

1 CV YILMA

CURRICULUM VITAE

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Date of Birth: December 15, 1943

Nationality: US Citizen

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Education

University of California, Davis	B.S.	1968	Veterinary Science
University of California, Davis	D.V.M.	1970	Veterinary Medicine
University of California, Davis	Ph.D.	1977	Microbiology
Cornell University Medical College-----		1980	Medicine

Chronology of Employment

1991-present: Director, International Laboratory of Molecular Biology for Tropical Disease Agents -FAO Collaborative Laboratory on Biotechnology, School of Veterinary Medicine, University of California, Davis, California.

1986-present: Professor of Virology, Department of Veterinary Microbiology and Immunology, University of California, Davis, California.

1985-1986: Associate Professor, Department of Veterinary Microbiology/ Pathology, Washington State University, Pullman, Washington.

1980-1985: Assistant Professor, Department of Veterinary Microbiology/ Pathology, Washington State University, Pullman, Washington.

1978-1979: Research Associate, New York State College of Veterinary Medicine, Department of Microbiology, Cornell University. Duties performed at USDA, the Plum Island Animal Disease Center, Greenport, New York.

1977-1978: Assistant Professor, Department of Veterinary Microbiology, University of California, Davis. Duties performed at USDA, the Plum Island Animal Disease Center, Greenport, New York.

1973-1977: Graduate Student in Microbiology, Department of Veterinary Microbiology, University of California, Davis, California.

1971-1972: Lecturer, UNDP/FAO of the United Nations, School for Animal Health Assistants, Debre Zeit, Ethiopia.

Honorary and Professional Society Memberships (Past & Present)

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California Veterinary Medical Association
American Veterinary Medical Association
American Society for Microbiology
Honor Society of Phi Kappa Phi
Phi Zeta Society
American Association for the Advancement of Science
Association of American Veterinary Colleges
American Society for Virology
American Society of Tropical Veterinary Medicine
United States Animal Health Association
European Action on Global Life Sciences (EAGLES)

Honors and Awards

National Academy of Sciences, Elected 2004
Fellow of American Academy of Microbiology, Elected 2004
Beecham Award for Research Excellence - 1986
Beecham Award for Research Excellence - 1988
The "1989 Ciba-Geigy Award for Research in Animal Science" - 1990
School of Veterinary Medicine Alumni Achievement Award - 1991
Listed in "University of California Accomplishments" by Office of the President for University's 125th Anniversary Celebration. (Rinderpest invention cited.) - 1991
School of Veterinary Medicine Faculty Award for Research Excellence - 1991 Featured in August 1991 magazine Veterinary Forum on cover article entitled, "Who's Who in Biotechnology for the 1990's, The People behind the Progress" (one of 5 scientists)
Listed in Who's Who In The West, 1991 and 1992 Editions
School of Veterinary Medicine Faculty Award for Research Excellence - 1993 Listed in "University of California Davis' Financial Report 1993-94 - An Investment in Excellence". (Rinderpest vaccine cited.)
University of California Davis Distinguished Public Service Award for 1994-95 Featured in April 1995 issue of Wisconsin BioIssues, Biotechnology in Developing Countries Listed in Who's Who in Medicine & Healthcare, June 95 issue
Listed in Who's Who in Medicine & Healthcare, first issue of 1996
Listed on the cover of Who's Who In Biotechnology for the 1990s
Featured as a role model in Visions (career guidance/life management workbook for African American males) California Department of Education, May 1996
The Walters Art Gallery (Committee Member), Baltimore, MD 21201
The Wellcome Visiting Professor in the Microbiological Sciences, Louisiana State University, School of Veterinary Medicine, October 1998
University of Oklahoma International Alumnus Achievement Award, Nov 1999 University of California, School of Veterinary Medicine, Class of 2004 Outstanding Faculty Lecturer Award, 2001-2002
University of California, Davis 2001-2002 Faculty Research Award, May 2002

Citations in Scientific Journals (Selected List)

Science, 237:1289-1291, 1987--War on Cattle Disease Divides the Troops.
New Scientists, p. 38 Dec. 3, 1988--Grow-your-own Vaccine Takes on Rinderpest.
Nature, 349:369, 1991--Real and Imagined Dangers.
Nature, 355:194, 1992--Training for Egyptian Scientists.
New Scientists, 1930:30-33, 1994--A Man With a Mission.
New Scientists, 144:p62, Nov 13, 1994.--Letter on Safety of Rinderpest Recombinant Vaccine.

Patents (granted or applied for):

Vaccinia virus recombinant vaccines for vesicular stomatitis virus (shared with the National Institutes of Health, the Salk Institute, and Washington State University).
Use of lymphokines (IFN- γ) as adjuvants.

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A rapid diagnostic kit for vesicular diseases.
Use of vaccinia virus recombinants for the production of monoclonal antibodies.
A vaccinia virus double recombinant vaccine for rinderpest.
A rapid ELISA diagnostic kit for vesicular stomatitis.
A rapid ELISA diagnostic kit for rinderpest virus (RPV) and peste des petits ruminants (PPRV).
A method for the development of a safe and efficacious live attenuated retroviral vaccine for AIDS.
A method for expressing interferons with attenuated lentivirus vectors.
Recombinant Live Virus Vaccines.

Grant Reviewer or Member of Study Section (Selected List)

USDA--Mechanisms of Animal Disease - National Research Initiative Competitive Grants Program:
Biotechnology- Animal Molecular Biology Review Panel, 1985.
USDA--Food and Agricultural Sciences Committee on National Needs Graduate Fellowship Grants, 1987.
USDA--Food and Agricultural Sciences Committee on National Needs Graduate Fellowship Grants,, 1990.
NIH-NIAID --National Cooperative Vaccine Development Groups for AIDS, 1994.
NIH-NIAID--Evaluation of AIDS Vaccines in Non-Human Primates, 1996.
NIH-NIAID--Biotechnology Grants, November 13, 1996.
NIH- NCR--Member of review panel for the Site Visit of the Wisconsin Regional Primate Research Center,
Madison, WI, 1996.
The Wellcome Trust: Reviewer for Research Fellowship in Tropical Medicine, 1996.
USDA--Sustaining Animal Health and Well-Being (Virology Panel) and Identifying Animal Genetic Mechanisms
and Gene Mapping Programs of the National Research Initiative Competitive Grants Program, 1996.
NIH-DRG--Member of Special Study Section-2. July 16, 1997.
NIH-NCRR--Member of Study Section of Comparative Medicine Group (1997-2001).
NIH-DRG--Member of Special Study Section-2. July 16, 1997.
NIH-NCRR-CMRC-Member of review panel for the Site Visit of the New England Regional Primate Research
Center, Harvard Medical School, Southborough, MA. August 1, 1997.
NIH-NCRR-CMRC-Member of Special Study Section, Bethesda, MD. October 19, 1997.
NIH-NCRR-CMRC-Member of review panel for the Site Visit of the Tulane Reg. Primate Res Center, Dec 1, 1997.
NIH-NCRR-CMRC-Member of Initial Review Group, Bethesda, MD. February 24, 1998.
NIH-NCRR-CMRC-Member of Initial Review Group, Bethesda, MD. June 1 & 2, 1998.
NIH-NCRR-CMRC-Member of review panel for the Site Visit of the Oregon Regional
Primate Research Center, Oregon Health Sciences University Sept 8-11, 1998.
United States Israel Bio-national Science Foundation--Reviewer February 1998.
The Wellcome Trust --Reviewer February 1998.
USDA--Small Business Innovation Research Program: Reviewer, February , 1998.
USAID-Site visit of the UF/USAID/SADC Heartwater Research Project of the University of Florida at Gainesville.
November 24, 1998.
NIH-NCRR-CMRC-Member of Initial Review Group, Bethesda, MD. February 16-18, 1999.
NIH-NCRR-CMRC-Member of Initial Review Group, Bethesda, MD. June 8 & 9, 1999.
NIH-NCRR-CMRC-Member of Initial Review Group, Bethesda, MD. October 13-16, 1999.
NIH-NCRR-CMRC-Member of Initial Review Group, Bethesda, MD. February 15-17, 2000.
NIH-NIAID-NCRR-Special Emphasis Panel (Chairperson) March 30th, 2000.
NIH-NCRR-CMRC-Member of Initial Review Group, Bethesda, MD. June 12-14, 2000.
NIH-NCRR-Appointed Chairman of the Comparative Medicine Study Section, June, 2000.
NIH-NCRR-CMRC-Chairman of review panel for the Site Visit of the Yerkes Regional
Primate Research Center, Emory University July 17-20, 2000.
NIH-NARRC-Council Meeting, Bethesda, MD, September 7. 2000.
NIH-NCRR-CMRC-Chair of Initial Review Group, Bethesda, MD. October 12-14, 2000.
NIH-NCRR-CMRC-Special Emphasis Panel/Site Visit, Washington Regional Primate Research Center, Seattle, WA.
January 13th B 17th, 2001.
NIH-NARRC-1st Plenary Council Meeting, Bethesda, MD, January 17. 2001.
NIH-NCRR-CMRC-Chair of Initial Review Group, Gaithersburg, MD. February 13-14, 2001.

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NIH-NCRR-Council Meeting, Bethesda, MD, May, 17, 2001.
NIH-NCRR-CMRC-Member of the COBRE Special Emphasis Panel, Bethesda, MD. June 7-8, 2001.
NIH-NCRR-CMRC-Chair of Initial Review Group, Gaithersburg, MD. June 12-13, 2001.
NIH-NINDS-Member Planning Panel on Neuro-AIDS, Arlington, VA, July 16, 2001.
NIH-NARRC-1st Plenary Council Meeting, Bethesda, MD. September 13th, 2001.
NIH-NCRR-CMRC-Chair of Initial Review Group, Gaithersburg, MD. October 11-12, 2001.
NIH-NCRR-CMRC-Chairman of review panel for the Site Visit of the Washington Regional Primate Research Center, Washington State University, January 13-17, 2002.
NIH-NCRR-CMRC-Chair of Comparative Medicine Review Committee, Bethesda, MD. February 7-8, 2002.
NIH-NIAID-Member of Special Emphasis Panel, Bethesda, MD. March 25-27, 2002.
NIH-NARRC-Representative of the Comparative Medicine Review Committee attending the National Advisory Research Council, Bethesda, MD. May 16th, 2002.
NIH-NCRR-CMRC-Chair of Initial Review Group, Gaithersburg, MD. June 11th-12th, 2002.
NIH-NIA-Member of Advisory Panel for The Monkey Caloric Restriction Study, San Antonio, TX. October 11th, 2002.
NIH-NIAID-Member Special Emphasis Panel for Program Project Grant Application, *Teleconference* from Davis, CA. December 12th, 2002.
NIH-NIDCR-Member, National Institute of Dental & Craniofacial Research Special Emphasis Panel, Bethesda, MD. March 31st, 2003.
NIH-NCRR-Chair, National Swine Research & Resource Center, RFA Review Committee, Bethesda, MD. June 27th, 2003.
State of Israel Ministry of Agriculture & Rural Development – Grant Reviewer. September 22nd, 2003.
Canada Foundation for Innovation B Expert Reviewer in the area of Animal Science, Ottawa, Canada. September 30th B October 2nd, 2003.
National Science Foundation (NSF) B Advisory Subcommittee for the Office of International Science and Engineering, Arlington, VA. October 23rd-24th, 2003.
NIH, Chair of the Special Emphasis Panel, “Atopic Dermatitis and Vaccinia Immunization Network: Animal Studies Consortium.” Bethesda, MD October 27, 2003.
NIH-NIA-Member of Advisory Panel for The Monkey Caloric Restriction Study, Bethesda, MD. November 14th, 2003.
NIH Orthopoxvirus Group Meeting, Bethesda, MD. April 22nd – April 23rd, 2004.
National Science Foundation (NSF) B Advisory Subcommittee for the Office of International Science and Engineering, Arlington, VA. June 10th-11th, 2004.
National Science Foundation (NSF) B Advisory Subcommittee for the Office of International Science and Engineering, Arlington, VA. November 3rd – 5th, 2004.
NIH Orthopoxvirus Group Meeting, Bethesda, MD. November 17th – 18th, 2004.
NIH Orthopoxvirus Group Meeting, Bethesda, MD. April 18th-22nd, 2005.
NIH-NARRC-Member of Working Group for the Chimpanzee Management Plan (ChiMP). April 2003- .

Editorial Boards, Advisory Boards, or Ad Hoc Reviewer

Science

Proceedings of the National Academy of Sciences

Bio/Technology

Biotechniques

The Journal of Virology

The Journal of General Virology

The Journal of Infectious Diseases

The Journal of Immunology

Virology

AIDS Research and Human Retroviruses

Virus Research

Archives of Virology

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Clinical Microbiology Reviews

American Veterinary Medical Association

American Journal of Veterinary Research

Veterinary Sciences Tomorrow

US-Israel Binational Agricultural Research and Development Fund (BARD)

University of Idaho-EPSCoR Program

International Association of Biological Standardization (IABS)

American Institute of Biological Sciences, The National Academy of Sciences, USA

International Advisory Board, Asian Network for Biotechnology in Animal Production & Health (ANBAPH)

Editor, Asian Network for Biotechnology in Animal Production & Health (ANBAPH) Manual, "Biotechnology and development of livestock vaccines," 1992

Member, Advisory Board of Academic Press, Inc. series Advances in Vet. Science & Comparative Medicine 1991-

Advisory Board Member, Ethiopian Journal of Agricultural Science (EJAS)

Chief Editor, "Biotechnology and Development of Livestock Vaccines," Food and Agriculture Organization of UN.

Advisory Board Member, Faculty Research Lecturer Committee of the University of California, Davis, Academic Senate, 2003.

Health Committee Member, The European Action on Global Life Sciences (EAGLES), the European Federation on Biotechnology

Internal Advisory Board, University of California Davis Mouse Biology Program, 2004

Consultant (Past and Present)

The Haile Selassie University Experiment Station, Debre Zeit, Ethiopia, 1971-1972.

National Livestock Vaccine Production Center at Debre Zeit, Ethiopia, 1971-1972.

USAID Malarial Project, The American Institute of Biological Sciences, National Academy of Sciences (1988-). Genentech Inc., San Francisco, CA (1982-1988).

California Biotechnology Inc., Mountain View, CA (1986-1988).

FAO/ United Nations - Key Biotechnology Consultant (1989-).

WHO/United Nations--Vectors for Recombinant Vaccines (1989)

Accel Partners, Inc. San Francisco, CA (1990-).

INTA, The Biotechnology Institute of Argentina (1989-).

The Biotechnology Institute of Brazil (1992-).

Member of the Board of Directors, Center for Applied Biotech in Agriculture (CABA), San Francisco, CA (1994).

Member of the California Biomedical Research Association (1990-).

International Agricultural Visitors Program, University of California, Davis (1986-)

Trustee of Foundation for African Development Through International Biotechnology (FADIB) (1990-).

USAID--Egypt: Consultant to the Government of Egypt Biosafety Committee (1991-1995).

USAID--(Israel and Arab Scientific Exchange Program) Trinational Animal Health Project (TAHRP) (1995-).

Collagen Corporation: Consultant and Member of Scientific Advisory Board (1993-).

International Atomic Energy Agency/United Nations--(1997-)

Dow Agro Chemical Consultant (1999-)

NIH/NIAID/NCRR-Special Emphasis Panel (Chairperson) March 30, 2000

US Department of State- ISTS Russia.

VaxGen, Brisbane, CA (2005-).

Expert Consultations.

United Nations (UNDP) International Delegation of the JP/15 Program to Somalia, 1971.

USDA, Panel leader on assessing use of live genetically altered vaccines, 1986.

FAO/United Nations, Rome: Expert Consultation on biotechnology for livestock production and health, 1986.

WHO/United Nations: Expert consultation on requirements and criteria for field trials on oral rabies vaccination of dogs and wild carnivores, Geneva, Switzerland, March 1-2, 1988.

WHO/United Nations: Expert consultations on the potential use of live vectors of vaccines, June 19-22, 1989.

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FAO/United Nations: Expert consultation on requirements for vaccinia-rinderpest recombinant vaccines, Rome, Italy, June 23-July 13, 1989.

Office of International des Epizooties (OIE): Expert consultation on requirements for vaccinia-rinderpest recombinant vaccines, Paris, France, August 21-24, 1989.

FAO/United Nations: Expert consultation on quality control for veterinary vaccines in developing countries. Rome, Italy, December 2-6, 1991.

FAO/United Nations: Expert consultation on requirements for global eradication of rinderpest, Rome, Italy, October 27-29, 1992.

USDA/APHIS, National Veterinary Services Laboratories (NVSL) in Ames, Iowa: Expert consultation on the development of rapid diagnostic kit for vesicular stomatitis, 1994.

External examiner in virology and immunology for 1994/95 final-year veterinary students at Addis Ababa University, Debre Zeit, Ethiopia, 1995.

Swiss Federal Institute of Technology (ETH), Department of Agriculture and Food Science: Expert consultation on establishment of programs in biotechnology; Zurich, Switzerland, 1995.

International Atomic Energy Agency/United Nations. Expert Consultation on Recombinant Vaccines and Rapid Diagnostic Kits. January 11, 1997.

International Atomic Energy Agency/United Nations. Special Consultant to the Deputy Director General -Technical Cooperation (1998-Present).

Visiting Research Scientist or Research Collaborator

Genentech, Inc., San Francisco: Visiting consulting scientist and guest researcher, July, 1985.

NIH-NIAID, Laboratories of Viral Diseases: Guest researcher in Dr. Bernard Moss's Laboratory, Aug - Oct, 1985.

California Biotechnology, Inc.: Cloning of the rinderpest virus HA and F genes, August 1987-November 1988.

Chiron Molecular Biology, Inc.: Use of adjuvant (lymphokine) genes in the development of vaccinia virus recombinant vaccines for the human acquired immunodeficiency disease, 1988-1992.

Tropical Animal/Human Health, International Center for Tropical Animal Health (ICTAH) & Office of International Programs, Tuskegee University, Visiting Lecturer, 1989 .

Amgen, Inc., Thousand Oaks, California (with Dr. W. Neal Burnette): Collaborative research on the development of a recombinant vaccine for pertussis, 1991-95.

Cleveland Clinic Foundation, Cleveland, Ohio with Dr. A. K. Banerjee: Diagnostic kit for VSV, 1989-90.

Development of a vaccine for simian immunodeficiency virus (1988-); with :

- Dr. William R. Morton at the University of Washington, Seattle, Washington
- Dr. W. Edward Robinson at Vanderbilt University, Nashville, Tennessee
- Dr. Cataline E. De Jesus at Viagene, Inc in San Diego, California
- Dr. Nancy Haignwood of Bristol-Myers Squibb Pharmaceuticals in Seattle, Washington
- Dr. Terri H. Finkel at the National Jewish Center in Denver, Colorado.

Institute of Molecular Biology at the National Institute of Agricultural Research (INTA) in Buenos Aires, Argentina (with Dr. Eduardo L. Palma): Vaccinia virus-vectored experimental vaccines for FMD (1993-1995).

Harvard Medical School, Massachusetts General Hospital (with Dr. Bruce Walker): Cell mediated vaccine studies in patients infected with HIV (1990-).

Harvard Medical School, Massachusetts General Hospital (with Dr. Paul Johnson): Cell mediated vaccine studies in patients infected with HIV (1997-).

Washington State University at Pullman, Washington (with Dr. John Gorham of USDA/ARS): Vaccine development for canine distemper (1993-1994).

Institute of Biology, Universidade Federal do Rio de Janeiro, in Rio de Janeiro, Brazil (with Dr. Amilcar Tanuri): Transfer of technology to Brazilian laboratories (1992-1996).

USAID: Establishment of a center of molecular biology in Egypt to serve Middle East (1991-1995).

USAID: Transfer of technology in molecular biology to Kenya (1988-).

FAO/United Nation: Transfer of technology in molecular biology to Ethiopia (1988-).

Rush Medical Center, Chicago, Illinois (with Dr. Diana Huang): Determination of the efficacy of measles vaccine H protein (1993-).

Animal Diseases Research Institute, Ontario, Canada (with Dr. Ahmed Afshar): Testing and approval of rapid diagnostic kit for VSV (1991-).

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USDA, National Veterinary Services Laboratories (NVSL), Ames, Iowa (with Dr. J. B. Katz): Testing and approval of rapid diagnostic kit for VSV (1992-).

Service (Selected List)

Member, International Health Sciences Committee of the UC Senior International Leaders Council, Representative for the UC Davis School of Veterinary Medicine

Teaching Awards

Outstanding Instructor Award, given by the freshman class of 1971, FAO/United Nations School for Animal Health Assistants, Debre Zeit, Ethiopia.

Super Professor, second-year veterinary students, Washington State University, 1980.

Super Professor, second-year veterinary students, Washington State University, 1984.

Outstanding Teacher Award, second-year veterinary students, University of California, Davis, 2001 B 2002.

National: Invited Speaker (Selected List)

Plum Island Animal Disease Center, Greenport, NY: "The Morphogenesis of the Assembly and Release of Bovine Enterovirus," February 1979.

First Washington State University International Symposium and Workshop, Pullman: The Impact of Monoclonal Antibody Technology on Animal and Plant Agricultural Research, June 20-22, 1982. Moderator, Virology Section.

Washington State Veterinary Service, Olympia: "The Disease Vesicular Stomatitis in Cattle, Swine, and Horses: Control Measures," February 8, 1983.

Institute of Biological Chemistry, Washington State University, Pullman: "Subunit, Synthetic, and Vector Vaccines for Vesicular Stomatitis," May 29, 1984.

The Third International Congress on the Immunobiology of Proteins and Peptides, Tahoe, California: "Subunit and Synthetic Vaccines for Vesicular Stomatitis," June 25, 1984.

Workshop on Genetically and Antigenically Modified Vaccinia Viruses for Use as Vaccines, Bethesda, Maryland (Co-sponsored by the NIH, U.S. Public Health Service, WHO, and the NIH for Biological Standards and Control, London, November 14, 1984.

Genentech, Inc., San Francisco: "Recombinant Bovine Interferons," three invited seminars during 1984-1985.

University of Washington Medical School, Division of Respiratory Diseases, Seattle: Seminar, "Modern Vaccines, Including Infectious Vaccinia Virus Recombinants," May 22, 1985.

The 1985 Maurice R. Hilleman Lecturer, Montana State University, Department of Microbiology, Bozeman, Montana, June 14, 1985.

USDA/APHIS, Washington, D.C.: "The Use of Live Genetically Altered Vaccine Viruses: Their Potential and Risks," January 7, 1986.

California Biotechnology, Mountain View, California: "Infectious Vaccinia Virus Recombinants," Three invited seminars, 1986-1988.

Immunomed, Tampa, Florida: "Infectious Vaccinia Virus Recombinants," February 13, 1986.

Washington Council for Technology Advancement, Report to Washington State Government on the Washington Technology Center; Presentation to State Legislators, Olympia, Washington: "Vaccinia Vector System--The Vaccine Technology of the Future," March 3, 1986.

USDA/APHIS, Ames, Iowa: "Subunit, Synthetic Peptide, and Vaccinia Vector Vaccines for Vesicular Stomatitis," April 2, 1986.

Washington Technology Center, Report to the Board of Directors, Gonzaga University, Spokane, Washington: Progress Report, April 3, 1986.

American College of Veterinary Microbiologists, Chicago, November 16, 1986.

University of Nevada School of Medicine, Department of Molecular Biology "Adjuvant Genes for Infectious Vaccinia Virus Recombinants," February 17, 1987.

The Northwest Branch of the American Society for Microbiology: "Modern Vaccines for Vesicular Stomatitis," June 19, 1987.

The National Academy of Sciences & National Research Council Symposium on Science and Technology for Development: Prospects Entering the 21st Century, Animal Biotechnology in the Next Decade, June 22, 1987.

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Biotechnology USA 1987: _Adjuvant Genes for Infectious Vaccinia Virus Recombinants: Use of Lymphokines as Adjuvants._ Conference held in Santa Clara, CA, November 4, 1987.

The University of Missouri, School of Veterinary Medicine: a) Recombinant DNA-Derived Vaccines for Livestock Diseases; b) The Role of Biotechnology In Veterinary Medicine, February 11, 1988.

US State Department-USAID "Infectious Vaccinia Virus Recombinant Vaccine for Rinderpest," February 18, 1988.

Chiron, Inc., Emeryville, CA, "Adjuvant Genes for Infectious Vaccinia Virus Recombinants," March 11, 1988.

Louisiana State University, Baton Rouge, LA, Conference of Animal Disease Research Workers in the Southern States, Southern Conference on Avian Diseases, and Southern Conference on Animal Parasites, "Infectious Vaccinia Virus Recombinant Vaccines," March 27-29, 1988.

American Association for Clinical Chemistry, 3rd Western Regional meeting Keynote Speaker and Chair of the Afternoon Session: "Application of Recombinant DNA Technology," Syntex Research, Inc., Palo Alto, CA, March 25, 1988.

California Biomedical Research Association Annual Meeting. Panel Member, "Bioscience: A New Animal Activist Target," UCLA, Los Angeles, May 9-10, 1988.

US State Department-USAID, Washington, DC: Agricultural Development: Today and Tomorrow," September 28-30, 1988. Invited to participate as the director of a project to develop an animal vaccine for rinderpest.

The Coalition of Animals and Animal Research Public Symposium on Animal Rights vs Animal Research: "How Animal Research has Contributed to the Health and Welfare of Animals," Berkeley, California, Octo l2, 1988.

The Ninety-Second Annual Meeting of the United States Animal Health Association and Thirty-First Annual Conference of American Association of Veterinary Laboratory Diagnosticians: "Vaccinia as A Vector for Other Antigens," Little Rock, Arkansas, October 16-21, 1988.

The Department of Microbiology, University of California, Davis: "Use of Vaccinia Virus Recombinants for the Expression of Heterologous Antigens," November 23, 1988.

The Plum Island Animal Disease Center, USDA. "Infectious Vaccinia Virus Recombinant Vaccines for Rinderpest," Plum Island, New York, December 2, 1988.

The US State Department: "Rinderpest Vaccines," Washington, D.C., December 5, 1988.

The World Bank: "Biotechnology Transfer to the Developing Nations," Washington, DC, December 6, 1988.

NIH-NIAID: Second Annual Meeting of the National Cooperative Vaccine Development Group for AIDS (NCVDG), Fort Lauderdale, Florida, October 15-18, 1989.

American Society of Microbiology: Vaccinia Virus Recombinant Vaccines and the Use of Lymphokines for Attenuation, San Diego, CA, November 1-4, 1989.

The University of Florida, Gainesville: Biotechnology: Science, Education and Commercialization, An International Symposium, "Accomplishments in Recombinant Vaccines," December 4, 1989.

Colorado State University, Department of Micro: "Adjuvant genes for infectious virus vaccines," May 7, 1990.

University of Colorado, Department of Micro: "Adjuvant genes for infectious virus vaccines," May 8, 1990.

University of California, Davis: Summer Enrichment Program: "Scientific Careers for the Future," June 24, 1990.

NIH-NIAID: International Conference on Advances in AIDS Vaccine Development: Third Annual Meeting of the National Cooperative Vaccine Development Group for AIDS. "Biological characterization of HIV-IFN-GAMMA fusion proteins expressed in vaccinia virus," Clearwater, Florida, October 1-5, 1990.

American Society of Tropical Veterinary Medicine, Keynote Speaker: "The Role of Biotechnology in Tropical Diseases," San Juan, Puerto Rico, February 7, 1991.

NIH-NIAID: Workshop on Poxvirus Vectors for HIV Vaccines, "Attenuation of Vaccinia Virus," Bethesda, Maryland, August 1991.

NIH-NIAID: International Conference on Advances in AIDS Vaccine Development: 4th Annual Meeting of the National Cooperative Vaccine Development Group for AIDS, "SIV Vaccine Studies at the University of California, Davis," Marco Island, Florida, October 1991.

University of California, Davis Career Center Science Careers for the Year 2000. "Academia, Biotechnology, and Toxicology", October 8, 1991.

United States Animal Health Association, 95th Annual Meeting, "Vaccinia Virus Double Recombinant Vaccine for Rinderpest," San Diego, California, November 1991.

The 1992 Miami Bio/Technology Winter Symposia: Advances in Gene Technology - Feeding the World in the 21st Century, "Transfer of Technologies in Molecular Biology to Developing Countries: Recombinant Vaccines for Rinderpest," Miami, Florida, January 19-24, 1992.

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- University of California, Davis: First Annual Biotechnology Training Grant Retreat, "Development of Recombinant Vaccine for Humans and Animals," Napa, California, February 1, 1992.
- Amgen Inc., Burbank, CA: "Recombinant Vaccines in Biotechnology," June 26, 1992.
- NIH-NIAID: International Conference on Advances in AIDS Vaccine Development: 5th Annual Meeting of the National Cooperative Vaccine Development Group for AIDS, "Evaluations of Vaccinia-SIV env and Other Complex AIDS Vaccines," Marco Island, Florida, August 1992.
- World Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases (WAVMI) Moderator, Viruses Section 2: "Recombinant Vaccines: Vaccinia Virus Vected Vaccines," University of California, Davis, Sept. 9-12, 1992.
- California Regional Primate Research Center, University of California, Davis Center for AIDS Research Mini-Symposium on Viral Pathogenesis, "Immune Response of Macaques to SIV Glycoproteins," Oct 9, 1992.
- University of California, Davis, Second Annual Biotechnology Training Grant Retreat, Napa, CA: Adjuvant Genes, February 26, 1993.
- University of California, Davis: "Biotechnology for the Future," 4th Annual Undergraduate Research Conference, April 24, 1993.
- International Association of Biological Standardization International Symposium "Recombinant Vectors in Vaccine Development," Albany, New York, May 23-26, 1993.
- American Veterinary Medical Association (AVMA): Genetically Engineered Vaccines for Animal Viral Diseases," Minneapolis, MN, July 21, 1993.
- American Association for the Advancement of Science 1995 Annual Meeting (AAAS*95), Atlanta, GA: Invited speaker, Recombinant DNA and Food: Societal and International Issues, February 18, 1995.
- USAID, Washington DC: Keynote Speaker, "Recent Developments in Recombinant Vaccines", April 11, 1995.
- "Site Visit Presentation in Association with 9th Annual International Biotechnology Meeting and Exhibition", University of California, Davis, May 22, 1995.
- University of Kentucky Lexington, Kentucky: Distinguished Virologist Seminar Series Speaker, March 22, 1996.
- Invited Lecturer: California Agricultural Leadership Program (Class XXVII); University of California, Davis --February 2-3, 1998.
- United Nations Environmental Protection (UNEP): Invited Speaker, Development of Biosafety Protocol: Biotechnology on Biodiversity, Montreal, Canada, February 11, 1998.
- USAID, Washington, D.C.--Invited speaker, Release of the Vaccinia Virus Double Recombinant Vaccine in Africa, February 26, 1998.
- A Ceres Seminar: Biotechnology: Products, Policy, And the Public Third World Issues organized by the Center for Food and Nutrition Policy & The Ceres Forum Georgetown University in Collaboration with the Jackson Laboratory. Invited Speaker: Biotechnology in Animals: A practical beginning with Rinderpest. August 13, 1998--Bar Harbor, Maine.
- OIE, Ames, IA: Invited Speaker, Vaccines for OIE List A and Emerging Animal Diseases, ADevelopment of new generation Rinderpest vaccines,@ September 16th B 18th, 2002.
- Sacramento Regional Biotechnology Summit, Sacramento, CA: Invited Speaker, February 27th, 2003.
- Office of International Visitors, Bureau of Educational and Cultural Affairs, US Department of State/ International Agricultural Visitors Program, University of California, Davis, Invited Speaker: AInvolving Women in Agriculture and Food Security: A Regional Project for Africa@, May 19th 2003.
- Center for Comparative Medicine, Invited Speaker: AA Modern Vaccine for an Old Scourge: Smallpox,@ University of California, Davis, June 24th, 2003.
- Texas A & M University at College Station, Department of Pathobiology, Invited Speaker: AA Modern Vaccine for an Old Scourge: Smallpox,@ College Station, TX, September 8th, 2003.
- USDA-FAS, Agricultural Biotechnology Short Course, Invited Speaker, University of California, Davis, October 6th, 2003.
- International House. Invited Speaker: "Vaccines and Rapid Diagnostic Kits: Barriers to Technology Transfer to Developing Countries," University of California, Davis, April 1st, 2004.
- The Greater Horn of Africa Conference. Invited Speaker: "Vaccination Efforts in east Africa," Veterans Memorial Center, Davis, CA, May 8th, 2004.
- Christina Noble Lectureship. Invited Speaker: "Strategies for Enhancing the Safety and Efficacy of Recombinant Vaccines," Oklahoma State University, Oklahoma City, OK, January 19th, 2005.

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VME 494 Seminars in International Veterinary Medicine, Invited Speaker: "The Role of International Veterinary Medicine in Developing Countries," School of Veterinary Medicine, University of California, Davis, Feb 15th, 2005.

POL 134 Africa and US Foreign Policy, Guest Lecturer: "The Politics of Combating HIV/AIDS In Africa," University of California, Davis, March 1st, 2005.

NIH Orthopox Virus Group Meeting, Guest Speaker: "Vaccinia Viruses That Replicate To High Titers In Tissue Culture Induce Potent Immune Responses Without Detectable Replication In Vivo", Bethesda, MD, April 19-22, 2005.

Seminars in Infection and Immunity, Invited Speaker: "Enhancing the Safety and Efficacy of Live Recombinant Vaccines", Cornell University, Ithaca, NY, May 6, 2005.

International: Invited Speaker (Selected List)

The Royal Society of Medicine, London: "Modern Vaccines for Vesicular Stomatitis," May 16, 1984.

Pirbright Animal Disease and Wellcome Research Laboratories, London: "Subunit, Synthetic, and Vector Vaccines for Vesicular Stomatitis," May 14, 1984.

Sixth International Congress of Virology, Sendai, Japan: "Infectious Vaccinia Virus Recombinants That Express Vesicular Stomatitis Virus Genes," 1984.

International Conference of Vesicular Stomatitis, Mexico City, (Co-sponsored by U.S. State Department and the Mexican Government): "Subunit, Synthetic, and Vaccinia Vector Vaccines for VSV," September 26, 1984.

FAO/United Nations, Rome: "Expert Consultation on Biotechnology for Livestock Production and Health," October 6-10, 1986.

International Laboratory Research for Animal Disease (ILRAD), Nairobi, Kenya, "Use of Infectious vaccinia Virus Recombinants in Immunology," October 7, 1987.

College of Veterinary Medicine, Addis Ababa University, Debre Zeit, Ethiopia, "Biotechnology and Veterinary Medicine," October 14, 1987.

The Veterinary Research Institute of Mali, "Infectious vaccinia virus recombinant vaccines for rinderpest," Bamiko, Mali, April 12, 1989.

AHARI-ILCA-Addis Ababa University, Addis Ababa, Ethiopia, "Use of Infectious Vaccinia Virus Recombinants in Immunology," October 15, 1987.

Agricultural Canada, Animal Disease Research Institute: "Recombinant DNA-Derived Vaccines and Rapid Diagnostic Kits," February 22, 1988.

The Fifth International Symposium on the Immunobiology of Proteins and Peptides, Vaccines (Mechanism, Design and Application), Chateau Lake Louise, Alberta, Canada: "Use of Lymphokines as Adjuvants, Oct 2-5, 1988.

The Organization of African Unity/Pan African Rinderpest Eradication Program, "Development of a Vaccinia Virus Recombinant Vaccine and a Rapid Diagnostic Kit for Rinderpest," Nairobi, Kenya, April 19, 1989.

The University of Campala and the Ministry of Agriculture of Uganda, "Development of Recombinant Vaccines for Rinderpest," Campala, Uganda, April 24, 1989.

The Kenyan Agricultural Research Institute: "Infectious vaccinia virus recombinant vaccines for rinderpest," Muguga, Kenya, April 25, 1989.

WHO/United Nations: "A vaccinia virus recombinant vaccine for rinderpest," Geneva, Switzerland, June 20, 1989.

FAO/United Nations: "A vaccinia virus recombinant vaccine for rinderpest," Rome, Italy, June 27, 1989.

OIE, Paris, France: "A vaccinia virus recombinant vaccine for rinderpest," August 22, 1989.

FAO/United Nations: Workshop on Biotechnology applied to Animal Production and Health, October 6-13, 1989. "Review of Vaccine Biotechnology" - Tuesday, October 10, 1989; "New Rinderpest Vaccine," Thursday, October 12, 1989.

FAO/United Nations: Workshop on Biotechnology Applied to Animal Production and Health, Beijing, China: Two presentations: "Review of Vaccine Biotechnology, October 10, 1989, and "New Rinderpest Vaccine," October 12, 1989.

FAO/United Nations: The National Dairy Development Board of India, "Development of Rinderpest Vaccine," Hyderabad, India, November 22, 1989; and "Vaccinia Virus Recombinant Vaccine for Rinderpest," Anand, India, November 23, 1989.

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- University of Zurich, Institute of Virology, "Development of Recombinant Vaccines," Zurich, Switzerland, February 6, 1990.
- Ciba-Geigy Prize for Research in Animal Health Lecture, "Prospects for Global Eradication of Rinderpest," Basel, Switzerland, February 7, 1990.
- University of Berne, Institute of Virology, "Development of Adjuvant genes for Vaccinia Virus Recombinants," Berne, Switzerland, February 8, 1990.
- University of de Lausanne, Institute de Biologie Animale, Batment de Biologie, "Vaccinia virus Recombinant Vaccines," Lausanne, Switzerland, February 9, 1990.
- The Kenyan Agricultural Institute: The First National Biotechnology Conference: "Genetically Engineered Viral Vaccines," Nairobi, Kenya, February 27, 1990.
- Armauer Hansen Research Institute (AHARI), The Norwegian and Swedish Save the Children Organizations, "Development of Recombinant Vaccines and Rapid Diagnostic Kits for Infectious Agents," Addis Ababa, Ethiopia, March 6, 1990.
- FAO/United Nations: Pan African Vaccine Center, "Transfer of Technologies in Molecular Biology to Developing Nations," Debre Zeit, Ethiopia, March 9, 1990.
- Second Latin American and National Fair and Congress of Biotechnology, Round-Table discussion on "Biotechnology and Animal Health," San Paulo, Brazil, July 6-10, 1991.
- FENABIO-BIOLATINA Conference 91: "The Role of Biotechnology in the Development of Recombinant Vaccines and Rapid Diagnostic Kits," San Paulo, Brazil, July 6-11, 1991.
- Pan American Health Organization/WHO - Pan American Foot and Mouth Disease Center, Rio de Janeiro, Brazil. "Development of a recombinant vaccine and a rapid diagnostic kit for rinderpest," July 8, 1991.
- Centro De Biotechnologia Do Estado Do Rio Grande Do Sul: "Application of molecular biology in the development of recombinant vaccines," Porto Alegre, Brazil, July 12, 1991.
- Correido Do Povo Television in Porto Alegre, Brazil: "Current developments of recombinant vaccines for rinderpest and human immunodeficiency virus" broadcast live on July 15, 1991.
- Minister of Agriculture of the State of Rio Grande Do Sur of Brazil: Guest of the State Veterinary. July 15, 1991.
- FAO/United Nations: Expert Consultation on Quality Control of Veterinary Vaccines in Developing Countries: "Genetically Engineered Vaccines" and "Attenuation of Virulence and Enhancement of Immunogenicity, Rome, Italy, December 2-6, 1991.
- Indian Veterinary Research Institutes at Izatnagar, Mukteswar, and Banglore, India, March 1992.
- National Dairy Development Board, India, March 1992.
- California State University, Sacramento: "Africa and the New World Order," May 8-9, 1992.
- International Congress for Infectious Diseases, Kenyatta International Conference Centre, "Development of Vaccinia Virus Recombinant Vaccines for a Number of Diseases," Nairobi, Kenya, June 7-11, 1992.
- Cairo University: Transfer of Technologies in Mol Biology to Developing Countries," Cairo, Egypt, June 12, 1992.
- University of Pertanian Malaysia: Trends in Biotechnology in the Asia-Pacific Region, "An Overview on Medical Biotechnology," Kuala Lumpur, Malaysia, August 1, 1992.
- University of Milano: Seminar on "The Role of Biotechnology in the Development of Recombinant Vaccines and Rapid Diagnostic Kits," Milan, Italy, September 28, 1992.
- United Nations Industrial Development Organization (UNIDO), International Centre for Genetic Engineering and Biotechnology Conference on Biotechnology Research & Development Trends: Science Policy for Development, "Transfer of Technologies in Molecular Biology to Developing Countries: Recombinant Vaccines and Rapid Diagnostic Kits for Diseases in the Developing World," Trieste, Italy, October 2 - 6, 1992.
- FAO/United Nations: "Transfer of Technologies in Molecular Biology to Developing Countries/Recombinant Vaccines and Rapid Diagnostic Kits," Food and Agriculture Organization of the United Nations, Rome, Italy, October 7, 1992.
- FAO/UN: Expert Consultation on Strategy for Global Rinderpest Eradication, Rome, Italy, October 27 - 29, 1992.
- Fifth International Congress on the Impact of Viral Diseases in the Developing World, "Biotechnology & Animal Health," Cairo, Egypt, November 4, 1992.
- Hoechst, AG, "Recombinant Vaccines and Rapid Diagnostic Kits," Frankfurt, Germany, December 3, 1992.
- United Nations Industrial Development Organization (UNIDO), International Centre for Genetic Engineering and Biotechnology Conference on Biotechnology Research & Development Trends: Keynote Speaker, Science Policy for Development, "Transfer of Technologies in Molecular Biology to Developing Countries:

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- Recombinant Vaccines and Rapid Diagnostic Kits for Diseases in the Developing World," New Delhi, India, December 7, 1992.
- Trinational Animal Health Project (TAHRP) Fourth Scientific Workshop and Symposium, "Animal Health Challenges & Perspectives", Tiberias, Israel, April 23-24, 1995.
- Fifth International Congress on the Impact of Viral Diseases in the Developing World: "A Modern Vaccine for an Ancient Virus Plague: Rinderpest", Johannesburg, South Africa, July 14, 1995
- National Agricultural Project: Recombinant Vaccine for Rinderpest, Regional Seminar on the Application of Biotechnology in Animal Health, Cairo, Egypt, December 5, 1995.
- Guest of the Italian Government to present a series of lectures in Rome, Naples, Pisa, and Milan, December 29, 1995 - January 28, 1996.
- University of Zurich School of Veterinary Medicine, January 29, 1996.
- First Pan-African Conference on Biochemistry and Molecular Biology for Sustainable Agriculture in Africa, Nairobi, Kenya: Opening address speaker, September 2, 1996.
- International Atomic Energy Agency, Planning and Coordination Seminar, Surveillance Needs for the Final Eradication of Rinderpest from Africa: Invited speaker, Recent Developments on Recombinant Vaccines and Rapid Diagnostic Kits for Rinderpest and Peste des Petite Ruminants, Vienna, Austria, January 15, 1997.
- Biotechnology Development in Africa: Priorities for the Early 21st Century, Enugu, Nigeria: Modern Biological Developments in Vaccines, February 9, 1997.
- Combined Workshop on FIV and SIV Vaccination, Paris, France, March 12 - 16, 1997. Keynote Lecturer. 1997 Forum Engleberg, Zurich, Switzerland, March 18 - 21, 1997. Guest lecturer on Animal Production.
- OAU/IBAR East African Coordination Meeting, Nairobi, Kenya, March 24 - 26, 1997. Invited Speaker: Cow-side Diagnostic Kit for Rinderpest.
- FAO/IAEA International Symposium on Diagnosis and Control of Livestock Diseases using Nuclear and Related Techniques Towards Disease Control in the 21st Century, Vienna, Austria, April 7 - 11, 1997. Guest Speaker: Overview of Technologies Exploited in Animal Disease Diagnosis.
- 9th Annual Meeting of the National Cooperative Vaccine Development Groups for AIDS (NCVDG), Bethesda, Maryland, May 4 - 7, 1997. Guest Speaker: Expression of Interferon-Gamma by SIV increases Attenuation and Vaccine Efficacy for Juvenile and Neonatal Rhesus Macaques.
- United Nations Environmental Protection (UNEP): Invited Speaker, Development of Biosafety Protocol, Montreal, Canada, February 11, 1998.
- OAU/IBAR/PARC: Invited Speaker. 9th Annual East African Coordination Meeting. April 26-28, 1997.
- International Atomic Energy Agency/United Nations. Invited Speaker in Dakar, Senegal and Nairobi, Kenya on Recombinant Rapid Diagnostic Kits for Rinderpest. April 24-May 21, 2000.
- International Atomic Energy Agency/United Nations. Invited Speaker on the seromonitoring and surveillance of rinderpest throughout Africa Phase III Results of 1998. October 15-21, 2000. Vienna, Austria.
- International Atomic Energy Agency/United Nations. Invited Speaker Fourth Scientific Forum ABiotechnology for Development: Human and Animal Health Perspectives. @ September 17-21, 2001.
- International Atomic Energy Agency. Invited Speaker Regional Training Workshop AUpdate on Technologies for the Surveillance of Rinderpest Freedom. @ Dakar, Senegal, November 19-30, 2001.
- Organization of African Unity/ Interafrican Bureau for Animal Resources. Invited Speaker for OAU/IBAR 50 year Anniversary. AImplementation of iELISAnrpv and v2RVFH Vaccine for Rinderpest. @ Nairobi, Kenya, December 14, 2001.
- OAU/IBAR. Invited speaker, Workshop on mild rinderpest. Nairobi, Kenya, June 17-19, 2002.
- FAO/UN Global Eradication of Rinderpest. Rome, Italy. September 30-October 4, 2002.
- European Commission, Towards Sustainable Agriculture for Developing Countries: Options from Life Sciences and Biotechnologies. Invited Speaker, ASharing Sustainable Technologies Among Developing Countries to Enhance Livestock Production: The Rinderpest Story, @ Brussels, Belgium. January 30th-31st, 2003.
- University of Zurich. Invited Speaker, ATechnology Transfer in Recombinant Vaccines and Rapid Diagnostic Kits to Developing Counties. Rinderpest and AIDS. @ Zurich, Switzerland, February 3, 2003.
- Global Biotechnology Forum. Invited speaker, "Vaccines and Rapid Diagnostic Kits for Developing Countries." Concepción, Chile, March 2nd - March 5th, 2004.
- University of Chile. Invited Speaker, "Strategies for Enhancing the Safety & Efficacy of Recombinant Vaccines: AIDS, Smallpox, & Rinderpest." Santiago, Chile, March 9th, 2004.

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Workshop on Optimization of Epidemiosurveillance Systems in PACE Member Countries. Invited Speaker, “The Urgency to Promote Science & Technology in Africa.” Dakar, Senegal, August 23-26th, 2004.

Trinity College. Invited Speaker, “Strategies for Enhancing the Safety and Efficacy of Recombinant Vaccines.” Dublin, Ireland, September 3rd, 2004.

African Genome Initiative. Invited Speaker, “Transfer of Technologies in Molecular Biology To Developing Countries: Strategies for Enhancing the Safety & Efficacy of Recombinant Vaccines.” Nairobi, Kenya, March 25th-28th, 2005.

Press Coverage (Selected List)

1. The British Broadcasting Corporation (BBC) of London (three different programs on the development of a recombinant vaccine for rinderpest):
 - a. The World Farming Program
 - b. Science and Medicine
 - c. Horizon and NOVA (one hour documentary in preparation)
2. The Voice of America: Interviewed four different times for the following programs:
 - a. English Program to the World
 - b. English Program to Africa
 - c. Amharic Program to Ethiopia
3. Interviewed on Radio and Television Programs of Switzerland upon receiving the Ciba-Giegy Award, February 1990.
4. Swiss Televisions one-hour documentary on the rinderpest vaccine (telecast March 15, 1990).
5. Interviewed on Radio and Television Programs in Kenya, March 1990.
6. Interviewed on Radio and Television Programs in Ethiopia, March 1990.
7. Interviewed on CBS Radio, 1989.
8. One hour program on the Australian BBC, 1994.
9. Extensive global coverage in newspapers including the Wall Street Journal, the New York Times, the London Times, and the International Herald Tribune, on the development of the recombinant vaccine for rinderpest, 1990-96.
10. Extensive local coverage in newspapers and newsletters including Davis Enterprise, Sacramento Bee, UC Davis Dateline, Davis News & Review, UC Davis School of Veterinary Medicines Research Newsletter, UC Davis Newstips, 1990-96.
11. Featured on Cable News Networks (CNN) On the Menu, Biotechnology Approach to World Hunger, broadcast September 10, 1995.
12. The Economist, pp. 79-80, Aug. 14, 1993: Save the Cows.
13. Featured on the Discovery Channel on the positive impact of the rinderpest vaccine in alleviating hunger in Africa and Asia, 1995.
14. Featured in the 1992 BioTechnology Winter Symposia, Advances in Gene Technology: Feeding the World in the 21st Century.
15. Featured, NIH Newsletter, A Novel Approach to Attenuation April, 1996.
16. Featured on the cover of Biotechnology, Vaccines for Ancient Plagues, 8:1007-1009, 1990.
17. Interviewed CNN Television Foot-and-mouth disease outbreak in Europe, March 24, 2001.
18. Interviewed KQED NPRC Foot-and-mouth disease and BSE in Europe, March 24, 2001.
19. Interviewed to the Wall Street Journal on Thursday March 22, 2001 on foot-and-mouth disease.

Current Grant Support

Total Amount

Period of Support

1. NIH/NIAID Smallpox Vaccine (PI).....	\$1,769,727	2005-2010
2. Office of Naval Research (PI, Subcontract)	\$1,092,805	2004-2007
3. NIH/NIAID SMART Virus Vectors (Co-PI).....	..\$408,375	2004-2007
4. NIH Smallpox Vaccine (PI).....	\$1,332,956	2003-2007
5. IAEA Rinderpest (PI).....	..\$250,000	1999-Open

Past Grant Support

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1. Arizona State University	\$295,141	2005-2006
2. NIH Safer and More Efficacious AIDS Vaccine.....	\$222,750	2002-2004
3. USAID Rinderpest Vaccine for Africa	\$875,000	2000-2004
4. NIH Recombinant vaccines SIV (PI)	\$1,761,894	1997-2000
5. NIH Mucosal immunity SIV (PI)	\$1,412,088	2000-2003
6. NIH SIV Antigen Production (PI).....	\$230,000	1999-2001
7. IAEA Rinderpest Diagnostic (PI).....	\$148,000	1999-2001
8. USAID Travel Fund -Rinderpest (PI)	\$25,000	1999-2000
9. NIH SIV Vaccine.....	\$172,967	1996-1998
10. NIH SIV Vaccine.....	\$16,000	1996-1998
11. NIH VSV Grant	\$761,894	1994-1999
12. US Army Grant (PI)	\$ 971,618	1995-1998
13. LDRL Formula Grant (PI)	\$50,000	1991-1998
14. QFAO/United Nations (DebreZeit, Ethiopia).....	\$30,000	
15. NIH-Grant No. A129207 (PI).....	\$2,137,600	
16. USAID-Egypt (PI).....	\$1,839,584	
17. US AID Department of State (PI).....	\$870,000	
18. NIH Grant No. AI26471 (Co-PI).....	\$5,300,000	
19. NIH-Pulmonary (Co-PI).....	\$1,046,670	
20. NIH-Training Grant HIV (Co-PI).....	\$868,800	
21. NIH-Pediatrics (Co-PI)	\$1,735,638	
22. Genentech, Inc, Bovine IFN-q (PI)	\$32,315	
23. USDA Grant No. 83-CRSR-2-2189, 1984-1985 (PI)	\$149,985	
24. USDA Grant No. 85-CRSR- (PI)	\$139,303	
25. USDA Grant No.85-CRSR-1-1710 (PI)	\$140,000	
26. USDA Grant No.84-CRSR-2-2514, 1984-1986 (PI).....	\$98,000	
27. USDA Grant No.85-CRSR-2-2189 (PI)	\$57,000	
28. Washington Technology Center (PI).....	\$200,000	
29. Washington State High Technology Commission (PI)	\$80,000	
30. California Biotechnology Inc.(PI)	\$44,000	
31. Equine Research Program No.10S-3925-0044, 1984-1985	\$37,000	
32. Genentech, Inc., 1984 (PI)	\$23,000	
33. Genentech, Inc, 1984-1986 (PI).....	\$32,315	
34. Idaho Beef Council, 1984-1985 (PI)	\$19,200	
35. Biomedical Research Support Grant, 1980 (PI)	\$2,000	
36. NIH, Office of Grant and Research Development, 1982 (PI)	\$7,500	
37. American Cancer Society, 1982 (Co-PI)	\$5,728	
38. Univ. of Calif.-MEXUS Advisory Committee (PI).....	\$2,000	
39. Univ. of Calif. Faculty Research Grant (PI)	\$1,500	
40. FAO/United Nations(for Davis)	\$10,000	

Publications List

1. Yilma T, McVicar JW, Breese SS Jr: Prelytic release of foot-and-mouth disease virus in cytoplasmic blebs. *J Gen Virol* 41: 105-114, 1978.
2. Yilma T, Zee YC, Osebold JW: Immunofluorescence determination of the pathogenesis of infection with influenza virus in mice following exposure to aerosolized virus. *J Infect Dis* 139: 458-464, 1979.

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3. Yilma T, Breese SS Jr: Morphogenesis of the assembly and release of bovine enterovirus. *J Gen Virol* 49: 225-230, 1980.
4. Yilma T: Morphogenesis of vesiculation in foot-and-mouth disease. *Am J Vet Res* 41: 1537-1542, 1980.
5. Blackwell HJ, Yilma T: Localization of infectious foot-and-mouth disease virus in alveolar cells of the bovine mammary gland. *Am J Vet Res* 42: 770-773, 1980.
6. Yilma T, McGuire TC, Perryman LE: Preliminary characterization of equine interferons and their antiviral activities on bovine, ovine, and human cells. *J Interferon Res* 2: 363-370, 1982.
7. Yilma T, Perryman LE, McGuire TC: Deficiency of interferon- α , but not interferon- β in Arabian foals with severe combined immunodeficiency. *J Immunol* 129: 931-933, 1982.
8. Yilma T: Sensitivity of ovine choroid plexus cells to human and other animal interferons. *J Gen Virol* 64: 2013-2016, 1983.
9. Yilma T, Breeze RG, Leib SR: Greater sensitivity of caprine synovial membrane cells to human interferon-alpha than human or bovine cells. *Am J Vet Res* 45: 2094-2095, 1984.
10. Yilma T, Breeze RG, Ristow S, Gorham J, Leib SR: The immune response of cattle and mice to the G glycoprotein of vesicular stomatitis virus. *Immunobiology of Proteins and Peptides*, 3:101-115, 1984.
11. Huang SA, Yilma T, Wu T-Y: Correlation between virulence of vesicular stomatitis virus isolates and continued high titers during undiluted passage. *Proc Int Conf Vesicular Stomatitis*, Mexico City, D.F., Mexico, 1: 523-541, 1984.
12. Yilma T, Owens S, Adams DS: Preliminary characterization of a serum viral inhibitor in goats. *Am J Vet Res* 46: 2360-2362, 1985.
13. Davis WC, Yilma T, Perryman LE, McGuire TC: Perspectives on the application of monoclonal antibody and transfection technology in veterinary microbiology. *Prog Vet Microbiol Immunol* 1: 1-24, 1985.
14. Mackett M, Yilma T, Rose JK, Moss B: Vaccinia virus recombinants: Expression of VSV genes and protective immunization of mice and cattle. *Science* 227: 433-435, 1985.
15. Yilma T: Use of ovine and caprine cells to measure antiviral effects of interferon. *Methods Enzymol* 119: 551-558, 1985.
16. Yilma T: Induction of equine interferons. *Methods Enzymol* 119: 130-136, 1985.
17. Yilma T, Breeze RG, Ristow S, Gorham J, Leib SR: Immune responses of cattle and mice to the G glycoprotein of vesicular stomatitis virus. *Adv Exp Med Biol* 150: 101-115, 1985.
18. Yilma T, Breeze RG: New technology for prevention and control of infectious bovine respiratory diseases. *Vet Clin North Am* 1(2): 419-439, 1985.
19. Yilma T, Mackett M, Rose JK, Moss B: Vaccinia virus recombinants expressing vesicular stomatitis genes immunize mice and cattle. In: Quinnan GV ed. *Vaccinia Viruses as Vectors for Vaccine Antigens*. New York: Elsevier-North Holland, pp. 187-200, 1985.
20. Jones L, Ristow S, Yilma T, Moss B: Accidental human vaccination with vaccinia virus expressing nucleoprotein gene. *Nature* 319: 543, 1986.

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21. Huang AS, Wu T, Yilma T, Lanman G: Characterization of virulent isolates of vesicular stomatitis virus in relation to interference by defective particles. *Microbial Pathogenesis* 1: 205-215, 1986.
22. Workman T, Shen D, Woodard L, Yilma T: An enzyme-linked immunoassay for the detection of bovine antibodies to vesicular stomatitis. *Am J Vet Res* 47: 1507-1512, 1986.
23. Yilma T, Breeze RG, Ristow S, Gorham J, Leib SR: A glycoprotein subunit vaccine for vesicular stomatitis. *Proc World Assn for Buiatrics (XIV World Congr Dis Cattle)* 1: 408-413, 1986.
24. Yilma T, Mackett M, Rose JK, Moss B: A vaccinia vector vaccine for vesicular stomatitis. *Proc World Assn for Buiatrics (XIV World Congr Dis Cattle)* 1: 402-407, 1986.
25. Yilma T: Biotechnology for Livestock Production. In: Mahey B. ed. *Virus Vector Vaccines*. Food and Agriculture Organization of the United Nations, Rome, Italy. AGA: BIOT/86/32: 2-20, 1986.
26. Leid RW, Suquet CM, Grant RF, Tanigoshi L, Blanchard DB, Yilma T: Taeniaestatin, a cestode proteinase inhibitor with broad host regulatory activity. In: Agabian N, Goodman H, Noguiera N. *Molecular Strategies of Parasitic Invasion*. UCLA Symposium on Molecular and Cellular Biology, 42: 653-663. New York, Alan R. Liss, 1987.
27. Yilma T, Ristow S, Moss B, Jones L: A novel approach for the production of monoclonal antibodies using infectious vaccinia virus recombinants. *Hybridoma* 6: 329-335, 1987.
28. Yilma T, Anderson K., Brechling K, and Moss B: Expression of an adjuvant gene (IFN-gamma) in infectious vaccinia virus recombinants. *Vaccines*, pp. 393-396, 1987.
29. Osburn BI, Yilma T: Animal Disease Diagnostics and Vaccines. *ROC-USA Agricultural Biotechnology Workshop*, pp. 64-82, 1987.
30. Yilma T: Adjuvant genes for infectious virus recombinant vaccines: Use of lymphokines as adjuvants. *Biotechnology U.S.A.* 238-246, 1987.
31. Yilma T, Owens S, Adams SD: High levels of interferon in synovial fluid of retrovirus-infected goats. *J Interferon Res* 8: 45-50, 1988.
32. Anderson P K, Fennie H, Yilma T: Enhancement of a secondary antibody response to vesicular stomatitis virus AG θ protein by interferon-gamma treatment at primary immunization. *J Immunol* 40: 3599-3604, 1988.
33. Grubman M, Mebus C, Dale B, Yamanaka M, Yilma T: Analysis of the polypeptides synthesized in rinderpest virus-infected cells. *Virology* 163: 261-267, 1988.
34. Ristow S, Leendersten L, Gorham J, Yilma T: Identification of a neutralizing epitope shared by bluetongue virus serotypes 2 and 13. *J. Virol.* 62: 2502-2504, 1988.
35. Hsu D, Yamanaka M, Miller J, Dale B, Grubman M, Yilma T: Cloning of the fusion gene of rinderpest virus: comparative sequence analysis with other morbilliviruses. *Virology* 166: 149-153, 1988.
36. Yamanaka M, Hsu D, Dale B, Crisp T, Grubman M, Yilma T: Cloning and sequence analysis of the hemagglutinin gene of the virulent strain of rinderpest virus. *Virology* 166: 251-253, 1988.
37. Yilma T: Animal Biotechnology. In: *The National Academy of Sciences & National Research Council: "Science & Technology for Development: Prospects Entering the 21st Century"* pp. 38-40, 1988.

38. Yilma T., Hsu D., Jones L., Owens S., Grubman M., Mebus C., Yamanaka M., Dale B: Protection of cattle against rinderpest with vaccinia virus recombinants expressing the HA or F gene. *Science* 242: 1058-1061, 1988.
39. Dale B, Brown R, Kloss, JM, Cordell B, Moore BO, Yilma T.: Generation of vaccinia virus-equine influenza A virus recombinants and their use as immunogens in horses. *Fifth International Conference on Equine Infectious Diseases*, 80-87, 1988.
40. Yilma T.: Vaccinia virus as a vector for other antigens. *Proc. U.S. Ani. Hlth. Assn* 92: 94-99, 1988.
41. ole-MoiYoi OK., Nayar A., Iams K., Musoke AJ, Yilma T.: Molecular Aspects of Theileria parva and Approaches to Vaccine Development for Animals. In: Bloom BR, Cerami A eds. *Biomedical Science and the Third World: Under the Volcano. Annals of the New York Academy of Sciences* 569: 174-182, 1989.
42. Yilma T., Hsu D., Jones L., Owens S., Grubman M., Mebus C., Yamanaka M., Dale B: Expression of rinderpest genes in vaccinia virus Recombinants: Protective immunization of cattle. *Vaccines*, pp. 393-396, 1989.
43. Yilma T., Owens S, Fennie H, Anderson PK: Enhancement of primary and secondary immune responses by interferon-gamma. *Adv. Exp. Med. Bio.* 251: 145-152, 1989.
44. Yilma T.: Prospects for the total eradication of rinderpest. *Vaccine* 7: 484-485, 1989.
45. Yilma T.: A recombinant vaccine for rinderpest. In: Mukherjee, T.K., ed. *Proceedings of the FAO/UNDP Workshop on Biotechnology in Animal Production and Health in Asia and Latin America*. Beijing, Oct 9-13, 1989.
46. Yilma T.: Virus Vector Vaccines. *Biotechnology for Livestock Production*, Chapter 33: 359-375, 1989.
47. Limo M, Yilma T.: Molecular cloning of the rinderpest virus matrix gene: comparative sequence analysis with other paramyxoviruses. *Virology* 175: 323-327, 1990.
48. Yilma T.: Accomplishments in recombinant vaccines. In Vasil I.K., ed. *Biotechnology: Science, Education, and Commercialization*. New York: Elsevier-North Holland, pp 71-77, 1990.
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50. Fox LK, Liggit HD, Corbeil LB, Yilma T.: The effect of interferon-gamma intramammary administration on mammary phagocyte function. *J. Vet. Med.* 37: 28-30, 1990.
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