

CURRICULUM VITAE**Kevin P. Campbell, Ph.D.****Personal Data**

Place of Birth: Brooklyn, New York
 Citizenship: United States
 Marital Status: Married; Three Children

Current Position

Investigator, Howard Hughes Medical Institute
 Chair and Department Executive Officer, Department of Molecular Physiology and Biophysics
 Director, Wellstone Muscular Dystrophy Cooperative Research Center
 Roy J. Carver Biomedical Research Chair in Molecular Physiology and Biophysics
 Professor, Neurology and Internal Medicine
 University of Iowa Roy J. and Lucille A. Carver College of Medicine

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 Department: <http://www.physiology.uiowa.edu>
 HHMI: http://www.hhmi.org/research/investigators/campbell_bio.html
 Center: <http://www.medicine.uiowa.edu/mdcrc/>

Education

1979	Ph.D.	Biophysics, University of Rochester, School of Medicine & Dentistry, Rochester, New York
1976	M.S.	Biophysics, University of Rochester, School of Medicine & Dentistry, Rochester, New York
1973	B.S.	Physics, Manhattan College, Bronx, New York

Post-Graduate Education

1978-1981	Postdoctoral Fellow	Banting and Best Department of Medical Research University of Toronto Toronto, Ontario, Canada Advisor: Dr. David MacLennan
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Academic Appointments

2005-present	Director, Wellstone Muscular Dystrophy Cooperative Research Center
2005-present	Chair & Department Executive Officer, Department of Molecular Physiology and Biophysics, University of Iowa
2005-present	Professor, Department of Internal Medicine, University of Iowa
2002-2005	Interim Department Chair, Department of Physiology and Biophysics, University of Iowa
2001-present	University of Iowa Gene Therapy Center Program Member
2001-present	University of Iowa Cancer Center Program Member
1999-present	Carver Trust - Roy J. Carver Biomedical Research Chair in Physiology and Biophysics, University of Iowa
1997-present	Professor, Department of Neurology, University of Iowa
1996-present	Diabetes Endocrinology Research Center Program Member
1989-present	Investigator, Howard Hughes Medical Institute
1989-1999	University of Iowa Foundation Distinguished Professor of Physiology and Biophysics
1988-present	Professor, Department of Molecular Physiology and Biophysics, University of Iowa
1987-present	University of Iowa Medical Scientist Training Program Faculty Mentor
1985-1988	Associate Professor, Department of Physiology and Biophysics, University of Iowa
1981-1985	Assistant Professor, Department of Physiology and Biophysics, University of Iowa
1978-1981	Postdoctoral Fellow with Dr. David MacLennan, Banting and Best Department of Medical Research, University of Toronto, Toronto, Ontario, Canada
1976-1978	Teaching Assistant, Undergraduate and Graduate Biochemistry, University of Rochester
1973-1977	Graduate Fellow, Biophysics Training Grant, Department of Radiation Biology and Biophysics, University of Rochester

Honors and Awards

2010	A. Ross McIntyre Award
2009	March of Dimes Prize in Developmental Biology
2007	Presidential Lecturer, The University of Iowa
2006	American Academy of Arts and Sciences
2005	Carver College of Medicine Distinguished Mentor Award
2004	National Academy of Sciences
2004	American Academy of Microbiology
2004	American Academy of Neurology Lecturer Award
2004	Rochester Distinguished Scholar Award
2003	University of Manitoba Samuel Weiner Distinguished Visitor Award
2001	Elsevier Science Award at the World Muscle Society Meeting
2001	S. Mouchly Small, MDA Scientific Achievement Award
2001	Weil Award for Best Paper in Experimental Neuropathology
2000	G. Conte Prize 2000 for Basic Research
1999	National Academy of Medicine (formerly Institute of Medicine) of the National Academy of Sciences
1999	Carver Trust - Roy J. Carver Biomedical Research Chair in Molecular Physiology and Biophysics
1999	Fellow of the Biophysical Society
1997	Duchenne-Erb-Preis Award (German Muscular Dystrophy Association)
1996	Esther Benjamin Memorial Lecture Award
1996	Landacre Society Lecture Award
1996	American Academy of Neurology Decade of the Brain Award
1995	INSERM/Académie des Sciences Prix
1994	McGill University F.L. McNaughton Lecturer
1994	Vanderbilt University 1994 Lamson Memorial Lecturer
1994	ASBMB-AMGEN Award
1994	International Albrecht Fleckenstein Award
1993	Muscular Dystrophy Association Service Merchandise Leadership Award
1992	The Emilio Trabucchi Foundation Medal

1989	Howard Hughes Medical Institute Investigator
1989	University of Iowa Foundation Distinguished Professor of Physiology and Biophysics
1990	Regent's Award for Faculty Excellence
1984	Finalist for 1984 Louis N. Katz Research Prize for Young Investigators
1984-1989	American Heart Association Established Investigator
1978	National Science Foundation - NATO Postdoctoral Fellowship
1978-1981	Medical Research Council of Canada Postdoctoral Fellowship
1977-1978	Elon Huntington Hooker Fellowship
1974-1977	Graduate Fellowship - NIH Biophysics Training Grant
1973	Sigma Pi Sigma Bendix Award
1973	Phi Beta Kappa
1972	Sigma Xi

Professional Activities

Affiliations

American Academy of Microbiology	Biophysical Society
American Academy of Neurology	National Academy of Medicine, National Academy of Sciences
American Association for Advancement of Science	National Academy of Sciences
American Chemical Society	New York Academy of Sciences
American Society for Biology and Molecular Biology	Society for Developmental Biology
American Society of Biological Chemistry	Society For Glycobiology
American Society for Cell Biology	Society for Neuroscience
American Society for Gene Therapy	Society of General Physiologists
American Society of Human Genetics	Sigma Xi
American Society for Matrix Biology	World Muscle Society
American Society for Microbiology	
American Physiological Society	

Editorial Boards

2013-present	Journal of Neuromuscular Diseases
2012-present	Experimental Neurology
2011-present	PLoS Currents: Muscular Dystrophy
2010-present	Skeletal Muscle, Founding Co-Editor-in-Chief
2004-present	Neuromuscular Disorders
2004-2006	Molecular and Cellular Biochemistry
2003-2006	Drug Discovery Today: Therapeutic Strategies
2002-present	NeuroMolecular Medicine
2001-present	Acta Myologica
2001-2004	American Society for Biochemistry and Molecular Biology
1999-2004	Journal of Cell Biology
1996-2001	Journal of Biological Chemistry
1995-1997	Physiological Reviews
1988-1993	Cell Calcium
1988-1993	Journal of Biological Chemistry
1987-1993	Circulation Research

Reviewer (Journals)

Acta Neuropathologica
American Journal of Human Genetics
American Journal of Pathology
American Journal of Physiology
Annals of Neurology
Archives of Biochemistry and Biophysics
Biochimica et Biophysica Acta
BioMed Central
Biophysical Journal
Cardiovascular Research
Cell
Cell Metabolism
Circulation
Circulation Research
Current Biology
Development
Developmental Biology
Developmental Cell
EMBO Molecular Medicine
European Journal of Human Genetics
FASEB
FEBS
FEBS Letters
Genome Research
Glycobiology
Human Gene Therapy
Human Molecular Genetics
Journal of Biological Chemistry
Journal of Cell Biology
Journal of Cell Science
Journal of Clinical Investigation
Journal of Comparative Neurology
Journal of Molecular and Cellular Cardiology
Journal of Neurochemistry
Journal of Neuroscience
Journal of Neuropathology and Experimental Neurology
Journal of the Neurological Sciences
Journal of Physiology
Matrix Biology
Molecular and Cellular Biology
Molecular and Cellular Neuroscience
Molecular Biology of the Cell
Molecular Brain Research
Molecular Pharmaceutics
Molecular Pharmacology
Molecular Therapy
Nature
Nature Cell Biology
Nature Genetics
Nature Medicine
Nature Neuroscience
Nature Review Molecular Cell Biology
Neurobiology of Disease
Neurogenetics
Neurology
Neuromuscular Disorders
Neuron
Neuroscience
New England Journal of Medicine
PLoS Medicine
PLoS ONE
Proceedings of the National Academy of Science
Science
Science Translational Medicine
Stem Cell
Traffic
Trends in Neuroscience
Trends in Pharmacological Sciences
Virology

Reviewer (Grants)

2013-present Reviewer, HHMI Medical Fellows Program Group
2008 Inserm, Myology Lab Site Visit (Paris, France)
2005-2007 Council Member, National Arthritis and Musculoskeletal and Skin Disease Advisory Council
2003 March of Dimes Grant Reviews
2001-2005 NIH Skeletal Muscle Biology and Exercise Physiology Study Section
1999 NIH, Grant Reviews
1996-2009 Member, MDA Scientific Advisory Committee
1992 NIH, Site Visit (Indiana University)
1991-1995 NIH, Physiology Study Section
1989-1995 Member, MDA Fellowship Review Committee
1989-1992 Member, AHA's Cell Transport and Metabolism Research Study Committee
1988 NIH, Site Visit (University of Miami)
1987 NIH, Site Visit (University of Washington)

1986 NIH, NIADDK Conference Grant
 1986 Member, NSF - Presidential Young Investigator Advisory Panel
 1985-1988 Member, Research Peer Review Committee, AHA - Iowa Affiliate

National & International Committees

2013-present Member, Committee on Honors, American Physiological Society
 2011-present Vanderbilt Prize in Biomedical Science External Review Committee
 2010-present T32 External Networking Committee, The Ohio State University
 2010-present Member, Biomedical Science Advisory Board, Vanderbilt University
 2009-present Scientific Advisor, Gavriel Meir Trust
 2006-2010 Scientific Advisory Board Committee, Duke NUS-Graduate Medical School, Singapore
 2004-present Scientific Advisory Board, Cure Duchenne
 2004-2005 President, Society of General Physiologists
 2003-2006 Council Member, American Society of Matrix Biology
 2001-2004 Pharmaceutical Research, MyoContract
 2001-2003 NIH Skeletal Muscle Biology Study Section
 2001-2006 Member, Executive Board of the World Muscle Society
 1998-2004 Member, Muscular Dystrophy Association's Gene Therapy Task Force
 1997 Steering Committee for Huntington's Disease Society of America
 1993-1995 Council Member, Society of General Physiologists
 1988-1991 Officer of the Biophysical Society Council

University Committees

2011-2012 Search Committee for the Dean of the Carver College of Medicine
 2009-2011 Carver College of Medicine Research Advisory Council
 2009-2010 Internal Advisory Committee on Genetics for the Carver College of Medicine
 2008-2009 Animal Care Facilities Planning Task Force
 2007 Intercollegiate Task Force on the Organization of Research and Education in the Life Sciences
 2007-present Office of Animal Resources Advisory Committee
 2006 Distinguished Mentor Nomination Committee
 2003 Holden Comprehensive Cancer Center Space Committee
 2003-2008 Molecular Biology Executive Committee
 2003-2004 Steering Committee, Presidential Biological Scholar Program
 2003-2004 Search Committee, Department of Internal Medicine
 2002-2009 Executive Committee, Neuroscience Program
 2002-present Medical Council
 2001-2005 Curriculum Committee, Neuroscience Program
 2000-2004 College of Medicine Molecular Biology Building B Planning Committee
 2000-2002 Task Force on Animal Imaging
 1997-2006 Member, Neuromuscular Disease Conference
 1997 Medical Scientist Training Program Review Committee
 1996-2003 College of Medicine Capital Planning Liaison Committee
 1995-2005 Howard Hughes Medical Institute, College of Medicine Seminar Series
 1995-2003 College of Medicine Research Advisory Council
 1995-2000 College of Medicine Research Week Committee
 1995-2000 Hybridoma Facility Advisory Committee
 1995-1996 Search Committee, Department of Biochemistry
 1994-1999 Committee for the Initiative in the Biosciences
 1994-1995 Associate Deans' Search Committee for the College of Medicine
 1993-present Executive Committee of the Cardiovascular Center
 1993-1994 Review Committee for Vice President for Research
 1991-1994 Search Committee for the Dean of the College of Medicine

1990-1991 Microbiology Review and Search Committee
 1990 Radiation Research Laboratory Review Committee
 1989-1992 Medical Bio-Science Subcommittee of the University Radiation Protection Committee
 1988-1992 AHA Medical Student Research Fellowship Program Selection Committee
 1986-1989 College of Medicine Research Committee

Departmental Committees

1995 Co-Chairman, Physiology and Biophysics Computer Committee
 1993 Chairman, Dr. Charles Wunder Review
 1991 Physiology and Biophysics Faculty Search Committee
 1990 Chairman, Neuroscience Workshop
 1989-1990 Chairman, Physiology and Biophysics Faculty Search Committee
 1989-2002 Chairman, Physiology Workshop
 1987-2002 Departmental Executive Committee
 1986-1987 Chairman, Physiology and Biophysics Seminar Committee
 1984-1986 Physiology and Biophysics Computer Committee
 1983-1986 Chairman, Physiology and Biophysics Graduate Admissions Committee
 1982-1986 Chairman, Physiology and Biophysics Graduate Recruiting Poster Committee
 1982-1986 Physiology and Biophysics Graduate Admissions Committee
 1982-1984 Physiology and Biophysics Equipment User Committee
 1981-1983 Physiology and Biophysics Faculty Search Committee

Reviews of Academic Departments and Centers

2013 **Vanderbilt Wellstone Scientific Advisory Committee**
 Review of Vanderbilt University's Paul and Sheila Wellstone Muscular Dystrophy Center

2010-present **Vanderbilt Biomedical Science Advisory Board**
 Review of the Vanderbilt University School of Medicine

2006-2011 **Duke-NUS Graduate Medical School, Singapore Scientific Advisory Board**
 Review of the University of Duke University Graduate Medical School, Singapore

2005-2009 **Minnesota Wellstone Scientific Advisory Committee**
 Review of the University of Minnesota's Paul and Sheila Wellstone Muscular Dystrophy Center

2005 **University of Pennsylvania School of Medicine**
 Review of the University of Pennsylvania School of Medicine Department of Physiology

2004 **Duke University**
 Review of the Duke University School of Medicine Department of Cell Biology

Scientific Meeting Organization

2009-present **Organizer, Iowa Wellstone Face-to-Face Meeting, *University of Iowa Wellstone MD Center***

2008 **Organizer and Session Chair, Iowa Congenital Muscular Dystrophy Meeting, *University of Iowa Wellstone MD Center***

2007 **Organizer, Congenital Muscular Dystrophy and Dystroglycan Glycosylation Meeting, *World Muscle Society***

- 2006 **Organizer, Frontiers in Myogenesis Meeting, *Society for Muscle Biology***
- 2004 **Organizer, College of Medicine/HHMI Seminar Series**
Rosela Tupler, John Faulkner, Hannele Ruohola-Baker, Jeffrey Molkentin, James Ervasti, Gregory Cox
- 2003 **Organizer, College of Medicine/HHMI Seminar Series**
David J. Glass, Stuart Kornfeld, Ulrich Mueller, Guilio Cossu, Yukio Fukuyama, Francesco Muntoni, Peter Agre, Anton Bennett and Joshua Sanes
- 2002 **Organizer, College of Medicine/HHMI Seminar Series**
Luis Parada, Martin Chalfie, Sriram Subramaniam, Anthony Wynshaw-Boris and Yukiko Goda
- 2001 **Organizer, College of Medicine/HHMI Seminar Series**
Wolfhard Almers, Pietro DeCamilli, Brian Duling and Steven Burden
- 2000 **Organizer, College of Medicine/HHMI Seminar Series**
Morgan Sheng, Susan McConnell, Richard Scheller and Thomas Südhof
- 1999 **Organizer, College of Medicine/HHMI Symposium, *Phenotypic Analysis of Genetically Engineered Mice: Insights to Biology and Human Disease***
Sally Camper, Mario Capecchi, William Dove, Reinhard Fassler and Joseph Takahasi
- 1998 **Organizer, Carver Symposium, *The Molecular Basis of Neurogenetic Diseases***
Xandra Breakfield, Kay Davies, Kurt Fischbeck, Ulrike Heberlein, Erik Kandel, David MacLennan, Jeffrey Noebels, Mihael Polymeropoulos, Dennis Selkoe, Chris Walsh, Steve Warren and Huda Zoghbi
- 1997 **Organizer, College of Medicine Research Week, *Cancer Biology: Molecular and Genetic Approaches***
Wen-Hwa Lee, Erkki I. Ruoslahti, Ayraham Raz, Mina J. Bissell and Carlo Croce
- 1996 **Organizer and Chair, College of Medicine/HHMI Symposium, *Cell-Extracellular Matrix Interactions in Development and Disease***
Angela Christiano, David Cheresch, Brigid Hogan, James Kramer and Louis Reichardt
- 1996 **Organizer and Chair, College of Medicine Research Week, *Neurobiology: Molecular, Genetic and Clinical Approaches***
Robert H. Brown, Antonio R. Damasio, Ted M. Dawson, Story C. Landis and Katherine Kalil
- 1992 **Chairperson and Organizer, FASEB Conference, *Calcium and Cell Function***
- 1989 **Co-Chair, FASEB Conference, *Calcium and Cell Function***

Scientific Advisory Boards & Consulting

- 2013-present **Genzyme Corporation**
Scientific Advisory Board
- 2010-present **Coalition to Cure Calpain 3**
Consultant
- 2010-2011 **NGM Biopharmaceuticals, Inc.**
Consultant
- 2010-2011 **Five Prime Therapeutics, Inc.**
Consultant

2010-2011	Eleven Biotherapeutics <i>Consultant</i>
2010-present	The Duchenne Research Fund <i>Scientific Advisory Board</i>
2010-present	Vanderbilt University <i>Biomedical Science Advisory Board</i>
2008-2012	ARMGO Pharmaceutical, Inc. <i>Scientific Advisory Board</i>
2006-2010	Duke NUS Graduate Medical School Singapore <i>Scientific Advisory Board Committee</i>
2004-present	Cure Duchenne <i>Scientific Advisory Board</i>
2001-2004	MyoContract <i>Pharmaceutical Research (Basel, Switzerland)</i>

Teaching Activities

University of Iowa

<u>Course Title</u>	<u>Course No.</u>	<u>Year(s)</u>	<u>Registered</u>	<u>Effort</u>
Human Organ Systems	140:250	1996-present	200	15 %
Medical Cell Biology	60:116	1996-present	200	5 %
Human Physiology for PA Students	72:164	2002-present	40	5 %
Survival Skills for a Research Career	060:204	2000-present	150	5 %
Mini Medical School Lecture, April 10, 2007	n/a	2007	200	5%
Neurobiology of Disease	132:235:001	2006	25	5%
Experimental Approaches to Human Disease	060:208	2001-04	20	5 %
Fundamental Neuroscience	132:180	2000	20	5 %
Principles of Molecular and Cell Biology (Facilitator)	156:201	2000-02	80	5 %
Medical Neuroscience	72:234	1992	200	5 %
Medical Neuroscience, Course Co-Director	72:234	1991	200	5 %
Neuroscience Seminar	132:265	1990-91	14	100 %
Cell Biology II	142:255	1990	15	30 %
Medical Physiology, Course Director	72:212	1988-90	190	30 %
Membrane Seminar	72:255	1984-89	10	100 %
Intermediate Physiology	72:150	1983-84	235	15 %
Graduate Physiology	72:214	1983-84	8	15 %
Medical Physiology	72:212	1982-95	190	20 %
Structure and Function of Biological Membranes	72:241	1982-92	10	100 %
Advanced Biomedical Studies	50:198	1982	10	10 %
Cell Biology	72:111	1981	10	10 %

International Teaching Positions

January 2006	Masters Class in Molecular Mechanisms of Disease Glycogenetics and Neuromuscular Diseases Nijmegen School of Molecular Life Sciences (NCMLS) Nijmegen, The Netherlands
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Graduate Students

<u>Name and Degree</u>	<u>Current Employment Organization</u>	<u>Current Title</u>
Jyothi Arikath, Ph.D. (1997-2002)	Munroe-Meyer Institute for Genetics and Rehabilitation, Department of Developmental Neurology, University of Nebraska Medical Center	Assistant Professor
Dimple Bansal, Ph.D. (1998-2003)	Biocon, Oncology Business Unit, Bangalore, India	Head of Marketing and Strategy
Wei Guo, Ph.D. (1992-1995)	University of Pennsylvania, Department of Biology, Philadelphia, PA	Associate Professor
Christina Gurnett, M.D./Ph.D. (1992-1997)	Washington University School of Medicine, Department of Neurology, St. Louis, MO	Associate Professor
Scott Jay, M.D./Ph.D. (1984-1991)	Wellmont CVA Heart Institute: Laughlin Campus, Greeneville, TN	Staff Cardiologist
Myoung-Goo Kang, Ph.D. (1998-2003)	Institute for Basic Science, Center for Cognition and Sociality, Daejeon, Republic of Korea	Principal Investigator
Michael Knudson, M.D./Ph.D. (1985-1992)	University of Iowa, Department of Pathology, Iowa City, IA	Associate Professor
Albert Leung, M.D./Ph.D. (1986-1989)	Merck Research Laboratories, Diabetes and Endocrinology Clinical Research, Rathway, NJ	Executive Director
Leland Lim, M.D./Ph.D. (1993-1999)	Stanford University School of Medicine and Veterans Affairs Palo Alto Healthcare System, Department of Neurology, Palo Alto, CA	Staff Physician and Clinical Assistant Professor
Hongyan Liu, Ph.D. (1992-1997)	New York, NY	Homemaker
Peter McPherson, Ph.D. (1988-1993)	McGill University, Department of Neurology, Neurosurgery, and Anatomy and Cell Biology; Montreal Neurological Institute, Montreal, Canada	James McGill Professor
Marlon Pragnell, Ph.D. (1990-1994)	Juvenile Diabetes Research Foundation New York, NY	Senior Scientific Program Manager
David Pepper, M.S./M.D. (1984-1986)	UCSF Fresno, Department of Family Medicine, Fresno, CA	Associate Clinical Professor

Jakob Satz, Ph.D. (1999-2007)	Jackson Laboratories, Bar Harbor, ME	Postdoctoral Fellow
Alan Sharp, Ph.D. (1983-1988)	Developmental Neuro-Biochemistry, Case Western Reserve University	Research Scientist
Bin Yang, Ph.D. (1991-1995)	Genentech, Inc./Roche San Francisco, CA	Scientist/Group Leader

Postdoctoral Fellows

<u>Name and Degree</u>	<u>Current Employment Organization</u>	<u>Current Title</u>
Valerie Allamand, Ph.D. (1996-2000)	INSERM Institut de Myologie, Center for Research in Myology, Paris, France	Group Leader
Rita Barresi, Ph.D. (1998-2006)	NSCT Diagnostic & Advisory Service for Rare Neuromuscular Diseases Muscle Immunoanalysis Unit, Newcastle upon Tyne, United Kingdom	Clinical Scientist and Head
Aaron Beedle, Ph.D. (2003 – 2007)	The University of Georgia, Department of Pharmaceutical and Biomedical Sciences, Athens, GA	Assistant Professor
Daniel Beltran, Ph.D. (2004-2013)	Invitae Research Institute, San Francisco, CA	Scientist
Oxana Beskrovanya-Ibraghimov, Ph.D. (1990-1994)	Genzyme Corporation, Framingham, MA	Vice President, Distinguished Scientific Fellow
Gloria Biddlecome, Ph.D. (1997-1999)	Summer Stream Homes, LLC, Bakersfield, CA	Self-employed
Chien-Chang Chen, Ph.D. (1998-2004)	Academia Sinica, Institute of Biomedical Sciences, Taipei, Taiwan	Associate Professor/Associate Research Fellow
Ronald Cohn, M.D. (1998-2001)	University of Toronto, Division of Clinical and Metabolic Genetics, Center for Genetic Medicine, The Hospital for Sick Children, Toronto, Canada	Associate Professor; Chief, Division of Clinical and Metabolic Genetics
Ramon Coral, Ph.D. (1996-1999)	Escuela Superior de Medicina, Intituto Politenico Nacional, Mexico	Research, Senior
Rachelle Crosbie-Watson, Ph.D. (1995-1999)	UCLA, Department of Integrative Biology and Physiology, Los Angeles, CA	Professor
Jessica de Greef, Ph.D. (2010-2015)	Department of Human Genetics, Leiden University Medical Center, The Netherlands	Senior Researcher
Michel De Waard, Ph.D. (1991-1995)	Neuroscience Institute of Grenoble Grenoble, France	Class 1 Research Director—Group Leader

Franck Duclos, Ph.D. (1994-1998)	Bristol-Myers Squibb Pharmaceutical Research Institute, Pennington, NJ	Senior Research Investigator
Madeleine Durbeej-Hjalt, Ph.D. (1997- 2001)	Lund University, Department of Experimental Medical Science Lund, Sweden	Professor
James M. Ervasti, Ph.D. (1989-1992)	University of Minnesota, Department of Biochemistry, Molecular Biology and Biophysics; Paul and Sheila Wellstone Muscular Dystrophy Center, Minneapolis, MN	Professor; Research Director
Ricardo Felix, M.D./Ph.D. (1995-1998)	Center for Research and Advanced Studies of the National Polytechnic, Department of Cell Biology, Mexico City, Mexico	Professor
Elena Gertsen, M.D. (2005-2007)	East Tennessee State University, Department of Pathology, Johnson City, TN	Resident Physician
Matthew Goddeeris, Ph.D. (2007-2014)	Mitobridge, Inc., Translational Biology Cambridge, MA	Scientist
Severine Groh, Ph.D. (2001-2007)	Delta State University, Division of Biological and Physical Sciences Cleveland, MS	Assistant Professor
Renzhi Han, Ph.D. (2003 - 2008)	Loyola University Medical Center, Department of Cell and Molecular Physiology, Maywood, IL	Assistant Professor
Yuji Hara, Ph.D. (2005-2012)	Graduate School of Engineering, Kyoto University, Department of Synthetic Chemistry and Biological Chemistry, Kyoto, Japan	Associate Professor
Michael Henry, Ph.D. (1995 - 1999)	The University of Iowa, Department of Molecular Physiology and Biophysics, Iowa City, IA	Associate Professor
Kate Holt, Ph.D. (1995-2000)	Veteran's Affairs Health Care System, Iowa City, IA	Research Health Science Specialist
Toshiaki Imagawa, Ph.D. (1985-1989)	Hokkaido University, Department of Chemistry, Japan	Associate Professor
Kei-ichiro Inamori, Ph.D. (2006-2013)	Institute of Molecular Biomembrane and Glycobiology Tohoku Pharmaceutical University Sendai, Miyagi, Japan	Associate Professor
Daniel Jung, Ph.D. (1993-1996)	Laval University, Hema-Quebec Research & Development, Quebec, Canada	Scientist/Adjunct Professor

Motoi Kanagawa, Ph.D. (2001-2005)	Department of Medical Genetics Osaka University Graduate School of Medicine, Japan	Associate Professor
Yvonne Kobayashi, Ph.D. (2000-2004)	Eli Lilly & Company, Indianapolis, IN	Principal Research Scientist
Kazuhiro Kobuke (2003 - 2009)	Kinki University Faculty of Medicine, Department of Cardiovascular Medicine, Osaka, Japan	Lecturer
Hajime Kusano, Ph.D. (2000-2005)	Business Development & Licensing, Tokyo, Japan	Manager
Connie Lebakken, Ph.D. (1997-2001)	Life Technologies Corporation, Primary Stem Cell Systems, Research and Development, Madison, WI	Staff Scientist
John Lueck, Ph.D. (2008-2014)	The University of Iowa, Department of Molecular Physiology and Biophysics, Iowa City, IA	Associate
Kiichiro Matsumura, M.D. (1990-1993)	Teikyo University Medical School, Department of Neurology, Tokyo, Japan	Professor
Daniel Michele, Ph.D. (2000-2004)	University of Michigan, Department of Molecular and Integrative Physiology, Ann Arbor, MI	Associate Professor
Kay Ohlendieck, Ph.D. (1989-1991)	National University of Ireland, Department of Biology, Maynooth, County Kildare, Ireland	Professor and Chair
Jan Parys, Ph.D. (1990-1992)	Katholieke University, Department of Physiology, Leuven, Belgium	Professor
Federica Piccolo, Ph.D. (1998-2002)	Salvazzano Dentro, Italy	Grant Writer and Project Manager
Erik Rader, Ph.D. (2006-2012)	Muscle Pathomechanics, Research Team, Toxicology and Molecular Biology Branch, Health Effects Laboratory Division, Centers of Disease Control and Prevention, Morgantown, WV	Associate Service Fellow
Steve Roberds, Ph.D. (1992-1995)	Tuberous Sclerosis Alliance Silver Spring, MD	Chief Scientific Officer
Fumiaki Saito, M.D./Ph.D. (1999-2002)	Teikyo University School of Medicine, Department of Neurology, Tokyo, Japan	Associate Professor
Yoshiaki Saito, M.D./Ph.D. (2003-2004)	National Center Hospital of Neurology and Psychiatry, Department of Child Neurology, Tokyo, Japan	Chief of Inpatient Ward

Junshi Sakamoto, Ph.D. (1989-1991)	Kyushu Institute of Technology, Department of Bioscience and Bioinformatics, Iizuka, Fukuoka-ken, Japan	Professor
Jakob Satz, Ph.D. (2007-2009)	Jackson Laboratories, Bar Harbor, ME	Postdoctoral Fellow
Victoria Scott, Ph.D. (1994-1996)	Abbott Laboratories, Abbott Park, IL	Senior Biology Group Leader
Volker Straub, M.D./Ph.D. (1995-1998)	Institute of Human Genetics, University of Newcastle upon Tyne, United Kingdom	Harold Macmillan Chair of Medicine
Yoshihide Sunada, M.D./Ph.D. (1993-1996)	Kawasaki Medical School, Department of Neurology, Okayama, Japan	Professor
Barry Timms, M.D./Ph.D. (1985-1988)	University of South Dakota, Department of Cellular and Molec. Biology, Vermillion, SD	Professor
Rolf Turk, Ph.D. (2005-2014)	The University of Iowa, Department of Molecular Physiology and Biophysics, Iowa City, IA	Associate
Tobias Willer, Ph.D. (2004-2013)	The University of Iowa, Department of Molecular Physiology and Biophysics, Iowa City, IA	Associate
Derrick Witcher, Ph.D. (1991-1995)	Lilly Research Laboratory Indianapolis, IN	Senior Research Advisor
Hiroki Yamada, M.D. (1996-1999)	Tokyo Metropolitan Hiroo Hospital, Division of Neurology, Tokyo, Japan	Division Chief
Takako Yoshida-Moriguchi (2003 – 2008)	Genzyme Corporation Framingham, MA	Scientist

Co-Op Exchange Students

<u>Name</u>	<u>Dates in Laboratory</u>	<u>Post-Graduate Education</u>	<u>Current Position</u>
Emma Hiscutt (University of Bath)	June 1997 – August 1997	M.D., University of Oxford, UK	Dermatologist, Private Practice, Victoria, Australia
Sara Trewick (University of Bath)	June 1997 – September 1997	Ph.D. Cancer Research UK – Clare Hall Laboratories, London, UK	Senior Research Scientist, TPP Global Development, Ltd., Edinburgh, UK
Anne Mullen Grey (McMaster University)	May 2002 – August 2002	Ph.D. Pharmacology and Toxicology, University of Toronto, Toronto, Ontario, Canada	Medical Student, University of Toronto Faculty of Medicine, Toronto, Ontario, Canada

Chris McLaughlin (McMaster University)	May 2002 – December 2002	Ph.D., Cellular and Molecular Medicine, University of Ottawa, Ontario, Canada M.D., McMaster University, Ontario, Canada	Resident, Department of Ophthalmology, McMaster University, Ontario, Canada
Robert Svensson (University of Bath)	August 2002 – August 2003	Ph.D., Molecular Physiology and Biophysics, University of Iowa, Iowa City, IA	Research Associate, Salk Institute for Biological Studies, La Jolla, CA
Daniel Nicholson (University of Bath)	August 2003 – July 2004	M.S., Molecular and Cellular Biology, University of Bath, Bath, UK M.S., History and Philosophy of Science, University of Leeds, Leeds, UK Ph.D., Philosophy, University of Exeter, Exeter, UK	Research Fellow, Centre for the Study of Life Sciences (Egenis), University of Exeter, Exeter, UK
Jeeyoung Oh (Ewha Woman's University Mokdong Hospital)	September 2003 – August 2004		Department of Neurology, Konkuk University School of Medicine, Seoul, South Korea
Stephane Vassilopoulos (Joseph Fourier University)	February 2005 – August 2005	Ph.D., Biochemistry and Cell Biology, University Joseph Fourier, Grenoble, France	Therapie des maladies du muscle strie, Institut de Myologie, INSERM, Paris, France
Viviane Muniz (Universidad de Santo Amaro)	March 2006 – February 2007	Ph.D. Dept. of Molecular and Cellular Biology, University of Iowa, Iowa City, IA	Postdoctoral Research Scholar, Department of Pharmacology, University of Iowa, Iowa City, IA
Kathryn 'Conley' Flynn (University of Iowa)	September 2011 – January 2013	M.Ed. Dept. of Teaching and Learning, Vanderbilt University, Nashville, TN (in progress)	Graduate Research Assistant, Department of Teaching and Learning, Vanderbilt University, Nashville, TN

Departmental Chair Activities (2002 – present)

Overview

The Department of Molecular Physiology and Biophysics of the Roy J. and Lucille A. Carver College of Medicine is an outstanding basic science department that makes major contributions to the college's three-part mission of teaching, research and service. The department is nationally recognized for its strength and accomplishments in research, and is renowned for its exceptional contributions to Medical School teaching. The Department of Molecular Physiology and Biophysics is comprised of a highly interactive, intellectually stimulating and productive faculty of scientists and educators. At present, the department has 18 research faculty and one full-time teaching faculty member. Faculty are recruited to the department for their independent basic science research programs; however, most faculty have a component of translational research and participate in strong clinical collaborations. The department has a strong commitment to diversity, which is evidenced by its three female faculty members, one African American faculty member and three members of Asian and Pacific Islander descent. All faculty members lead active and productive research programs that are supported by external funding. We currently have 12 faculty that average over 72% salary support from grants and/or teaching. Four junior faculty have also been

very successful in obtaining extramural funding since their recruitment, covering close to 70% of their salary from extramural funding.

Faculty Recruitment

<u>Name and Degree</u>	<u>Year Recruited</u>	<u>Previous Institution</u>
Julien Sebag, Ph.D.	2013	Vanderbilt University
Janice Robertson, Ph.D.	2013	Brandeis University
Christopher Ahern, Ph.D.	2012	University of British Columbia
Amy Lee, Ph.D.	2008	Emory University
Mike Wright, Ph.D.	2008	University of California, Davis
Charles Harata, Ph.D.	2007	Stanford University
Alessio Accardi, Ph.D.	2007	Brandeis University
Michael Henry, Ph.D.	2003	Millenium Pharmaceuticals, Inc.
Michael Anderson, Ph.D.	2003	The Jackson Laboratory

Graduate Student Education

- Established the Molecular Physiology and Biophysics Graduate Student Symposium
- Established the Ramon D. Buckley Graduate Student Scholarship
- Established Paper of the Year award for a departmental graduate student with an outstanding publication

Postdoctoral Fellow Education

- Established the Departmental Postdoc Career Enhancement group
- Developed a Postdoc seminar mentoring program by faculty members
- Established the Peter A. Getting Postdoctoral Scholar Award

Undergraduate Education

- Developed the Coop Exchange Program to give undergraduate students the opportunity to carry out laboratory work

Departmental Chair Talks

Presentation at "DEO Metrics, Spring 2010" University of Iowa Department of Molecular Physiology & Biophysics Faculty Meeting, Iowa City, Iowa, May 11, 2010.

DEO Department Review/SWOT Meeting with Dean Rothman & CCOM Administration, "SWOT Analysis and Department Review" University of Iowa, Iowa City, Iowa, February 16, 2009.

"The Interview" Presentation to University of Iowa Department of Molecular Physiology & Biophysics Postdoc Career Enhancement Group, Iowa City, Iowa, November 10, 2008.

"Applying and Preparing for Faculty Positions" Presentation at the University of Iowa Department of Molecular Physiology & Biophysics Postdoc Professional Development Series, Iowa City, Iowa, November 13, 2006.

"CV and Resume Preparation" Presentation at the University of Iowa Department of Molecular Physiology & Biophysics Postdoc Professional Development Series, Iowa City, Iowa, August 14, 2006.

"Physiology and Biophysics" Presentation at the University of Iowa Carver College of Medicine (CCOM) Executive Committee Meeting, Iowa City, Iowa, September 12, 2005.

"Physiology and Biophysics" Orientation Presentation to University of Iowa Biosciences Program Students as Professor and Intern Head, Iowa City, Iowa August 19, 2004.

Financial Resource Support (Grants and Contracts)

Current Grants

<u>Title</u>	<u>Period</u>	<u>Amount</u>
Investigator, Howard Hughes Medical Institute (Renewed 10/14)	10/01/89 – present	Negotiated Annually
NIH/NINDS 2 U54 NS053672 Senator Paul D. Wellstone Muscular Dystrophy Cooperative Research Center “Therapeutic Strategies for Congenital and Limb-Girdle Muscular Dystrophies” (PI: KP Campbell)	06/08/05-06/31/20	\$1,017,766
Muscular Dystrophy Association “Protein O-mannosylation: Classification of New Players in Muscular Dystrophy” (PI: KP Campbell)	08/01/12 – 07/31/15	\$113,637/year

Recent Past Grants

<u>Title</u>	<u>Period</u>	<u>Amount</u>
Muscular Dystrophy Association “Pathways and Consequences of Non-dysferlin Mediated Membrane Repair” (PI: Jennifer Levy-Keiser)	8/01/11 – 07/31/14	\$60,000/year
Muscular Dystrophy Associate “Pathophysiology of Muscle Weakness and Wasting in Myotonic Dystrophy” (PI: John Lueck)	02/01/11 – 01/31/14	\$60,000/year
5 T32 HL 7121-37 Iowa Cardiovascular Center Institutional Training Grant “Dystroglycan-dependent anchoring of dystrophin prevents muscular dystrophy” (PI: Rolf Turk)	08/15/12 – 08/14/13	\$58,000/year
Muscular Dystrophy Association “Molecular Basis of Glycosylation-Deficient Muscular Dystrophy” (PI: KP Campbell)	01/01/10 – 12/31/12	\$144,203/year
Ruth L. Kruschstein NRSA Fellowship “ Mechanisms Required for Dystroglycan Posttranslational Modification” (PI: M Goddeeris, Co-PI: KP Campbell)	01/15/09 – 01/14/12	\$57,094/year

NIH/NINDS 1 RC2 NS069521-01 (GO Grant) "High-Throughput Genetic & Small-Molecule Screening for Therapeutic Modifiers" (PI: KP Campbell)	09/30/09 – 08/31/11	\$1,233,893
Myotonic Dystrophy Fellowship "The Role of Sarcolemmal Membrane Fidelity in DM Muscle Pathogenesis" (PI: J Lueck, Co-PI: KP Campbell)	04/01/09 – 03/31/11	\$50,000/year
Cardiovascular Center Institutional Research Fellowship "Roles of Dynamin 2 in Myofiber Organization and Centronuclear Myopathy" (PI: J Levy, Co-PI: KP Campbell)	01/01/09-12/31/10	\$47,429/year
Muscular Dystrophy Association Research Development Grant "Role of Muscle Development/Regeneration in the Pathology of Dystroglycanopathy" (PI: A Beedle, Co-PI: KP Campbell)	01/01/09 – 12/31/10	\$60,000/year
Muscular Dystrophy Association Research Development Grant "Efficacy of LARGE as a Therapeutic Strategy for Limb-Girdle Muscular Dystrophy" (PI: EP Rader; Co-PI: KP Campbell)	01/01/08 – 12/31/10	\$45,000/year
NIH/NIAMS 3 R01 AR051199-05S1 (R01 Supplement) "Therapeutic potential of α -sarcoglycan in the treatment of limb- girdle muscular dystrophy type 2D (LGMD-2D)" (PI: KP Campbell)	09/23/09-09/22/10	\$325,990
NIH/NIAMS 5 R01 AR051199 "Therapeutic Potential of ϵ -sarcoglycan in the Treatment of LGMD Type 2D" (PI: KP Campbell)	04/01/04-03/31/10	\$218,366

Physical Facilities

Office and Laboratory – Carver Biomedical Research Building, 4283 CBRB, 5000 sq. ft.

Current Personnel Supervised

Associates

Jennifer Levy
John Lueck
Rolf Turk
Tobias Willer

Previous University

University of Pennsylvania
University of Rochester
Leiden University
University of Regensburg

Start Date

2008
2008
2005
2004

Degree

Ph.D.
Ph.D.
Ph.D.
Ph.D.

Postdoctoral Fellows

Toru Egashira
Takahiro Yonekawa
Tianqing Zheng

Previous University

Keio University
University of Yamanashi
Yeshiva University

Start Date

2014
2014
2014

Degree

M.D., Ph.D.
M.D., Ph.D.
Ph.D.

Research Assistants

Mary Anderson
Keith Garringer
Rebecca Hamlyn
Sally Prouty
David Venzke

Graduate Students

Braden Jensen (Medical)
Ameya Walimbe (MSTP)

Post-Baccalaureate Research Interns

Nicolette Johnson

Undergraduate Lab Assistants

Allison Bouska
Megan Devereaux
Sara El-Hattab
Kayla Jones
Adam Mackey
Raul O'campo Landa
Tyler Pospisil

Administrative Support

Bekah Walker

Clinical and Translational Activities

- 1997-present **Wellstone Muscular Dystrophy Cooperative Research Center**
Director: Kevin Campbell
Exploration of therapeutic strategies for the treatment of various muscular dystrophies by enabling translational research on muscular dystrophies and providing advanced diagnostic services.
- 1997-present **Neuropathology Meeting**
Organizers: Kevin Campbell (Molecular Physiology & Biophysics), Katherine Mathews (Pediatrics and Neurology), Steven Moore (Pathology)
Review and discussion of recent neuromuscular disease patients seen at University of Iowa Hospitals and Clinics or muscle biopsies sent to neuropathology at the University of Iowa for analysis.
**for a more detailed description of the Neuromuscular Disease Group, please see appendix XI*
- 2000 – 2007 **Limb-Girdle Muscular Dystrophy Study**
Coordinating Center: Ohio State University
PI: Jerry R. Mendell (*Ohio State University*)
Co-PIs: Steven Moore, Kevin P. Campbell (*University of Iowa*)
Members: Katherine Mathews (*University of Iowa*), Robert C. Griggs (*University of Rochester*), Alan Pestronk (*Washington University*), Gerald Fenichel (*Vanderbilt University*), Hansel Stedmann (*University of Pennsylvania*)
Aims:
1. Establish a registry of LGMD patients in North America with defined gene mutations for purposes of determining the incidence and natural history of specific disorders in this outbred population.
2. Establish a cohort of LGMD patients with defined gene mutations to participate in clinical trial involving gene transfer.
3. Define appropriate end points for clinical efficacy for clinical trials including gene transfer in LGMD.

Invited Seminars (2004-Present)

- 2004 New Directions in Biology and Disease of Skeletal Muscle, San Diego, California
2004 University of Pennsylvania Children's Hospital, Philadelphia, Pennsylvania
2004 Keystone Symposium on Molecular Biology and Cardiac Disease, Keystone, Colorado
2004 Cincinnati Children's Hospital Medical Center Rachford Lecture, Cincinnati, Ohio
2004 Ohio State University Research Day, Columbus, Ohio
2004 University of Washington Department of Biochemistry, Seattle, Washington
2004 University of California, San Diego, California
2004 American Academy of Neurology Plenary Session, Frontiers in Clinical Neuroscience-Beyond the Decade of the Brain, San Francisco, California
2004 University of Rochester, Rochester, New York
2004 George H. Bishop Lecture Series, Washington University, St. Louis, Missouri

2004 Howard Hughes Medical Institute Scientific Meeting, Chevy Chase, Maryland
 2004 Gordon Research Conference on Basement Membranes, Bristol, Rhode Island
 2004 Muscular Dystrophy Scientific Workshop Toward Therapeutics, Foundation to Eradicate Duchenne, Inc., La Jolla, California
 2004 43rd Annual Iowa Branch American Association for Laboratory Animal Science, Iowa City, Iowa
 2004 American Society for Matrix Biology, San Diego, California
 2004 University of Iowa Neurology Grand Rounds, Iowa City, Iowa
 2005 European Neuro Muscular Centre International Workshop on Congenital Muscular Dystrophy, Naarden, The Netherlands
 2005 Third Annual Neuromuscular Conference and EMG Workshop, London Health Sciences Centre, London, Ontario, Canada
 2005 University of Iowa Internal Medicine Grand Rounds, Iowa City, Iowa
 2005 University of Connecticut Health Center Cardiovascular Grand Rounds, Farmington, Connecticut
 2005 International Congress of Physiological Sciences, San Diego, California
 2005 University of Columbia Colleen Giblin Lecture, New York, New York
 2005 Duke CMB Symposium, Duke University, Durham, North Carolina
 2005 Mini Medical School Program, University of Iowa, Iowa City, Iowa
 2005 AFM Scientific Congress on Myology, Nantes, France
 2005 Johns Hopkins Neurology Grand Rounds, Johns Hopkins University, Baltimore, Maryland
 2005 Yale Pharmacology Lecture, Yale University, New Haven, Connecticut
 2005 Harvard Children's Hospital Orthopedic Research Seminar, Boston, Massachusetts
 2005 FASEB Summer Research Conference "Skeletal Muscle Satellite and Stem Cells," Tucson, Arizona
 2005 26th Annual David W. Smith Workshop on Malformations and Morphogenesis, The University of Iowa
 2005 World Muscle Society Meeting, Iguassu Falls, Brazil
 2005 Society for Glycobiology, Boston, Massachusetts
 2005 Scripps Research Institute, San Diego, California
 2006 Masters Class in Molecular Mechanisms of Disease Glycogenetics and Neuromuscular Diseases, Nijmegen School of Molecular Life Sciences (NCMLS), Nijmegen, The Netherlands
 2006 Harvard Cell Biology Seminar, Boston, Massachusetts
 2006 Neuroscience Program Seminar, The University of Iowa, Iowa City, Iowa
 2006 79th Annual Japanese Pharmacological Society, Yokohama, Japan
 2006 Osaka University Seminar, Osaka, Japan
 2006 Department of Molecular Biology and Genetics Seminar, Johns Hopkins University, Baltimore, Maryland
 2006 New Directions in Biology and Disease of Skeletal Muscle Meeting, Dallas, Texas
 2006 Frontiers in Myogenesis Meeting, Callaway Gardens, Pine Mountain, Georgia
 2006 Department of Defense Military Health Research Forum, San Juan, Puerto Rico
 2006 Genetics In-Service Special Presentation, The University of Iowa, Iowa City, Iowa
 2006 Neurosurgery Research Conference, The University of Iowa, Iowa City, Iowa
 2006 XVI International Congress of Neuropathology, San Francisco, California
 2006 HHMI Science Meeting. Janelia Farm Research Campus, Ashburn, Virginia
 2006 UT Southwestern Grand Rounds, UT Southwestern, Dallas, Texas
 2006 Neuromuscular Plasticity Symposium, University of Florida, Gainesville, Florida
 2007 Keystone Symposium: Molecular Pathways in Cardiac Development and Disease, Breckenridge, Colorado
 2007 Neurosciences Seminar Series, Stanford University, Stanford, California
 2007 Presidential Lecture, The University of Iowa, Iowa City, Iowa
 2007 Mini Medical School, The University of Iowa, Iowa City, Iowa
 2007 Medical College of Wisconsin Student Choice Lecture, Milwaukee, Wisconsin
 2007 The 20th Anniversary of the DMD Gene Discovery: Impact on Muscle Biology, Disease and Therapy, Ottawa
 2007 Neurology Grand Rounds, The University of Iowa, Iowa City, Iowa
 2007 Cornell Biomedical Sciences, Neuroscience Program, and Institute of Cell and Molecular Biology Distinguished Lecture, Cornell University, Ithaca, New York
 2007 Genzyme Seminar, Boston, Massachusetts
 2007 Jain Foundation First Annual Dysferlin Conference, Bermuda
 2007 HHMI Scientific Meeting-Molecular Transport and Trafficking, Ashburn, Virginia
 2007 Faculty of Medicine: Perceptions of the Cell, Vancouver, British Columbia, Canada
 2007 Brain Research Centre, Vancouver, British Columbia, Canada
 2007 University of Michigan Symposium, Ann Arbor, Michigan
 2007 World Muscle Society, Giardini Naxos, Italy
 2008 ENMC Workshop on CMD, Naarden, The Netherlands
 2008 Neuromuscular Disease Seminar, Leiden, The Netherlands
 2008 Banbury Center Meeting, Cold Spring Harbor, New York
 2008 Loyola University White Lecture, Maywood, Illinois
 2008 SGH 17th Annual Scientific Meeting, Singapore
 2008 New Directions in Biology and Disease of Skeletal Muscle, New Orleans, Louisiana

2008 International Workshop for Glycosylation Defects in Muscular Dystrophy, Charlotte, North Carolina
 2008 Sloan-Kettering Cancer Center Seminar, New York, New York
 2008 Harvard Medical School Grand Rounds, Boston, Massachusetts
 2008 Gordon Research Conference on Basement Membranes, Biddeford, Maine
 2008 Iowa Congenital Muscular Dystrophy Meeting, Iowa City, Iowa
 2008 Society for General Physiologists, Woods Hole, Massachusetts
 2008 University of Kentucky Distinguished Speaker Series, Lexington, Kentucky
 2008 4th Banbury Conference on SMA: Taking on New Complexities in SMA Biology, Cold Spring Harbor
 2008 CFA Symposium, Philadelphia, Pennsylvania
 2009 HHMI Science Meeting, Chevy Chase, Maryland
 2009 The Scripps Research Institute Bernard Field Lecture, La Jolla, California
 2009 Vanderbilt Discovery Lecture, Nashville, Tennessee
 2009 Columbia University Making Muscle in the Embryo and Adult joint meeting with Frontiers in Myogenesis, New York, New York
 2009 March of Dimes Prize in Developmental Biology Acceptance Lecture, Baltimore, Maryland
 2009 Novartis Institutes for BioMedical Research, Inc., Cambridge, Massachusetts
 2009 Boston Biomedical Research Institute (BBRI), Watertown, Massachusetts
 2009 CMD Therapeutic Target Conference, Atlanta, Georgia
 2009 Keynote Speaker, Society of General Physiologists, Woods Hole, Massachusetts
 2009 Society of Glycobiology, San Diego, California
 2009 49th American Society for Cell Biology Annual Meeting, San Diego, California
 2010 ENMC Workshop on Dysferlinopathy, Naarden, The Netherlands
 2010 UC Santa Barbara, Santa Barbara, California
 2010 Loyola University Chicago, Chicago, Illinois
 2010 Genzyme Corp., Framingham, Massachusetts
 2010 University of Georgia, Athens, Georgia
 2010 The Ottawa Conference on New Directions in Biology & Disease in Skeletal Muscle, Ottawa, Ontario, Canada
 2010 University of Nebraska Medical Center, Omaha, Nebraska
 2010 University of Minnesota, Lilliehei Heart Institute, Minneapolis, Minnesota
 2010 University of Texas Health Science Center – Houston, Institute of Molecular Medicine, Houston, Texas
 2010 XII International Congress on Neuromuscular Diseases, Naples, Italy
 2010 University of Wisconsin, Cardiovascular Research Conference, Madison, Wisconsin
 2010 American Society of Matrix Biology meeting, Charleston, South Carolina
 2010 University of Texas Southwestern, Dallas, Texas
 2010 Muscular Dystrophy Workshop, Charlotte, North Carolina
 2010 Children's National Medical Center, Washington, District of Columbia
 2011 NGM Biopharmaceuticals, Inc., San Francisco, California
 2011 UC San Diego, San Diego, California
 2011 Glycobiology Symposium, San Diego, California
 2011 2nd Annual SBMRI Rare Disease Symposium, San Diego, California
 2011 UC Davis, Davis, California
 2011 UC San Francisco, Gladstone Institute, San Francisco, California
 2011 1st Chinese conference on translational research in Duchenne muscular dystrophy, Guangzhou, China
 2011 The Sanford-Burnham Medical Research Institute, La Jolla, California
 2011 Nationwide Children's Hospital, The Ohio State University, Columbus, Ohio
 2011 AANP Annual Meeting, Presidential Symposium, Seattle, Washington
 2011 Gordon Research Conference on Collagen, New London, New Hampshire
 2011 Consortium for Functional Glycomics PI Meeting, Bethesda, Maryland
 2011 International Conference on Muscle Wasting 2011, Ascona, Switzerland
 2011 Coalition to Cure Calpain3 LGMD2A Workshop, Santa Monica, California
 2011 Kurt Ebner Discovery Lecture, University of Kansas Medical Center, Kansas City, Kansas
 2011 ENMC Dystroglycan and Dystroglycanopathies Workshop, Naarden, The Netherlands
 2012 Iowa State University, Ames, Iowa
 2012 CMD: Exploring the Role of Myomatrix, Reno, Nevada
 2012 University of Nebraska-Lincoln, Lincoln, Nebraska
 2012 Yeshiva University, Einstein College of Medicine, Bronx, New York
 2012 Frontiers in Myogenesis Meeting, New York, New York
 2012 New Directions in Biology and Disease of Skeletal Muscle Conference, New Orleans, Louisiana
 2012 Institut Pasteur, Paris, France

2012 Duke University, Durham, North Carolina
 2012 World Muscle Society Meeting, Perth, Australia
 2012 Panel Discussion: Disease Pathogenesis, Wellstone Centers Meeting, Watertown, Massachusetts
 2012 College of Medicine Dean's Distinguished Lecture, University of Kentucky, Lexington, Kentucky
 2012 Center for Muscle Biology Fall Retreat, University of Kentucky, Lexington, Kentucky
 2013 Glycobiology Research Conference, Ventura, California
 2013 Glycosylation Workshop, Charlotte, North Carolina
 2013 ASBMB Annual Meeting, Boston, Massachusetts
 2013 HHMI Scientific Meeting, Ashburn, Virginia
 2013 Johnson-Sokatch Lectureship, University of Oklahoma, Oklahoma City, Oklahoma
 2013 Dept. of Biological Chemistry Seminar Program, Johns Hopkins University, Baltimore, Maryland
 2013 55th Annual Meeting of the Japanese Society of Child Neurology, Oita, Japan
 2013 Segawa Neurological Clinic for Children Symposium, Tokyo, Japan
 2013 John and Margaret Faulkner Lectureship, University of Michigan, Ann Arbor, Michigan
 2013 EMBO Workshop on Muscle Wasting, Ascona, Switzerland
 2013 Cornell University Physiology Biophysics and Systems Biology Seminar Series, New York , New York
 2013 University of Georgia, Athens, Georgia
 2014 Cincinnati Children's Heart Institute Seminar Series, Cincinnati, Ohio
 2014 Pediatrics Frontiers in Research seminar, University of Iowa, Iowa City, Iowa
 2014 Neurology Grand Rounds, University of California Los Angeles, Los Angeles, California
 2014 Baylor College of Medicine Seminar, Baylor University, Houston, Texas
 2014 Presentation to the Carver Trust, University of Iowa, Iowa City, Iowa
 2014 Neurogenetics Symposium, University of Iowa, Iowa City, Iowa
 2014 Texas A&M University Neuroscience Seminar, Texas A&M University, College Station, Texas
 2014 Duke University Biochemistry Seminar, Duke University, Durham, North Carolina
 2015 Frontiers in Biomedical Research Symposium, Scripps Research Institute, Indian Wells, California
 2015 Muscular Dystrophy Association Scientific Conference, Washington, DC
 2015 Biochemistry, Biophysics and Molecular Biology Seminar, Iowa State University, Ames, Iowa
 2015 Pfizer Frontiers in Human Disease Symposium, New York, New York
 2015 University of Minnesota Biochemistry Seminar, Minneapolis, Minnesota
 2015 Translational Biology and Molecular Medicine Bench to Bedside seminar, Baylor University, Houston, Texas

Patents

1. Title: Immunogen Conjugates and the Use Thereof in a Dihydropyridine Assay
 Inventor: Kevin P. Campbell
 Patent No.: 4,784,955 Patent Issue: November 15, 1988
2. Title: Dihydropyridine Receptor and Antibodies Thereto
 Inventors: Kevin P. Campbell, Toshiaki Imagawa and Albert T. Leung
 Patent No.: 4,912,202 Patent Issue: March 27, 1990
3. Title: Measuring Non-Dystrophin Proteins and Diagnosing Muscular Dystrophy
 Inventors: Kevin P. Campbell, James M. Ervasti, Kay Ohlendieck, Mitchell G. Gaver and Steven D. Kahl
 Patent No.: 5,187,063 Patent Issue: February 16, 1993
4. Title: Diagnosing Malignant Hyperthermia Susceptibility by Detection of Abnormal Proteolytic Enzyme Digestion Fragments of the Ryanodine Receptor
 Inventors: Kevin P. Campbell, C. Michael Knudson, Steven D. Kahl, Charles F. Louis and James R. Mickelson
 Patent No.: 5,242,801 Patent Issue: September 7, 1993
5. Title: Nucleic Acids Encoding Dystrophin-Associated Proteins
 Inventors: Kevin P. Campbell, Oxana Ibraghimov-Beskrovnaya, James M. Ervasti and Cynthia J. Leveille

- Patent No.: 5,260,209 Patent Issue: November 9, 1993
6. Title: Diagnosis of Autosomal Muscular Dystrophy
Inventors: Kevin P. Campbell and Kiichiro Matsumura
Patent No.: 5,308,752 Patent Issue: May 3, 1994
 7. Title: Calcium Channel Compositions and Methods
Inventors: Scott Jay, Steven B. Ellis, Michael M. Harpold and Kevin P. Campbell
Patent No.: 5,386,025 Patent Issue: January 31, 1995
 8. Title: Measuring Non-Dystrophin Proteins and Diagnosing Muscular Dystrophy
Inventors: Kevin P. Campbell, James M. Ervasti, Kay Ohlendieck, Mitchell G. Gaver and Steven D. Kahl
Patent No.: 5,413,910 Patent Issue: May 9, 1995
 9. Title: Measuring Non-Dystrophin Proteins and Diagnosing Muscular Dystrophy
Inventors: Kevin P. Campbell, James M. Ervasti, Kay Ohlendieck, Mitchell G. Gaver and Steven D. Kahl
Patent No.: 653536 Patent Issue: April 6, 1995
 10. Title: Method for Screening for Cardiomyopathy
Inventors: Kevin P. Campbell
Patent No.: 5,418,139 Patent Issue: May 23, 1995
 11. Title: Purified, Native Dystrophin
Inventors: Kevin P. Campbell, Steven D. Kahl and James M. Ervasti
Patent No.: 5,430,129 Patent Issue: July 4, 1995
 12. Title: Nucleic Acid Encoding Dystrophin-Associated Protein
Inventors: Kevin P. Campbell, Steven L. Roberds and Richard D. Anderson
Patent No.: 5,449,616 Patent Issue: September 12, 1995
 13. Title: Diagnosing Malignant Hyperthermia Susceptibility by Detection of Abnormal Proteolytic Enzyme Digestion Fragments of the Ryanodine Receptor
Inventors: Kevin P. Campbell, C. Michael Knudson, Steven D. Kahl, Charles F. Louis and James R. Mickelson
Patent No.: 5,462,857 Patent Issue: October 11, 1995
 14. Title: Immunogenic Ryanodine Derivative and Related Uses
Inventors: Kevin P. Campbell, Derrick R. Witcher, Peter McPherson, Steven D. Kahl, John D. Windass, Terence Lewis and Philip Bentley
Patent No.: 5,492,839 Patent Issue: February 20, 1996
 15. Title: β -Sarcoglycan Nucleic Acid Sequence, Deleterious Mutations and Applications
Inventors: Kevin P. Campbell, Leland Lim, Franck Duclos, Yoshihide Sunada, Jacques Beckmann, Odile Broux, Fernando M. S. Tomé, Michel Fardeau and Charles E. Jackson
Patent No.: 5,672,694 Patent Issue: September 30, 1997
 16. Title: Polyclonal and Monoclonal Antibodies Against a 43 kDa Dystrophin Associated Protein
Inventors: Kevin P. Campbell, Oxana B. Ibraghimov, James M. Ervasti and Cynthia J. Leveille
Patent No.: 5,686,073 Patent Issue: November 11, 1997
 17. Title: Recombinant Production of Mammalian Calcium Channel Gamma Subunits
Inventors: Scott D. Jay, Steven B. Ellis, Michael M. Harpold and Kevin P. Campbell
Patent No.: 5,726,035 Patent Issue: March 10, 1998
 18. Title: Methods for Detecting Primary Adhalinopathy

Inventors: Kevin P. Campbell, Steven Roberds, Yoshihide Sunada, Federica Piccolo, Marc Jeanpierre and Jean-Claude Kaplan

Patent No.: 5,733,732

Patent Issue: March 31, 1998

19. Title: δ -Sarcoglycan Nucleic Acid Sequences
Inventor: Kevin P. Campbell, Daniel Jung, Franck Duclos, Volker Straub and John McPherson
Patent No.: 5,837,537 Patent Issue: November 17, 1998
20. Title: Merosin Deficiency-Type Congenital Muscular Dystrophy
Inventors: Kevin P. Campbell, Yoshihide Sunada, Fernando M.S. Tomé, Michel Fardeau
Patent No: 5,863,743 Patent Issued: January 26, 1999
21. Title: Arenavirus Receptor and Methods of Use.
Inventors: Kevin P. Campbell, Michael Henry, Hiroki Yamada, Roger Williamson, Wei Cao, Michael Oldstone
Patent No: 6,083,911 Patent Issued: July 4, 2000
22. Title: Method for Aiding the Diagnosis of In-Frame Deletion Type Congenital Muscular Dystrophy
Inventors: Kevin P. Campbell, Valérie Allamand, Yoshihide Sunada, Voker Straub, Mustafa Salih
Patent No: 6,136,546 Patent Issue: October 30, 2000
23. Title: Pathogenesis of Cardiomyopathy
Inventors: Kevin P. Campbell, Ramon Coral, Ronald Cohn, Roger Williamson and Madeleine Durbeej
Patent No: 6,201,168 Patent Issue: March 13, 2001
24. Title: Sarcospan-Deficient Mouse as a Model for Clinical Disorders Associated with Sarcospan Mutations
Inventors: Kevin P. Campbell, Connie Lebakken, Rachelle Crosbie, Roger Williamson
Patent No: 6,207,878 Patent Issue: March 27, 2001
25. Title: δ -Sarcoglycan Nucleic Acid Sequences, Amino Acid Sequences and Applications
Inventors: Kevin P. Campbell, Daniel Jung, Franck Duclos, Volker Straub and John McPherson
Patent No: 6,211,340 Patent Issue: April 3, 2001
26. Title: Gene Replacement Therapy for Muscular Dystrophy
Inventors: Kathleen H. Holt, Franck Duclos, Leland E. Lim, Volker Straub, Beverly Davidson, Roger Williamson and Kevin P. Campbell
Patent No: 6,262,035 Patent Issue: July 17, 2001
27. Title: Receptor for Mycobacterium Leprae and Methods of Use Thereof
Inventors: Anura Rambukkana, Vincent A. Fischetti and Kevin P. Campbell
Patent No: 6,331,405 Patent Issue: December 18, 2001
28. Title: Genes Encoding Neuronal Voltage-Gated Calcium Channel γ Subunits
Inventors: Verity A. Letts, Wayne N. Frankel, Kevin P. Campbell, Ricardo Felix, Gloria Biddlecome
Patent No: 6,365,337 Patent Issue: April 2, 2002
29. Title: Evaluation of Adenocarcinoma of the Prostate and Breast Using Anti-Dystrglycan Antibodies
Inventors: Kevin P. Campbell, Michael Henry, Michael B. Cohen
Patent No: 6,379,893 Patent Issue: April 30, 2002
30. Title: Disruption of the Sarcoglycan-Sarcospan Complex in Vascular Smooth Muscle: A Novel Mechanism in the Pathogenesis of Cardiomyopathy and Muscular Dystrophy.
Inventors: Kevin P. Campbell, Roger Williamson, Ramon Coral, Ronald D. Cohn
Patent Application: August 20, 1999
31. Title: Receptor for Mycobacterium Leprae and Methods of Use Thereof

Inventors: Anura Rambukkana, Vincent A. Fischetti, Kevin P. Campbell

Patent No: 6,331,405B1

Patent Issue: December 18, 2001

32. Title: Increasing Functional Glycosylation of α -Dystroglycan in the Treatment of Muscle Degeneration.

Inventors: Kevin P. Campbell and Rita Barresi

Patent No: 8,119,766

Patent Issue: February 21, 2012

33. Title: Inhibitors of Phosphodiesterase Type 5A for Treating or Preventing Muscle Disease or the Symptoms Thereof in a Patient.

Inventors: Kevin P. Campbell, Yvonne Kobayashi, and Robert Crawford

Patent No: 20140005202

Application Issue: January 2, 2014

Bibliography

Reviews, Book Chapters, and Editorials

Campbell, K.P. and Shamoo, A.E. Identification of Two Intrinsic Proteins Uniquely Associated with the Terminal Cisternae of the Sarcoplasmic Reticulum. In: Calcium Binding Proteins and Calcium Function. (R.H. Wasserman, R.A. Corradino, E. Carafoli, R.H. Kretsinger, D.H. MacLennan, F.L. Siegel, eds.) North Holland Press, New York, pp. 185-187, 1977.

MacLennan, D.H. and Campbell, K.P. Structure, Function and Biosynthesis of Sarcoplasmic Reticulum Proteins. *Trends Biochem.* 4,148-151, 1979.

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APPENDICES

AVAILABLE UPON REQUEST

- I. Summary of Research (2004-2009)
- II. Future Research Plans (2009)
- III. Abstracts
- IV. Previous Funding (1981-2009)
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