Compounds” USDA, 2006-2008. Role: Co-PI.

“A bioenergetic approach for control of *Listeria monocytogenes*”. USDA, 2006-2008. Role: Co-PI.

“Natural antimicrobials against bacterial vaginosis”. NCCAM NIH, 2005-2009. Role: PI.

“Investigation of ϵ -poly-L-lysine antimicrobial activity as a multiple hurdle component in combination with other natural antimicrobials.” Chisso America Inc., 2005-2006. Role: PI.

“Isolation, purification and mechanism of activity of novel bacteriocin from *Lactobacillus sporogenes* against bacterial vaginosis associated microorganisms.” Sabinsa, 2005-2006. Role: PI.

“Probiotics for oral care”, Colgate Palmolive, 2004-2007. Role: PI.

CAFT Cooperative Research and Development Program – Food Safety, 2003-2006. Role: PI. \$48,000. Improved microbial food safety and product shelf life extension through combination of formulation and slow release of antimicrobials as intelligent approach in hurdle technology food preservation.” Role: PI, Phase I; Co-PI, Phase II.

An antimicrobial packaging material containing an antimicrobial agent (nisin) in its polymer matrix and active in inhibiting microbial growth in food. CAFT Cooperative Research and Development Program – Food Safety, 2001-2002. Role: PI.

USDA-NRI-CGP 1999-02861, “A membrane fluidity model for sensitivity of foodborne pathogens to preservatives”, 07/01/99-06/30/02. Role: Co-PI.

Safety of bacteriocins as GRAS food preservatives, Rhodia, 1999-2001. Role: PI.

Food and Agricultural Sciences National Needs Fellowship Grants Program - Food Safety, USDA CSREES, 12/01/99 - 11/30/04. Role: Co-PI.

INVITED LECTURER AND VISITING SCIENTIST ACTIVITIES

- 2014** Invited speaker, Seminar of the New Jersey Association for Food Protection, May 7, 2014, New Brunswick, NJ.
- 2013** President, International Scientific Conference on Bacteriocins and Antimicrobial Peptides - BAMP2013, May 21-23, 2013, Kosice, Slovakia.
- 2013** Invited speaker, Shanghai Medical University, China.
- 2013** Invited speaker, Seminar of the New Jersey Association for Food Protection, May 1, 2013, New Brunswick, NJ.
- 2012** Invited speaker at the Brazil Association for Food Protection – ABRAPA. Sao Paulo, Brazil, September 17.
- 2012** Invited Speaker at the 5th International Symposium of Post-Graduation and Research – V SINPOSPq, Ribeirao Preto, Brazil, September 12-14.
- 2012** Invited Speaker at the Conference “Bacteriophages and Probiotics – Alternatives to Antibiotics”. Tbilisi, Georgia, July 1-4, 2012.
- 2012** Invited Speaker at the International Scientific Conference on Bacteriocins and Antimicrobial Peptides. Book of Abstracts, pp. 16-17. Kosice, Slovakia, 21-23 February 2012.
- 2010** Invited presenter at the IFT seminar “Naturally-derived food preservatives: the world is not enough” 06.23.2010.
- 2006** Invited Speaker at the 1st Annual Workshop on “Microbial Communities and Interactions”.

- August 28, ERRC USDA, Wyndmoor, Pennsylvania.
- 2006** Invited Speaker at the 1st International Symposium "Food, veterinary and medical applications of antimicrobial peptides". June 21-23, Nantes, France.
- 2006** Invited Speaker's presentation "Natural antimicrobial peptides in food preservation and personal care". Symposium "Bioactive Peptides", 97th AOCS Annual Meeting & Expo, April 30-May 3, 2006, St. Louis, Missouri.
- 2005** Presenter at the 2005 Food Research Institute Focus on Food Safety Series "Developments and Applications of Food Antimicrobials, Cleaning and Sanitation". Madison, WI, September 28-29.
- 2005** Presenter at the 8th Symposium on Lactic Acid Bacteria, Egmond aan Zee, The Netherlands, August 28 – September 1.
- 2005** Invited Speaker at the Symposium "Bioactive Peptides", 96th AOCS Annual Meeting & Expo, Salt Lake City, Utah, USA, May 1-4.
- 2005** Invited Speaker at the International Symposium on Natural Preservatives in Food Systems, Princeton, New Jersey, USA, March 30-31.
- 2005** Invited Speaker at CB Fleet Company, Inc., Lynchburg, Virginia, March 14.
- 2005** Invited Speaker at Sabinsa Company, Inc., Piscataway, New Jersey, March 8.
- 2003** Regional IFT Meeting, Philadelphia, PA, USA. Invited speaker.
- 2003** Annual IFT Meeting, Chicago, IL, USA. Invited speaker, Natural Preservatives Session.
- 2002** Short-term industrial research project, Yerevan, Armenia.
- 2002** Invited Speaker, 2002 Annual meeting of the American Society for Microbiology, Salt Lake City, USA.
- 2002** Invited Participant, Bioterrorism workshop (U.S. Army Research Office), Duke University, NC, USA.
- 2002** Invited Speaker, DoD Advance Planning Briefing for Industry Hosted by U.S. Army Soldiers and Biological Chemical Command in cooperation with National Defense Industrial Association. Hunt Valley, MD, USA.
- 2001** Invited Speaker, a distinguished lectures series "From molecules to genomes and back: 175 years of inquiry", Department of Biochemistry and Microbiology, Rutgers University, USA.
- 2001** Invited Lecturer, Department of Microbiology, Stellenbosch University, South Africa.
- 2001** Invited Speaker, Institute of Microbiology, Abovyan, Armenia.
- 2001** Invited Speaker, Institute of Biotechnology, Yerevan, Armenia.
- 2001** Invited Speaker, Biological Faculty, Yerevan State University, Armenia.
- 2001** Invited Speaker, Astrakhan Medical Academy, Russia.
- 2000** Theobald Smith Society Meeting, September 2000.
- 2000** American Dairy Science Association Annual Meeting, Baltimore, USA.
- 1999** First Annual Mathew Klein Memorial Microbiology Symposium, USA.
- 10/1995 and 10/1996** Department of Biochemical and Microbial Technology (Prof. E. Vandamme), University of Ghent, Belgium.
- 03/1995** Department of Microbiology (Dr. P. Gouws), UWC, South Africa.
- 03/1995** Department of Microbiology (Prof. L. Dicks), University of Stellenbosch, South Africa.
- 12/1994** Department of Microbiology (Prof. W. Konings), University of Groningen, The Netherlands.
- 12/1993** Department of Oral Biology (Prof. P. Caufield), University of Alabama at Birmingham, AL, USA.
- 07/1993** Department of Food Engineering and Biotechnology (Prof. I. Neeman), Technion - Israel Institute of Technology, Haifa, Israel.
- 07/1993** Research and Development Department (Dr. D. Gil), Naharya Dairy Strauss, Naharya, Israel.

07/1993 Department of Biochemistry and Human Nutrition (Dr. R. Shapira), Hebrew University of Jerusalem, Rehovot, Israel.

07/1993 Volcani Center (Prof. B. Juven), Bet Dagan, Israel.

MEETINGS AND CONFERENCES (GENERAL PARTICIPATION)

2016 The 2016 Symposium on Biomaterials Science, New Brunswick, New Jersey, October 24-25, 2016.

2015 5th International Symposium "Autotroph Microorganisms" (12.21-24.2015, Moscow State University, Moscow, Russia) dedicated to the 90th anniversary of academician E.N. Kondratieva (Russian Academy of Sciences).

2015 Probiota Americas. San Diego, California, June 305, 2015.

2015 Gupta A., Chikindas M.L., Tiwari S.K. "Mechanism of action and biochemical properties of enterocin LD3 purified from *Enterococcus hirae* LD3" (poster presentation). 56th Annual Conference of Association of Microbiologist of India and International Symposium on Emerging Discoveries in Microbiology. Organized by School of Life Science, JNU, New Delhi on December 07-10, 2015.

2015 Tiwari S.K., Noll K.S., Cavera V.L., Chikindas M.L. "Design and synthesis of hybrid bacteriocins from enterocin E50-52 and pediocin PA-1 for improved therapeutic potential." Poster presentation. International conference on "New Horizons in Biotechnology (NHBT-2015)" Organized by Biotech Research Society, India and CSIR-IIST Tiruvananthpuram held on November 22-25, 2015.

2013 Probiotics, Prebiotics, and the Host Microbiome: The Science of Translation. The Sackler Institute for Nutrition Science at the New York Academy of Sciences and The International Scientific Association for Probiotics and Prebiotics. June 12, 2013, New York, NY.

2013 Gordon research Conferences: Carotenoids. L. Wassef, R. Wirawan, M. Chikindas, P. Breslin, D. Hoffman, and L. Quadro "Promoting Children's Growth with β -carotene-Rich Probiotics." January 6-11, 2013, Ventura, CA.

2012 Eric Forman, Andrew Ruiz, Richard Scott, Katia Noll, Patrick Sinko, and Michael Chikindas "The Natural Antimicrobial Subtilisin a Demonstrates in vitro Spermicidal Activity: a Controlled, Blinded Study." 45th Annual Meeting of the Society for the Study of Reproduction. 12-15 August 2012, Center for Reproductive Biology and Health The Pennsylvania State University State College, Pennsylvania. Poster presentation.

2012 Annual Meeting of the American Association of Pharmaceutical Scientists. Poster presentation by S. Sundara-Rajan, Y. Turovskiy, K. Noll, Y. Singh, M. Chikindas, P. Sinko "Poly(ethylene glycol) Degradable Hydrogels for the Controlled Release of the Antimicrobial Subtilisin, for the Prevention and Treatment of Bacterial Vaginosis". October 14-18, Chicago, IL.

2010 22nd Annual New Jersey Women and AIDS Network Conference: Confronting the Crisis. 2010. One poster and abstract.

2009 2nd International Symposium on Antimicrobial Peptide, Saint Malo, France, 06.17-19.2009. Two posters presentations.

2008 9th Symposium on Lactic Acid Bacteria. Egmond aan Zee, The Netherlands, 08.31-09.04.2008. Poster presentation by Sutyak et al.

2007 Poster "Isolation of the *Bacillus subtilis* antimicrobial peptide subtilisin from the dairy product-derived *Bacillus amyloliquefaciens*" by K. E. Sutyak, R. E. Wirawan, A. A. Aroutcheva, and M. L. Chikindas (presented by K.E. Sutyak) at the BioMicroWorld2007 - II International

- Conference on Environmental, Industrial and Applied Microbiology. 11.28-12.01.2007, Seville, Spain. Abstract Code #241, Session 7: Medical Microbiology – Pharmaceutical Microbiology.
- 2007** Poster “Lactocin 160, antimicrobial peptide from vaginal *Lactobacillus rhamnosus*” by A. Aroutcheva, S. Dover, Y. Turovskiy, S. Faro, and M. Chikindas (presented by A. Aroutcheva) at the 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago, September 17-20, 2007, poster F1-1666/288, Session 178, September 19, 2007 12:15-1:15.
- 2007** Poster “Design and synthesis of biodegradable polyanhydrides based on plant and food-derived antimicrobials for biofilm prevention” by A. L. Carbone, L. E. Rosenberg, M. L. Chikindas, K. E. Uhrich at the Polymer Designs for Food and nutrition Section of the 2007 Fall National American Chemical Society Meeting (Boston, August 19-23, presented by A.L. Carbone).
- 2006** Oral presentation “Lactocin 160 for intravaginal microbicide” and abstract at the conference “Women and Infectious Disease” March 16-18, Atlanta (presented by co-PI Dr. Aroutcheva).
- 2006** North American Research Conference on Complementary and Integrative Medicine. Poster presentation. May 24-27, Edmonton, Alberta, Canada.
- 2005** Eighth Symposium on Lactic Acid Bacteria. Egmond aan Zee, The Netherlands.
- 2005** Invited Speaker at the Symposium “Bioactive Peptides”, 96th AOCS Annual Meeting & Expo, Salt Lake City, Utah, USA, May 1-4, 2005.
- 2003** Regional IFT Meeting, Philadelphia, PA, USA.
- 2003** Annual IFT Meeting, Chicago, IL, USA.
- 2002** Seventh Symposium on Lactic Acid Bacteria. Egmond aan Zee, The Netherlands, September 1-5, 2002.
- 2001** NIZO Conference on Dairy Microorganisms (The Netherlands).
- 2001** Annual IFT Meeting, New Orleans, USA.
- 2000** American Dairy Science Association Annual Meeting, Baltimore, USA.
- 1999** Sixth Symposium on Lactic Acid Bacteria, Veldhoven, The Netherlands.
- 1999** Annual IFT Meeting, Chicago, USA.
- 1999** First Annual Mathew Klein Memorial Microbiology Symposium, USA.
- 1999** Cultured Dairy Products Conference, Milwaukee, USA.
- 1996** Fifth Symposium on Lactic Acid Bacteria: Genetics, Metabolism, and Application. Veldhoven, The Netherlands.
- 1996** Eighth International Congress of Bacteriology and Applied Microbiology of International Union of Microbiological Societies. Jerusalem, Israel.
- 1996** Third Meeting of the European Confederation of Medical Mycology. Lisboa, Portugal.
- 1996** The Third Annual IBC Conference on *Helicobacter pylori* and Gastrointestinal Disorders. Philadelphia, Pennsylvania, USA.
- 1996** Focus on Fungal Infections - 6. New Orleans, Louisiana, USA.
- 1995** Trends in Invasive Fungal Infections - 3. Brussels, Belgium.
- 1995** Bacteriocins of Lactic Acid Bacteria. Applications and Fundamentals. Banff, Canada.
- 1994** The 2nd International Workshop on Lantibiotics. Arnhem, The Netherlands.
- 1994** Fourth International ASM Conference on Streptococcal Genetics. Sante Fe, NM, USA.
- 1994** The Ciba Foundation Symposium on Antimicrobial Peptides, London, UK.
- 1993** The FEMS Fourth Symposium on Lactic Acid Bacteria Genetics, Metabolism and Applications. Noordwijkerhout, The Netherlands.
- 1993** The NATO ASI IV Meeting on Targeting of Drugs. Cape Sounion, Greece.
- 1992** The EC BRIDGE LAB Antimicrobial Leaf Meeting. Sevilla, Spain.

- 1991** The EC BRIDGE LAB Meeting. Cork, Ireland.
- 1991** The EMBO-FEMS-NATO Advanced Research Workshop on Bacteriocins, Microcins and Lantibiotics. Isle de Bendor, France.
- 1990** The VII All-Union Symposium 'Molecular Mechanisms of Genetical Processes'. Moscow, USSR.
- 1989** The II All-Union Conference on Bacterial Toxins. Jurmala, Latvia.
- 1989** The USSR - GDR X Biochemical Symposium, Tashkent, Uzbekistan.
- 1989** The All-Union Conference 'Regulation of Microbial Metabolism'. Puschino, Moscow Region, USSR.
- 1989** The All-Union Conference 'Interpolymeric Complexes'. Riga, Latvia.
- 1986** 'Genetics and Biochemistry of Microorganisms'. Moscow, USSR.
- 1986** 'New Trends in Biotechnology'. Puschino, Moscow Region, USSR.
- 1985** V All-Union Biochemical Meeting. Moscow, USSR.
- 1985** Plasmid-X. Puschino, Moscow Region, USSR.
- 1980** II Conference of Young Scientists of the Institute of Experimental Biology, Armenian Academy of Sciences. Yerevan, Armenia.