CURRICULUM VITAE

Name:	Preston A. Marx, Jr., Ph.D.
Address:	Tulane National Primate Research Center Division of Microbiology 18703 Three Rivers Road Covington, LA 70433
Telephone:	(985) 871-6255
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Email:	pmarx@tulane.edu
Date of Birth:	December 1, 1943
Place of Birth:	New Orleans, Louisiana
Marital Status:	Single, three children
Home address:	101 Eagle Road Covington, LA 70435
Home Phone:	(985) 875-7996

Academic Appointments:

1998 - Present	Professor Department of Tropical Medicine School of Public Health and Tropical Medicine Tulane University Health Sciences Center New Orleans, LA
2001 – Present	Chair Division of Microbiology Tulane National Primate Research Center Tulane University Health Sciences Center Covington, LA
2003 – Present	Adjunct Professor Department of Pathobiological Sciences Louisiana State University School of Veterinary Medicine Baton Rouge, LA
1995 - 1998	Adjunct Scientist Department of Mammology American Museum of Natural History New York, NY
1994 – 2002	Principal Investigator Aaron Diamond AIDS Research Center New York, NY
1994 - 1998	Professor Department of Microbiology New York University Medical Center New York, NY
1990-1994	Professor and Director New Mexico Regional Primate Research Laboratory New Mexico State University Holloman Air Force Base, NM 88330-1027
1983-1990	Head of Virology and Immunology Division California Regional Primate Research Center University of California, Davis, CA 95616

1981-1982	Assistant Professor Department of Medical Technology Xavier University New Orleans, LA 70125
1974-1981	Assistant Professor Department of Microbiology Thomas Jefferson University Philadelphia, PA 19107
1969-1972	Instructor Department of Microbiology Louisiana State University Medical Center New Orleans, LA

Post-doctoral/Pre-doctoral Fellowship Training:

1972-1974	Post-Doctoral Research Fellow David W. Kingsbury - Advisor St. Jude Children's Research Hospital
1972-1974	Post-Doctoral Fellow (Mentor David W. Kingsbury, Paramyxovius Replication) Division of Virology and Immunology St. Jude Children's Research Hospital Memphis, TN Memphis, Tennessee
1966-1969	Pre-doctoral Fellow in Microbiology Louisiana State University Medical Center New Orleans, LA

Education:

1966	BS in Biology University of New Orleans, New Orleans, LA
1969	Ph.D. in Microbiology Louisiana State University Medical Center, New Orleans, LA Thesis Title: Combined Influenza and Hemophilus Influenzae Infections Thesis Advisor, G. John Buddingh, MD.

Honors:

1970	Summer Fellow, Institutes of Tropical Medicine, University of Pernambuco, Brazil
1987	James H. Meyer Distinguished Research Award, University of California
1998	Visiting Professor for Minority Institutions University of Puerto Rico, San Juan, PR
1998	Visiting Professor, Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, P.R. China
2000	Visiting Professor, Kuwait University, Kuwait
2003-2004	Outstanding Achievement and Commitment to Excellence in Total Competitive Research Funding, Tulane University Health Sciences Center and its Board of Governors

Journal Editor and Editorial Boards:

1994-present	Editorial Board, Journal of Medical Primatology
1995-2001	Editor, Annual AIDS Issue, Journal of Medical Primatology
1998-.1	Editorial Board, HIV Plus
2001-present	Editorial Board, Current HIV Research
2004-present	Editor-in-Chief, Journal of Medical Primatology
2007-present	Editorial Board, The Open Microbiology Journal

Journal Review Assignments:

1985-2000	Reviewer for Nature, Nature Medicine, Science, AIDS, Journal of Virology, American Journal of Pathology, AIDS Research & Human Retroviruses, Virology, Journal of Infectious Diseases, Journal of Clinical Investigation and Trends in Immunology, vaccines

Organizing Committees and Executive Committee Assignments:

PRESENT

2008-present	Chair, Director Search for the Center for Infectious Diseases, Tulane University Health Sciences Center, New Orleans, LA
2008-present	Interim Director, Center for Infectious Diseases, Tulane University Health Sciences Center, New Orleans, LA
1998-present	Executive Advisory Committee, Washington Regional Primate Research Center, Seattle, WA
1998-present	The Welcome Trust, Grant Review Committee
1998-2005	Executive Advisory Committee, Pediatric AIDS Foundation, Santa Monica, CA
2000-2004	AIDS Research Advisory Committee, NIH, NIAID, Bethesda, MD
2000-2005	Scientific Review Committee - Annual Symposium on Non-human Primate Models for AIDS
2002-present	Board of Director's, Sarah House AIDS Hospice, Santa Barbara, CA
2005-present	University-wide Conflict of Interest Committee, Tulane University

Tulane University Committees

1998-present	Faculty Grievance Committee, Department of Tropical Medicine, Tulane University Health Sciences Center, School of Public Health and Tropical Medicine, New Orleans, LA
2002-present	Tulane Space Allocation Committee, Tulane Regional Primate Research Center, Covington, LA
2000-present	Executive Committee, Tulane National Primate Research Center

COMPLETED

2004	Vice President for Research Search Committee, Tulane University Health Sciences Center, New Orleans, LA
2004	Tulane National Primate Research Center Communications Manager Search Committee
2003	Associate Senior Vice-President of Research Search Committee, Tulane University Health Sciences Center, New Orleans, LA
2002	Associate Director of Administration Search Committee, Tulane Regional Primate Research Center, Covington, LA
2000-2002	Microbicides 2002 Organizing Committee and Track Chair, 2nd International Meeting on the Development of Vaginal Microbicides
2001	Tulane Resources Allocation Committee, Tulane Regional Primate Research Center, Covington, LA

2000-2001	Search Committee, Dean, School of Public Health, Tulane University Health Sciences Center, New Orleans, LA
2000-2001	2010 Planning Imperative Committee on Research Services and Research Infrastructure, Tulane University Health Sciences Center, New Orleans, LA
2000-2001	Infectious Disease Research Presidential Symposium Organizing Committee, Tulane University Health Sciences Center, New Orleans, LA
2000	14th World AIDS Conference, International Review Committee
1999-2000	Reproductive Physiologist Search Committee, Tulane Regional Primate Research Center, Covington, LA
1999-2000	Microbicides 2000 Organizing Committee and Track Chair, 1st International Meeting on the Development of Vaginal Microbicides
1996-1999	Organizing Committee - Annual Symposium on Non-human Primate Models for AIDS
1998	12th World AIDS Conference, International Review Committee
1995-1998	Aaron Diamond AIDS Research Center, Chairman, Faculty Promotions Committee
1996	Member, International Scientific Committee XI International Conference on AIDS, Vancouver, BC
1992-1996	NIAID - Member, AIDS and Related Diseases Immunology Study Section
1992-1995	Tulane Regional Primate Scientific Research Center, Chairman of the Scientific Advisory Committee
1994	Grant Reviewer MRC, London, Great Britain
1993	Committee for Development of a Regional Spaceport White Sands Missile Range
1991-1993	New Mexico State University Research Council
1988-1990	Univ. of California Chancellor's Technical Advisory Committee on AIDS
1989-1990	Univ. of California Search Committee for Vice-Chancellor for Research
1987-1988	Univ. of California Graduate Council
1987-1988	Univ. of California Academic Planning Council Univ. of California Executive Council of the Academic Staff Organization

Sabbatical Scientists Sponsored

Lisa Chakrabarti, Ph.D.
Scientist
Pasteur Institute
1997 - 2000

Kunlong Ben, Ph.D.
Professor, Director of Laboratory for Primate Immunology
Kunming Institute of Zoology, Chinese Academy of Sciences, Kunming, Yunnan, Peoples Republic of China - 1997

Alexander Voevodin, MD
Scientist, Soviet Academy of Experimental Pathology
Sukhumi, USSR - 1990

Robert G. Webster, Ph.D.
Chairman, Department of Virol. & Molecular Biol.
St. Jude Children's' Research Hospital
Memphis, TN - 1989

Lu Yaozeng, MD
Director of Laboratory Animal Studies
Chinese Academy of Medical Science
Beijing, China - 1988

Teaching Experience:

A. Graduate Courses

Medical Microbiology and Bacterial Physiology	Louisiana State University Medical Center New Orleans, LA
Molecular Virology	Thomas Jefferson University School of Medicine Philadelphia, PA
Virology and Immunology	University of California, Davis, CA,
Virology and Immunology	New Mexico State University, Las Cruces, NM
Virology and Immunology	Tulane University Medical Center, School of Public Health and Tropical Medicine, Department of Tropical Medicine, New Orleans, LA

B. Medical and Dental Courses

Medical Microbiology	Louisiana State University Medical School, New Orleans, LA
Oral Microbiology	Louisiana State University School of Dentistry, New Orleans, LA
Medical Microbiology	Jefferson Medical College, Philadelphia, PA

C. Undergraduate Courses

Immunology and Medical Technology	Xavier University Biology, New Orleans, LA

Graduate Students and Post-Doctoral Fellows:

Binhua Ling, Ph.D. – Aaron Diamond AIDS Research Center, Covington, LA – 1999-2003
Stephen Smith, M.D. - Aaron Diamond AIDS Research Center, New York, NY – 1996 - 1998
Donald Sodora, Ph.D. - Aaron Diamond AIDS Research Center, New York, NY – 1994 - 1998
Zhiwei Chen, Ph.D. - New York University Medical Center, New York, NY – 1991 – 1998
Johnette Browne, M.S. - New Mexico State University, Las Cruces, NM – 1991 - 1994
Amara Luckay, M.S. - New Mexico State University, Las Cruces, NM – 1991 - 1994
Christopher J. Miller, D.V.M., Ph.D. - University of California, Davis, CA – 1987 - 1991
Andrew A. Lackner D.V.M, Ph.D.– University of California, Davis, CA - 1987-1991
Sutjipto Suganto, Ph.D. - University of California, Davis, CA – 1986 - 1988
Eugene Genovesi, Ph.D. - Thomas Jefferson University, Philadelphia, PA – 1980 - 1983
Rosemary Callahan, Ph.D. - Thomas Jefferson University, Philadelphia, PA – 1976 - 1980
Judy Levich, Ph.D. - Thomas Jefferson University, Philadelphia, PA – 1976 - 1980

Professional Society Memberships:

American Society for Microbiology since 1969
American Association for the Advancement of Science
American Society for Virology

Other Memberships:

Audubon Institute
The Planetary Society
American Museum of Natural History
New Orleans Aquarium and Audubon Park Zoo
American Orchid Society
BMW Car Club of America

Patents:

1. "Complete genome sequence of a simian Immunodeficiency virus from a Red-Capped Mangabey"
   Patent Number: US 6,521,739 B1
   Patent Date: February 18, 2003

Federal Grant Support:

ACTIVE:

Principal Investigator marked by *

1. "Immune Responses to VSV/HIV/SIV Hybrids in Macaques"
   NIH, R01 AI45510, Co-Investigator; J. Rose, Principal Investigator
   4/1/99 - 3/31/03
   $2,178,740
   Continuation - 4/1/03 –3/31/12
   $707,115
2. "A Practical Microbicide Based on HIV-1 Inhibitors"
   NIH U19 AI065413, Co-Investigator, J.P. Moore, Principal Investigator
   4/01/08 – 3/31/12
   $3,143,776
3. "VSV Vectored Vaccines for HIV-1"
   NIH N01 AI25458, Co-Investigator, J. Eldridge, Principal Investigator
   5/15/02 – 5/14/06
   $1,443,862
   Continuation – 5/16/06 – 12/28/08
4. "Pathogenesis of New SIVsm Lineages in Rhesus Macaques"
   NIH, Co-Investigator, C. Apetrei, Principal Investigator
   1/1/06 – 12/31/09
5. "DNA Vaccine for Induction of Mucosal Immunity"
   NIH PAR-03-094 – David Weiner, Principal Investigator
   09/01/06 – 08/31/11
   $3,430,261
6. "Ellicitation of Broad Immunity Using VLPs with Consensus Env"
   NIH– Ted Ross, Principal Investigator
   07/01/06 – 06/30/11
   $1,669,034

B. <u>PENDING:</u>

C. <u>SELECTED LIST OF COMPLETED GRANTS:</u>

1. "Evolution of SIV in West Africa"
   NIH, NIAID, 1RO1AI27698-05, Principal Investigator *
2. "Design and Construction of Chimpanzee Housing, New Mexico Regional Primate Research Laboratory"
   GSA, GS-00P-91-BQ-G004, Principal Investigator*, Support: <u>$10,000,000</u> - 1991-1993
3. "Establishment of a Breeding and Research Program".
   NIH, NCRR, Principal Investigator*
   1/90 - 12/92
4. "Utilization of SIV infection for Non-human primates to evaluate experimental chemotherapy and vaccines"
   US. Army , Principal Investigator*
   1/90 - 12/92
   $185,000

5. “Development of animal models of acquired Immunodeficiency syndrome (AIDS) using simian T-Virus (STLV-III)"
   NIH, NIAID, AI62559, Principal Investigator*
   7/1/88 - 4/30/90
6. “Simian acquired Immunodeficiency syndrome”
   NIH, NIAID, Principal Investigator*
   9/1/87 - 8/31/91
7. "Effects of Progesterone Implants on Heterosexual Transmission of AIDS: A Simian Model"
   CONRAD, NIH CSA-94-133, Principal Investigator*
   3/1/94 - 3/1/95
8. "Mucosal SIV Vaccines in Male Rhesus Macaques"
   CMIG, NIH RO1 AI36598, Principal Investigator*
   Showed Immunogenicity of various mucosal routes.
9. “Systemic approach to vaccines for retroviral diseases”
   NIH, NIAID, A124292
10. “Heterosexual transmission of AIDS: A simian model”
    Eastern Virginia Medical School, CONRAD CSA-99-019, Principal Investigator*
    12/1/87 - 11/30/90
11. “Vaccination for HIV and AIDS”
    NIH, NIAID, AI26471, Principal Investigator*
    4/1/88 - 3/31/93
12. “Comparative neuropathogenesis of SAIDS Retroviruses”
    NIH, DRR, RR00039, Consultant
    9/1/88 - 8/31/93
13. “SIV in macaques is a model for AIDS vaccine development”
    NIH, NIAID, 1-U01-AI29207, Co-investigator
    10/1/89 - 9/30/94
14. “Development of the African Green Monkey as a model for human heterosexual transmission of simian Immunodeficiency virus”
    Eastern Virginia Medical School, CONRAD, CSA-89-049, Principal Investigator*
    7/1/89 - 6/30/90
15. "The protective role of mucosal immunity to SIV & HIV entitled vaccines”
    NCVDG, NIH 1 U01 AI 28147-04, Project Leader
    3/1/89 - 2/28/98
16. “A novel strategy to deliver antigens to dendritic cells”
    NIH PAR-97-042, Co-Investigator; L. Stamatatos, Principal Investigator
    10/1/97 - 9/30/99
17. “Presentation of SIV Delta Nef by Dendritic Cells”
    NIH, PAR-97-042, Co-Investigator; M. Pope, Principal Investigator
18. “Antibody Responses to Oligomeric HIV Envelope Forms”
    AMFAR 02572, Co-Investigator; L. Stamatatos, Principal Investigator
19. "Early Events in Mucosal Transmission of SIV & SHIV"
    NIH, NIAID, R01 AI38573, Principal Investigator*
    9/1/95 - 8/31/99
20. “A novel strategy to deliver antigens to dendritic cells”
    NIH PAR-97-042, Co-Investigator; L. Stamatatos, Principal Investigator
    10/1/97 - 9/30/99
21. “Presentation of inactivated SIV by Dendritic Cells”
    PAF PG-50999, Co-Investigator, Melissa Pope, Principal Investigator
    1/1/00 – 12/31/00
    $31,546
22. “Second Receptors for Primate Immunodeficiency Virus”
    NIH, NIAID, R01 AI41420-01, Co-Investigator; J. Moore, Principal Investigator
    3/1/97 - 2/28/00
    $2,951,370

23. "Center for AIDS Research - Aaron Diamond AIDS Research Center" and Tulane Regional Primate Research Center
    NIH, PA-98-AI-011, Co-Investigator; D.D. Ho, Principal Investigator
    Head of Primate Core
    $8,023,058, 1/1/98 - 12/31/03
24. "The role of mucosal leukocytes in SIV pathogenesis"
    NIH, R01 AI40877-04 A1, Co-Investigator; M. Pope, Principal Investigator
    4/1/97 - 3/31/02
    $1,611,363
25. "HIV Neutralization in vitro and in SHIV-Infected Macaques"
    NIH, HL-97-002, Co-Investigator; J. Moore, Principal Investigator
    9/1/97 - 8/31/02
    $1,660,000
26. "Studies of SIVrcm and related primate lentiviruses in West Africa"
    *NIH, R01 AI44596, Principal Investigator
    9/1/99 - 8/31/04
    $3,533,103
27. "Early inhibitors as tropical microbicides against HIV-1"
    NIH PO1 AI52048, Co-Investigator, J.P. Moore, Principal Investigator
    $3,143,776
    9/30/01 – 9/29/05
28. "Effects of Progesterone and Estrogen on SIV Vaginal Transmission"
    *NIH, R01 AI41952-04
    9/1/97 - 8/31/00
    $1,543,358
    Continuation - 9/1/00 – 2/28/08
    $2,091,822
29. "VSV Vaccine Vectors for Macaque Infections and Disease"
    NCRR, Co-Investigator, P. Whelton, Principal Investigator
    6/1/03 – 4/30/08
30. "Nonhuman Primate and Laboratory Core"
    NIH, Mentor, G. Kousoulas, Principal Investigator
    7/1/04 – 6/30/09
31. "An Improved Macaque Model for SIV and SHIV"
    NIH P1 A41965G1, Principal Investigator
    6/1/02 – 5/31/06
    $2,243,763
    Continuation – 6/1/06 – 5/31/08
32. "Antibody Effector Function in Protection Against HIV-1"
    NIH, Co-Investigator, D. Burton, Principal Investigator
    5/1/03 – 4/30/08
    $2,050,216
33. "HIV Vaccine Design and Development Teams"
    NIH, R43-AI49764, Co-Investigator, P. Maddon, Principal Investigator
    9/27/04 – 9/26/07
    $400,000

Research Collaborations and Sponsored Scientists:

A. <u>USA Collaborations</u>

1. "Dendritic Cells and SIV Mucosal Infections"
   Dr. Melissa Pope – 1996-2003
   The Rockefeller University
   New York, NY

2. "Pleistocene Extinctions and Epidemics"
   Dr. Ross MacPhee – 1994-1998
   American Museum of Natural History
   New York, NY
3. "Vesicular Stomatitis Virus (VSV) as a Vector for AIDS Vaccines"
   Dr. John Rose - Current
   Yale University
   New Haven, CT
4. "HIV Vaccine Design and Development Teams
   Dr. Paul Maddon - Current
   Progenics
   Tarrytown, NY
5. "HIV Neutralization in vitro and in SHIV-Infected Macaques"
   Dr. John Moore - Current
   Cornell University
   New York, NY
6. "Effects of Progesterone and Estrogen on SIV Vaginal Transmission"
   Dr. Stephen Smith - Current
   St. Michael's Medical Center
   Newark, NJ
7. "Studies of SIVrcm and related primate lentiviruses in West Africa"
   Dr. Beatrice Hahn – 1994-2004
   University of Alabama at Birmingham
   Birmingham, AL
8. "Antibody Effector Function Protection Against HIV-1"
   Dr. Dennis Burton - Current
   The Scripps Institute
9. "HIV Vaccine Design and Development Teams"
   Dr. Zimra Israel - Current
   Wyeth Pharmaceuticals
10. "MHC typing of Chinese-Origin Rhesus Long Term Non progressors"
    Dr. Bianca R. Mothe' – Current
    California State University-San Marcos
    San Marcos, California

B. <u>International Collaborations</u>

1. "Studies of SIVrcm and related primate lentiviruses in West Africa "
   Dr. Jean Wickings – 1995-2003
   Centre International de Recherches Medicales
   Franceville, Gabon, West Africa
2. "Mucosal Immunity in AIDS"
   Dr. Kunlong Ben - Current
   Kunming Institute of Zoology, Chinese Academy of Sciences
   Kunming, Yunnan, P.R. China
3. "New Primate Lentivirus in Cameroon"
   Martyn Sama - Current
   Medical Research Station
   Kumba, Cameroon
4. Development of HIV and SIV Research in Equatorial Africa
   Dr. Mirdad Kazanji – 2007-2008
   Center International de Recherches Medicales
   Franceville, Gabon, West Africa

Bibliography (204 publications):

Peer-Reviewed Original Publications:

1. 1974 **Marx, P.A.,** A. Portner and D. W. Kingsbury. Sendai virion transcriptase complex: Polypeptide composition and inhibition by virion envelope proteins. J Virol. 13:107-112.
2. 1974 Portner, A., **P.A. Marx** and D.W. Kingsbury. Isolation and characterization of Sendai virus temperature- sensitive mutants. J Virol. 13:298-304.
3. 1975 **Marx, P.A.**, C. Pridgen and D.W. Kingsbury. Location and abundance of Poly(A) sequences in Sendai virus messenger RNAs. J Gen Virol. 27:247-250.
4. 1975 Portner, A., R.A. Scroggs, **P.A. Marx** and D.W. Kingsbury. A temperature-sensitive mutant of Sendai virus with an altered hemagglutinin-neuraminidase polypeptide: Consequences for virus assembly and cytopathology. Virol. 67:179-187.
5. 1977 Genovesi, E.V., **P.A. Marx** and E.F. Wheelock. Antigenic modulation of Friend virus erythroleukemic cells in vitro by serum from mice with dormant erythroleukemia. J Exp Med. 146:520-534.
6. 1979 Genovesi, E.V., **P.A. Marx** and E.F. Wheelock. Susceptibility of Friend virus antigen-modulated erythroleukemic cells to lysis by T lymphocytes from mice with dormant Friend virus infections. J Immunol. 122:795-800.
7. 1979 Callahan, R.M., **P.A. Marx** and E.F. Wheelock. Group-specific cytolytic antibody directed against the major glycoprotein (gp70) of murine leukemia viruses in serum of mice with dormant FLV infections. Virol. 97:55-67.
8. 1980 Callahan, R.M., **P.A. Marx**, W.G. Marum and E.F. Wheelock. Effect of serum from mice with dormant Friend leukemia viral infections on synthesis and modulation of erythroleukemia cell surface gp70. J Immunol. 125:616-622.
9. 1984 Gravell, M., W.T. London, S.A. Houff, D.L. Madden, M.C. Dalakas, J.L. Sever, K.G. Osborn, D.H. Maul, R.V. Henrickson, **P.A. Marx**, N.W. Lerche, S. Prahalada and M.B. Gardner. Transmission of simian acquired immunodeficiency syndrome (SAIDS) with blood or filtered plasma. Sci. 223:74-76.
10. 1984 **Marx, P.A.,** D.H. Maul, K.G. Osborn, N.W. Lerche, P. Moody, L.J. Lowenstine, R.V. Henrickson, L.O. Arthur, R.V. Gilden, M. Gravell, W.T. London, J.L. Sever, J.A. Levy, R.J. Munn and M.B. Gardner. Simian AIDS: Isolation of a type D retrovirus and transmission of the disease. Sci. 223:1083-1086.
11. 1984 Gravell, M., W.T. London, R.S. Hamilton, J.L. Sever, A.Z. Kapikian, G. Murti, L.O. Arthur, R.V. Gilden, K.G. Osborn, **P.A. Marx**, R.V. Henrickson and M.B. Gardner. Transmission of simian AIDS with type D retrovirus isolate. Lancet. 1:334-335.
12. 1984 Gardner, M.B., **P.A. Marx**, D.H. Maul, K.G. Osborn, R.V. Henrickson, N.W. Lerche, R.J. Munn, B. Bencken and M. Bryant. Simian AIDS - Evidence for a retroviral etiology. Hemat Oncol. 2:259-268.
13. 1985 Maul, D.H., C.H. Miller, **P.A. Marx**, M.L. Bleviss, D.L. Madden, R.V. Henrickson and M.B. Gardner. Immune defects in simian acquired immunodeficiency syndrome. Vet Immunol Immunopath. 8:201-214.
14. 1985 Shiigi, S.M., B.J. Wilson, A. Malley, C.F. Howard, Jr., W.P. McNulty, L.C. Olson, S. Olson, D. Regan, D.R. Burger and **P.A. Marx**. Virus-associated deficiencies in the mitogen reactivity in Celebes black macaques (*Macaca nigra*). J Clin Immunol Immunopath. 35:200-210.
15. 1985 Bryant, M.L., J. Yamamoto, P. Luciw, R.J. Munn, **P.A. Marx**, J. Higgins, N.C. Pedersen, A. Levine and M.B. Gardner. Molecular comparison of retroviruses associated with human and simian AIDS. Hemat Oncol. 3:187-198.
16. 1985 Munn, R.J., **P.A. Marx**, J.K. Yamamoto, and M.B. Gardner. Ultrastructural comparison of the retroviruses associated with human and simian acquired immunodeficiency syndromes. Lab Investigation. 53:l94-l99.
17. 1985 LeGrand, E.K., R.M. Donovan, **P.A. Marx**, J.E. Moulton, A.T.W. Cheung, A.E. Lewis and M.B. Gardner. Monocyte function in rhesus monkeys with simian acquired immune deficiency syndrome. Vet Immunol Immunopath. 10:131-146.

18. 1985 **Marx, P.A.**, M.L. Bryant, K.G. Osborn, D.H. Maul, N.W. Lerche, L.J. Lowenstine, J.D. Kluge, C. Zaiss, R.V. Henrickson, S.M. Shiigi, B.J. Wilson, A. Malley, L.C. Olson, W.P. McNulty, L.O. Arthur, R.V. Gilden, C.S. Barker, E. Hunter, R.J. Munn, G. Heidecker and M.B. Gardner. Isolation of a new serotype of simian acquired immune deficiency syndrome type D retrovirus from Celebes black macaques (*Macaca nigra*) with immune deficiency and retroperitoneal fibromatosis. J Virol. 56(2):571-578.

19. 1986 Bryant, M.L., **P.A. Marx**, S.N. Shiigi, B.J. Wilson, W.P. McNulty, and M.B. Gardner. Distribution of type D retrovirus sequences in tissues of macaques with SAIDS and retroperitoneal fibromatosis. Virol. 150(1):149-160.

20. 1986 Power, M.D., **P.A. Marx**, M.L. Bryant, M.B. Gardner, P.J. Barr, and P.A. Luciw. Nucleotide sequence of SRV-1, a Type D simian acquired immune deficiency syndrome retrovirus. Sci. 231:1567-1572.

21. 1986 Maul, D.H., N.W. Lerche, K.G. Osborn, **P.A. Marx**, C. Zaiss, A. Spinner, J.D. Kluge, M.R. MacKenzie, L.J. Lowenstine, M.L. Bryant, J.R. Blakeslee, R.V. Henrickson and M.B. Gardner. Pathogenesis of simian AIDS in rhesus macaques inoculated with the SRV-1 strain of type D retrovirus. Am J Vet Res. 47(4):863-868.

22. 1986 Shiigi, S.M., B.J. Wilson, A. Malley, R.A. Chandler, C.F. Howard, Jr., L.C. Olson, J.L. Palotay, W.P. McNulty, and **P.A. Marx**. Association of SAIDS/RF- related signs with current or past SAIDS Type 2 retrovirus infection in a colony of Celebes black macaques. Lab Animal Sci. 36(1):20-23.

23. l986 Wilson B.J., S.M. Shiigi, A. Malley, W.P. McNulty, L. Olson, C. Howard, and **P.A. Marx**. Relationship of mitogen reactivity to Type D retrovirus infection in Celebes black macaques. Lab Animal Sci. 36(3):237-239.

24. l986 Shiigi, S.M., B.J. Wilson, R.A. Chandler, A. Malley, L.C. Olson, W.P. McNulty, and **P.A. Marx**. Neutralizing antibody in Celebes black macaques recovering from infection with simian acquired Immunodeficiency syndrome retrovirus Type 2. Clin Immunol Immunopath. 40:283-290.

25. l986 Lerche, N.W., K.G. Osborn, **P.A. Marx**, S. Prahalada, D.H. Maul, L.J. Lowenstine, R.J. Munn, M.L. Bryant, R.V. Henrickson, L.O. Arthur, R.V. Gilden, C.S. Barker, E. Hunter and M.B. Gardner. Inapparent carriers of simian acquired immune deficiency syndrome type D retrovirus and disease transmission with saliva. J Nat Cancer Inst. 77(2):489-495.

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25. 1990 McGraw, T., P. Benjamin, R. Vowels, J.R. Carlson, P.A. Luciw, T. Yilma, **P. A. Marx**, N. Haigwood, K.S. Steimer, and M.B. Gardner. Immune Response of Nonhuman Primates Infected with SIV and Immunogenicity Studies of Lentivirus Vaccine Products. *In:* Brown Fred, Robert M. Chanock, Harold S. Ginsberg, and Richard A. Lerner, (Eds.). Vaccines 90. Cold Spring Harbor Laboratory Press, p.389-392.

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30. 1993 Requirements for Space-Based Research Using a Spaceport, Report to National Aeronautics and Space Administration.

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36. 2001 MacPhee, R., and **P.A. Marx.** The 40,000-year plaque: humans, hyperdisease, and first-contact extinctions. *In*: The Biodiversity Crisis: Losing What Counts. M.J. Novacek (ed.), An American Museum of Natural History p. 84-89.

37. 2003 Veazey, R.S., P.J. Klasse, R.J. Shattock, M. Pope, J.C. Kirijan, J. Jones, T. Ketas, **P.A. Marx**, D.R. Burtonand J.P. Moore. Vaginal application of anti-gp120 monoclonal antibody b12 prevents SHIV-162P vaginal transmission to macaques. M. Vicari, B. Dodet and M. Girard (eds.), Proceedings of XIII Colloque des "Cent Gardes" p. 51-57.

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39. 2004 Apetrei, C., **P.A. Marx**, and S.M. Smith. The evolution of HIV and its consequences. *In:* Infect Dis Clin North Am. 18:369-394.

40. 2005 Apetrei C., **P.A. Marx**. African lentiviruses related to HIV. J Neurovirol. 11 Suppl. 1:33-49. Review.

41. 2007 Drucker, E., C. Apetrei, R. Heimer, and **P.A. Marx**. The role of unsterile injections in the HIV pandemic. *In:* Global HIV Management. W. Greene, J. Lange, M. Sande, P. Volberding (eds.), Saunders, 755-67.

Publications Under Review:

Books

1. Simian Virology
   A..Voevodin and P.A. Marx
   Wiley - Blackwell Publishers
   In-Press 2009

Selected List of Invited Lectureships, Books, Special Presentations and Session Chairs

1. "Variation in the Humoral Immune Responses of Rhesus Monkeys (*Macaca mulatta*) Immunized with Formalin-Inactivated Type D Retrovirus Vaccine and Correlation with the Clinical Disease Outcome"
   III International Conference on AIDS,
   Washington, DC
   June 1987
2. National Cooperative Drug Discovery,
   National Institutes of Health
   Oakland, California
   November 1988
3. "Worldwide Distribution of Type D Retroviruses"
   Symposium on Nonhuman Primate Models for AIDS
   San Antonio, Texas
   November 1988.

4. "Transmission of Simian Immunodeficiency Virus (SIV) Across the Genital Mucosa of Male and Female Rhesus Macaques"
IVth International Conference on AIDS
Stockholm, Sweden
June 1988.
5. "An SIV Model for AIDS"
Veterans Administration Scientific Symposium on AIDS
San Francisco, CA
May 1988
6. "The Natural History of Simian AIDS Type D Retroviruses Inside and Outside Asia"
World Health Organization Global Programme on AIDS
Geneva Switzerland
March 1988
7. "Computer Emulation of Thin Section Electron Microscopy of the Icosadeltahedral Capsid of Human Immunodeficiency Virus"
Iowa Microbeam Society Meeting
Iowa City, Iowa
October 1988
8. Planning Meeting on Animal Models for AIDS
Walter Reed Army and the Division of Research Resources, NIH Bethesda, Maryland
July 1989.
9. IVth International Conference on AIDS and Associated Cancers in Africa
Marseilles, France
October 1989.
10. Animal Models in AIDS
Maastricht, The Netherlands
October 1989.
11. Chinese Academy of Medical Sciences, Institute of Laboratory Animal Science, Guest Lecturer and Visiting Scientist
Beijing, China
December 1989
12. UCLA Symposium on Animal Models of Human Viral Diseases, Keystone, Colorado
March 1990.
13. NIH, AIDS Vaccine Symposium
Clearwater Beach FL
October 1990.
14. "The induction of mucosal immune response to SIV antigens in a primate model",
NIAID and Fogarty International Center, Vaccine Approaches to Mucosal Immunity in AIDS
Melville, NY
September 1991
15. "Environments for the Future"
Diagnon Corporation, Chimpanzee Conservation and Public Health Rockville MD
November 1991.
16. "Evolution of SIV in West Africa"
Institut Pasteur, Department of Virology
Paris, France
January 1992.
17. "Protection with Microencapsulated Vaccines"
National Cooperative Vaccine Development Group
Bethesda, MD
August 1992
18. "Retroviral Vaccines: Use of Animal Models for Human Vaccine Development"
Emory University, Dept. of Virology and Immunology
Atlanta, GA
July, 1993.

19. "SIV Mucosal Vaccines: A Model for Human Vaccines"
Laboratory for Experimental Medicine and Surgery in Primates, New York University,
Tuxedo, NY
July 1993
20. "Induction of Mucosal Immunity to HIV with Microencapsulated Vaccines"
Cambridge Healthtech Institute
Alexandria, VA
March 1994
21. "Mucosal Detection Against Vaginal Transmission with Mucosal Vaccines"
Progenics
Tarrytown, NY
May 1994
22. "Protection Against SIV Vaginal Transmission with a Microencapsulated Vaccine"
Sandoz Forschungsinstitut
Vienna, Austria
October 1994
23. "Simian Immunodeficiency Virus: The Twentieth Century Origins of HIVs"
Yale University
New Haven, CT
February 1995
24. "Early Events in SIV Pathogenesis After Vaginal Transmission"
Harvard Medical School, New England Regional Primate Research Center,
Boston, MA,
September 1995
25. "Early Pathogenesis of SIV: Vaginal Transmission Co-Factors, First Target Cells and Kinetics of SIV Spread"
National Cooperative Vaccine Development Group
Bethesda, MD
February, 1996
26. "Progesterone Implants Increase SIV Vaginal Transmission and Earl Virus Load"
Keystone Symposium, Immunopathogenesis of HIV Infection,
Hilton Head, SC,
March 1996
27. "Progesterone implants Enhance SIV Vaginal Transmission and Early Virus Load"
Biomedicine '96
Washington, DC
May 1996
28. "Hormonal Co-factors in Vaginal Transmission of Primate Lentiviruses"
14th Annual Symposium on Nonhuman Primate Models for AIDS
Portland, OR
November 1996
29. "Parameters of Genital Transmission of SIV"
Brown University
Providence, RI
December 1996
30. Immunology Think Tank
Washington, DC
January 1997
31. Womens Interagency HIV Study
Washington, DC
January 1997
32. Simian AVEG Meeting
Washington, DC
January 1997
33. "Hormones Influence Genital Transmission of SIV and HIV"
4th Conference on Retroviruses and Opportunistic Infections
Washington, DC
January 1997

34. "Changes in Infectivity Associated with Hormonal Modulation"
Reproductive Tract and HIV Transmission
Bethesda, MD
February 1997

35. "Simian Models of SIV Heterosexual Transmission"
Implant Contraceptives: An Illuminating Case Study in Current Dilemmas and Possibilities
Institute of Medicine, National Academy of Sciences
Washington, DC
April 1997

36 "Analysis of Second Receptor in Non-human Primates"
AIDS Pathogenesis Meeting
Keystone, Colorado
April 1997

37. NCVDG/MAP Meeting
Washington, DC
May 1997

38. "Animal Models for Testing Chemoprohpylaxis in Acute Seroconvertors and Others"
Acute Diseases Pathogenesis Meeting
Washington, DC
May 1997

39. "SIV Infection of Macaque: A Model for Cross-Species Transmission and Pathogenesis"
Cross-Species Infectivity and Pathogenesis Meeting
Bethesda, MD
July 1997

40. "Progesterone Implants Increase SIV Vaginal Transmission and Early Virus Load"
St. Michael's Medical Education Seminar
Newark, NJ
August 1997

41. "Spontaneous Infection of a Household Pet Red Capped Mangabey (*Cercocebus torquatus torquatus*) with a New Simian Immunodeficiency Virus having *pol* sequences in the HIV-1 Lineage"
15th Annual Symposium on Non-Human Primate Models for AIDS
Seattle, WA
September 1997

42. "SIV Genetic Diversity in Vaccinated and Naive Macaques"
HIV-1 Infection, Mucosal Immunity and Pathogenesis Meeting
Bethesda, MD
September 1997

43. "The influence of female hormones on SIV and HIV genital transmission"
Institut de Recherches Cliniques de Montreal
Montreal, Canada
October 1997

44. "The influence of female hormones on SIV and HIV genital transmission"
Tulane Regional Primate Research Center
Covington, LA
October 1997

45. "Spontaneous Infection of a Household Pet Red Capped Mangabey (*Cercocebus torquatus torquatus*) with a New Simian Immunodeficiency Virus having *pol* sequences in the HIV-1 Lineage"
University of Massachusetts
Worcester, MA
November 1997

46. "The emergence of HIV-1 and HIV-2: Assessing the evolution and genetic divergence of new SIVs from household pet mangabeys in West Africa"
New York Blood Center
New York, NY
December 1997

47. "The emergence of HIV-1 and HIV-2: Assessing the evolution and genetic divergence of new SIVs from household pet mangabeys in West Africa"
Walter Reed Army Institute of Research
Rockville, MD
February 1998

48. "Natural infection of a household pet mangabey *(Cercocebus torquatus torquatus)* with a new simian immunodeficiency virus related to HIV-1 and HIV-2 has implications for the ancient ancestry of HIV"
Keystone Symposium on HIV Pathogenesis and Treatment
Park City, UT
March 1998

49. "The emergence of HIV-1 and HIV-2: Assessing the evolution and genetic divergence of new SIVs from household pet mangabeys in West Africa"
Centre International de Recherches Medicales - Franceville
Franceville, Gabon
April 1998

50. "A new simian virus from the West African Mangabey: their unique chemokine receptor use and their role in the evolution of HIV-1 and HIV-2"
"Early events for vaginal transmission of simian Immunodeficiency virus in the macaque model: the role of target cells, tropisms and sex hormones in crossing the genital epithelium"
100,000 years of SIV evolution and only 50 years of HIV evolution?"
University of Puerto Rico
San Juan, PR
April/May 1998

51. "CCR5 gene deletions in mangabeys naturally infected with SIV in West Africa"
Merck & Company
Rahway, NJ
June 1998

52. "Early events for vaginal transmission of simian Immunodeficiency virus in the macaque model: the role of target cells, tropisms and sex hormones in crossing the genital epithelium"
"The emergence of HIV-1 and HIV-2: Assessing the evolution and genetic divergence of new SIVs from household pet mangabeys in West Africa"
"Recent progress in AIDS vaccine Development"
"The role of the primate model in AIDS Research"
Kunming Institute of Zoology, Chinese Academy of Sciences
Kunming, P.R. China
July 1998

53. "Characterization of new lentiviruses - co-receptors and CCR5 genetic defects"
HIV/AIDS: Insights from Animal Lentiviruses
Targeted Interventions Branch, Basic Sciences Program, Division of AIDS, NIAID, NIH
Bethesda, MD
September 1998

54. "Natural infection of a homozygous deleted CCR5 red-capped mangabey with a CCR2b-tropic SIV"
16th Annual Symposium on Non-Human Primate Models for AIDS
Atlanta, GA
October 1998

55. "The origins of HIV-1 and HIV-2 in West Africa"
Tulane Medical Alumni Association, Louisiana State Medical Society
Baton Rouge, LA
October 1998

56. "Influence of female hormones on SIV vaginal transmission"
Tulane University Medical Center, Infectious Disease Department
New Orleans, LA
November 1998

57. "The late 20th century origin of HIV-1 and HIV-2"
Tulane Medical Center, Sigma Xi, Scientific Research Society
New Orleans, LA
December 1998

58. "Evolution of SIV Co-Receptor Use"
LSU Medical Center, Department of Microbiology
New Orleans, LA
December 1998

59. "The evolution of co-receptor use in new SIV isolates derived from the Cercocebus group of mangabeys"
Institute of Virus Research, Laboratory of Viral Pathogenesis
Kyoto, Japan
January 1999

60. "The evolution of SIV in African Primates"
Adaptation and Evolution of *Cercopithecidae* in Africa
Inuyama, Japan
January 1999

61. "The origin of HIV in West Africa and the search for a vaccine"
Central Coast Congregate Care
Santa Barbara, CA
January 1999

62. "HIV - part II, Emergence of SIV"
LSU Medical Center, Department of Microbiology
New Orleans, LA
February 1999

63. "Diversity of SIVs from other non-human primates"
HIV Dynamics and Evolution
Center for Disease Control
Atlanta, GA
March 1999

64. "Cross-species transmission of SIVsm and the origin of HIV-2"
Cross-species Transmission of Immunodeficiency Viruses
NIH/NIAID
Atlanta, GA
March 1999

65. "Covergent evolution of HIV and SIV co-receptor deletions in man and monkey"
Tulane University Medical Center, Department of Biochemistry
New Orleans, LA
April 1999

66. "Evolving story of SIV-implications for the ancient ancestry of HIV"
1999 International Conference
American Lung Association/American Thoracic Society
San Diego, CA
April 1999

67. "The evolution of simian lentiviruses in Africa:
Institute Pasteur
Paris, France
May 1999

68. "Evolution of simian lentiviruses in Cameroon"
Pasteur Center in Cameroon
June 1999

69. "The role of estrogen in SIV vaginal transmission"
Tulane Regional Primate Research Center
Departmental Seminars
Covington, LA
September 1999

70. "The role of estrogen and progesterone in SIV transmission"
Louisiana State University
Department of Veterinary Microbiology and Parasitology
Baton Rouge, LA
September 1999

71. "The role of estrogen and progesterone in SIV transmission"
Louisiana State University Medical Center
Infectious Diseases Section Research Conference
New Orleans, LA
September 1999

72. "Evolution, Hormones and Vaccines: A Program Overview"
Tulane Regional Primate Research Center
Covington, LA
October 1999

73. "The role of female hormones in HIV and SIV vaginal transmission"
Tulane University Hospital and Clinic
New Orleans, LA
October 1999

74. "Evolution, Hormones and Vaccines: A Program Overview"
Tulane University Medical Center/Tulane Regional Primate Research Center
Covington, LA
October 1999

75. "Role of Estrogen and Progesterone on Vaginal Transmission of SIV in the Macaque Model of AIDS"
Tulane University Medical Center Grand Rounds
New Orleans, LA
January 2000

76. "Estrogen Protects Against Vaginal Transmission of SIV"
7th Retrovirus Conference on Opportunistic Infections
San Francisco, CA
January 2000

77. "Estrogen Protects Against Vaginal Transmission of SIV"
Tulane University Medical Center
AIDS Clinical Trials Unit Scientific Meeting
New Orleans, LA
February 2000

78. "Estrogen protects against vaginal transmission of simian Immunodeficiency virus"
Microbicides 2000
Washington, DC
March 2000

79. "History of HIV"
Pathogenesis of Infectious Diseases
University of Kuwait
Kuwait
May 2000

80. "Pathogenesis of HIV Infection"
Pathogenesis of Infectious Diseases
University of Kuwait
Kuwait
May 2000

81. "The Origins of HIV in Central and West Africa"
3rd Annual Meeting of the Gulf Coast Tropical Medicine Association
Baton Rouge, LA
June 2000

82. "Origins of HIV and SIV"
The Origins and Emergence of HIV
Royal Academy of Sciences
London, England
September 2000

83. "Hormones, Vaccines and Evolution: An Overview of the Marx Research Program"
MCB Research Methods
Tulane University Health Sciences Center
November 2000

84. "Evolution, Hormones and Vaccines: A Program Overview"
University of Georgia
Athens, GA
February 2001

85. "The role of female hormones on SIV vaginal transmission"
HIV/STD Interest Group
Tulane University Health Sciences Center
March 2001

86. "HIV 1 and 2: Molecular Evidence of Parallel Evolution From Two Primate Species"
American Society for Microbiology Meeting
New Orleans, LA
May 2004

87. 12th International Workshop on HIV Dynamics and Evolution
Cleveland, OH
April 2005

88. "The Origins, Resistance and Pathogenesis of Lentiviruses"
Royal Society of Medicine Symposium
London, England
November 2005

89. Medicine Grand Rounds
Montefiore Medical Center/Albert Einstein College
Bronx, NY
December 2005

90. "HIV/STI Epidemiology" Class
Tulane School of Public Health & Tropical Medicine
September 2006

91. George Westinghouse High School
Pittsburgh, PA
May 2006

92. "Twenty Five Years of Simian AIDS: rapid progress, slow progress and dead ends"
25th Annual Symposium on Non-Human Primate Models for AIDS - Session Chair
Monterey, CA
September 2007

93. "Origin of AIDS"
Medical Primatology Conference
Sochi, Russia
September 2007

94. "Journal of Medical Primatology"
Association of Primate Veterinarians
Charlotte, NC
October 2007

95. "Mystery Solved! – The origins of the HIV are ancient simian retroviruses. (So, why did AIDS emerge in the 20th century and not before?)"
Center for Vaccine Research, University of Pittsburgh
Pittsburgh, PA
November 2007

96. Long-term, VSV-based, NHP AIDS vaccine studies and a novel, hybrid VSV-Alphavirus Vaccine Vector
Centre International de Recherches Medicales
Franceville, Gabon, West Africa
January 9, 2008

97. "Weak AIDS Vaccines, Safe AIDS Vaccines, and Some That May Even Work"
Louisiana State University Health Sciences Center
New Orleans, LA
February 2008

98. Viral Diseases and the Connection Between SIV and HIV "Landmark Discovery"
North Shore – Long Island Jewish Health System
Department of Dental Medicine
Northshore University Hospital
March 2008