

Curriculum Vitae

John L. VandeBerg, Ph.D.

Professor
Department of Human Genetics
South Texas Diabetes and Obesity Institute
University of Texas Rio Grande Valley
School of Medicine

Contact Information

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Education & Training

University of Wisconsin, Madison, Wisconsin	B.S.	1969	Genetics
La Trobe University, Melbourne, Australia	B.Sc. Hons.	1970	Genetics
Macquarie University, Sydney, Australia	Ph.D.	1975	Genetics

Work Experience

Present

1980-present	Assistant Professor (to 1983), Associate Professor (to 1986), Professor (1986-present), Department of Pathology and Department of Cell Systems and Anatomy, The University of Texas Health Science Center at San Antonio, Texas
2015-present	Professor, South Texas Diabetes and Obesity Institute, School of Medicine, The University of Texas Rio Grande Valley,

2017-present	Brownsville/Harlingen/Edinburg, Texas Professor, Department of Human Genetics, School of Medicine, The University of Texas Rio Grande Valley, Brownsville/Harlingen/Edinburg, Texas
Previous	
2014-2016	Affiliate Scientist, Southwest National Primate Research Center, San Antonio, Texas
2014-2015	Professor, South Texas Diabetes and Obesity Institute, The University of Texas Health Science Center at San Antonio – Edinburg Regional Academic Health Center, Edinburg, Texas
2006-2014	Chief Scientific Officer (2006-2014) and George C. Hixon Distinguished Scientist (2010-2014), Texas Biomedical Research Institute, San Antonio, Texas
1999-2014	Director, Southwest National Primate Research Center, San Antonio, Texas
1993-1999	Scientific Director and Corwin D. Denney Distinguished Scientist (1994-1999), Texas Biomedical Research Institute, San Antonio, Texas
1980-2014	Associate Scientist (to 1985), Chairman (1982-1993), Scientist (1985-2014), and Elizabeth Coates Maddux Distinguished Scientist in Genetics (1990-1993), Department of Genetics, Texas Biomedical Research Institute, San Antonio, Texas
1979-1980	Assistant Scientist, Laboratory of Genetics, University of Wisconsin, and Wisconsin Regional Primate Research Center, Madison, Wisconsin
1975-1979	Research Associate and Postdoctoral Fellow, Laboratory of Genetics, University of Wisconsin, Madison, Wisconsin
1973-1975	Tutor (faculty position equivalent to Instructor in the American System), Macquarie University, Sydney, Australia

Committee Memberships

<u>Wisconsin Regional Primate Research Center, Madison</u>	
Research Review Committee	1979-1980
<u>Texas Biomedical Research Institute</u>	
Genetics Advisory Panel for Nonhuman Primates, Chairman	1981-1982
Animal Care Committee	1981-1984
Baboon Breeding Colony Review Committee	1981-1987
Scientific Council	1982-1993
Department of Genetics Promotion Committee, Chairman	1991-1993
Search Committee for Chair of Department of Genetics, Chairman	1993-1994
Patent Committee, Chairman	1993-1994
Faculty Evaluation and Promotion Committee, Chairman	1993-1999
Search Committee for Chair of Dept of Virology and Immunology, Chairman	1994-1995
Scientific Advisory Council, Member (Chairman, 1994-1999)	1994-2006
President's Administrative Council, Member	1994-2004
Search Committee for Chair of Dept of Physiology and Medicine, Chairman	1996-1997
Search Committee for Assistant Scientific Director, Chairman	1998-1999
Search Committee for Chair of Department of Comparative Medicine, Chairman	2002-2003
President's Scientific Council	2005-2006
Advisory Council, Chairman	2006-2014
Support Services Advisory Council, Chairman	2006-2014

Search Committee for Director of Sponsored Programs, Chairman	2006-2007
Search Committee for Director of Information Technology, Chairman	2007-2008
Campus Master Plan Committee, Chairman	2007-2011

Texas Biomedical Research Institute

Search Committee for Stem Cell Regenerative Medicine Faculty Members, Chairman	2013-2014
Search Committee for Associate Scientific Officer, Chairman	2013-2014

Southwest National Primate Research Center

Search Committee for Associate Director, Chairman	1999-2001
Research Advisory Committee, Member (Chairman 1999-2003, 2006-2008)	1999-2014
Chimpanzee Advisory Committee, Chairman	2003-2014
Search Committee for Associate Director of Veterinary Resources, Chairman	2006
Search Committee for Associate Director of Research Resources, Chairman	2007
Macaque Advisory Committee, Chairman	2007-2014
Senior Management Team, Chairman	2012-2014

The University of Texas Health Science Center at San Antonio

Committee on Graduate Studies, Department of Cellular and Structural Biology, Member	1986-1995
University of Texas System Ad Hoc Committee on the Human Genome Initiative, Member	1989
Doctoral Thesis Advisory Committee for Mr. Peter L. Zhang, Member	1992-1996
Policy Advisory Board, Center for Environmental Radiation Toxicology, Member	1994-1996
Governance Advisory Council, Clinical and Translational Science Award Program, Member	2008-2014
Doctoral Thesis Advisory Committee for Ms. Suzette Lang, Member	2012-2014

Oswaldo Cruz Institute, Rio de Janeiro

Doctoral Thesis Review Committee, Member	2006
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Australian National University, Canberra

Ph.D. Thesis Examiner	1998, 2009
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Shandong University, Shandong

Doctoral Thesis Co-Advisor (with Dr. Chen Li) for Ms. Juan Xiao	2008-2012
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Chulalongkorn University, Bangkok

Doctoral Thesis Co-Advisor (with Dr. Suchinda Malaivijitnond) for Ms. Wacharaporn Seabuppha	2010-2013
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The University of Texas Rio Grande Valley

School of Medicine Promotion, Tenure, Appointment Committee, Member	2015-2017
Faculty Senate, Member	2015-2021
UTRGV Graduate Committee, Member	2015-2020
Research/Scholarship Subcommittee of the UTRGV Strategic Planning Committee, Member	2016-2017
UTRGV Institutional Animal Care and Use Committee, Member	2016-2018
UTRGV Strategic Planning Committee and Research and Scholarship	

Subcommittee, Member	2016-2020
Committee to Review Endowed Professorships for the South Texas Diabetes and Obesity Institute, Chair	2018-present
Department of Human Genetics Promotion and Tenure Committee, Member	2018-present
UTRGV Center for Vector-Borne Diseases, Member	2018-present
Committee to Develop a Ph.D. Program in Human Genetics, Chair	2018-2020
M.S. Thesis Committee of Marisol Morales, Member	2019-2020
M.S. Thesis Committee of Dionn Carlo Silva, Member	2019-2021
M.S. Thesis Committee of Oscar Quintanilla, Member	2019-2021
M.S. Thesis Committee of Juan Garcia, Member	2019-2021
School of Medicine, Transparency in Finances Working Group, Member	2019-2020
M.S. Thesis Committee of Victoria Trummel, Chair and Thesis Advisor	2020 -2021
M.S. Thesis Committee of Mohini Moulick, Chair and Thesis Advisor	2021-present
Faculty Senate Executive Committee, Member	2020-2021
Committee on Committees, Member	2020-2021
NIH Bridges to Baccalaureate Program, Mentor	2020-present
School of Medicine, Faculty Assembly Executive Committee, Member	2020-2021
Steering Committee of the Institutional Base Salary and Faculty Incentive Compensation Project, Member	2021
UTRGV School of Medicine Mentoring Workshop on Research, Scholarly Activities, and Publications, Organizer and Guest Speaker	2021
Faculty Senate Research Policy Committee, Vice-Chair	2021-present
Department of Genetics PhD Committee, Member	2022-present

Professional Activities

1985	Chairman, 19th Isozyme Conference, St. Croix
1985-1986	Chairman, Southwest Foundation Forum Distinguished Scientist Award Committee
1985-1988	Member, Scientific Advisory Board, Texas Research and Technology Foundation
1985-1990	Member, National Research Council Committee on Preservation of Laboratory Animal Resources
1986	Program Coordinator and Chairman, International Symposium on "Genetic Research with Nonhuman Primates, Serving the Needs of Mankind," San Antonio; Guest Editor, <i>Genetica</i> , Vol. 73, Nos. 1 and 2, special issue containing proceedings of this symposium
1986-1988	Chairman, National Research Council Institute of Laboratory Animal Resources (ILAR) News Advisory Panel
1986-1990	Member, NIH Biomedical Sciences Study Section
1987	Chairman, National Research Council Planning Group for Laboratory Animal Records
1988	Reviewer, National Research Council Report of The Committee on the Use of Laboratory Animals in Biomedical and Behavioral Research
1989	Delegate, San Antonio Science and Technology Mission to Germany
1989-1990	Member, Texas Genetics Society Program Committee
1989-1992	Member (Chairman, 1991-1992), Texas Genetics Society Distinguished Geneticist Award Committee
1989-1992	Member, Planning Committee of the Institute of Laboratory Animal Resources (ILAR) Council, National Research Council
1989-1995	Member, College of Sciences and Engineering Advisory Council,

	University of Texas at San Antonio
1989-1999	Member (Chairman, 1993-1999), Institute for Laboratory Animal Research (ILAR) Council, National Research Council
1990-1992	Member, Scientific Advisory Committee; Today's Opportunities, Tomorrow's Health: The Future of Biomedical Research in America; a Symposium jointly sponsored by the Southwest Foundation for Biomedical Research, United States Department of Health and Human Services, and the National Institutes of Health
1990-1994	Member, National Institutes of Health Reviewers Reserve
1990-2001	Trustee, Mind Science Foundation, San Antonio
1990-2001	Member (Chairman, 1998-2001), Scientific Advisory Committee, Mind Science Foundation, San Antonio
1991	Member, National Research Council Institute of Laboratory Animal Resources (ILAR) Advisory Committee for "The Guide for the Care and Use of Laboratory Animals"
1991-1993	Member, Government Affairs Committee, Association of Independent Research Institutes
1992	Reviewer, National Research Council Report entitled "Definition, Nomenclature, and Conservation of Rat Strains"
1992	Review Coordinator, National Research Council Institute of Laboratory Animal Resources (ILAR) Report entitled "Standardized Nomenclature for Transgenic Animals"
1992-1993	Vice-President and President-Elect, Texas Genetics Society
1992-1993	Chairman, Program Committee, Texas Genetics Society, 20th Annual Meeting
1992-1995	Member, International Sponsoring Committee for an International Conference entitled "Gene Families: Structure, Function, Genetics and Evolution," 8th International Congress on Isozymes, 1995
1992-1995	Trustee, South Texas Blood and Tissue Center, San Antonio
1992-1996	Member (Chairman, 1993-1994), Board of Directors, Texas Genetics Society
1992-1999	Member, Medical Advisory Committee, South Texas Blood and Tissue Center, San Antonio
1993	Member, Budget and Finance Committee, South Texas Blood and Tissue Center, San Antonio
1993-1994	Member, Program Committee, Association of Independent Research Institutes, 33rd Annual Meeting
1993-1996	Delegate, Southwest Research Consortium, San Antonio
1993-1996	Ex-officio member, National Research Council Committee to Revise the Guide for the Care and Use of Laboratory Animals
1993-1999	Member, Commission on Life Sciences, National Research Council
1993-1999	Member, Animal Models and Genetic Stocks Committee, Institute for Laboratory Animal Research (ILAR), National Research Council
1993-1999	Member, International Activities Committee, Institute for Laboratory Animal Research (ILAR), National Research Council
1993-1999	Member, ILAR Journal Editorial Board, Institute for Laboratory Animal Research (ILAR), National Research Council
1994	Convenor and Chair, Round Table Discussion on Alcohol and the Cardiovascular System, 7th Congress of the International Society for Biomedical Research on Alcoholism
1994	Chair, Poster discussion Session on The Cardiovascular System, 7th

	Congress of the International Society for Biomedical Research on Alcoholism
1994	Chair, National Research Council Workshop on Collection and Supply of Biological Materials, Animals, and Plants
1994-1999	Member, Advisory Committee for Scientist/Scholar-in-Residence Program, Mind Science Foundation, San Antonio
1995-1997	Co-Chair, 9th International Congress on Genes, Gene Families, and Isozymes, San Antonio
1995-1997	Co-Chair, Local Executive Committee and Member, International Executive Committee, 9th International Congress on Genes, Gene Families, and Isozymes
1996	Chair, Symposium on Laboratory Animals, XV PANVET, Panamerican Congress of Veterinary Sciences, Campo Grande, Brazil
1996-1999	Member, Research Committee, South Texas Blood and Tissue Center, San Antonio
1997-1999	Member, Board of Directors, South Texas Blood and Tissue Center, San Antonio
1997-1999	Chair, International Executive Committee, 10th International Congress on Genes, Gene Families, and Isozymes
1998	Member, NIH Focus Group on Regulatory Burden in Animal Research
1998-1999	Member, Search Committee for Executive Director, Mind Science Foundation, San Antonio
1998-2001	Member, Steering Committee, Mind Science Foundation, San Antonio
1998-2005	Member, Editorial Advisory Group, Gene Families and Isozymes Bulletin
1998-2014	Member, Aging Research and Education Center (AREC), University of Texas Health Science Center at San Antonio
1998-2014	Member, Nathan Shock Aging Center, University of Texas Health Science Center at San Antonio
1999	Co-Chair, 1 st Brazil-USA Workshop on The Future of Animal Research, Rio de Janeiro
1999	Co-Editor, ILAR Journal Issue on Comparative Gene Mapping
1999	Presiding Chair, 10 th International Congress on Genes, Gene Families, and Isozymes, Beijing
1999	Panelist, Leadership San Antonio Class XXIV Health and Human Services Day, San Antonio
1999-2001	Chair, International Executive Committee, 11th International Congress on Genes, Gene Families, and Isozymes, Stockholm
2000-2001	Chair, Scientific Advisory Task Force, Mind Science Foundation, San Antonio
2000-2002	Member, Regulatory Burden Working Group, NIH
2001	Co-Chair, Member of the Organizing Commission, 2 nd Brazil-US Workshop on the Future of Animal Research, Rio de Janeiro
2001	Invited participant, "Beyond the Beginning: the Future of Genomics," workshop sponsored by the National Human Genome Research Institute, NIH
2001-2003	Chair, International Executive Committee, 12 th International Congress on Genes, Gene Families, and Isozymes, Berlin
2002	Chair, "International Perspectives: The Future of Nonhuman Primate Resources," workshop sponsored by ILAR, National Research Council, National Academy of Sciences; also Chair of Organizing Committee, Chair of Genetics Session, and Chair of Unresolved Issues Session

2002	Reviewer, International Perspectives: The Future of Nonhuman Primate Resources, ILAR, National Academy of Sciences
2002-2003	Chair, Executive Committee, and Co-Organizer, 1 st International Congress on the Future of Animal Research, Rio de Janeiro
2003	Ad Hoc Member, Cancer Genetics Study Section, NIH
2003-2005	Chair, Organizing Committee, and Chair, International Committee, 2 nd International Congress on the Future of Animal Research, Rio de Janeiro
2003-2004	Member, Scientific Committee, Advances in the Care and Use of Laboratory Animals, ICLAS Regional Meeting, Buenos Aires
2003-2005	Chair, International Executive Committee, 13 th International Congress on Genes, Gene Families, and Isozymes, Shanghai
2004	Chair, Roundtable on Primatology, IVth South American Veterinary Conference, Vth International Congress on Laboratory Animal Science, IXth Brazilian Congress on Laboratory Animal Science, and IVth Meeting of Mercosur Researchers, Rio de Janeiro
2004	Chair, National Primate Research Center Directors' Fall Meeting
2004-2005	Member, Scientific Program Committee, Seattle International Conference on Primate Genomics
2004-2010	Member, Board of Trustees, Scientists Center for Animal Welfare (SCAW)
2004-2014	Member, National Chimpanzee Resource Consortium (Chair, 2004-2006)
2005-2007	Member, International Committee, XIth Brazilian Congress on Laboratory Animal Science, São Paulo
2007-2009	Co-Chair and Co-Organizer, 3 rd International Congress on the Future of Animal Research, Bangkok, Thailand
2012	Chair, National Primate Research Center Directors' Fall Meeting
2014-present	Chair, External Advisory Board, Caribbean Primate Research Center
2015-2021	Chairman of the Board, Better Research Better Life Foundation
2016-present	Chair, International Advisory Board, National Primate Research Center of Thailand

Honors & Awards

- Regents Scholarship, 1965-66
- Phi Eta Sigma Honor Fraternity, 1966
- J.R. Kramer Scholarship, 1966-67
- Award of Merit, Gamma Sigma Delta, 1967
- Moorman Co. Fund Scholarship, 1967-68
- U.W. Kempher Knapp Student-Faculty Research Scholarship in Brazil, 1968
- Peter Young Scholarship, 1968-69
- Phi Kappa Phi Honor Society, 1969
- Alpha Zeta Honorary Fraternity, 1969
- Fulbright Scholarship for Research in Australia, 1969-70
- General Motors Holden Scholarship, 1971-72
- Population Council Postdoctoral Fellowship, 1976-77
- NIH Postdoctoral Traineeship, 1977-78
- President of the Texas Genetics Society, 1993-94
- Fellow of the American Heart Association Council on Arteriosclerosis, Thrombosis and Vascular Biology, elected in 1998
- Honorary Diplomat of the American College of Laboratory Animal Medicine, elected in

2001

- Fellow of the American Association for the Advancement of Science, elected in 2001
- National Associate of the National Academies, designated in 2001
- Health Care Hero, Biomedical Research, San Antonio Business Journal, 2010
- 9th Annual Doctoral Achievement Award, West San Antonio Chamber of Commerce, 2010
- Lifetime Achievement Award, Brazilian Society of Laboratory Animal Science, 2014

Manuscripts, Grants, and Conference Sponsorships

Reviewed

- Manuscripts for Alcohol Health and Research World, American Journal of Pathology, American Journal of Primatology, Alternatives to Laboratory Animals, Animal Welfare, Comparative Biochemistry and Physiology, Comparative Medicine, Biochemical Genetics, Biology of Reproduction, Cytogenetics and Cell Genetics, Differentiation, Genomics, Geroscience, Human and Experimental Toxicology, ILAR Journal, Journal of the American Veterinary Association, Journal of Heredity, Journal of Medical Primatology, Journal of Nutrition and Metabolism, Laboratory Animal Science, Proceedings of the National Academy of Sciences (U.S.A.), Reproduction Fertility and Development, Science, Science Asia, Stem Cells and Development, Zoo Biology
- Grants for NIH, NSF, Australian Research Council, Oklahoma Center for Advancement of Science and Technology, and the Netherlands Organisation for Health Research and Development
- Conference Sponsorships for the New York Academy of Sciences and for NIH

Courses Taught

La Trobe University, Melbourne

Introductory Genetics, Lab., Disc.	1969-1972
Intermediate Genetics, Lab., Disc.	1969-1972
Advanced Genetics, Lab., Disc.	1969-1972

Macquarie University, Sydney

Introductory Genetics, Lab., Disc.	1973-1975
Biochemical and Immunological Genetics, Lab., Disc.	1973
Introductory Biochemistry, Lab., Disc.	1974

University of Wisconsin, Madison

Genetics and Human Affairs (Genetics 133), Disc. and occasional lectures	1976
General Genetics (Genetics 560 - a large introductory course for graduate students and advanced undergraduate students), lectures and supervision of five teaching assistants	1978
Immunogenetics (Genetics 633), occasional lectures and laboratory	1975-1980

University of Texas Health Science Center at San Antonio

Microscopic Anatomy for medical students, lectures in team-taught course	1980-1982
Medical Genetics, lectures in team-taught course	1984-1985
Developmental Genetics, shared responsibilities with Dr. John McCarrey	1995

Trinity University, San Antonio

Genetics (Biology 320), occasional lectures	1984-1996
Impact and Issues: Exosex (Biology 305), occasional lectures	1985-1986

Invited Presentations at Scientific Meetings

1982	International Congress on Isozymes, 4 th Austin, Texas	X-chromosome Inactivation and Evolution in Marsupials and Other Mammals
	International Symposium on the Use of Nonhuman Primates in Exotic Viral and Immunologic Diseases, San Antonio, Texas	Genetics of Nonhuman Primates in Relation to Viral Diseases
1983	Kroc Foundation Symposium, New Frontiers in Mammalian Reproduction and Development, Santa Ynez Valley, California	Developmental Aspects of X-chromosome Inactivation in Eutherian and Metatherian Mammals
	American Association for Laboratory Animal Science, 34 th Annual Meeting San Antonio, Texas	Management and Use of Baboons in Research: Genetic Aspects
1984	Congress of the International Prima- Tological Society, X th , Nairobi, Kenya	Genetics of Baboons in Medical Research
	Congress of the International Prima- Tological Society, X th , Nairobi, Kenya	Use of Genetic Markers in Management of Nonhuman Primate Populations
1985	Munster International Arteriosclerosis Symposium, 4 th , Munster, Germany	Genetic and Dietary Mediation of Lipoprotein Phenotypes in Baboons
1986	International Congress on Isozymes, 5 th , Kos, Greece	X-linked Gene Expression and X- Chromosome Inactivation: Marsupials, Mouse and Man Compared
	International Symposium on Genetic Research with Nonhuman Primates: Serving the Needs of Mankind, San Antonio, Texas	Historical Perspective of Genetic Research with Nonhuman Primates
1988	Congress of the International Prima- tological Society, XII th , Brasília, Brazil	Genetics of Squirrel Monkeys (genus <i>Saimiri</i>): Implications for Taxonomy and Research
1989	International Congress on Isozymes, 7 th , Toyama, Japan	Use of Isozymes in Genetic Management of Nonhuman Primate Colonies
	Texas Genetics Society, 16 th Annual Meeting, San Antonio, Texas	Genes, Diet, and Heart Disease
1990	Federation of American Societies for Experimental Biology, Washington, D.C.	Genetics of Response to Dietary Cholesterol in Baboons

1991	World Veterinary Congress, XXIV th , Rio de Janeiro, Brazil	A Brazilian Marsupial, <i>Monodelphis domestica</i> , as a New Laboratory Animal
	Symposium on Cancer Research in San Antonio, 1 st Annual, San Antonio, Texas	A New Laboratory Animal Model for Genetic Studies of Susceptibility to UV-
	International Symposium, Paternity in Nonhuman Primates: Genetic Tests and Theories, Zurich, Switzerland	Biochemical Markers and Restriction Fragment Length Polymorphisms (RFLPs): Their Power for Paternity Exclusion Induced Skin and Eye Cancers
1992	Latin American Genetics Congress, 10 th , Rio de Janeiro, Brazil)	A New Animal Model (<i>Monodelphis domestica</i>) for Genetic Research on Skin and Eye Cancers
	American Society of Primatologists, 15 th Annual Meeting, Toronto, Canada	The Role of Genetics in Primatology
	International Congress on Isozymes, 7 th , Novosibirsk, Russia	Mapping the Genome of a Marsupial, <i>Monodelphis domestica</i> : Application to Skin Cancer Research
	American Association for Laboratory Animal Science, 43 rd Annual Meeting, Anaheim, California	Nonhuman Primates as Models of Multifactorial Diseases
1993	Lovelace Medical Foundation Symposium on the Harmful Effects of Exposure to Ultraviolet Radiation, Albuquerque, New Mexico	Genetic Analysis of UVR-Induced Hyperplasia and Neoplasia in the Laboratory Opossum
1994	Symposium on Cancer Research in San Antonio, 4 th Annual, San Antonio, Texas	Cancer Research at the Southwest Foundation for Biomedical Research
	International Society for Biomedical Research on Alcoholism, 7 th ISBRA Gold Congress, Coast, Queensland, Australia	Effects of Dietary Ethanol on Lipoproteins
	Association of Independent Research Institutes, 33 rd Annual Meeting, San Francisco	Status Report on New Animal Regulations
	Brazilian National Congress of Genetics, 40 th , Caxambu, Brazil	Mapping the Genome of a Brazilian Marsupial, <i>Monodelphis domestica</i> , for Research on Human Diseases
	Australian Academy of Science Discussion Meeting: Recent Advances in Marsupial Biology, Hobart, Australia	The Laboratory Opossum (<i>Monodelphis domestica</i>) in Biomedical Research

1995	International Congress on Isozymes, 8 th , Brisbane, Australia	Genes and Gene Families that Affect Plasma Lipoprotein Phenotypes and Susceptibility to Atherosclerosis
	Genetics Society of Australia, 42 nd Annual Meeting, Canberra, Australia	Genes and Gene Families that Affect Plasma to Atherosclerosis
	Human Genome Organization Workshop on Comparative Gene Mapping, Frazer Island, Australia	Mapping the Genome of the Laboratory Opossum (<i>Monodelphis domestica</i>)
1996	International Congress of Human Genetics, 9 th , Rio de Janeiro, Brazil	Primates - Needs and Limits of Research
	XV PANVET, Panamerican Congress of Veterinary Sciences, Campo Grande, Brazil	U.S. Laws and Norms Related to Laboratory Animals
1997	International Congress on Genes, Gene Families, and Isozymes, 9 th , San Antonio, Texas	Opening Ceremony and Tribute to Dr. Clement Markert
1998	Conference on Immunobiology of Marsupials, Sydney, Australia	<i>Monodelphis domestica</i> as a Model Marsupial for Research in Immunobiology (Keynote Address)
	Brazilian Conference on Laboratory Animal Science, 6 th , Porto Alegre, Brazil	The Laboratory Opossum (<i>Monodelphis domestica</i>) in Biomedical Research
	American Association of Anthropological Genetics Workshop in Anthropological and Primate Genetics, San Antonio, Texas	Research Program on Chagas' Disease in Rural Brazil
1999	International Congress on Genes, Gene Families, and Isozymes, 10 th , Beijing, China	Genetics of Susceptibility to Chagas' Disease
	Brazil-USA Workshop on The Future of Animal Research, Rio de Janeiro, Brazil	Comparative Gene Maps as Tools for Animal Researchers
2000	American Association of Physical Anthropologists, 64 th Annual Meeting, San Antonio, Texas	Biological Anthropology at the Frontiers of Biomedical Research: Genetic Research on Chagas' Disease
	2000 Texas Branch Meeting of the American Association of Laboratory Animal Science, San Antonio, Texas	Primate Models for Research on Disease Susceptibility
	Joint Meeting: 7 th Brazilian Congress of Laboratory Animal Science, 4 th World Congress of Laboratory Animal Science, 2 nd Meeting of Mercosul Researchers, 1 st General	Primate Models for Research on Disease Susceptibility

	Assembly of the Federation of American Societies of Laboratory Animal Science, Campinas, Brazil	
	XXVII Meeting on Basic Research on Chagas' Disease, Caxambu, Brazil	Epidemiology of Seropositivity for <i>T. cruzi</i> in Baboons Maintained in Texas
2001	The XVIII th Congress of the International Primatological Society, Adelaide, Australia	Primate Models for Genetic Research on Human Diseases
	Primate Genomics Workshop, Seattle	Genomics Research at the Southwest Regional Primate Research Center
	Workshop on Regulatory Burden, ILAR, National Research Council, National Academy of Sciences, Washington, D.C.	Efforts at Reducing Regulatory Burden
	38 th Annual Meeting of the Association for Gnotobiotics, Belo Horizonte, Brazil	A Brazilian Marsupial for Biomedical Research
	11 th International Congress on Genes, Gene Families, and Isozymes, Stockholm, Sweden	Genes that Affect Risk of Cardiovascular Disease in the Baboon Model
	2 nd Brazil-USA Workshop on the Future of Animal Research, Rio de Janeiro, Brazil	Baboons as a Model for Chagas' Disease
2002	Workshop on International Perspectives: The Future of Nonhuman Primate Resources, Washington, D.C. (ILAR, National Research Council, National Academy of Sciences)	Nonhuman Primates in Genetic Research on Common Diseases
	Workshop on Rhesus Monkey Demands, Washington, D.C. (National Center for Research Resources, NIH)	Baboons as a Model for Non-AIDS Research
	8 th Brazilian Congress of Animal Science; 4 th World Congress of Laboratory Animal Science, 3 rd Meeting of the Researchers of MERCOSUL, Goiania, Brazil	What's Wrong With CITES in Regard to Animal Research?
2003	10 th Congress of the European Society for Photobiology, Vienna, Austria	The Laboratory Opossum Model for UVB-Induced Skin and Eye Cancer
	12 th International Congress on Genes, Gene Families, and Isozymes, Berlin, Germany	Quantitative Trait Loci for Risk Factors of Cardiovascular Disease
2004	Chimpanzees in Biomedical Research:	Genetics and Genomics of Chimpanzees

	Status and Strategic Planning, Bastrop, Texas	
	Advances in Care and Use of Laboratory Animals, Buenos Aires, Argentina	Use of Nonhuman Primates for Genetic Research on Human Diseases
2005	UCSD Project for Explaining the Origins of Humans, La Jolla, California	Understanding Great Apes in the Genomic Era: View from the Southwest National Primate Research Center
	Medicine and Health in the Tropics, Marseille, France	Genetic Epidemiology of Chagas' Disease in a Brazilian Population
	13 th International Congress on Genes, Gene Families, and Isozymes, Shanghai, China	Genetic Control of Lipemic Response to Dietary Cholesterol in Laboratory Opossums (Opening Lecture)
2006	American Society of Primatologists Annual Meeting, San Antonio, Texas	Genetic and Genomic Research at the National Primate Research Centers (NPRCs)
	Chimpanzees in Research: A Vital Resource for Medical Advancements, Atlanta, Georgia	Overview of the National Chimpanzee Resource for Biomedical Research
		The Promise of Monoclonal Antibody Therapies
2007	Chimpanzee Management Plan Working Group, NCRR, NIH, Bethesda, Maryland	Demographics of Research Chimpanzees
	American Society of Primatologists Annual Meeting (Satellite Symposium), Winston-Salem, N.C	The Use of Pedigreed and Genotyped Monkeys in Translational Research
	Institute of Medical Primatology, Adler, Russia	Identifying Genes for Susceptibility to Cardiovascular Disease in the Baboon Model
2008	NCRR Council Meeting, Bethesda, Maryland	Report of Research at the NPRCs on Heart Disease, Diabetes, and Obesity
	XXXIII Annual Conference of the Indian Society of Human Genetics and International Symposium on Genetics Revisited: the Genomics and Proteomics Advantage; Visakhapatnam, India	Recent Advances in Genetic Research with Nonhuman Primates
	International Primatological Society Congress, Edinburgh, UK	The Scientific Case for Invasive Research with Chimpanzees
	Symposium on the Genetics of Complex	Animal Models in Complex Disease Studies

	Diseases, Barcelona, Spain	
	NCCR Resource Director's Meeting, Washington, D.C., USA	Maintaining the Viability of Resources During a Difficult Financial Era
2009	Texas Biomedical Research Institute, San Antonio, Texas, USA	Nepal's Rhesus Monkeys and the Quest for a Disease-free World
	American Society of Primatologists Annual Meeting, San Diego, California, USA	The Scientific Case for Invasive Research with Chimpanzees
	Southwest National Primate Research Center, 10 th Anniversary Symposium, San Antonio, Texas, USA	SNPRC History and Organization
	Scientists Center for Animal Welfare Annual Meeting, San Antonio, Texas, USA	The Critical Role of Animals in the Advancement of Science and Medicine
	3 rd International Congress on the Future of Animal Research, Nakhon Pathom, Thailand	Non-human Primates in Research on Cardiovascular Disease
2010	4 th International Symposium on Primate Research: From Cage to Clinic, Primate Research for Regenerative Medicine, Kunming, China	Primate Models for Cardiovascular Disease
2011	AAAS Annual Meeting, Washington, D.C.	It Is Unethical Not to Do Research with Animals
	Chulalongkorn University Faculty Science Annual Symposium, Bangkok, Thailand	The SNPRC and Its Research Activities
	National Chimpanzee Research Consortium (NCRC) Meeting, Lafayette, LA	Biomedical Research with Chimpanzees at the SNPRC
	2 nd International Symposium on "Fundamental and Applied Aspects of Medical Primatology" Sochi, Russia	The Baboon Model for Research on Stem Cell Regenerative Medicine
	American Society of Primatologists, Austin, TX	Endothelial Cell Gene Expression and Stem Cell Therapies in Relation to Cardiovascular Disease
	Chagas Disease Clinical Research Platform Meeting 2011, Rio de Janeiro, Brazil	Non-Human Primate Study – Evaluation of PCR, Multiplex Serodiagnostic Assay and Other Candidate Markers for Chagas Disease

2012	XII Congress of Brazilian Society of Laboratory Animal Science (SBCAL), Iguassu Falls, Brazil	Colony Reared Monkeys Naturally Infected with <i>T. cruzi</i>
	XII Congress of Brazilian Society of Laboratory Animal Science (SBCAL), Iguassu Falls, Brazil	Genome Scans and Genetic Analysis to Identify Genes Related to Human Diseases
	Chagas Drug Discovery Consortium 3 rd Meeting, Tres Cantos, Spain	Treatment Trials and Efficacy Determination in Non-human Primates with Chronic <i>T. Cruzi</i> Infections
2013	Royal Golden Jubilee Congress XIV, Pattaya, Thailand	The Bold Future of Stem Cell Regenerative Medicine
2014	13 th Congress of the Brazilian Society of Laboratory Animal Science and 2 nd Latin American Meeting of Laboratory Animal Science, Porto Alegre, Brazil	The Bold Future of Stem Cell Regenerative Medicine: The Role of Nonhuman Primates
	Chagas Disease Research Platform Meeting 2014, Mexico City, Mexico	Monkey Models of Chagas Disease
	6 th International Symposium on Primate Research: From Bench to Clinic, Kunming, China	Toward Bioengineered Arterial Replacements from Pluripotent Stem Cells in the Baboon
2016	Chagas Disease Research Platform Meeting 2016, Rio de Janeiro, Brazil	Validity of PCR and Other Biomarkers for Assessing Parasitological Cure in Chagas Disease
	III rd International Conference on Fundamental and Applied Problems of Medical Primatology, Sochi (Adler), Russia	Chagas Disease: Value of Nonhuman Primates for Developing Drugs and Vaccines
2018	15 th Congress of the Brazilian Laboratory Animal Science Association, Goiania, Brazil	The Laboratory Opossum (<i>Monodelphis domestica</i>): A New Model for Research on Pathologies Caused by Zika Virus
	Non-human Primates in Biomedical Research: Industry-Academia Partnerships in Solving Global Health Problems, Bangkok, Thailand	Genetic and Dietary Interactions that Influence Risk of Atherosclerosis in Baboons

Grants

Past

Immunogenetic Studies of a Sperm Enzyme, PGK-B (W.H. Stone, P.I.; J.L. VandeBerg, Co-P.I.); National Institutes of Health	\$ 91,645	1978-1980
The Development of a Marsupial, <i>Monodelphis domestica</i> , as a Laboratory Animal (J.L. VandeBerg, P.I.); American Cancer Society through the University of Wisconsin	\$ 4,874	1979-1980
Immunogenetic Studies of a Sperm Enzyme, PGK-B (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 46,132	1980-1981
Isozyme Genetics of Mammals and Birds (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 276,151	1980-1984
Genetic Markers in SFRE Baboon Breeding Colony (J.L. VandeBerg, P.I.); Biomedical Research Support Grant, National Institutes of Health through the Southwest Foundation	\$ 7,162	1981-1982
Genetics of Characters Related to Atherosclerosis (H.C. McGill, Jr., P.I.; J.L. VandeBerg, Co-P.I.); R. J. Reynolds Industries, Inc.	\$ 1,173,015	1981-1985
Marsupial Breeding Colony: Interim Support (J.L. VandeBerg, P.I.); Biomedical Research Support, National Institutes of Health through the Southwest Foundation	\$ 12,942	1982-1983
Establishment of a Baboon Breeding Program at SFRE, Supplement on Genetic Management (W.J. Goodwin, P.I.; J.L. VandeBerg, Co-P.I.); National Institutes of Health (supplement)	\$ 32,468	1982-1983
A Laboratory Marsupial for Biomedical Research (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 154,719	1982-1985
Diet, Stress, and Genotype in Primate Atherosclerosis, Program Project (H.C. McGill, Jr, P.I.), Project 3: Genetic Markers and Physiologic Characters (J.L. VandeBerg, Responsible Investigator); National Institutes of Health (Proj. 3)	\$ 438,498	1982-1987
Genetics of a Laboratory Marsupial, Postdoctoral Fellowship (P.B. Samollow, P.I.; J.L. VandeBerg, Sponsor); National Institutes of Health	\$ 39,276	1983-1985

Genetic Polymorphism of Baboon Serum Apolipoproteins, Postdoctoral Fellowship (M.-L. Cheng, P.I.; J.L. VandeBerg, Sponsor); National Institutes of Health	\$ 44,496	1983-1985
Baboon Breeding Program (W.J. Goodwin, P.I.; J.L. VandeBerg, Co-P.I.); National Institutes of Health	\$ 551,692	1983-1986
Enzymes of Alcohol Metabolism in the Baboon (R.S. Holmes, P.I.; J.L. VandeBerg, Co-P.I.); Alcoholic Beverage Medical Research Foundation	\$ 13,037	1984-1985
Hypertension and Hypertrophy in the Nonhuman Primate (R.A. Walsh, P.I.; J.L. VandeBerg, Co-investigator on subcontract to SFBR); National Institutes of Health (subcontract to SFBR)	\$ 548,162	1984-1989
Fetal Blood Development - Microenvironmental Aspects (D. Rodman, P.I.; J.L. VandeBerg, Co-investigator on subcontract to SFBR); National Institutes of Health (subcontract to SFBR)	\$ 218,611	1985-1988
A Laboratory Marsupial for Biomedical Research (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 225,882	1985-1989
A Domestic Bolivian Squirrel Monkey Breeding Resource (C.R. Abee, P.I.; J.L. VandeBerg, P.I. on subcontract to SFBR); National Institutes of Health (subcontract to SFBR)	\$ 155,249	1985-1991
Hypertension and Hypertrophy in the Nonhuman Primate, Supplement (R.A. Walsh, P.I.; J.L. VandeBerg, Co-investigator on subcontract to SFBR); National Institutes of Health (subcontract to SFBR)	\$ 33,932	1986
Effects of Moderate Alcohol Consumption Upon Plasma Lipoprotein Cholesterol and Liver Enzymes of Alcohol Metabolism in the Baboon (J.L. VandeBerg, P.I.); Alcoholic Beverage Medical Research Foundation	\$ 47,826	1986-1987
X-Chromosome Inactivation in an American Marsupial, <i>Didelphis virginiana</i> (J.L. VandeBerg, P.I.); National Science Foundation	\$ 173,553	1986-1989
Baboon Breeding Program (W.J. Goodwin, P.I.; J.L. VandeBerg, Co-P.I. to 06/30/87); National Institutes of Health	\$ 1,292,335	1986-1991

Gene Mapping in Baboons (C.M. Kammerer, P.I.; J.L. VandeBerg, Co-investigator); Biomedical Research Support, National Institutes of Health through the Southwest Foundation	\$ 15,000	1987-1988
Changes in Myosin Gene Expression in Cardiac Hypertrophy (J.E. Hixson, P.I.; J.L. VandeBerg, Co-investigator); American Heart Association, Texas Affiliate	\$ 50,000	1987-1989
Genetics of Baboon Apolipoprotein B100 (R.M. Sharp, P.I.; J.L. VandeBerg, Co-investigator); American Heart Association, Texas Affiliate	\$ 75,000	1987-1990
Diet and Genotype in Primate Atherosclerosis, Program Project (H.C. McGill, Jr. P.I.), Project 3: Genetic Variants of Apolipoproteins and the LDL Receptor (J.L. VandeBerg, Responsible Investigator); National Institutes of Health (Proj. 3)	\$ 686,845	1987-1992
Diet and Genotype in Primate Atherosclerosis, Program Project (H.C. McGill, Jr., P.I.), Project 5: Genetic Markers and Linkage Analysis (C.M. Kammerer, Responsible Investigator; J.L. VandeBerg, Co-investigator); National Institutes of Health (Proj. 5)	\$192,864	1987-1992
Genetics and Biochemistry of a Class II Liver Alcohol Dehydrogenase in the Baboon (J.L. VandeBerg P.I.; R.S. Holmes, Co-P.I.); Alcoholic Beverage Medical Research Foundation	\$ 24,348	1988-1989
G6PD Marker for Monotypism in Baboon Atherosclerosis (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 682,258	1988-1994
X-Chromosome Inactivation in Opossum Development (P.B. Samollow, P.I.; J.L. VandeBerg, P.I. on subcontract to SFBR); National Institutes of Health (subcontract to SFBR)	\$ 78,583	1989-1993
Genetic Mapping in Baboons (J.W. MacCluer, P.I.; J.L. VandeBerg, Co-investigator); National Institutes of Health	\$ 697,633	1989-1995
Genetic Effects on Blood Cholesterol in Hispanic and Anglo Populations (J.L. VandeBerg, P.I.); South Texas Regional Blood Bank	\$ 30,000	1990

A Domestic Bolivian Squirrel Monkey Breeding Resource (extension of funding) (C.R. Abee, P.I.; J.L. VandeBerg, P.I. on subcontract to SFBR); National Institutes of Health (subcontract to SFBR)	\$ 19,280	1990-1991
Genetics of Skin Cancer in a Marsupial Model (J.L. VandeBerg, P.I.); Robert J. Kleberg, Jr., and Helen C. Kleberg Foundation	\$ 1,000,000	1990-1992
Pedigree Analysis of Hypertension Markers in Baboons (C.M. Kammerer, P.I.; J.L. VandeBerg, Co-investigator); National Institutes of Health	\$ 868,041	1990-1995
Molecular Genetics of Skin Cancer (J.L. VandeBerg, P.I.); Samuel Roberts Noble Foundation, Inc.	\$ 150,000	1991-1994
Genetics of Atherosclerosis in Mexican Americans, Program Project (J.W. MacCluer, P.I.), Project 4: Biochemical Genetics of Lipoproteins (J.L. VandeBerg, Responsible Investigator); National Institutes of Health	\$ 664,235	1991-1997
Genetic Causes of Alcoholism (J.L. VandeBerg, P.I.); H.S. Longenecker Trust	\$ 40,007	1992-1995
Genetics of Alcoholism - A Study of the Molecular Genetics of Gastric Alcohol Dehydrogenase (R.S. Holmes, P.I.; J.L. VandeBerg, Associate Investigator); Australian Brewers Foundation	\$ 40,000	1993-1994
Diet and Genotype in Primate Atherosclerosis, Program Project (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 5,993,521	1993-1997
Molecular Genetics of Skin Cancer (P.B. Samollow, P.I.; J.L. VandeBerg, Co-P.I.); Samuel Roberts Noble Foundation, Inc.	\$ 60,000	1994-1997
The Laboratory Opossum: A New Model for Human Disease (E.S. Robinson, P.I.; J.L. VandeBerg, Co-P.I.), Project 2: Genetic Analysis of Plasma Cholesterol Levels (C. Kammerer, Project Leader; J.L. VandeBerg, Co-investigator), Core: Animal Resource & Research Services (J.L. VandeBerg, Core Unit Leader); National Institutes of Health	\$ 1,093,921	1994-1999
Genetics of Susceptibility to Skin & Eye Cancer (J.L. VandeBerg, P.I.); Robert J. Kleberg, Jr. and Helen C. Kleberg Foundation	\$ 1,921,754	1994-2001

Diet and Genotype in Primate Atherosclerosis. A Supplement to Ongoing Program Project (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 295,493	1995-1997
Extramural Research Facilities Construction (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 1,379,098	1997-1999
Genetics of Susceptibility to <i>T. cruzi</i> Infection and Supplement (S. Williams-Blangero, P.I.; J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 366,773	1997-2000
Genetics of Atherosclerosis in Mexican Americans, Program Project (J.W. MacCluer, P.I.), Core Unit C: Clinical Phenotypes and Resources (J.L. VandeBerg, Core Unit Leader); National Institutes of Health	\$ 353,747	1997-2002
Genetic Management of Chimpanzees in Biomedical Research (S. Williams-Blangero, P.I.; J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 917,073	1997-2002
Molecular and Biochemical Genetics Laboratory Renovation (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 1,000,000	1998-2000
Diet and Genotype in Primate Atherosclerosis, Program Project, (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 7,738,174	1998-2003
A Genome Scan for Susceptibility to Helminthic Infection (S. Williams-Blangero, P.I., J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 1,329,517	1999-2000
Baboon F-Cage Facility for the Southwest Regional Primate Research Center (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 735,216	1999-2003
Southwest Regional Primate Research Center and Supplements (F.F. Ledford, Jr., P.I.; J.L. VandeBerg, Director)	\$ 13,901,766	1999-2004
A Genome Scan for Susceptibility to Helminth Infection (S. Williams-Blangero, P.I.; J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 1,309,848	2000-2005
ABSL-3 Facility Improvement (J.L. VandeBerg, P.I.);	\$ 696,526	2000-2003

National Institutes of Health

B-, C- and D- Cages Renovation for the Southwest National Primate Research Center (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 1,066,091	2001-2005
Emergency Electrical Power for ABSL-2/3 Facilities (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 232,795	2001-2002
Chimpanzee Housing for the Southwest National Primate Research Center (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 1,916,405	2001-2003
Baboon Model for the Genetics of Chagas' Disease (J.T. Williams, P.I.; J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 1,000,000	2001-2006
Genetics of Susceptibility to Helminthic Infection (S. Williams-Blangero, P.I.; J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 2,161,461	2001-2006
Genetic Architecture of Heart Disease in Rural Brazil (S. Williams-Blangero, P.I.; J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 1,827,635	2001-2006
Improvement of Animal Facility with Emergency Electrical Power (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 492,227	2002-2003
ABSL-2 Chimpanzee Facility Improvement (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 680,000	2002-2003
Opossum Model for High and Low Response to Diet (R.S. Kushwaha, P.I.; J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 600,000	2002-2005
Construction of Rhesus Macaque Facility (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 2,000,000	2002-2005
Genetics of Susceptibility to Helminthic Infection (Sarah Williams-Blangero, Ph.D., PI) National Institutes of Health	\$ 1,823,796	2002-2006
The Laboratory Opossum in Biomedical Research (J.L. VandeBerg, P.I.); Robert J. Kleberg, Jr. and Helen C. Kleberg Foundation	\$ 3,517,992	2002-2012
Improvement of Primate Clinical Care Facilities (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 462,272	2003-2006

Improvement of Centralized Cage Washing Facilities (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 221,415	2003-2006
Diet and Genotype in Primate Atherosclerosis, Program Project, (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 8,775,126	2003-2008
Southwest National Primate Research Center and Supplements (J.L. VandeBerg, Director)	\$ 17,218,913	2004-2009
Cholesterol Responsive Genes in the Laboratory Opossum (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 1,057,500	2004-2011
Rhesus Breeding Colony in Nepal and Importation to USA (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 2,485,843	2004-2011
A Genome Scan for Susceptibility to Helminthic Infection (S. Williams-Blangero, P.I., J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 1,781,510	2005-2011
TB Vaccine Development in Nonhuman Primate Model (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 2,075,775	2005-2012
Renovation of Building 4 to Provide BSL-2 Housing for Infectious Disease Research (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 443,130	2008-2011
Chagas Disease: An Emerging Fatal disease in Texas (J.L. VandeBerg, P.I.); Robert J. Kleberg, Jr. and Helen C. Kleberg Foundation	\$ 1,071,484	2008-2012
Improvement of Facilities for Nonhuman Primate Research Infectious Disease Research (J.L. VandeBerg, P.I.), National Institutes of Health	\$ 404,289	2009-2011
Diet and Genotype in Primate Atherosclerosis, Program Project, (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 10,917,818	2008-2013
Genetic Architecture of a Human Dentognathic Complex (S. Williams-Blangero, P.I., J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 1,220,930	2009-2013
Genetic Epidemiology of Chagas Disease Progression (S. Williams-Blangero, P.I., J.L. VandeBerg, Co-Investigator); National Institutes of Health	\$ 2,010,023	2009-2013
Southwest National Primate Research Center and Supplements (J.L. VandeBerg, Director); National Institutes of Health	\$ 22,424,265	2009-2014

Genetics of Bone Structure and Metabolism (M. Mahaney, P.I., J.L. VandeBerg, Co-Investigator.); National Institutes of Health	\$ 2,238,428	2009-2014
Improvement of Nonhuman Primate Group Housing (J.L. VandeBerg, P.I.); National Institutes of Health	\$ 466,835	2010-2013
NIH-Owned Chimpanzee Research Resource (J.L. VandeBerg, P.I. to 04/30/2014); National Institutes of Health	\$ 10,733,233	2011-2016
Establishment of a SPF Rhesus Macaque Breeding Colony (J.L. VandeBerg, P.I. to 04/30/2014); National Institutes of Health	\$ 3,158,708	2012-2015
Evaluation of PCR and Other Biomarkers for Assessing Parasitological Cure in Chagas Disease (J.L. VandeBerg, P.I. of Texas Biomed Subproject); Wellcome Trust	\$ 2,063,484	2012-2016
Novel Vaccine for Chagas Disease: Efficacy Testing In Baboons (J.L. VandeBerg, P.I. of (Texas Biomed Subproject) Texas Biomed Subproject), Robert J. Kleberg, Jr. and Helen C. Kleberg Foundation	\$ 271,597	2014-2016
Sensorimotor and Memory Assessment in <i>Monodelphis domestica</i> (Laboratory Opossum) as a Novel Tool for Research on Neurodevelopmental Abnormalities (A. Torres-Reveron, P.I.; J.L. VandeBerg, Co-investigator); UTRGV Internal Seed Research Program	\$ 20,000	2017-2018
Development of the Laboratory Opossum as a Model for Pathologies Induced by Zika Virus (J.L. VandeBerg, P.I.); UTRGV Internal Seed Research Program	\$ 20,000	2017-2018
Evaluation of PCR and Other Biomarkers for Assessing Parasitological Cure in Chagas Disease (J.L. VandeBerg, P.I.); Wellcome Trust	\$ 327,189	2017-2020
Active		
Laboratory Opossum iPSC Lines for Biomedical Research (NCE) (J.L. VandeBerg, Contact P.I.); National Institutes of Health	\$ 275,000	2019-2022
THRIVE: A unique medical hub for improving health Through advanced research and clinical care for the Rio Grande Valley (S. Williams-Blanger, P.I.; J.L. VandeBerg, Co-Investigator); Valley Baptist Legacy	\$ 35,981,364	2020-2022

Foundation

Publications

Theses:

1. VandeBerg, J.L.: X-Linked Isoenzymes and Other Protein Variants in Mammals, with Special Reference to Marsupials, 57 pp. B.Sc. Hons. Thesis, La Trobe University, Melbourne, Australia, 1970.
2. VandeBerg, J.L.: Phosphoglycerate Kinase (PGK) Isozymes and Their Relevance to Dosage Compensation and Sperm Physiology in Marsupials and Some Other Mammals. Vol. I. Dosage Compensation for the PGK-A Isozyme, 253 pp. Vol. II. PGK-B, A Sperm Isozyme, 274 pp. Ph.D. Thesis, Macquarie University, Sydney, Australia, 1975.

Articles and Book Chapters:

1. Cooper, D.W., VandeBerg, J.L., Sharman, G.B., and Poole, W.E. Phosphoglycerate kinase polymorphism in kangaroos provides further evidence for paternal X inactivation. *Nature (Lond.) New Biol.* 230:155-157, 1971.
2. Cooper, D.W., VandeBerg, J.L., Griffiths, M.E., and Ealey, E.H.M. Haemoglobin polymorphism in the echidna, *Tachyglossus aculeatus*. *Aust. J. Biol. Sci.* 26:605-612, 1973.
3. Holmes, R.S., Cooper, D.W., and VandeBerg, J.L. Marsupial and monotreme lactate dehydrogenase isozymes: phylogeny, ontogeny and homology with eutherian mammals. *J. Exp. Zool.* 184: 127-148, 1973.
4. VandeBerg, J.L., Cooper, D.W., and Close, P.J. Mammalian testis phosphoglycerate kinase. *Nature (Lond.) New Biol.* 243:48-50, 1973.
5. VandeBerg, J.L., Cooper, D.W., and Sharman, G.B. Phosphoglycerate kinase A polymorphism in the wallaby, *Macropus parryi*: activity of both X chromosomes in muscle. *Nature (Lond.) New Biol.* 243:47-48, 1973.
6. Holmes, R.S., Chew, G.K., Cooper, D.W., VandeBerg, J.L., and Poole, W.E. Electrophoretic variation of supernatant malate dehydrogenase in marsupials. *Biochem. Genet.* 11:25-32, 1974.
7. Holmes, R.S., VandeBerg, J.L., and Gordon, G. Genetic variation and immunochemical properties of malic dehydrogenase isozymes in the bandicoot, *Isodon macrourus*. *Aust. J. Biol. Sci.* 27: 677-681, 1974.
8. Cooper, D.W., Johnston, P.G., Murtagh, C.E., Sharman, G.B., VandeBerg, J.L., and Poole, W.E. Sex-linked isozymes and sex chromosome evolution and inactivation in kangaroos. In: *Isozymes. III. Developmental Biology; International Conference on Isozymes*, 3rd, Yale University, 1974. C.L. Markert (ed.), pp. 559-573. Academic Press, New York, 1975.

9. Cooper, D.W., Johnston, P.G., Murtagh, C.E., and VandeBerg, J.L. Sex chromosome evolution and activity in mammals, particularly kangaroos. In: The Eukaryote Chromosome: Papers presented at a conference held under the auspices of the U.S./Australia Science agreement, 1973. W.J. Peacock and R.D. Brock (eds.), pp. 381-393. Australian National University Press, Canberra, 1975.
10. Johnston, P.G., VandeBerg, J.L., and Sharman, G.B. Inheritance of erythrocyte glucose 6-phosphate dehydrogenase in the red-necked wallaby, *Macropus rufogriseus* (Desmarest), consistent with paternal X inactivation. *Biochem. Genet.* 13:235-242, 1975.
11. Cooper, D.W., Johnston, P.G., Sharman, G.B., and VandeBerg, J.L. The control of gene activity on eutherian and metatherian X chromosomes: a comparison. In: Reproduction and Evolution; International Symposium on Comparative Biology of Reproduction, 4th, Canberra, Proceedings. J.H. Calaby and C.H. Tyndale-Biscoe, (eds.), pp. 81-87. Australian Academy of Sciences, Canberra, 1976.
12. VandeBerg, J.L., Cooper, D.W., and Close, P.J. Testis specific phosphoglycerate kinase B in mouse. *J. Exp. Zool.* 198:231-240, 1976.
13. Cooper, D.W., Edwards, C., James, E., Sharman, G.B., VandeBerg, J.L., and Graves, J.A.M. Studies on metatherian sex chromosomes. VI. A third state of an X-linked gene: partial activity for the paternally derived *Pgk-A* allele in cultured fibroblasts of *Macropus giganteus* and *Macropus parryi*. *Aust. J. Biol. Sci.* 30:431-443, 1977.
14. VandeBerg, J.L., and Blohm, S.V. An allelic isozyme of mouse PGK-2 with low activity. *J. Exp. Zool.* 201:479-483, 1977.
15. VandeBerg, J.L., Cooper, D.W., and Sharman, G. B. Studies on metatherian sex chromosomes. V. Activity for the paternally derived allele at the X-linked *Pgk-A* locus in some tissues of the kangaroos *Macropus giganteus* and *Macropus parryi*. *Aust. J. Biol. Sci.* 30:421-430, 1977.
16. VandeBerg, J.L., Cooper, D.W., Sharman, G.B., and Poole, W.E. Studies on metatherian sex chromosomes. IV. X-linkage of PGK-A with paternal X-inactivation confirmed in erythrocytes of grey kangaroos by pedigree analysis. *Aust. J. Biol. Sci.* 30:115-125, 1977.
17. VandeBerg, J.L., and Johnston, P.G. A simple technique for long-term storage of erythrocytes for enzyme electrophoresis. *Biochem. Genet.* 15:213-215, 1977.
18. Klein, J., Flaherty, L., VandeBerg, J.L., and Shreffler, D.C. *H-2* haplotypes, genes, regions and antigens: first listing. *Immunogenetics* 6:489-512, 1978.
19. VandeBerg, J.L., and Cooper, D.W. Possible autosomal inheritance of erythrocyte phosphoglycerate kinase A in echidnas. *Biochem. Genet.* 16:1031-1034, 1978.
20. VandeBerg, J.L., and Klein, J. Localization of mouse *Pgk-2* gene at the *D* end of the *H-2* complex. *J. Exp. Zool.* 203:319-324, 1978.

21. VandeBerg, J.L., and Stone, W.H. Biochemical genetics of macaques. I. 6-Phosphogluconate dehydrogenase polymorphisms in *Macaca mulatta* and *Macaca speciosa*. *Biochem. Genet.* 16:373-378, 1978.
22. VandeBerg, J.L., and Stone, W.H. Biochemical genetics of macaques. II. Glucosephosphate isomerase polymorphism in rhesus monkeys. *Biochem. Genet.* 16:691-694, 1978.
23. Cooper, D.W., Johnston, P.G., VandeBerg, J.L., Maynes, G.M., and Chew, G.K. A comparison of genetic variability at X-linked and autosomal loci in kangaroos, man, and *Drosophila*. *Genet. Res.* 33:243-252, 1979.
24. VandeBerg, J.L., Thiel, J.E., Hope, R.M., and Cooper, D.W. Expression of PGK-A in the Australian brush-tailed possum, *Trichosurus vulpecula* (Kerr), consistent with paternal X-inactivation. *Biochem. Genet.* 17:325-332, 1979.
25. Rudolph, N.S., and VandeBerg, J.L. Restriction of PGK-B to spermatogenic cells: evidence from experimentally cryptorchid mice. *Dev. Genet.* 1:341-353, 1980.
26. VandeBerg, J.L., Cooper, D.W., Sharman, G.B., and Poole, W.E. Somatic expression and autosomal inheritance of phosphoglycerate kinase *B* in kangaroos. *Genetics* 95:413-424, 1980.
27. Hilkens, J., Hilgers, J., Demant, P., Michalides, R., Ruddle, F., Nichols, E., Holmes, R., Van Nie, R., VandeBerg, J.L., and Nikkels, R. Origin of and genetic relationships between the inbred mouse strains maintained at the Netherlands Cancer Institute. In: *Mammary Tumors in the Mouse*. J. Hilgers and M. Sluysen (eds.), pp. 11-44. Elsevier, Amsterdam, 1981.
28. Rudolph, N.S., and VandeBerg, J.L. Linkage disequilibrium between the *T/t* complex and *Pgk-2* in wild mice. *J. Exp. Zool.* 217:455-458, 1981.
29. Shedlovsky, A., Clipson, L., VandeBerg, J.L., and Dove, W. Strong teratocarcinoma transplantation loci, *Gt-1* and *Gt-2*, flank *H-2*. *Immunogenetics* 13:413-419, 1981.
30. Stone, W.H., VandeBerg, J.L., and Curie-Cohen, M. Where are rhesus monkeys on the immunogenetics tree? In: *Frontiers in Immunogenetics; International Symposium on Immunogenetics*, California Institute for Technology, Pasadena, California, 1980, Proceedings, W.H. Hildemann (ed.), pp. 45-60. Elsevier, New York, 1981.
31. VandeBerg, J.L., Bittner, G.N., Meyer, G.S., Kunz, H.W., and Gill, T.J., III. Linkage of neuraminidase and α -mannosidase to the major histocompatibility complex in the rat. *J. Immunogenet. (Oxf.)*, 8:239-242, 1981.
32. VandeBerg, J.L., Lee, C.-Y., and Goldberg, E. Immunohistochemical localization of phosphoglycerate kinase isozymes in mouse testes. *J. Exp. Zool.* 217:435-441, 1981.
33. Fadem, B.H., Trupin, G.L., Meliniak, E., VandeBerg, J.L., and Hayssen, V. Care and breeding of the gray, short-tailed opossum (*Monodelphis domestica*): a marsupial model for biomedical research. *Lab. Anim. Sci.* 32:405-409, 1982.

34. Gill, T.J., III, Kunz, H.W., Schaid, D.J., VandeBerg, J.L., and Stolc, V. Orientation of loci in the major histocompatibility complex of the rat and its comparison to man and the mouse. *J. Immunogenet.* 9:281-293, 1982.
35. Rudolph, N.S., Shovers, J.B., and VandeBerg, J.L. Spermatogenesis and sperm-specific phosphoglycerate kinase B and lactate dehydrogenase C₄ isoenzymes in sex-reversed mice. *J. Reprod. Fertil.* 65:39-44, 1982.
36. Rudolph, N.S., and VandeBerg, J.L. Phosphoglycerate kinase isozyme profile in reproductive cells and tissues of cattle: sperm specificity of PGK-B. *Biochem. Genet.* 20:105-110, 1982.
37. VandeBerg, J.L., Bittner, G.N., Benforado, K., Curie-Cohen, M., and Stone, W.H. Biochemical genetics of macaques. III. Inheritance of carbonic anhydrase II polymorphism in rhesus monkeys. *Biochem. Genet.* 20:437-442, 1982.
38. Curie-Cohen, M., VandeBerg, J.L., and Stone, W.H. Opportunities for genetics in research on non-human primates. *J. Hum. Evol.* 12:573-585, 1983.
39. Merry, D.E., Pathak, S., and VandeBerg, J.L. Differential NOR activities in somatic and germ cells of *Monodelphis domestica* (Marsupialia, Mammalia). *Cytogenet. Cell Genet.* 35:244-251, 1983.
40. Randelia, H.P., Hilgers, J., Hilkens, J., Kroezen, V., Holmes, R., and VandeBerg, J.L. Genetic marker patterns of inbred strains of mice at the Cancer Research Institute, Bombay. *Lab. Anim.* 17:280-284, 1983.
41. VandeBerg, J.L. Developmental aspects of X chromosome inactivation in eutherian and metatherian mammals. *J. Exp. Zool.* 228:271-286, 1983.
42. VandeBerg, J.L. Genetics of nonhuman primates in relation to viral diseases. In: *Viral and Immunological Diseases in Nonhuman Primates; International Symposium on the Use of Nonhuman Primates in Exotic Viral and Immunological Disease, San Antonio, 1982, Proceedings.* S.S. Kalter (ed.), pp. 39-66. Alan R. Liss, Inc., New York, 1983.
43. VandeBerg, J.L. The gray short-tailed opossum: a new laboratory animal. *ILAR News* 26(3):9-12, 1983.
44. VandeBerg, J.L., Johnston, P.G., Cooper, D.W., and Robinson, E.S. X-chromosome inactivation and evolution in marsupials and other mammals. *Isozymes Curr. Top. Biol. Med. Res.* 9:201-218, 1983.
45. Cheng, M.-L., and VandeBerg, J.L. A versatile technique for drying polyacrylamide slab gels. *J. Biochem. Biophys. Methods* 11:137-143, 1985.
46. Cothran, E.G., Aivaliotis, M.J., and VandeBerg, J.L. The effects of diet on growth and reproduction in gray short-tailed opossums (*Monodelphis domestica*). *J. Exp. Zool.* 236:103-114, 1985.

47. Roodman, G.D., VandeBerg, J.L., and Kuehl, T.J. Expression of latent hematopoietic progenitor cells in cultures of newborn and adult baboon liver. *Blood* 65:1518-1525, 1985.
48. Samollow, P.B., VandeBerg, J.L., Kunz, H.W., and Gill, T.J., III. Analysis of neuraminidase isozyme phenotypes in mammalian tissues: an electrophoretic approach. *Biochem. Biophys. Res. Commun.* 126:1182-1188, 1985.
49. VandeBerg, J.L. The phosphoglycerate kinase isozyme system in mammals: biochemical, genetic, developmental, and evolutionary aspects. *Isozymes Curr. Top. Biol. Med. Res.* 12:133-187, 1985.
50. Cheng, M.-L., Woodford, S.C., Hilburn, J.L., and VandeBerg, J.L. A novel system for storage of sera frozen in small aliquots. *J. Biochem. Biophys. Methods* 13:47-51, 1986.
51. Holmes, R.S., Courtney, Y.R., and VandeBerg, J.L. Alcohol dehydrogenase isozymes in baboons: tissue distribution, catalytic properties and variant phenotypes in liver, kidney, stomach and testis. *Alcoholism: Clin. Exp. Res.* 10:623-630, 1986.
52. Holmes, R.S., and VandeBerg, J.L. Aldehyde dehydrogenases, aldehyde oxidase and xanthine oxidase from baboon tissues: phenotypic variability and subcellular distribution in liver and brain. *Alcohol* 3:205-214, 1986.
53. Holmes, R.S., and VandeBerg, J.L. Ocular NAD-dependent alcohol dehydrogenase and aldehyde dehydrogenase in the baboon. *Exp. Eye Res.* 43:383-396, 1986.
54. MacCluer, J.W., VandeBerg, J.L., Read, B., and Ryder, O.A. Pedigree analysis by computer simulation. *Zoo Biol.* 5:147-160, 1986.
55. Samollow, P.B., VandeBerg, J.L., Ford, A.L., Douglas, T.C., and David, C.S. Electrophoretic analysis of liver neuraminidase-1 variation in mice and additional evidence concerning the location of *Neu-1*. *J. Immunogenet. (Oxf.)* 13:29-39, 1986.
56. Samollow, P.B., VandeBerg, J.L., Ford, A.L., Kunz, H.W., and Gill, T.J., III. Genetic analysis of liver neuraminidase isozymes in *Rattus norvegicus*: independent control of NEU-1 and NEU-2 phenotypes. *Genetics* 114:247-258, 1986.
57. Samples, N.K., VandeBerg, J.L., and Stone, W.H. Passively acquired immunity in the newborn of a marsupial (*Monodelphis domestica*). *Am. J. Reprod. Immunol. Microbiol.* 11:94-97, 1986.
58. VandeBerg, J.L., and Cheng, M.-L. The genetics of baboons in biomedical research. In: *Primate Evolution*. J.G. Else and P. C. Lee (eds.), pp. 317-327. Cambridge University Press, Cambridge, 1986.
59. VandeBerg, J.L., Cothran, E.G., and Kelly, C.A. Dietary effects on hematologic and serum chemical values in gray short-tailed opossums (*Monodelphis domestica*). *Lab. Anim. Sci.* 36:32-36, 1986.
60. Cheng, M.-L., Kuehl, T.J., and VandeBerg, J.L. Pregnancy-associated esterase in sera of baboons. *J. Exp. Zool.* 241:113-121, 1987.

61. Cheng, M.-L., and VandeBerg, J.L. Cryopreservation of erythrocytes in small aliquots for isozyme electrophoresis. *Biochem. Genet.* 25:535-541, 1987.
62. Dyke, B., Gage, T.B., VandeBerg, J.L., King, R.H., Mamelka, P.M., Cheng, M.-L., and Goodwin, W.J. Decision making in genetic management of primate breeding colonies. *Genetica* 73:137-144, 1987.
63. Holmes, R.S., Popp, R.A., and VandeBerg, J.L. Genetics of stomach and ocular alcohol dehydrogenase and aldehyde dehydrogenase in the mouse. *Alcohol Alcohol. Suppl.* 1:199-201, 1987.
64. Holmes, R.S., and VandeBerg, J.L. Baboon alcohol dehydrogenase isozymes: phenotypic changes in liver following chronic consumption of alcohol. *Isozymes Curr. Top. Biol. Med. Res.* 16:1-20, 1987.
65. Kaslow, D.C., Migeon, B.R., Persico, M.G., Zollo, M., VandeBerg, J.L., and Samollow, P.B. Molecular studies of marsupial X chromosomes reveal limited sequence homology of mammalian X-linked genes. *Genomics* 1:19-28, 1987.
66. MacCluer, J.W., Kammerer, C.M., VandeBerg, J.L., Cheng, M.-L., Mott, G.E., and McGill, H.C., Jr. Detecting genetic effects on lipoprotein phenotypes in baboons: a review of methods and preliminary findings. *Genetica* 73:159-168, 1987.
67. Samollow, P.B., Ford, A.L., and VandeBerg, J.L. X-linked gene expression in the Virginia opossum: differences between the paternally derived *Gpd* and *Pgk-A* Loci. *Genetics* 115:185-195, 1987.
68. Stone, W.H., Samples, N.K., Kraig, E., and VandeBerg, J.L. Definition of class I antigens of the MHC of a marsupial (*Monodelphis domestica*). *Arch. Zootec.* 36:219-235, 1987.
69. Stone, W.H., Treichel, R.S., and VandeBerg, J.L. Genetic significance of some common primate models in biomedical research. *Prog. Clin. Biol. Res.* 229:73-93, 1987.
70. VandeBerg, J.L. Historical perspective of genetic research with nonhuman primates. *Genetica* 73:7-14, 1987.
71. VandeBerg, J.L., Cheng, M.-L., Kammerer, C.M., MacCluer, J.W., and McGill, H.C., Jr. Genetic and dietary mediation of lipoprotein phenotypes in baboons. In *Münster International Arteriosclerosis Symposium, 4th Münster/Westfalen, Germany, 1985, Recent Advances in Arteriosclerosis Research.* W.H. Hauss, R.W. Wissler, and J. Grunwald (eds.) pp. 71-86. Westdeutscher Verlag, Opladen, 1987.
72. VandeBerg, J.L., and Kalter, S.S. (eds.). *Genetic Research with Nonhuman Primates: Serving the Needs of Mankind. Proceedings of an International Symposium, San Antonio, Texas, 1986.* *Genetics* 73:1-183, 1987.
73. VandeBerg, J.L., Robinson, E.S., Samollow, P.B., and Johnston, P.G. X-linked gene expression and X-chromosome inactivation: marsupials, mouse and man compared. *Isozymes Curr. Top. Biol. Med. Res.* 15:225-253, 1987.

74. Cheng, M.-L., Kammerer, C.M., Lowe, W.F., Dyke, B., and VandeBerg, J.L. Method for quantitating cholesterol in subfractions of serum lipoproteins separated by gradient gel electrophoresis. *Biochem. Genet.* 26:657-681, 1988.
75. Henkel, R.D., VandeBerg, J.L., and Walsh, R.A. A microassay for ATPase. *Anal. Biochem.* 169:312-318, 1988.
76. Hixson, J.E., Borenstein, S., Cox, L.A., Rainwater, D.L., and VandeBerg, J.L. The baboon gene for apolipoprotein A-I: characterization of a cDNA clone and identification of DNA polymorphisms for genetic studies of cholesterol metabolism. *Gene* 74:483-490, 1988.
77. Holmes, R.S., Popp, R.A., and VandeBerg, J.L. Genetics of ocular NAD⁺-dependent alcohol dehydrogenase and aldehyde dehydrogenase in the mouse: evidence for genetic identity with stomach isozymes and localization of *Adh-4* to chromosome 11 near trembler. *Biochem. Genet.* 26:195-205, 1988.
78. MacCluer, J.W., Kammerer, C.M., Blangero, J., Dyke, B., Mott, G.E., VandeBerg, J.L., and McGill, H.C., Jr. Pedigree analysis of HDL cholesterol concentration in baboons on two diets. *Am. J. Hum. Genet.* 43:401-413, 1988.
79. Roodman, G.D., VandeBerg, J.L., and Kuehl, T.J. *In utero* bone marrow transplantation of fetal baboons with mismatched adult marrow: initial observations. *Bone Marrow Transplant.* 3:141-147 1988.
80. Stevens, M.E., Maidens, P.M., Robinson, E.S., VandeBerg, J.L., Pedersen, R.A., and Monk, M. DNA methylation in the developing marsupial embryo. *Development* 103:719-724, 1988.
81. Crisp, E.A., Messer, M., and VandeBerg, J.L. Changes in milk carbohydrates during lactation in a didelphid marsupial *Monodelphis domestica*. *Physiol. Zool.* 62:1117-1125, 1989.
82. Croix, D.A., Samples, N.K., VandeBerg, J.L., and Stone, W.H. Immune response of a marsupial (*Monodelphis domestica*) to sheep red blood cells. *Dev. Comp. Immunol.* 13:73-78, 1989.
83. Henkel, R.D., VandeBerg, J.L., Shade, R.E., Leger, J.J., and Walsh, R.A. Cardiac beta myosin heavy chain diversity in normal and chronically hypertensive baboons. *J. Clin. Invest.* 83:1487-1493, 1989.
84. Hixson, J.E., Henkel, R.D., Britten, M.L., Vernier, D.T., deLemos, R.A., VandeBerg, J.L., and Walsh, R.A. α -myosin heavy chain cDNA structure and gene expression in adult, fetal, and premature baboon myocardium. *J. Mol. Cell. Cardiol.* 21:1073-1086, 1989.
85. Holmes, R.S., Cheung, B., and VandeBerg, J.L. Isoelectric focusing studies of aldehyde dehydrogenases, alcohol dehydrogenases and oxidases from mammalian anterior eye tissues. *Comp. Biochem. Physiol.* 93B:271-277, 1989.

86. Rainwater, D.L., Manis, G.S., and VandeBerg, J.L. Hereditary and dietary effects on apolipoprotein(a) isoforms and Lp(a) in baboons. *J. Lipid Res.* 30:549-558, 1989.
87. Samollow, P.B., Ford, A.L., Johnston, P.G., and VandeBerg, J.L. X-linked gene expression in metatherian fibroblasts: evidence for the *Gpd* and *Pgk-A* loci in the Virginia opossum and the red-necked wallaby. *Biochem. Genet.* 27:313-320, 1989.
88. Sevilir, N.S., Torgerson, E. Guajardo, A.C., VandeBerg, J.L., and Stone, W.H. Acid phosphatase polymorphism in a laboratory marsupial, *Monodelphis domestica*. *Biochem. Genet.* 27:755-759, 1989.
89. van Oorschot, R.A.H., and VandeBerg, J.L. Genetic variation in adenylate kinase 1, glyceraldehyde-3-phosphate dehydrogenase, and glutamic-pyruvate transaminase in the marsupial *Monodelphis domestica*. *Biochem. Genet.* 27:761-765, 1989.
90. Algar, E.M., Abedinia, M., VandeBerg, J.L., and Holmes, R.S. Purification and properties of baboon corneal aldehyde dehydrogenase: proposed UVR protective role. In: *Enzymology and Molecular Biology of Carbonyl Metabolism 3*. H. Weiner (ed.), pp. 53-60. Plenum Press, New York, 1990.
91. Cohen, W.D., Cohen, M.F., Tyndale-Biscoe, H., VandeBerg, J.L., and Ralston, G.B. The cytoskeletal system of mammalian primitive erythrocytes: studies in developing marsupials. *Cell Motil. Cytoskeleton* 16:133-145, 1990.
92. Cooper, D.W., Johnston, P.G., VandeBerg, J.L., and Robinson, E.S. X-chromosome inactivation in marsupials. *Aust. J. Zool.* 37:411-418, 1990.
93. Cothran, E.G., Haines, C.K., and VandeBerg, J.L. Age effects on hematologic and serum chemical values in gray short-tailed opossums (*Monodelphis domestica*). *Lab. Anim. Sci.* 40:192-197, 1990.
94. Dyke, B. Williams-Blangero, S., Dyer, T.D., and VandeBerg, J.L. Use of isozymes in genetic management of nonhuman primate colonies. *Prog. Clin. Biol. Res.* 344:563-574, 1990.
95. Ferrell, R.E., Sepehrnia, B., Kamboh, M.I., and VandeBerg, J.L. Highly polymorphic apolipoprotein A-IV locus in the baboon. *J. Lipid Res.* 31:131-136, 1990.
96. Holmes, R.S., Meyer, J., and VandeBerg, J.L. Baboon alcohol dehydrogenase isozymes: purification and properties of liver Class I ADH. Moderate alcohol consumption reduces liver Class I and Class II ADH activities. *Prog. Clin. Biol. Res.* 344:819-841, 1990.
97. Holmes, R.S., van Oorschot, R.A.H., and VandeBerg, J.L. Genetics of alcohol dehydrogenase and aldehyde dehydrogenase from *Monodelphis domestica* cornea: further evidence for identity of corneal aldehyde dehydrogenase with a major soluble protein. *Genet. Res.* 56:259-265, 1990.
98. Muirhead, D.Y., Kuehl, T.J., VandeBerg, J.L., Menchaca, E.M., Downs, M.P., and Roodman, G.D. Mixed lymphocyte culture reactivity of fetal baboons: application for *in utero* bone marrow transplantation. *Bone Marrow Transplant.* 6:263-267, 1990.

99. Renfree, M.B., Robinson, E.S., Short, R.V., and VandeBerg, J.L. Mammary glands in male marsupials: I. Primordia in neonatal opossums *Didelphis virginiana* and *Monodelphis domestica*. *Development* 110:385-390, 1990.
100. Samollow, P.B., Ford, A.L., and VandeBerg, J.L. Biochemical characteristics and subcellular localizations of rat liver neuraminidase isozymes: a paradox resolved. *Biochem. Genet.* 28:283-298, 1990.
101. van Oorschot, R.A.H., VandeBerg, J.L., and Stone, W.H. Isozymes of marsupials: implications for understanding mammalian evolution. *Prog. Clin. Biol. Res.* 344:765-786, 1990.
102. VandeBerg, J.L. The gray short-tailed opossum (*Monodelphis domestica*) as a model didelphid species for genetic research. *Aust. J. Zool.* 37:235-247, 1990.
103. VandeBerg, J.L., and Aivaliotis, M.J. Mannose-6-phosphate isomerase polymorphism in baboon erythrocytes. *Biochem. Genet.* 28:495-501, 1990.
104. VandeBerg, J.L., Aivaliotis, M.J., Williams, L.E., and Abee, C.R. Biochemical genetic markers of squirrel monkeys and their use for pedigree validation. *Biochem. Genet.* 28:41-56, 1990.
105. VandeBerg, J.L., Williams-Blangero, S., Moore, C.M., Cheng, M.-L., and Abee, C.R. Genetic relationships among three squirrel monkey types: implications for taxonomy, biomedical research, and captive breeding. *Am. J. Primatol.* 22:101-111, 1990.
106. Williams-Blangero, S., VandeBerg, J.L., Blangero, J., Konigsberg, L., and Dyke, B. Genetic differentiation between baboon subspecies: relevance for biomedical research. *Am. J. Primatol.* 20:67-81, 1990.
107. Committee on Preservation of Laboratory Animal Resources, Bennett, D., Cork, L.C., Gill, T.J., III, Gordon, J.W., Hendrickx, A.G., Mobraaten, L.E., and VandeBerg, J.L. Commission on Life Sciences, National Research Council: Important laboratory animal resources: selection criteria and funding mechanisms for their preservation. *ILAR News* 32(4):A1-A32, 1991.
108. Green, B., VandeBerg, J.L., and Newgrain, K. Milk composition in an American marsupial (*Monodelphis domestica*). *Comp. Biochem. Physiol.* 99:663-675, 1991.
109. Hackleman, S.M., Voelm, L.D., Manis, G.S., Robinson, E.S., VandeBerg, J.L., and Stone, W.H. Identification of a fetoprotein in a marsupial (*Monodelphis domestica*). *Lab. Anim.* 20(9):50-56, 1991.
110. Holmes, R.S., van Oorschot, R.A.H., and VandeBerg, J.L. Aldehyde dehydrogenase (ALDH) isozymes in the gray short-tailed opossum (*Monodelphis domestica*): tissue and subcellular distribution and biochemical genetics of ALDH3. *Biochem. Genet.* 29:163-175, 1991.

111. Hubbard, G.B., Saphire, D.G., Hackleman, S.M., Silva, M., VandeBerg, J.L., and Stone, W.H. Ontogeny of the thymus gland of a marsupial (*Monodelphis domestica*). Lab. Anim. Sci. 41:227-232, 1991.
112. Infante, A.J., Samples, N.K., Croix, D.A., Redding, T.D., VandeBerg, J.L., and Stone, W.H. Cellular immune response of a marsupial (*Monodelphis domestica*). Dev. Comp. Immunol. 15:189-199, 1991.
113. Robinson, E.S., Renfree, M.B., Short, R.V., and VandeBerg, J.L. Mammary glands in male marsupials. 2. Development of teat primordia in *Didelphis virginiana* and *Monodelphis domestica*. Reprod. Fertil. Dev. 3:295-301, 1991.
114. Roodman, G.D., Kuehl, T.J., VandeBerg, J.L., and Muirhead, D.Y. *In utero* bone marrow transplantation of fetal baboons with mismatched adult bone marrow. Blood Cells 17: 367-375, 1991.
115. van Oorschot, R.A.H., Birmingham, V., and VandeBerg, J.L. *HindIII* RFLP for NRAS in *Monodelphis domestica*. Nucleic Acids Res. 19:6976, 1991.
116. van Oorschot, R.A.H., and VandeBerg, J.L. Tight linkage between *MPI* and *NP* in baboons. Genomics 9:783-785, 1991.
117. VandeBerg, J.L., Weitkamp, L., Kammerer, C.M., Weill, P., Aivaliotis, M.J., and Rainwater, D.L. Linkage of plasminogen (*PLG*) and apolipoprotein(a) (*LPA*) in baboons. Genomics 11:925-930, 1991.
118. Algar, E.M., VandeBerg, J.L., and Holmes, R.S. A gastric alcohol dehydrogenase in the baboon: purification and properties of a "high- K_m " enzyme, consistent with a role for "first pass" alcohol metabolism. Alcoholism: Clin. Exp. Res. 16:922-927, 1992.
119. Bell, K., Arthur, H., van Oorschot, R.A.H., and VandeBerg, J.L. Antithrombin III (AT3) polymorphism in the marsupial *Monodelphis domestica*: identification and genetics. Biochem. Genet. 30:591-601, 1992.
120. Downes, J.E., VandeBerg, J.L., Hubbard, G.B., and Holmes, R.S. Regional distribution of mammalian corneal aldehyde dehydrogenase and alcohol dehydrogenase. Cornea 11:560-566, 1992.
121. Holmes, R.S., van Oorschot, R.A.H., and VandeBerg, J.L. Biochemical genetics of alcohol dehydrogenase isozymes in the gray short-tailed opossum (*Monodelphis domestica*). Biochem. Genet. 30:215-231, 1992.
122. Kammerer, C.M., Hixson, J.E., Aivaliotis, M.J., Porter, P.A., and VandeBerg, J.L. Linkage heterogeneity between the *C3* and *LDLR* and the *APOA4* and *APOA1* loci in baboons. Genomics 14:43-48, 1992.
123. Manis, G.S., Hubbard, G.B., Hainsey, B.M., Ely, J.J., VandeBerg, J.L., and Stone, W.H. Effects of chronic blood loss in a marsupial (*Monodelphis domestica*). Lab Anim. Sci. 42:567-571, 1992.

124. Rainwater, D.L., Blangero, J., Hixson, J.E., Birnbaum, S., Mott, G.E., and VandeBerg, J.L. A DNA polymorphism for lecithin cholesterol acyltransferase (LCAT) is associated with altered LCAT activity and High Density Lipoprotein size distributions in baboons. *Arterioscler. Thromb.* 12:682-690, 1992.
125. Rainwater, D.L., Kammerer, C.M., Cheng, M.-L., Sparks, M.L., and VandeBerg, J.L. Distribution of specific apolipoproteins determined by immunoblotting of baboon lipoproteins resolved by polyacrylamide gradient gel electrophoresis. *Biochem. Genet.* 30:143-158, 1992.
126. Rainwater, D.L., and VandeBerg, J.L. Dramatic differences in lipoprotein composition among gray short-tailed opossums (*Monodelphis domestica*) fed a high cholesterol/saturated fat diet. *Biochim. Biophys. Acta* 1126:159-166, 1992.
127. Selwood, L., and VandeBerg, J.L. The influence of incubation temperature on oocyte maturation, parthenogenetic and embryonic development *in vitro* of the marsupial *Monodelphis domestica*. *Anim. Reprod. Sci.* 29:99-116, 1992.
128. van Oorschot, R.A.H., Porter, P.A., Kammerer, C.M., and VandeBerg, J.L. Severely reduced recombination in females of the South American marsupial *Monodelphis domestica*. *Cytogenet. Cell Genet.* 60:64-67, 1992.
129. van Oorschot, R.A.H., Williams-Blangero, S., and VandeBerg, J.L. Genetic diversity of laboratory gray short-tailed opossums (*Monodelphis domestica*): effect of newly introduced wild-caught animals. *Lab. Anim. Sci.* 42:255-260, 1992.
130. VandeBerg, J.L. Biochemical markers and restriction fragment length polymorphisms (RFLPs) in baboons: their power for paternity exclusion. In: *Paternity in Primates: Genetic Tests and Theories*. R.D. Martin, A.F. Dixson, and E.J. Wickings (eds.), pp. 18-31. Karger, Basel, 1992.
131. VandeBerg, J.L., and Aivaliotis, M.J. Adenine phosphoribosyl transferase polymorphism in baboons. *Biochem. Genet.* 30:331-337, 1992.
132. VandeBerg, J.L., Aivaliotis, M.J., and Samollow, P.B. X-linked glucose-6-phosphate dehydrogenase (G6PD) and autosomal 6-phosphogluconate dehydrogenase (6PGD) polymorphisms in baboons. *Biochem. Genet.* 30:567-579, 1992.
133. VandeBerg, J.L., Robinson, E.S., and Williams-Blangero, S. A new animal model (*Monodelphis domestica*) for genetic research on skin and eye cancers. *Brazilian J. Genet.* 15(Suppl. 1): 301-304, 1992.
134. Chiscano, K.A., Hackleman, S.M., Underwood, A.R., Bigler, W., Kammerer, C., VandeBerg, J.L., and Stone, W.H. Blood groups in a marsupial (*Monodelphis domestica*). *J. Hered.* 84:181-183, 1993.
135. Dooley, T.P., Mattern, V.L., Moore, C.M., Porter, P.A., Robinson, E. S., and VandeBerg, J.L. Cell lines derived from ultraviolet radiation-induced benign melanocytic nevi in *Monodelphis domestica* exhibit cytogenetic aneuploidy. *Cancer Genet. Cytogenet.* 71:55-66, 1993.

136. Henkel, R.D., Kammerer, C.M., Escobedo, L.V., VandeBerg, J.L., and Walsh, R.A. Correlated expression of atrial myosin heavy chain and regulatory light chain isoforms with pressure-overload hypertrophy in the non-human primate. *Cardiovasc. Res.* 27:416-422, 1993.
137. Henkel, R.D., Sharp, R.M., McGill, H.C., Jr., Galindo, L.V., Aivaliotis, M.J., and VandeBerg, J.L. A primate model of monotypism in atherosclerotic lesions. *Exp. Mol. Pathol.* 59:111-121, 1993.
138. Hixson, J.E., Kammerer, C.M., Mott, G.E., Britten, M.L., Birnbaum, S., Powers, P.K., and VandeBerg, J.L. Baboon apolipoprotein A-IV: identification of Lys⁷⁶ → Glu that distinguishes two common isoforms and detection of length polymorphisms at the carboxyl terminus. *J. Biol. Chem.* 268:15667-15673, 1993.
139. Ma, D.-P., Zharkikh, A., Graur, D., VandeBerg, J.L., and Li, W.-H. Structure and evolution of opossum, guinea pig, and porcupine cytochrome *b* genes. *J. Mol. Evol.* 36:327-334, 1993.
140. Maenpaa, J., Dooley, T.P., Wurz, G., VandeBerg, J.L., Robinson, E.S., Emshoff, V., Sipila, P., Wiebe, V., Day, C., and DeGregorio, M. Topical toremifene: a new approach for cutaneous melanoma? *Cancer Chemother. Pharmacol.* 32:392-395, 1993.
141. Pathak, S., Ronne, M., Brown, N.M., Furlong, C.L., and VandeBerg, J.L. A high-resolution banding pattern ideogram of *Monodelphis domestica* chromosomes (Marsupialia, Mammalia). *Cytogenet. Cell Genet.* 63:181-184, 1993.
142. Stone, W.H., Ely, J.J., Manis, G.S., and VandeBerg, J.L. Classical genetic markers and DNA markers: a commensal marriage. *Primates* 34:365-376, 1993.
143. van Oorschot, R.A.H., Birmingham, V., Porter, P.A., Kammerer, C.M., and VandeBerg, J.L. Linkage between complement components 6 and 7 and glutamic pyruvate transaminase in the marsupial *Monodelphis domestica*. *Biochem. Genet.* 31:215-222, 1993.
144. Breed, W.G., Simerly, C., Navarra, C., VandeBerg, J.L., and Schatten, G. Microtubule configurations in oocytes, zygotes, and early embryos of a marsupial, *Monodelphis domestica*. *Dev. Biol.* 164:230-240, 1994.
145. Johnston, P.G., Dean, D., VandeBerg, J.L., and Robinson, E.S. HPRT activity in embryos of a South American opossum (*Monodelphis domestica*). *Reprod. Fertil. Dev.* 6:529-532, 1994.
146. Mate, K.E., Robinson, E.S., VandeBerg, J.L., and Pedersen, R.A. Timetable of in vivo embryonic development in the grey short-tailed opossum (*Monodelphis domestica*). *Mol. Reprod. Dev.* 39:365-374, 1994.
147. Nesterova, T.B., Isaenko, A.A., Matveeva, N.M., Shilov, A.G., Rubtsov, N.B., Vorobieva, N. I., Rubtsova, N.V., VandeBerg, J.L., and Zakiyan, S. M. [Prospects for obtaining a mapping panel of marsupial-rodent somatic cell hybrids for the short-tailed opossum.] *Genetika* 30:1516-1524, 1994.

148. Perelygin, A.A., Samollow, P.B., and VandeBerg, J.L. A new *Hind*III RFLP of NRAS in the laboratory opossum, *Monodelphis domestica*. *Anim. Genet.* 25:432, 1994.
149. Rainwater, D.L., Holmes, R.S., and VandeBerg, J.L. Effects of ethanol feeding on high-density lipoproteins and lipoprotein (a) in baboons. In: *Isozymes: Organization and Roles in Evolution, Genetics, and Physiology*. C.L. Markert, J.G. Scandalios, H.A. Lim, and O.L. Serov (eds.), pp. 153-167. World Scientific Publishing Co., River Edge, New Jersey, 1994.
150. Rainwater, D.L., MacCluer, J.W., Stern, M.P., VandeBerg, J.L., and Haffner, S.M. Effects of NIDDM on lipoprotein(a) concentration and apolipoprotein (a) size. *Diabetes* 43:942-946, 1994.
151. Robinson, E.S., Samollow, P.B., VandeBerg, J.L., and Johnston, P.G. X-chromosome replication patterns in adult, newborn and prenatal opossums. *Reprod. Fertil. Dev.* 6:533-540, 1994.
152. Robinson, E.S., and VandeBerg, J.L. Blood collection and surgical procedures for the laboratory opossum (*Monodelphis domestica*). *Lab. Anim. Sci.* 44:63-68, 1994.
153. Robinson, E.S., VandeBerg, J.L., Hubbard, G.B., and Dooley, T.P. Malignant melanoma in ultraviolet-irradiated laboratory opossums: initiation in suckling young, metastasis in adults, and xenograft behavior in nude mice. *Cancer Res.* 54:5986-5991, 1994.
154. VandeBerg, J.L. Mapping the genome of a marsupial, *Monodelphis domestica*: Application to skin cancer research. In: *Isozymes: Organization and Roles in Evolution, Genetics, and Physiology*. C.L. Markert, J.G. Scandalios, H.A. Lim, and O.L. Serov (eds.), pp. 53-63. World Scientific Publishing Co., River Edge, New Jersey, 1994.
155. VandeBerg, J.L., Williams-Blangero, S., Hubbard, G.B., and Robinson, E.S. Susceptibility to ultraviolet-induced corneal sarcomas is highly heritable in a laboratory opossum model. *Int. J. Cancer* 56:119-123, 1994.
156. VandeBerg, J.L., Williams-Blangero, S., Hubbard, G.B., Ley, R.D., and Robinson, E.S. Genetic analysis of ultraviolet radiation-induced skin hyperplasia and neoplasia in a laboratory marsupial model (*Monodelphis domestica*). *Arch. Dermatol. Res.* 268:12-17, 1994.
157. Aivaliotis, M.J., Cantu, T., Gilligan, R., and VandeBerg, J.L. Glutathione S-transferase class π polymorphism in baboons. *Biochem. Genet.* 33:35-40, 1995.
158. Mahaney, M.C., Blangero, J., Comuzzie, A.G., VandeBerg, J.L., Stern, M.P., and MacCluer, J.W. Plasma HDL cholesterol, triglycerides, and adiposity. A quantitative genetic test of the conjoint trait hypothesis in the San Antonio Family Heart Study. *Circulation* 92:3240-3248, 1995.
159. Mahaney, M.C., Blangero, J., Rainwater, D.L., Comuzzie, A.G., VandeBerg, J.L., Stern, M.P., MacCluer, J.W., and Hixson, J.E. A major locus influencing plasma high-density lipoprotein cholesterol levels in the San Antonio Family Heart Study. Segregation and linkage analyses. *Arterioscler. Thromb. Vasc. Biol.* 15:1730-1739, 1995.

160. Rainwater, D.L., Ludwig, M.J., Haffner, S.M., and VandeBerg, J.L. Lipid and lipoprotein factors associated with variation in Lp(a) density. *Arterioscler. Thromb. Vasc. Biol.* 15:313-319, 1995.
161. Robinson, E.S., Hubbard, G.B., and VandeBerg, J.L. Ultraviolet radiation-induced skin lesions in laboratory opossums (*Monodelphis domestica*) exposed from the weanling stage. *Arch. Dermatol. Res.* 287:333-337, 1995.
162. Samollow, P.B., Robinson, E.S., Ford, A. L., and VandeBerg, J.L. Developmental progression of *Gpd* expression from the inactive X chromosome of the Virginia opossum. *Dev. Genet.* 16:367-378, 1995.
163. Shearer, M.H., Robinson, E.S., VandeBerg, J.L., and Kennedy, R.C. Humoral immune response in a marsupial *Monodelphis domestica*: anti-isotypic and anti-idiotypic responses detected by species specific monoclonal anti-immunoglobulin reagents. *Dev. Comp. Immunol.* 19:237-246, 1995.
164. Singh, A.T.K., Rainwater, D.L., Haffner, S.M., VandeBerg, J.L., Shelledy, W.R., Moore, P.H., Jr., and Dyer, T.D. Effect of diabetes on lipoprotein size. *Arterioscler. Thromb. Vasc. Biol.* 15:1805-1811, 1995.
165. VandeBerg, J.L. Genetics of nonhuman primates. In: *Nonhuman Primates in Biomedical Research. Biology and Management.* B.T. Bennett, C.R. Abee, and R. Henrickson (eds.), pp. 129-146. Academic Press, San Diego, 1995.
166. Arthur, H., Bell, K., VandeBerg, J.L., and van Oorschot, R.A.H. Plasma protease inhibitor (PI) system in the laboratory opossum, *Monodelphis domestica*. *Biochem. Genet.* 34:389-399, 1996.
167. Bruckner, G.G., Widanska, B., Aivaliotis, M.J., Robinson, E.S., and VandeBerg, J.L. Skin neutral and phospholipid fatty acid changes following ultraviolet radiation in gray short tailed opossum (*Monodelphis domestica*). In: *Germfree Life and its Ramifications; International Symposium on Gnotobiology, 12th, Honolulu, Hawaii, June 24-28, 1996, Proceedings.* K. Hashimoto, B. Sakakibara, S. Tazume, and K. Shimizu (eds.), pp. 435-438. XII ISG Publishing Committee [Tokai University], Shiozawa, Japan, 1996.
168. Comparative Genome Organization, First International Workshop. (J.L. VandeBerg, participant). *Comparative genome organization of vertebrates. Mamm. Genome* 7:717-734, 1996.
169. Comuzzie, A.G., Blangero, J., Mahaney, M.C., Sharp, R.M., VandeBerg, J.L., Stern, M.P., and MacCluer, J.W. Triiodothyronine exerts a major pleiotropic effect on reverse cholesterol transport phenotypes. *Arterioscler. Thromb. Vasc. Biol.* 16:289-293, 1996.
170. Kammerer, C.M., VandeBerg, J.L., and Hixson, J.E. Apolipoprotein B (apo B) signal peptide length polymorphisms are associated with apo B, low density lipoprotein cholesterol, and glucose levels in Mexican Americans. *Atherosclerosis* 120:37-45, 1996.
171. Kent-First, M.G., Maffit, M., Muallem, A., Brisco, P., Shultz, J., Ekenberg, S., Agulnik, A.I., Agulnik, I., Shramm, D., Bavister, B., Abdul-Mawgood, A., and VandeBerg, J.L.

- Gene sequence and evolutionary conservation of human SMCY. *Nat. Genet.* 14:128-129, 1996.
172. McCarrey, J.R., Kumari, M., Aivaliotis, M.J., Wang, Z., Zhang, P., Marshall, F., and VandeBerg, J.L. Analysis of the cDNA and encoded protein of the human testis-specific *PGK-2* gene. *Dev. Genet.* 19:321-332, 1996.
 173. Mitchell, B.D., Kammerer, C.M., Blangero, J., Mahaney, M.C., Rainwater, D.L., Dyke, B., Hixson, J.E., Henkel, R.D., Sharp, R.M., Comuzzie, A.G., VandeBerg, J.L., Stern, M.P., and MacCluer, J.W. Genetic and environmental contributions to cardiovascular risk factors in Mexican Americans: The San Antonio Family Heart Study. *Circulation* 94:2159-2170, 1996.
 174. Perelygin, A.A., Samollow, P.B., Perelygina, L.M., Cherry, L.M., Mahaney, S.M., and VandeBerg, J.L. A new DNA marker, *U15557*, is linked to protease inhibitor and adenylate kinase-1 in the laboratory opossum, *Monodelphis domestica*. *Anim. Genet.* 27:113-116, 1996.
 175. Robinson, E.S., VandeBerg, J.L., Watson, C.M., and Dooley, T.P. Intersexual phenotypes and sex chromosome complements of five South American opossums (*Monodelphis domestica*). *Lab. Anim. Sci.* 46:555-560, 1996.
 176. Singh, A.T.K., Rainwater, D.L., Kammerer, C.M., Sharp, R.M., Poushesh, M., Shelledy, W.R. and VandeBerg, J.L. Dietary and genetic effects on LDL size measures in baboons. *Arterioscler. Thromb. Vasc. Biol.* 16:1448-1453, 1996.
 177. VandeBerg, J.L., Heberling, R.L., and Butler, T.M. Microbiological profile of gray short-tailed opossums: Comparison of colony-reared and recently captured individuals. *Microecol. Ther.* 24:33-38, 1996.
 178. VandeBerg, J.L., and Williams-Blangero, S. Strategies for using nonhuman primates in genetic research on multifactorial diseases. *Lab. Anim. Sci.* 46:146-151, 1996.
 179. Comuzzie, A.G., Rainwater, D.L., Blangero, J., Mahaney, M.C., VandeBerg, J.L., and MacCluer, J.W. Shared and unique genetic effects among seven HDL phenotypes. *Arterioscler. Thromb. Vasc. Biol.* 17:859-864, 1997.
 180. Hubbard, G.B., Mahaney, M.C., Gleiser, C.A., Taylor, D.E., and VandeBerg, J.L. Spontaneous pathology of the gray short-tailed opossum (*Monodelphis domestica*). *Lab. Anim. Sci.* 47:19-26, 1997.
 181. Nesterova, T.B., Isaenko, A.A., Matveeva, N.M., Shilov, A.G., Rubtsov, N.B., Vorobieva, N.V., Rubtsova, N.V., VandeBerg, J.L. and Zakian, S.M. Novel strategies for eutherian-marsupial somatic cell hybrids: mapping the genome of *Monodelphis domestica*. *Cytogenet. Cell Genet.* 76:115-122, 1997.
 182. Rainwater, D.L., Comuzzie, A.G., VandeBerg, J.L., Mahaney, M.C., and Blangero, J. Serum leptin levels are independently correlated with two measures of HDL. *Arteriosclerosis* 132:237-243, 1997.

183. Rainwater, D.L., Kammerer, C.M., VandeBerg, J.L., and Hixson, J.E. Characterization of the genetic elements controlling lipoprotein(a) concentrations in Mexican Americans. Evidence for at least three controlling elements linked to *LPA*, the locus encoding apolipoprotein(a). *Atherosclerosis* 128:223-233, 1997.
184. Selwood, L., Robinson, E.S., Pedersen, R.A., and VandeBerg, J.L. Development in vitro of marsupials: a comparative review of species and a timetable of cleavage and early blastocyst stages of development in *Monodelphis domestica*. *Int. J. Dev. Biol.* 41:397-410, 1997.
185. Sokolova, O.V., van Oorschot, R.A.H., and VandeBerg, J.L. Aldolase C polymorphism in the laboratory opossum, *Monodelphis domestica*. *Anim. Genet.* 28:358-359, 1997.
186. Stone, W.H., Manis, G.S., Hoffman, E.S., Saphire, D.G., Hubbard, G.B., and VandeBerg, J.L. Fate of allogeneic skin transplantations in a marsupial (*Monodelphis domestica*). *Lab. Anim. Sci.* 47:283-287, 1997.
187. VandeBerg, J.L., and Robinson, E.S. The laboratory opossum (*Monodelphis domestica*) in biomedical research. In: *Marsupial Biology. Recent Research, New Perspectives.* N. Saunders and L. Hinds (eds.), pp. 238-253. University of New South Wales Press, Sydney, 1997.
188. VandeBerg, J.L., and Robinson, E.S. The laboratory opossum (*Monodelphis domestica*) in laboratory research. *ILAR J.* 38:4-12, 1997. (Reprinted version of reference 179.)
189. VandeBerg, J.L., and Williams-Blangero, S. Advantages and limitations of nonhuman primates as animal models in genetic research on complex diseases. *J. Med. Primatol.* 26:113-119, 1997.
190. Williams-Blangero, S., VandeBerg, J.L., Blangero, J., and Teixeira, A.R.L. Genetic epidemiology of seropositivity for *Trypanosoma cruzi* infection in rural Goias, Brazil. *Am. J. Trop. Med. Hygiene* 57:538-543, 1997.
191. McCarrey, J.R., and VandeBerg, J.L. 9th International Congress on Isozymes, Genes, and Gene Families: An Overview. *J. Exp. Zool.* 282:8-11, 1998.
192. McCarrey, J.R., and VandeBerg, J.L. (Guest eds.) Special Issue: Proceedings from the 9th International Congress on Isozymes Genes, and Gene Families, April 14-19, 1998, San Antonio, Texas. *J. Exp. Zool.* 282:1-283, 1998.
193. Rainwater, D.L., Kammerer, C.M., Hixson, J.E., Carey, K.D., Rice, K.S., Dyke, B., VandeBerg, J.F., Slifer, S.H., Atwood, L.D., McGill, H.C., Jr., and VandeBerg, J.L. Two major loci control variation in β -lipoprotein cholesterol and response to dietary fat and cholesterol in baboons. *Arterioscler. Thromb. Vasc. Biol.* 18:1061-1068, 1998.
194. Robinson, E.S., Hubbard, G.B., Colon, G., and VandeBerg, J.L. Low-dose ultraviolet exposure early in development can lead to widespread melanoma in the opossum model. *Int. J. Exp. Pathol.* 79:235-244, 1998.
195. Rogers, J., and VandeBerg, J.L. Gene maps of nonhuman primates. *ILAR J.* 39:145-152, 1998.

196. Stone, W.H., Bruun, D.A., Foster, E.B., Manis, G.S., Hoffman, E.S., Saphire, D.G., VandeBerg, J.L., and Infante, A.J. Absence of a significant mixed lymphocyte reaction in a marsupial (*Monodelphis domestica*). *Lab. Anim. Sci.* 48:184-189, 1998.
197. VandeBerg, J.L., McCarrey, J.R., and Lim H.A. Preface to the 9th International Congress on Isozymes, Genes, and Gene Families. *J. Exp. Zool.* 282:2-7, 1998.
198. Almasy, L., Hixson, J.E., Rainwater, D.L., Cole, S., Williams, J.T., Mahaney, M.C., VandeBerg, J.L., Stern, M.P., MacCluer, J.W., and Blangero, J. Human pedigree-based quantitative-trait-locus mapping: localization of two genes influencing HDL cholesterol metabolism. *Am. J. Hum. Genet.* 64:1686-1693, 1999.
199. Ely, J.J., Aivaliotis, M.J., Kalmin, B., Manis, G.S., VandeBerg, J.L., and Stone, W.H. Comparison of biochemical polymorphisms and short tandem repeat (STR) DNA markers for paternity testing in rhesus monkeys (*Macaca mulatta*). *Biochem. Genet.* 37:323-324, 1999.
200. MacCluer, J.W., Stern, M.P., Almasy, L., Atwood, L.A., Blangero, J., Comuzzie, A.G., Dyke, B., Haffner, S.M., Henkel, R.D., Hixson, J.E., Kammerer, C.M., Mahaney, M.C., Mitchell, B.D., Rainwater, D.L., Samollow, P.B., Sharp, R.M., VandeBerg, J.L., and Williams, J.T. Genetics of atherosclerosis risk factors in Mexican Americans. *Nutr. Rev.* 57:S59-S65, 1999.
201. Mahaney, M.C., Blangero, J., Rainwater, D.L., Mott, G.E., Comuzzie, A.G., MacCluer, J.W., and VandeBerg, J.L. Pleiotropy and genotype by diet interaction in a baboon model for atherosclerosis: a multivariate quantitative genetic analysis of HDL subfractions in two dietary environments. *Arterioscler. Thromb. Vasc. Biol.* 19:1134-1141, 1999.
202. Rainwater, D.L., Almasy, L., Blangero, J., Cole, S.A., VandeBerg, J.L., MacCluer, J.W., and Hixson, J.E. A genome search identifies major quantitative trait loci on human chromosomes 3 and 4 that influence cholesterol concentrations in small LDL particles. *Arterioscler. Thromb. Vasc. Biol.* 19:777-783, 1999.
203. Rainwater, D.L., Kammerer, C.M., and VandeBerg, J.L. Evidence that multiple genes influence baseline concentrations and diet response of Lp(a) in baboons. *Arterioscler. Thromb. Vasc. Biol.* 19:2696-2700, 1999.
204. VandeBerg, J.L. The laboratory opossum, *Monodelphis domestica*. In: UFAW Handbook on the Care and Management of Laboratory Animals. 7th edition, volume 1: Terrestrial Vertebrates. T. Poole and P. English (eds.). Oxford, U.K., Blackwell Science Ltd., 1999. pp. 193-209.
205. VandeBerg, J.L., Williams-Blangero, S., and Wolfle, T.L. U.S. laws and norms related to laboratory animals. *ILAR J.* 40:34-37, 1999.
206. Williams-Blangero, S., VandeBerg, J.L., and Teixeira, A.R.L. Attitudes towards Chagas' disease in an endemic Brazilian community. *Cad. Saúde Pública (Reports in Public Health)* 15:7-13, 1999.

207. Adkins, R.M., VandeBerg, J.L., and Li, W.-H. Molecular evolution of growth hormone and receptor in the guinea pig, a mammal unresponsive to growth hormone. *Gene* 246:357-363, 2000.
208. Rainwater, D.L., Kammerer, C.M., Singh, A.T.K., Moore, P.H., Jr., Poushesh, M., Shelledy, W.R., VandeBerg, J.F., Robinson, E.S., and VandeBerg, J.L. Genetic control of lipoprotein phenotypes in the laboratory opossum, *Monodelphis domestica*. *GeneScreen* 1:117-124, 2000.
209. Rainwater, D.L., Mitchell, B.D., Comuzzie, A.G., VandeBerg, J.L., Stern, M.P., and MacCluer, J.W. Associations among 5-year changes in weight, physical activity, and cardiovascular disease in Mexican Americans. *Am. J. Epidemiol.* 152:974-982, 2000.
210. VandeBerg, J.L. The future of animal research. *ILAR J.* 41:44-45, 2000.
211. VandeBerg, J.L., Willaims-Blangero, S., Dyke, B., and Rogers, J. Examining priorities for a primate genome project. *Science* 290:1504-1505 (Letters), 2000.
212. Argañaraz, E., Hubbard, G., Ramos, L., Ford, A., Leland, M., Nitz, N., VandeBerg, J.L., and Teixeira, A. Blood sucking lice may disseminate *Trypanosoma cruzi* infection in baboons. *Rev. Inst. Med. Trop. S. Paulo* 43:271-276, 2001.
213. Goldberg, E., VandeBerg, J.L., Mahony, M., and Doncel, G.F. Immune response of male baboons to testis-specific LDH-C₄. *Contraception* 64:93-98, 2001.
214. Hall, A.J., Masel, A., Bell, K., Halliday, J.A., Shaw, D.C., and VandeBerg, J.L. Characterization of baboon (*Papio hamadryas*) milk proteins. *Biochem. Genet.* 39:59-71, 2001.
215. Kushwaha, R.S., VandeBerg, J.F., Jackson, E.M., and VandeBerg, J.L. High and low responding strains of laboratory opossums differ in sterol 27-hydroxylase and acyl-coenzyme A:cholesterol-acyltransferase activities on a high cholesterol diet. *J. Nutr. Biochem.* 12:664-673, 2001.
216. Williams-Blangero, S., and VandeBerg, J.L. Laws, policies, and guidelines on the care and use of captive chimpanzees in the United States. In: *Care and Management of Chimpanzees*. L. Brent (ed.), pp. 277-288. American Society of Primatologists, San Antonio, TX, 2001.
217. Cox, L.A., Birnbaum, S., and VandeBerg, J.L. Identification of candidate genes regulating HDL cholesterol using a chromosomal region expression array. *Genome Res.* 12:1693-1702, 2002.
218. Kammerer, C.M., Rainwater, D.L., Cox, L.A., Schneider, J.L., Mahaney, M.C., Rogers, J., and VandeBerg, J.L. Locus controlling LDL cholesterol response to dietary cholesterol is on baboon homologue of human chromosome 6. *Arterosc. Thromb. Vasc. Biol.* 22:1720-1725, 2002.
219. Rainwater, D.L., Kammerer, C.M., Carey, K.D., Dyke, B., VandeBerg, J.F., Shelledy, W.R., Moore, Jr., P.H., Mahaney, M.C., McGill, Jr., H.C., and VandeBerg, J.L. Genetic

- determination of HDL variation and response to diet in baboons. *Atherosclerosis* 161:335-343, 2002.
220. Rainwater, D.L., Kammerer, C.M., Cox, L.A., Rogers, J., Carey, K.D., Dyke, B., Mahaney, M.C., McGill, Jr., H.C., and VandeBerg, J.L. A major gene influences variation in large HDL particles and their response to diet in baboons. *Atherosclerosis* 163:241-248, 2002.
221. VandeBerg, J.L., and Stone, W.H. The future of animal research. *ILAR J.* 43:110-113, 2002.
222. Williams-Blangero, S., VandeBerg, J.L., and Dyke, B. Genetic management of nonhuman primates. *J. Med. Primatol.*, 31:1-7, 2002.
223. Williams-Blangero, S., VandeBerg, J.L., Subedi, J., Aivaliotis, M.J., Rai, D.R., Upadhayay, R.P., Jha, B., and Blangero, J. Genes on chromosomes 1 and 13 have significant effects on *Ascaris* infection. *Proc. Natl. Acad. Sci. U.S.A.* 99:5533-5538, 2002.
224. Cole, S.A., Martin, L.J., Peebles, K.W., Leland, M.M., Rice, K., VandeBerg, J.L., Blangero, J., and Comuzzie, A.G. Genetics of leptin expression in baboons. *Int. J. Obes. Relat. Metabl. Disord.* 27:778-783, 2003.
225. Comuzzie, A.G., Cole, S.A., Martin, L.J., Carey, K.D., Mahaney, M.C., Blangero, J., and VandeBerg, J.L. The baboon as a non-human primate model for the study of the genetics of obesity. *Obes. Res.* 11:75-80, 2003.
226. Cox, L.A., and VandeBerg, J.L. Quantitative trait loci risk factors of cardiovascular disease. In: *XIth International Congress on Genes, Gene Families, Isozymes.* C. Schnarrenberger and B. Wittmann-Ziebold (eds.). Proceedings of the meeting held July 19-24, 2003, Berling, Germany. Bologna, Italy: Medimond S.r.l., 27-33, 2003.
227. Mahaney, M.C., Almasy, L., Rainwater, D.L., VandeBerg, J.L., Cole, S.A., Hixson, J.E., Blangero, J., and MacCluer, J.W. A quantitative trait locus on chromosome 16q influences variation in plasma HDL-C levels in Mexican Americans. *Arterioscler. Thromb. Vasc. Biol.* 23:339-345, 2003.
228. Rainwater, D.L., Kammerer, C.M., Mahaney, M.C., Rogers, J., Cox, L.A., Schneider, J.L., and VandeBerg, J.L. Localization of genes that control LDL size fractions in baboons. *Atherosclerosis* 168:15-22, 2003.
229. VandeBerg, J.L. and Williams-Blangero, S. Nonhuman primates in genetic research on common diseases. In: *International Perspectives. The Future of Nonhuman Primate Resources.* Proceedings of the Workshop held April 17-19, 2002, Washington, D.C.: Nat. Acad. Press, 107-113, 2003.
230. Wang, Z., Hubbard, G.B., Pathak, S., and VandeBerg, J.L. *In vivo* opossum xenograft model for cancer research. *Cancer Res.* 63:6121-6124, 2003.

231. Wang, Z., and VandeBerg, J.L. Loss of melanogenic response to DNA damage correlates with the metastatic phenotype of a melanoma cell line from *Monodelphis domestica*. *Melanoma Res.* 13:111-112, 2003.
232. Wang, Z., and VandeBerg, J.L. Survival anesthetic and injection procedures for neonatal opossums. *Contemp. Top. Lab. An. Sci.* 42:41-43, 2003.
233. Wang, Z., Dooley, T.P., Curto, E.V., Davis, R.L., and VandeBerg, J.L. Cross-species application of cDNA microarrays to profile gene expression using UV-induced melanoma in *Monodelphis domestica* as the model system. *Genomics* 83:588-599, 2003.
234. Williams-Blangero, S., and VandeBerg, J.L. Genetic considerations in the management of captive nonhuman primates. In: *International Perspectives. The Future of Nonhuman Primate Resources. Proceedings of the Workshop held April 17-19, 2002, Washington, D.C.: Nat. Acad. Press, 114-121, 2003.*
235. Williams-Blangero, S., VandeBerg, J.L., and Blangero, J. Genetic epidemiology of parasitic diseases. In: *The Changing Face of Disease: Implications for Society.* J. Mascie-Taylor, J. Peters, and S. McGarvey (eds.). Cambridge, UK: Cambridge University, 67-84, 2003.
236. Williams-Blangero, S., VandeBerg, J.L., Blangero, J., and Correa-Oliveira, R. Genetic epidemiology of *Trypanosoma cruzi* infection and Chagas' disease. *Front. Biosci.* 8:E337-345, 2003.
237. Zabalgoitia, M., Ventura, J., Anderson, L., Carey, K.D., Williams, J.T., and VandeBerg, J.L. Morphologic and functional characterization of Chagasic heart disease in non-human primates. *Am. J. Trop. Med. Hyg.* 68:248-252, 2003.
238. Zabalgoitia, M., Ventura, J., Anderson, L., Williams, J.T., Carey, K.D., and VandeBerg, J.L. Electrocardiographic findings in naturally acquired Chagasic heart disease in nonhuman primates. *J. Electrocardiol.* 36:155-160, 2003.
239. Aida, K., Shi, Q., Wang, J., VandeBerg, J.L., McDonald, T., Nathanielsz, P., and Wang, X.L. The effects of betamethasone (BM) on endothelial nitric oxide synthase (eNOS) expression in adult baboon femoral arterial endothelial cells. *J. Steroid Biochem. Mol. Biol.* 91:219-224, 2004.
240. Czerwinski, S.A., Mahaney, M.C., Rainwater, D.L., VandeBerg, J.L., Stern, M.P., MacCluer, J.W., and Blangero, J. Genotype by smoking interactions: evidence for effects on lipids and lipoproteins in Mexican Americans. *Hum. Biol.* 76:863-876, 2004.
241. Kent, J.W., Jr., Comuzzie, A.G., Mahaney, M.C., Almasy, L., Rainwater, D.L., VandeBerg, J.L., MacCluer, J.W., and Blangero, J. Intercellular adhesion molecule-1 concentration is genetically correlated with insulin resistance, obesity, and high-density lipoprotein concentration in Mexican Americans. *Diabetes* 53:2691-2695, 2004.
242. Kushwaha, R.S., VandeBerg, J.F., Rodriguez, R., and VandeBerg, J.L. Cholesterol absorption and hepatic ACAT activity play a major role in lipemic response to dietary cholesterol and fat in laboratory opossums. *Metabolism* 53:817-822, 2004.

243. Kushwaha, R.S., VandeBerg, J.F., and VandeBerg, J.L. Effect of dietary cholesterol with or without saturated fat on plasma lipoprotein cholesterol levels in the laboratory opossum (*Monodelphis domestica*) model for diet-induced hyperlipidemia. *Br. J. Nutr.* 92:63-70, 2004.
244. Rainwater, D.L., Mahaney, M.C., VandeBerg, J.L., Brush, G., Almasy, L., Blangero, J., Hixson, J.E., Cole, S.A., and MacCluer, J.W. A quantitative trait locus influences coordinated variation in measures of apoB-containing lipoproteins. *Atherosclerosis* 176:379-386, 2004.
245. Samollow, P.B., Kammerer, C.M., Mahaney, S.M., Schneider, J.L., Westernberger, S.J., VandeBerg, J.L., and Robinson, E.S. First generation linkage map of the gray, short-tailed opossum, *Monodelphis domestica*, reveals genome-wide reduction in female recombination rates. *Genetics* 166:307-329, 2004.
246. Shi, Q., Aida, K., VandeBerg, J.L., and Wang, X.L. Passage dependent changes in baboon microvascular endothelial cells - relevance to in vitro aging. *DNA Cell Biol.* 23:502-509, 2004.
247. Shi, Q., Wang, J., Wang, X.L., and VandeBerg, J.L. Comparative analysis of vascular endothelial cell activation by TNF- α and LPS in humans and baboons. *Cell Biochem. Biophys.* 40:289-303, 2004.
248. Tejero, E.M., Proffitt, J.M., Cole, S.A., Freeland-Graves, J.H., Cai, G., Peebles, K.W., Cox, L., Mahaney, M.C., Rogers, J., VandeBerg, J.L., Blangero, J., and Comuzzie, A.G. Quantitative genetic analysis of glucose transporter 4 mRNA levels in baboon adipose. *Obes. Res.* 12:1652-1657, 2004.
249. VandeBerg, J.L. Need for primate models in biomedical research. *Gynecol. Obstet. Invest.* 57:6-8, 2004.
250. Wang, Q.-F., Liu, X., O'Connell, J., Peng, Z., Krauss, R.M., Rainwater, D.L., VandeBerg, J.L., Rubin, E.M., Cheng, J.F., and Pennacchio, L.A. Haplotypes in the *APOA1-C3-A4-A5* gene cluster affect plasma lipids in both humans and baboons. *Hum. Molec. Genet.* 13:1049-1056, 2004.
251. Wang, X.L., Wang, J., Shi, Q., Carey, K.D., and VandeBerg, J.L. Arterial wall determined risk factors to vascular diseases - a nonhuman primate model. *Cell Biochem. Biophys.* 40:371-388, 2004.
252. Wang, Z., and VandeBerg, J.L. Cloning and molecular characterization of a human ortholog of *Monodelphis TRAPD* in UVB-induced melanoma. *Melanoma Res.* 14:107-114, 2004.
253. Williams-Blangero, S., Corrêa-Oliveira, R., VandeBerg, J.L., Subedi, J., Upadhyay, R.P., Rai, D.R., Jha, B., and Blangero, J. Genetic influences on plasma cytokine variation in a parasitized population. *Hum. Biol.* 76:515-525, 2004.
254. Zabalgoitia, M., Ventura, J., Anderson, L., Carey, K.D., Hubbard, G.B., Williams, J.T., and VandeBerg, J.L. Myocardial contrast echocardiography in assessing

- microcirculation in nonhuman primates with Chagas' disease. *Microcirculation* 11:271-278, 2004.
255. Almasy, L., Rainwater, D.L., Cole, S., Mahaney, M.C., VandeBerg, J.L., Hixson, J.E., Stern, M.P., MacCluer, J.W., and Blangero, J. Joint linkage and association analysis of the hepatic lipase promotor polymorphism and lipoprotein size phenotypes. *Hum. Biol.* 77:17-25, 2005.
 256. Cox, L.A., Birnbaum, S., Mahaney, M.C., and VandeBerg, J.L. Characterization of candidate genes regulating HDL-C using expression profiling. In: XIII International Congress on Genes, Gene Families, and Isozymes. X.G. Xiong, Z.Z. Yan, W.Y. Liang (eds.). Proceedings of the meeting held September 17-21, 2005, Shanghai, China. Bologna, Italy: Medimond S.r.l., 177-180, 2005.
 257. Gouin, N., Westenberger, S.J., Mahaney, S., Lindley, P., VandeBerg, J.L., and Samollow, P.B. Development, inheritance, and linkage group assignment of 60 novel microsatellite markers for the gray, short-tailed opossum, *Monodelphis domestica*. *Genome* 48:1019-1027, 2005.
 258. Kushwaha, R.S., VandeBerg, J.F., Rodriguez, R., Chan, J., and VandeBerg, J.L. Low-density lipoprotein apolipoprotein B production differs between laboratory opossums exhibiting high and low lipemic responses to dietary cholesterol and fat. *Metabol. Clin. Exp.* 54:1075-1085, 2005.
 259. Rainwater, D.L., Mahaney, M.C., Wang, X.L., Rogers, J., Cox, L.A., and VandeBerg, J.L. Determinants of variation in serum paraoxonase enzyme activity in baboons. *J. Lipid Res.* 46:1450-1456, 2005.
 260. Shi, Q., VandeBerg, J.F., Jett, C., Rice, K., Leland, M.M., Talley, L., Kushwaha, R.S., VandeBerg, J.L., and Wang, X.L. Arterial endothelial dysfunction in baboons fed a high-cholesterol, high-fat diet. *Amer. J. Clin. Nutr.* 82:751-759, 2005.
 261. Tejero, M.D. Cole, S.A., Cai, G., Peebles, K.W., Freeland-Graves, J.H., Cox, L.A., Mahaney, M.C., Rogers, J., VandeBerg, J.L., Blangero, J., and Comuzzie, A.G. Genome-wide scan of resistin mRNA expression in omental adipose tissue of baboons. *Int. J. Obes.* 29:406-412, 2005.
 262. VandeBerg, J.L. and Zola, S.M. A unique biomedical resource at risk. *Nature* 437:30-32, 2005.
 263. VandeBerg, J.L., Chan, J., VandeBerg, J.F., McGill Jr., H.C., and Kushwaha, R.S. Genetic control of lipemic response to dietary cholesterol in laboratory opossums. Proceedings of the 13th International Congress on Genes, Gene Families, and Isozymes. Bologna, Italy: Monduzzi Editore Int. Proc. Div., 45-56, 2005.
 264. Wang, Z. and VandeBerg, J.L. Immunotolerance in the laboratory opossum (*Monodelphis domestica*) to xenografted mouse melanoma. *Contemp. Top. Lab. Anim. Sci.* 44:39-42, 2005.
 265. Bozaoglu, K., Curran, J.E., Elliott, K.S., Walder, K.R., Dyer, T.D., Rainwater, D.L., VandeBerg, J.L., Comuzzie, A.G., Collier, G.R., Zimmet, P., MacCluer, J.W., Jowett, J.B.,

- and Blangero, J. Association of genetic variation within UBL5 with phenotypes of metabolic syndrome. *Hum. Biol.* 78:147-159, 2006.
266. Cardoso, G.M., Morato, M.J.F., Gomes, J.A.S., Rocha, M.O.C., Bonfim, I.P., Williams-Blangero, S., VandeBerg, J.L. Reis, M.R., Magalhães, E.F.L., and Correa-Oliveira, R. Comparative analysis of a cell phenotypes in different severe clinical forms of Chagas' disease. *Front. Biosci.* 11:1158-1163, 2006.
 267. Cox, L.A., Mahaney, M.C., VandeBerg, J.L., and Rogers, J. A second-generation linkage map of the baboon (*Papio hamadryas*) genome. *Genomics* 88:274-281, 2006.
 268. Gouin, N., Deaken, J.E., Miska, K.B., Miller, R.D., Kammerer, C.M., Graves, J.A.M., VandeBerg, J.L., and Samollow, P.B. Linkage mapping and physical localization of the major histocompatibility complex region of the marsupial *Monodelphis domestica*. *Cytogenet. Genome Res.* 112:277-285, 2006.
 269. VandeBerg, J.L., Zola, S.M., Ely, J.J., Kennedy R.C. Monoclonal antibody testing. *J. Med. Primatol.* 35:405-406, 2006 (letter to the editor).
 270. Bertin, A., Mahaney, M.C., Cox, L.A., Rogers, J., VandeBerg, J.L., Brugnara, C., Platt, O.S. Quantitative trait loci for peripheral blood cell counts: a study in baboons. *Mamm. Genome* 18:361-372, 2007.
 271. Cox, L.A., Birnbaum, S., Mahaney, M.C., Rainwater, D.L., Williams, J.T., and VandeBerg, J.L. Identification of promoter variants in baboon endothelial lipase that regulate HDL-cholesterol levels. *Circulation* 116:1185-1195, 2007.
 272. Hornecker, J.L., Samollow, P.B., Robinson, E.S., VandeBerg, J.L., and McCarrey, J.R. Meiotic sex chromosome inactivation in the marsupial *Monodelphis domestica*. *Genesis* 45:696-708, 2007.
 273. Lane, M.A., Truettner, J.S., Brunschwig, J.P., Gomez, A., Bunge, M. B., Dietrich, W. D., Dziegielewska, K.M., Ek, C.J., VandeBerg, J.L., Saunders, N. R. Age-related differences in the local cellular and molecular response to injury in developing spinal cord of the opossum, *Monodelphis domestica*. *Eur. J. Neurosci.* 25:1725-1742, 2007.
 274. Macrini, T.E., Rowe, T., VandeBerg, J.L. Cranial endocasts from a growth series of *Monodelphis domestica* (Didelphidae, Marsupialia): A study of individual and ontogenetic variation. *J. Morphol.* 268:844-865, 2007.
 275. Mikkelsen, T.S., Wakefield, M.J., Aken, B., Amemiya, C.T., Chang, J.L., Duke, S., Garber, M., Gentles, A.J., Doogstadt, L., Heger, A., Jurka, J., Kamal, M., Mauceli, E., et al. Genome of the marsupial *Monodelphis domestica* reveals innovation in non-coding sequences. *Nature* 44:167-177, 2007.
 276. Namekawa, S.H., VandeBerg, J.L., McCarrey, J.R., Lee, J.T. Sex chromosome silencing in the marsupial male germ line. *Proc. Natl. Acad. Sci. USA* 104:9730-9735, 2007.

277. Rainwater, D.L., Mahaney, M.C., VandeBerg, J.L., and Wang, X.L. Vitamin E dietary supplementation significantly affects multiple risk factors for cardiovascular disease in baboons. *Am. J. Clin. Nutr.* 36:597-603, 2007.
278. Samollow, P.B., Gouin, N., Miethke, P., Mahaney, S.M., Kenney, M., VandeBerg, J.L., Graves, J.A., Kammerer, C.M. A microsatellite-based, physically anchored linkage map for the gray, short-tailed opossum (*Monodelphis domestica*). *Chromosome Res.* 15:269-281, 2007.
279. Shevchenko, A. I., Zakharova, I.S., Elisaphenko, E.A., Kolesnikov, N.N., Whitehead, S., Bird, C., Ross, M., Weidman, J.R., Jirtle, R.L., Karamysheva, T.V., Rubtsov, N.B., VandeBerg, J.L., Mazurok, N.A., Nesterova, T.B., Brockdorff, N., Zakian, S.M. Genes flanking Xist in a mouse and human are separated on the X-chromosome in American marsupials. *Chromosome Res.* 5:127-136, 2007.
280. Shi, Q., Hubbard, G.B., Kushwaha, R.S., Rainwater, D., Thomas, C.A. 3rd, Leland, M.M., VandeBerg, J.L., and Wang, X.L. Endothelial senescence after high-cholesterol, high-fat diet challenge in baboons. *Am. J. Physiol. Heart Circ. Physiol.* 292:2913-2920, 2007.
281. Williams-Blangero, S., Magalhaes, T., Rainwater, E., Blangero, J., Correa-Oliveira, R., and VandeBerg, J.L. Electrocardiographic characteristics in a population with high rates of seropositivity for *Trypanosoma cruzi* infection. *Amer. J. Trop. Med. Hyg.* 77:495-499, 2007.
282. Chan, J., Donalson, L.M., Kushwaha, R.S., Ferdinandusse, S., VandeBerg, J.F., and VandeBerg, J.L. Differential expression of hepatic genes involved in cholesterol homeostasis in high and low responding strains of laboratory opossums. *Metabolism* 57:718-724, 2008.
283. Chan, J., Kushwaha, R.S., VandeBerg, J.F., and VandeBerg, J.L. Effect of ezetimibe on plasma cholesterol levels, cholesterol absorption and secretion of biliary cholesterol in laboratory opossums with high and low responses to dietary cholesterol. *Metabolism* 57:1645-1654, 2008.
284. Eckhart, L., Ballaun, C., Hermann, M., VandeBerg, J.L., Sipos, W., Uthman, A., Fischer, H., and Tschachler, E. Identification of novel mammalian caspases reveals an important role of gene loss in shaping the human caspase repertoire. *Mol. Biol. Evol.* 25:831-841, 2008.
285. Grieves, J.L., Hubbard, G.B., Williams, J.T., VandeBerg, J.L., Dick Jr., E.J., Lopez-Alvarenga, J.C., and Schlabritz-Loutsevich, N.E. *Trypanosoma cruzi* in non-human primates with a history of stillbirths: a retrospective study (*Papio hamadryas spp.*) and case report (*Macaca fascicularis*). *J. Med. Primatol* 37:318-328, 2008.
286. Holmes, R.S., Chan, J., Cox, L.A., Murphy, W.J., and VandeBerg, J.L. Opossum carboxylesterases: sequences, phylogeny and evidence for CES gene duplication events predating the marsupial-eutherian common ancestor. *BMC Evol. Biol.* 8:54-67, 2008.

287. Holmes, R.S., Cox, L.A., and VandeBerg, J.L. Mammalian carboxylesterase 5: comparative biochemistry and genomics. *Comp. Biochem. Physiol. Part D Genomics Proteomics* 3:195-204, 2008.
288. Lawton, B.R., Carone, B.R., Obergefell, C.J., Ferreri, G.C., Condolfi, C.M., VandeBerg, J.L., Imumorin, I., O'Neill, R.J., and O'Neill, M.J. Genomic imprinting of IGF2 in marsupials is methylation dependent. *BMC Genomics* 9:205-216, 2008.
289. Smits, G., Mungall, A.J., Griffiths-Jones, S., Smith, P., Beury, D., Matthews, L., Rogers, J., Pask, A.J., Shaw, G., VandeBerg, J.L., McCarrey, J.R., Savoir Consortium, Renfree, M., Reik, W., and Dunham, I. Conservation of the H19 non-coding RNA and H19-IGF2 imprinting mechanism in therians. *Nat. Gen.* 40:971-976, 2008.
290. Tejero, M.E., Voruganti, V.S., Rodriguez-Sanchez, I.P., Proffitt, J.M., Blangero, J., Cox, L.A., Mahaney, M.C., Rogers, J., VandeBerg, J.L., Cole, S.A., and Comuzzie, A.G. Genetics of variation in adiponectin in pedigreed baboons: evidence for pleiotropic effects on adipocyte volume and serum adiponectin. *Heredity* 100:382-389, 2008.
291. Vasquez, S.X., Hansen, M.S., Bahadur, A.N., Hockin, M.F., Kindlmann, G.I., Nevell, L., Wu, I.Q., Grunwald, D.J., Weinstein, D.M., Jones, G.M., Johnson, C.R., VandeBerg, J.L., Capecchi, M.R., and Keller, C. Optimization of volumetric computed tomography for skeletal analysis of model genetic organisms. *Anat. Rec.* 291:475-487, 2008.
292. Vinson, A., Mahaney, M.C., Diego, V.P., Cox, L.A., Rogers, J., VandeBerg, J.L., and Rainwater, D.L. Genotype-by-diet effects on co-variation in Lp-PLA2 activity and LDL cholesterol concentration in baboons fed an atherogenic diet. *J. Lipid. Res.* 49:1295-1302, 2008.
293. Vinson, A., Mahaney, M.C., Cox, L.A., Rogers, J., VandeBerg, J.L., and Rainwater, D.L. A pleiotropic QTL on 2p influences serum Lp-PLA(2) activity and LDL cholesterol concentration in a baboon model for the genetic of atherosclerosis risk factors. *Atherosclerosis* 196:667-673, 2008.
294. Williams-Blangero, S., VandeBerg, J.L., Subedi, J., Jha, B., Correa-Oliveira, R., Blangero, J. Localization of multiple quantitative trait loci influencing susceptibility to infection with *Ascaris lubricoides*. *J. Infect. Dis.* 197:66-71, 2008.
295. Williams-Blangero, S., VandeBerg, J.L., Subedi, J., Jha, B., Dyer, T.D., and Blangero, J. Two quantitative trait loci influence whipworm (*Trichuris trichiura*) infection in a Nepalese population. *J. Infect. Dis.* 197:1198-1203, 2008.
296. Andrade, M., Dick, E., Guardado-Mendoza, R., Hohmann, M., Mejido, D., VandeBerg, J.L., DiCarlo, C., and Hubbard, G. Nonspecific lymphocytic myocarditis in baboons is associated with *Trypanosoma cruzi* infection. *Amer. J. Trop. Med. Hyg.* 81:235-239, 2009.
297. Bommineni, Y.R., Dick Jr., E.J., Estep, J.S., VandeBerg, J.L., and Hubbard, G.B. Fatal acute Chagas disease in a chimpanzee. *J. Med. Primatol.* 38:247-251, 2009.
298. Bose, T., Voruganti, V.S., Tejero, M.E., Proffitt, J.M., Cox, L.A., VandeBerg, J.L., Freeland-Graves, J.H., Cole, S.A., and Comuzzie, A.G. Quantitative loci regulating

plasma levels of gamma glutamyl transferase and albumin and their genetic correlations with cardiovascular risk factors. *Exp. Biol. Med.* 12:1519-1524, 2009.

299. Bozaoglu, K., Segal, D., Shields, K.A., Cummings, N., Curran, J.E., Comuzzie, A.G., Mahaney, M.C., Rainwater, D.L., VandeBerg, J.L., MacCluer, J.W., Collier, G., Blangero, J., Walder, K., and Jowett, J. Chemerin is associated with metabolic syndrome phenotypes in a Mexican American Population. *J. Clin. Endocrinol. Metab.* 94:3085-3088, 2009.
300. Cox, L.A., Glenn, J., Ascher, S., Birnbaum, S., and VandeBerg, J.L. Integration of genetic and genomic methods for identification of genes and gene variants encoding QTLs in the nonhuman primate. *Methods* 49:63-69, 2009.
301. Holmes, R.S., Glenn, J., VandeBerg, J.L., and Cox, L.A. Baboon carboxylesterases 1 and 2: Sequences, structures and phylogenetic relationships with human and other primate carboxylesterases. *J. Med. Primatol.* 38:27-38, 2009.
302. Holmes, R.S., Cox, L.A., and VandeBerg, J.L. Bovine carboxylesterases: Evidence for two CES1 and five families of CES genes on chromosome 18. *Comp. Biochem. Physiol.* 4:11-20, 2009.
303. Holmes, R.S., Cox, L.A., and VandeBerg, J.L. Horse carboxylesterases: Evidence for six CES1 and four families of CES genes on chromosome 3. *Comp. Biochem. Physiol.* 4:54-65, 2009.
304. Holmes, R.S., Cox, L.A., and VandeBerg, J.L. A new class of mammalian carboxylesterase CES6. *Comp. Biochem. Physiol. Part D Genomics Proteomics* 4:209-217, 2009.
305. Mahadevaiah, S.K., Royo, H., VandeBerg, J.L., McCarrey, J.R., Mackay, S., and Turner, J.M.A. Key features of the X inactivation process are conserved between marsupials and eutherians. *Curr. Biol.* 19:1478-1484, 2009.
306. Rainwater, D.L., Rutherford, S., Dyer, T.D., Rainwater, E.D., Cole, S.A., VandeBerg, J.L., Almasy, L., Blangero, J., MacCluer, J.W., and Mahaney, M.C. Determinants of variation in human serum paraoxonase activity. *Heredity* 102:147-154, 2009.
307. Rainwater, D.L., Cox, L.A., Rogers, J., VandeBerg, J.L., and Mahaney, M.C. Localization of multiple pleiotropic genes for lipoprotein metabolism in baboons. *J. Lipid Res.* 50:1420-1428, 2009.
308. Rainwater, D.L., and VandeBerg, J.L. Baboon model for dyslipidemia and atherosclerosis. In: *The Baboon in Biomedical Research*. Eds. J.L. VandeBerg, S. Williams-Blangero, and S.D. Tardif; with editorial assistance from April W. Hopstetter. New York; London: Springer, 225-236, 2009.
309. Seiler, B.M., Dick Jr., E.J., Guardado-Mendoza, R., VandeBerg, J.L., Williams, J.T., Mubiru, J.N., and Hubbard, G.B. Spontaneous heart disease in the adult chimpanzee (*Pan troglodytes*). *J. Med. Primatol.* 38:51-58, 2009.

310. Shi, Q., Hodara, V., Butler, S.D., Thomas, III, C.A., Hubbard, G.B., VandeBerg, J.L., and Wang, X.L. Differential bone marrow stem cell mobilization by G-CSF injection or arterial ligation in baboons. *J. Cell. Mol. Med.* 13:1896-1906, 2009.
311. VandeBerg, J.L. Preface. In: *The Baboon in Biomedical Research*. Eds. J.L. VandeBerg, S. Williams-Blangero, and S.D. Tardif; (eds). New York: Springer, vii-viii, 2009.
312. VandeBerg, J.L., Williams-Blangero, S., and Tardif, S. Introduction. In: *The Baboon in Biomedical Research*. J.L. VandeBerg, S. Williams-Blangero, and S.D. Tardif (eds). New York: Springer, xvii-xxiii, 2009.
313. Wang, Z., Hubbard, G.B., Clubb, F.J., and VandeBerg, J.L. The laboratory opossum (*Monodelphis domestica*) as a natural mammalian model for human cancer research. *Int. J. Clin. Exp. Pathol.* 2:286-299, 2009.
314. Williams, J.T., Dick Jr., E.J., VandeBerg, J.L., and Hubbard, G.B. Natural Chagas disease in four baboons. *J. Med. Primatol* 38:107-113, 2009.
315. Williams, J.T., Mubiru, J.N., Schlabritz-Loutsevich, N.E., Rubicz, R.C., VandeBerg, J.L., Dick, E.J., and Hubbard, G.B. Polymerase chain reaction detection of *Trypanosoma cruzi* in *Macaca fascicularis* using archived tissues. *Amer. J. Trop. Med. Hyg.* 81:228-234, 2009.
316. Bose, T., Voruganti, S., Tejero, M.E., Proffit, J.M., Cox, L.A., VandeBerg, J.L., Mahaney, M.C., Rogers, J., Freeland-Graves, J.H., Cole, S.A., and Comuzzie, A.G. Identification of a QTL for adipocyte volume and of shared genetic effects with aspartate aminotransferase. *Biochem. Genet.* 48:538-547, 2010.
317. Chan, J., Kushwaha, R.S., VandeBerg, J.F., Gluhak-Heinrich, J., and VandeBerg, J.L. Differential expression of intestinal genes in opossums with high and low responses to dietary cholesterol. *J. Nutr. Metab.* Vol. 2010 Article ID 415075, 8 pages, 2010.
318. Chan, J., Mahaney, M.C., Kushwaha, R.S., VandeBerg, J.F., and VandeBerg, J.L. ABCB4 mediates diet-induced hypercholesterolemia in laboratory opossums. *Lipid Res.* 51:2922-2928, 2010.
319. Holmes, R.S., Cox, L.A., and VandeBerg, J.L. Mammalian carboxylesterase 3: comparative genomics and proteomics. *Genetica* 138:695-708, 2010.
320. Holmes, R.S., Cox, L.A., and VandeBerg, J.L. Comparative studies of mammalian acid lipases: Evidence for a new gene family in mouse and rat (Lipo). *Comp. Biochem. Physiol. Part D Genomics Proteomics* 5:217-226, 2010.
321. Kammerer, C.M., Rainwater, D.L., Gouin, N., Jasti, M., Douglas, K.C., Dressen, A.S., Ganta, P., VandeBerg, J.L., and Samollow, P.B. Localization of genes for V+LDL plasma cholesterol levels on two diets in the opossum, *Monodelphis domestica*. *J. Lipid Res.* 51:2929-2939, 2010.
322. Karere, G.M., Glenn, J.P., VandeBerg, J.L., and Cox, L.A. Identification of baboon microRNAs expressed in liver and lymphocytes. *J. Biomed. Sci.* 17:54, 8 pages, 2010.

323. Lee, D.R., Zola, S.M., VandeBerg, J.L., Rowell, T.J., and Abee, C. Regarding Bettauer. *J Med Primatol* 39:361-362, 2010 (letter to the editor).
324. Liddelow, S.A., Dziegielewska, K.M., VandeBerg, J.L., Noor, N.M., Potter, A.M., and Saunders, N.M. Modification of protein transfer across blood/cerebrospinal fluid barrier in response to altered plasma protein composition during development. *Eur. J. Neurosci.* 391-400, 2010.
325. Liddelow, S.A., Dziegielewska, K.M., VandeBerg, J.L., and Saunders, N.R. Development of the lateral ventricular choroid plexus in a marsupial, *Monodelphis domestica*. *Cerebrospinal Fluid Res.* 7:16, 10 pages, 2010.
326. Rainwater, D.L., Shi, Q., Mahaney, M.C., Hodara, V., VandeBerg, J.L., and Wang, X.L. Genetic regulation of endothelial inflammatory responses in baboons. *Arterioscler. Thromb. Vasc. Biol.* 30:1628-1633, 2010.
327. Rainwater, D.L., VandeBerg, J.L., and Mahaney, M.C. Effects of diet on genetic regulation of lipoprotein metabolism in baboons. *Atherosclerosis* 213:499-504, 2010.
328. Rindfleisch, B.C., Brown, M.S., VandeBerg, J.L., and Munroe, S.H. Structure and expression of two nuclear receptor genes in marsupials: insights into the evolution of the antisense overlap between the α -thyroid hormone receptor and Rev-erba. *BMC Mol. Biol.* 11:97, 14 pages, 2010.
329. Roellig, D.W., McMillan, K., Ellis, A.E., VandeBerg, J.L., Champagne, D.E., and Yabsley, M.J. Experimental infection of two South American reservoirs with four distinct strains of *Trypanosoma cruzi*. *Parasitology* 137:959-966, 2010.
330. Shi, Q., Cox, L.A., Glenn, J., Tejero, M.E., Hodara, V., VandeBerg, J.L., and Wang, X.L. Molecular pathways mediating differential responses to lipopolysaccharide between human and baboon arterial endothelial cells. *Clin. Exper. Pharm. Physiol.* 37:178-184, 2010.
331. VandeBerg, J. L. and Williams-Blangero, S. (2010) The Laboratory Opossum, in *The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals*, Eighth Edition (eds R. Hubrecht and J. Kirkwood), Wiley-Blackwell, Oxford, UK. doi: 10.1002/9781444318777.ch19, 16 pages.
332. Zheng, Y., Nace, A., Chen, W., Watkins, K., Sergott, L., Homan, Y., VandeBerg, J.L., Breen, M., and Stenn, K. Mature hair follicles generated from dissociated cells: a universal mechanism of folliculoneogenesis. *Develop. Dynam.* 239:2619-2626, 2010.
333. Chan, J., and VandeBerg, J.L. ABCB4 and losing control of cholesterol excretion: indications from an animal model. *Clin. Lipidol.* 6:1-3, 2011 (editorial).
334. Holmes, R.S., VandeBerg, J.L., and Cox, L.A. Genomics and proteomics of vertebrate cholesterol ester lipase (LIPA) and cholesterol 25-hydroxylase (CH25H). *3 Biotech* 1:99-109, 2011.

335. Holmes, R.S., VandeBerg, J.L., and Cox, L.A. Comparative studies of vertebrate lipoprotein lipase: a key enzyme of very low density lipoprotein metabolism. *Comp. Biochem. Physiol. Part D Genomics Proteomics* 6:224-234, 2011.
336. Holmes, R.S., VandeBerg, J.L., and Cox, L.A. Vertebrate endothelial lipase: comparative studies of an ancient gene and protein in vertebrate evolution. *Genetica* 139:291-304, 2011.
337. Holmes, R.S., VandeBerg, J.L., and Cox, L.A. Vertebrate hepatic lipase genes and proteins: A review supported by bioinformatics studies. *Open Access Bioinformatics* 3:85-95, 2011.
338. Liddelow, S.A., Dziegielewska, K.M., Mollgard, L., Phoenix, T.N., Temple, S., VandeBerg, J.L., and, N.R. SPARC/osteonectin, an endogenous mechanism for targeting albumin to the blood-cerebrospinal fluid interface during brain development. *Eur. J. Neurosci.* 34:1062-1073, 2011.
339. Noor, N.M., Steer D.L., Wheaton, B.J., Ek, C.J., Truettner, J.S., Dietrich, W.D., Dziegielewska, K.M., Richardson, S.J., Smith, A.I., VandeBerg, J.L., Saunders, N.R. Age-dependent changes in the proteome following complete spinal cord transection in a postnatal South American opossum (*Monodelphis domestica*). *PLoS ONE* 6:e27465, 16 pages, 2011.
340. Vinson, A., Curran, J.E., Johnson, M.P., Dyer, T.D., Moses, E.K., Blangero, J., Cox, L.A., Rogers, J., Havill, L.M., VandeBerg, J.L., and Mahaney, M.C. Genetical genomics of Th1 and Th2 immune response in a baboon model of atherosclerosis risk factors. *Atherosclerosis* 27:387-394, 2011.
341. Williams-Blangero, S., VandeBerg, J.L., Blangero, J., and Correa-Oliveira, R. Genetic epidemiology of Chagas disease. *Adv. Parasitol.* 75:147-167, 2011.
342. Zakharova, I.S., Shevchenko, A.I., Shilov, A.G., VandeBerg, J.L., and Zakian, S.M. Histone H3 trimethylation at lysine 9 marks the inactive metaphase X chromosome in the marsupial *Monodelphis domestica*. *Chromosoma* 120:177-183, 2011.
343. Chan, J., Sharkey, F.E., Kushwaha, R.S., VandeBerg, J.F., and VandeBerg, J.L. Steatohepatitis in laboratory opossums exhibiting a high lipemic response to dietary cholesterol and fat. *Am. J. Physiol. Gastrointest. Liver Physiol.* 303:G12-19, 2012.
344. Chan, J., and VandeBerg, J.L. Hepatobiliary transport in health and disease. *Clin. Lipidol.* 7:189-202, 2012.
345. Grant J., Mahadevaiah, S.K., Khil, P., Sangrithi, M.N., Royo, H., Duckworth, J., McCarrey, J.R., VandeBerg, J.L., Renfree, M.B., Taylor, W., Elgar, G., Camerini-Otero, R.D., Christ, M.J., and Turner, J.M. *Rsx* is a metatherian RNA with *Xist*-like properties in X-chromosome inactivation. *Nature* 487:254-258, 2012.
346. Karere, G.M., Glenn, J.P., VandeBerg, J.L., and Cox, L.A. Differential microRNA response to a high-cholesterol, high-fat diet in livers of low and high LDL-C baboons. *BMC Genomics.* 13:320, 15 pages, 2012.

347. Nair, H.B., and VandeBerg, J.L. Laboratory opossum (*Monodelphis domestica*) model for melanoma chemoprevention. *J. Cancer Sci. Ther.* 4: xiv-xv, 2012 (editorial).
348. Sears, K.E., Patel, A., Hubler, M., Cao, X., VandeBerg, J.L., and Zhong, S. Disparate *Igf1* expression and growth in the fore- and hind limbs of a marsupial mammal (*Monodelphis domestica*). *J. Exp. Zool. B. Mol. Dev. Evol.* 318:279-293, 2012.
349. Shi, Q., Cox, L.A., Hodara, V., Wang, X.L., and VandeBerg, J.L. Repertoire of endothelial progenitor cells mobilized by femoral artery ligation – A non-human primate study. *J. Cell. Mol. Med.* 16:2060-2073, 2012.
350. VandeBerg, J.L. NIH chimps: Use existing facilities. *Nature* 491:672, 2012 (Letter).
351. Williams-Blangero, S., Criscione, C., VandeBerg, J.L., Corrêa-Oliveira, R., Williams, K.D., Subedi, J., Kent, J.W. Jr., Williams, J., and Blangero, J. Host genetics and population structure effects on parasitic disease. *Philos. T. Roy. Soc. B.* 367:887-894, 2012.
352. Xiao, J., Hodara, V., Wang, X.L., VandeBerg, J.L., and Shi, Q. Profound influence of LDL oxidative status and monocyte co-cultures on baboon endothelial activation. *Am. J. Cardiovasc. Dis.* 2:1-11, 2012.
353. Bhaskaran, S., Dileep, K.V., Deepa, S.S., Sadasivan, C., Klausner, M., Krishnegowda, N.K., Tekmal, R.R., VandeBerg, J.L., and Nair, H.B. Gossypin as a novel selective dual inhibitor of v-raf murine sarcoma viral oncogene homolog B1 and cyclin-dependent kinase 4 for melanoma. *Mol. Cancer Ther.* 12:361-372, 2013.
354. Cox, L.A., Comuzzie, A.G., Havill, L.M., Karere, G.M., Spradling, K.D., Mahaney, M.C., Nathanielsz, P.W., Nicolella, D.P., Shade, R.E., Voruganti, S., and VandeBerg, J.L. Baboons as a model to study genetics and epigenetics of human disease. *ILAR J.* 54:106-121, 2013.
355. Fowler, S.P., Puppala, S., Arya, R., Chittoor, G., Farook, V.S., Schneider, J., Resendez, R.G., Upadhyay, R.P., VandeBerg, J., Hunt, K.J., Bradshaw, B., Cersosimo, E., VandeBerg, J.L., Almasy, L., Curran, J.E., Comuzzie, A.G., Lehman, D.M., Jenkinson, C.P., Lynch, J.L., DeFronzo, R.A., Blangero, J., Hale, D.E., and Duggirala, R. Genetic epidemiology of cardiometabolic risk factors and their clustering patterns in Mexican American children and adolescents: the SAFARI Study. *Hum. Genet.* 132:1059-1071, 2013.
356. Karere, G.M., Glenn, J.P., Birnbaum, S., Rainwater, D.L., Mahaney, M.C., VandeBerg, J.L., and Cox, L.A. Identification of candidate genes encoding an LDL-C QTL in baboons. *J. Lipid Res.* 54:1776-1785, 2013.
357. Leandro, A.C., Rocha, M.A., Lamoglia-Souza, A., VandeBerg, J.L., Cavalcanti Rolla, V., and Bonecini-Almeida, M.G. No association of IFNG+874T/A SNP and NOS2A-954G/C SNP variants with nitric oxide radical serum levels or susceptibility to tuberculosis in a Brazilian population subset. *BioMed Res. Internat.*, vol. 2013, Article ID 901740, 7 pages, 2013.

358. Nair, H.B., Bhaskaram, S., Pathak, S., Ghosh, R., Betty, D., Moore, C.M., and VandeBerg, J.L. 1205Lu *Human* metastatic melanoma cells, not *human*! *J. Cancer Sci. Ther.* 5:119, 2013.
359. Shi, Q., Hodara, V., Simerly, C.R., Schatten, G.P., and VandeBerg, J.L. Ex vivo reconstitution of arterial endothelium by embryonic stem cell-derived endothelial progenitor cells in baboons. *Stem Cells Dev.* 22:631-642, 2013.
360. Shi, Q., Hornsby, P.J., Meng, Q., VandeBerg, J.F., and VandeBerg, J.L. Longitudinal analysis of short-term high-fat diet on endothelial senescence in baboons. *Am. J. Cardiovasc. Dis.* 107-119, 2013.
361. Shi, Q., Schatten, G.P., Hodara, H., Simerly, C., and VandeBerg, J.L. Endothelial reconstitution by CD34+ progenitors derived from baboon embryonic stem cells. *J. Cell. Mol. Med.* 17:242-251, 2013.
362. VandeBerg, J.L. Reclassification of captive chimpanzees as endangered would cost lives. *J. Med. Primatol.* 42:225-228, 2013.
363. Williams, K.D., Blangero J, Subedi, J., Jha, B., Dyer, T., VandeBerg, J.L., Towne, B., and Williams-Blangero, S. Nonsyndromic Brachydactyly Type D and Type E mapped to 7p15 in healthy children and adults from the Jirel ethnic group in eastern Nepal. *Am. J. Hum. Biol.* 25:743-750, 2013.
364. Xiao, J., Song, J., Hodara, V., Ford, A., Wang, X.L., Shi, Q., Chen, L., and VandeBerg, J.L. Protective effects of resveratrol on TNF- α induced endothelial cytotoxicity in baboon femoral arterial endothelial cells. *J. Diabetes Res.*, Vol. 2013 Article ID 185172, 9 pages, 2013.
365. Yang, G., Holl, T.M., Liu, Y., Li, Y., Lu, X., Nicely, N.I., Kepler, T.B., Alam, S.M., Liao, H., Cain, D.W., Spicer, L., VandeBerg, J.L., Haynes, B.F., and Kelsoe, G. Identification of autoantigens recognized by the 2F5 and 4E10 broadly neutralizing HIV-1 antibodies. *J. Exp. Med.* 2:241-256, 2013.
366. Douglas, K.C., Wang, X., Jasti, M., Wolff, A., VandeBerg, J.L., Clark, A.G., and Samollow, P.B. Genome-wide histone state profiling of fibroblasts from the opossum, *Monodelphis domestica*, identifies the first marsupial-specific imprinted gene. *BMC Genomics* 15:89 (14 pages), 2014.
367. Mubiru, J.N., Yang, A., Dick, E.J., Jr., Owston, M., Sharp, R.M., VandeBerg, J.F., Shade, R.E., and VandeBerg, J.L. Correlation between presence of *Trypanosoma cruzi* DNA in heart tissue of baboons and cynomolgus monkeys, and lymphocytic myocarditis. *Am. J. Trop. Med. Hyg.* 90:627-633, 2014.
368. Nair, H.B., Ford, A., Dick, E.J., Jr., Hill, R.H., Jr., and VandeBerg, J.L. Modeling sunscreen-mediated melanoma prevention in the laboratory opossum (*Monodelphis domestica*). *Pigment Cell Melanoma Res.* 27:843-845, 2014.
369. Rupert, J.E., Schmidt, E.C., Moreira-Soto, A., Herrera, B.R., VandeBerg, J.L., and Butcher, M.T. Myosin isoform expression in the prehensile tails of didelphid marsupials:

- Functional differences between arboreal and terrestrial opossums. *Anatom. Rec.* 297:1364-1376, 2014.
370. Shapiro, L.J., Young, J.W., and VandeBerg, J.L. Body size and the small branch niche: Using marsupial ontogeny to model primate locomotor evolution. *J. Hum. Evol.* 68:14-31, 2014.
 371. Shi, Q., Hodara, V., Meng, Q., Voruganti, V.S., Rice, K., Michalek, J.E., Comuzzie, A.G., and VandeBerg, J.L. Early endothelial damage detected by circulating particles in baboons fed a diet high in simple carbohydrates in conjunction with saturated or unsaturated fat. *Am. J. Cardivasc. Dis.* 4:123-132, 2014.
 372. Tiyasatkulkovit, W., Malaivijitnond, S., Charoenphandhu, N., Havill, L.M., Ford, A.L., and VandeBerg, J.L. *Pueraria mirifica* extract and puerarin enhance proliferation and expression of alkaline phosphatase and type I collagen in primary baboon osteoblasts. *Phytomedicine* 21:1498-1503, 2014.
 373. Vaskova, E.A., Dementyeva, E.V., Shevchenko, A.I., Pavlova, S.V., Grigor'eva, E.V., Zhelezova, A.I., VandeBerg, J.L., and Zakian, S.M. Dynamics of the two heterochromatin types during imprinted X chromosome inactivation in vole *Microtus levis*. *PLoS ONE* 9:e88256 (9 pages), 2014.
 374. Wang, X., Douglas, K.C., VandeBerg, J.L., Clark, A.G., and Samollow, P.B. Chromosome-wide profiling of X-chromosome inactivation and epigenetic states in fetal brain and placenta of the opossum, *Monodelphis domestica*. *Genome Res.* 24:70-83, 2014.
 375. Cura, C.I., Duffy, T., Lucero, R.H., Bisio, M., Peneau, J., Jiomenez-Coello, M., Calabuig, E., Gimenez, M.J., Valencia Ayala, E., Kjos, S.A., Santalla, J., Mahaney, S.M., Cayo, N.M., Nagel, C., Barcan, L., Malaga Machaca, E.S., Acosta Viana, K.Y., Brutus, L., Ocampo, S.B., Aznar, C., Cuba Cuba, C.A., Gurtler, R.E., Ramsey, J.M., Ribeiro, I., VandeBerg, J.L., Yadon, Z.E., Osuna, A., and Schijman, A.G. Multiplex real-time PCR assay using TaqMan probes for the identification of *Trypanosoma cruzi* DTUs in biological and clinical samples. *PLoS Negl. Trop. Dis.* 9:e0003765 (18 pages), 2015.
 376. Porto, A, Sebastiao, H., Pavan, S.E., VandeBerg, J.L., Marroig, G., and Cheverud, J.M. Rate of evolutionary change in cranial morphology of the marsupial genus *Monodelphis* is constrained by the availability of additive genetic variation. *J. Evol. Biol.* 28:973-985, 2015.
 377. Shi, Q., and VandeBerg, J.L. Experimental approaches to derive CD34+ progenitors from human and nonhuman primate embryonic stem cells. *Am. J. Stem Cells* 4:32-37, 2015.
 378. Dowling, A. Doroba, C., Maier, J.A., Cohen, L., VandeBerg, J., and Sears, K.E. Cellular and molecular drivers of differential organ growth: Insights from the limbs of *Monodelphis domestica*. *Dev. Genes Evol.* 226:235-243, 2016. Doi: 10.1007/s00427-016-0549-0. Epub 2016 May 18.
 379. Nair, H.B., Baker, R., Owston, M.A., Escalona, R., Dick, E.J., VandeBerg, J.L., and Nickisch, K.J. An efficient model of human endometriosis by induced unopposed

- estrogenicity in baboons. *Oncotarget*. 2016 Feb 19. Doi: 10.18632/oncotarget.7516. [Epub ahead of print].
380. Porto, A., Schmelter, R., VandeBerg, J.L., Marroig, G, and Chevrud, J.M. Evolution of the genotype-to-phenotype map and the cost of pleiotropy in mammals. *Genetics* 204:1601-1612, 2016.
 381. Sathler-Avelar, R., Vitelli-Avelar, D.M., Mattoso-Barbosa, A.M., Perdigao-de-Oliveira, M., Costa, R.P., Eloi-Santos, S.M., Gomes, M.S., Amaral, L.R., Teixeira-Carvalho, A., Martins-Filho, O.A., Dick Jr., E.J., Hubbard, G.B., VandeBerg, J.F., and VandeBerg, J.L. Phenotypic features of circulating leukocytes from non-human primates naturally infected with *Trypanosoma cruzi* resemble the major immunological findings observed in human Chagas disease. *PLoS Negl. Trop. Dis.* 10(1):e0004302. Doi: 10.1371/journal.pntd.0004302. eCollection 2016 Jan. 16 pages.
 382. Cadby, G., Melton, P.E., McCarthy, N.S., Almeida, M., Williams-Blangero, S., Curran, J.E., VandeBerg, J.L., Hui, J., Beilby, J., Musk, A.W., James, A.L., Hung, J., Blangero, J., Moses, E.K. Pleiotropy of cardiometabolic syndrome with obesity-related anthropometric traits determined using empirically derived kinships from the Busselton Health Study. *Hum. Genet.* 2018 Jan;137(1):45-53. doi: 10.1007/s00439-017-1856-x. Epub 2017 Nov 27.
 383. Cox, L.A., Olivier, M., Spradling-Reeves, K., Karere, G.M., Comuzzie, A.G., and VandeBerg, J.L. Nonhuman primates and translational research – Cardiovascular disease. *ILAR J* 2017 Aug 28 <https://doi.org/10.1093/ilar/ilx025>. pp. 1-16.
 384. Hodo, C.L., Bertolini, N.R., Bernal, J.C., VandeBerg, J.L., and Hamer, S.A. Lack of *Trypanosoma cruzi* infection in urban roof rats (*Rattus rattus*) at a Texas facility housing naturally infected nonhuman primates. *J. AALAS* 56:57-62, 2017.
 385. Ikeda, T., Shimoda, M., Ebrahimi, D., VandeBerg, J.L., Harris, R.S., Koito, A., and Maeda, K. Opossum APOBEC1 is a DNA mutator with retrovirus and retroelement restriction activity. *Science Rep.* 2017 Apr 21;7:46719. doi: 10.1038/srep46719.
 386. Thomas, D.R., Chadwell, B.A., Walker, G.R., Budde, J.E., VandeBerg, J.L., and Butcher, M.T. Ontogeny of myosin isoform expression and prehensile tail function in the tail of the gray short-tailed opossum (*Monodelphis domestica*). *J. Appl. Physiol.* 123: 513-525, 2017.
 387. Vitelli-Avelar, D.M., Sathler-Avelar, R., Mattoso-Barbosa, A.M., Gouin, N., Perdigão-de-Oliveira, M., Valério-Dos-Reis, L., Cost, R.P., Elói-Santos, S.M., Gomes, M.S., Amaral, L.R., Teixeira-Carvalho, A., Martins-Filho, O.A., Dick, E.J. Jr, Hubbard, G.B., VandeBerg, J.F., and VandeBerg, J.L. *Cynomolgus* macaques naturally infected with *Trypanosoma cruzi*-I exhibit an overall mixed pro-inflammatory/modulated cytokine signature characteristic of human Chagas disease. *PLoS Negl. Trop. Dis.* 11(2):e0005233. doi: 10.1371/journal.pntd.0005233. eCollection 2017 Feb.
 388. Warnefors, M., Mössinger, K., Halbert, J., Studer, T., VandeBerg, J.L., Lindgren, I, Fallahshahroudi, A., Jensen, P., and Kaessmann, H. Sex-biased microRNA expression in mammals and birds reveals underlying regulatory mechanisms and a role in dosage

- compensation. *Genome Res.* 2017 Dec;27(12):1961-1973. doi: 10.1101/gr.225391.117. Epub 2017 Oct 27.
389. Knowles, E.E.M., Curran, J.E., Meikle, P.J., Huynh, K., Mathias, S.R., Göring, H.H.H., VandeBerg, J.L., Mahaney, M.C., Jalbrzikowski, M., Mosior, M.K., Michael, L.F., Olvera, R.L., Duggirala, R., Almasy, L., Glahn, D.C., Blangero, J. Disentangling the genetic overlap between cholesterol and suicide risk. *Neuropsychopharmacology* 2018 Dec;43(13):2556-2563. doi: 10.1038/s41386-018-0162-1. Epub 2018 Jul 23.
 390. Mahaney, M.C., Karere, G.M., Rainwater, D.L., Voruganti, V.S., Dick, E.J. Jr., Owston, M.A., Rice, K.S., Cox, L.A., Comuzzie, A.G., VandeBerg, J.L. Diet-induced early-stage atherosclerosis in baboons: Lipoproteins, atherogenesis, and arterial compliance. *J Med Primatol.* 2018 Feb;47(1):3-17. doi: 10.1111/jmp.12283. Epub 2017 June 16.
 391. Blackburn NB, Michael LF, Meikle PJ, Peralta JM, Mosior M, McAhren S, Bui HH, Bellinger MA, Giles C, Kumar S, Leandro AC, Almeida M, Weir JM, Mahaney MC, Dyer TD, Almasy L, VandeBerg JL, Williams-Blangero S, Glahn DC, Duggirala R, Kowala M, Blangero J, Curran JE. Rare *DEGS1* variant significantly alters de novo ceramide synthesis pathway. *J Lipid Res.* 2019 Jun 21. pii: jlr.P094433. doi: 10.1194/jlr.P094433. [Epub ahead of print]
 392. Cardoso-Moreira M, Halbert J, Valloton D, Velten B, Chen C, Shao Y, Liechti A, Ascensão K, Rummel C, Ovchinnikova S, Mazin PV, Xenarios I, Harshman K, Mort M, Cooper DN, Sandi C, Soares MJ, Ferreira PG, Afonso S, Carneiro M, Turner JMA, VandeBerg JL, Fallahshahroudi A, Jensen P, Behr R, Lisgo S, Lindsay S, Khaitovich P, Huber W, Baker J, Anders S, Zhang YE, Kaessmann H. Gene expression across mammalian organ development. *Nature.* 2019 Jun 26. doi: 10.1038/s41586-019-1338-5. [Epub ahead of print]
 393. Karere GM, Glenn JP, Birnbaum S, Garcia R, VandeBerg JL, Cox LA. Identification of coordinately regulated microRNA-gene networks that differ in baboons discordant for LDL-cholesterol. *PLoS One.* 2019 Mar 15;14(3):e0213494. doi: 10.1371/journal.pone.0213494. eCollection 2019.
 394. Gil M, Torres-Reveron A, Ramirez AC, Maldonado O, VandeBerg JL, de Erausquin GA. Influence of biological sex on social behavior, individual recognition, and non-associative learning in the adult gray short-tailed opossum (*Monodelphis domestica*). *Physiol Behav.* 2019 Nov 1;211:112659. doi: 10.1016/j.physbeh.2019.112659. Epub 2019 Aug 26.
 395. Karere GM, Mahaney MC, Newman DE, Riojas AM, Christensen C, Birnbaum S, VandeBerg JL, Cox L. Diet-induced leukocyte telomere shortening in a baboon model for early stage atherosclerosis. *Sci Rep.* 2019 Dec 12;9(1):19001. doi: 10.1038/s41598-019-55348-8.
 396. Misra BB, Puppala SR, Comuzzie AG, Mahaney MC, VandeBerg JL, Olivier M, Cox LA. Analysis of serum changes in response to a high fat high cholesterol diet challenge reveals metabolic biomarkers of atherosclerosis. *PLoS One.* 2019 Apr 5;14(4):e0214487. doi: 10.1371/journal.pone.0214487. eCollection 2019.

397. Karere GM, Dick EJ Jr, Galindo S Jr, Martinez JC, Martinez JE, Owston M, VandeBerg JL, Cox LA. Histological variation of early stage atherosclerotic lesions in baboons after prolonged challenge with high-cholesterol, high-fat diet. *J Med Primatol.* 2020 Feb;49(1):3-9. doi: 10.1111/jmp.12449. Epub 2019 Nov 10.
398. Shen Z, Mannion A, Lin M, Esmail M, Bakthavatchalu V, Yang S, Ho C, Feng Y, Smith B, Elliott J, Gresham V, VandeBerg JL, Samollow PB, Fox JG. *Helicobacter monodelphidis* sp. nov. and *Helicobacter didelphidarum* sp. nov., isolated from grey short-tailed opossums (*Monodelphis domestica*) with endemic cloacal prolapses. *Int J Syst Evol Microbiol.* 2020 Dec;70(12):6032-6043. doi: 10.1099/ijsem.0.004424.
399. Martínez-Peinado N, Cortes-Serra N, Losada-Galvan I, Alonso-Vega C, Urbina JA, Rodríguez A, VandeBerg JL, Pinazo MJ, Gascon J, Alonso-Padilla J. Emerging agents for the treatment of Chagas disease: what is in the preclinical and clinical development pipeline? *Expert Opin Investig Drugs.* 2020 Sep;29(9):947-959. doi: 10.1080/13543784.2020.1793955. Epub 2020 Jul 19.
400. Blackburn NB, Meikle PJ, Peralta JM, Kumar S, Leandro AC, Bellinger MA, Giles C, Huynh K, Mahaney MC, Göring HHH, VandeBerg JL, Williams-Blangero S, Glahn DC, Duggirala R, Blangero J, Michael LF, Curran JE. Identifying the lipidomic effects of a rare loss-of-function deletion in *ANGPTL3*. *Circ Genom Precis Med.* 2021 Jun;14(3):e003232. doi: 10.1161/CIRCGEN.120.003232. Epub 2021 Apr 22.
401. Padilla AM, Yao PY, Landry TJ, Cooley GM, Mahaney SM, Ribeiro I, VandeBerg JL, Tarleton RL. High variation in immune responses and parasite phenotypes in naturally acquired *Trypanosoma cruzi* infection in a captive non-human primate breeding colony in Texas, USA. *PLoS Negl Trop Dis.* 2021 Mar 31;15(3):e0009141. doi: 10.1371/journal.pntd.0009141. eCollection 2021
402. Sathler-Avelar RS, Vitelli-Avelar DM, Mattaso-Barbosa AM, Pascoal-Xavier MA, Eloi-Santos SM, Costa Rocha IAD, Teixeira-Carvalho A, Dick EJ Jr, VandeBerg JF, VandeBerg JL*, Marins-Filho OA*. (*co-senior authors). Phenotypic and functional signatures of peripheral blood and spleen compartments of cynomolgus macaques infected with *T. cruzi*: Associations with cardiac histopathological characteristics. *Front Cell Infect Microbiol.* 2021 Jul 14;11:701930. doi: 10.3389/fcimb.2021.701930. eCollection 2021.
403. Xiong X, Samollow PB, Cao W, Metz R, Zhang C, Leandro AC, VandeBerg JL, Wang X. Genetic and genomic architecture in eight strains of the laboratory opossum *Monodelphis domestica*. *G3 (Bethesda).* 2022 Jan 4;12(1):jkab389. doi: 10.1093/g3journal/jkab389.
404. Blanton LS, Quade BR, Ramirez-Hernandez A, Mendell NL, Villasante-Tzanos A, Bouyeer DH, VandeBerg JL, Walker DH. Experimental *Rickettsia typhi* infection in *Monodelphis domestica*: Implications for opossum as an amplifying host in the suburban cycle on murine typhus. *Am J Trop Med Hyg.*, in press.
405. VandeBerg J, and Williams-Blangero S. The laboratory opossum. In: *The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals*, Ninth Edition (eds CA Richardson and HDB Golledge), Wiley-Blackwell, Oxford. In press.

