## 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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285 Newton Road

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Cell phone: (319) 594-3283

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Email: kevin-campbell@uiowa.edu

Web Addresses: Lab: http://www.physiology.uiowa.edu/campbell/

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

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

**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-presen t **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 Polymeropoulous, 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 Cheresh, 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**

*Consultant*

2010-present **The Duchenne Research Fund**

*Scientific Advisory Board*

2010-present **Vanderbilt University**

*Biomedical Science Advisory Board*

2008-2012 **ARMGO Pharmaceutical, Inc.**

*Scientific Advisory Board*

2006-2010 **Duke NUS Graduate Medical School Singapore**

*Scientific Advisory Board Committee*

2004-present **Cure Duchenne**

*Scientific Advisory Board*

2001-2004 **MyoContract**

*Pharmaceutical Research (Basel, Switzerland)*

**Teaching Activities**

**University of Iowa**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Title** | **Course No.** | **Year(s)** | **Registered** | **Effort** |
| 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

**Graduate Students**

|  |  |  |
| --- | --- | --- |
| **Name and Degree** | **Current Employment Organization** | **Current Title** |
| Jyothi Arikkath, 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**

|  |  |  |
| --- | --- | --- |
| **Name and Degree** | **Current Employment Organization** | **Current Title** |
| 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**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Dates in Laboratory** | **Post-Graduate Education** | **Current Position** |  |  |
| 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**

|  |  |  |
| --- | --- | --- |
| **Name and Degree** | **Year Recruited** | **Previous Institution** |
| Julien Sebag, Ph.D. | 2013 | Vanderbilt University |
| Janice Robertson, Ph.D.  Christopher Ahern, Ph.D. | 2013  2012 | Brandeis University  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 Interm Head, Iowa City, Iowa August 19, 2004.

**Financial Resource Support (Grants and Contracts)**

**Current Grants**

|  |  |  |
| --- | --- | --- |
| **Title** | **Period** | **Amount** |
| Investigator, Howard Hughes Medical Institute  (Renewed 10/14) | 10/01/89 – present | Negotiated Annually |
| NIH/NINDS2 U54 NS053672 Senator Paul D. Wellstone Muscular Dystrophy Cooperative Research Center  “Therapeutic Strategies for Congenital and Limb-Girdle Muscular Dystrophies”  (PI: KP Campbell) | 06/08/05-06/31/15 | $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**

|  |  |  |
| --- | --- | --- |
| **Title** | **Period** | **Amount** |
| 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. Krischstein 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** | **Previous University** | **Start Date** | **Degree** |
| Jennifer Levy | University of Pennsylvania | 2008 | Ph.D. |
| John Lueck | University of Rochester | 2008 | Ph.D. |
| Rolf Turk | Leiden University | 2005 | Ph.D. |
| Tobias Willer | University of Regensburg | 2004 | Ph.D. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Postdoctoral Fellows** | **Previous University** | **Start Date** | **Degree** |
| Toru Egashira | Keio University | 2014 | M.D., Ph.D. |
| Takahiro Yonekawa | University of Yamanashi | 2014 | M.D., Ph.D. |
| Tianqing Zheng | Yeshiva University | 2014 | Ph.D. |

|  |  |  |
| --- | --- | --- |
| **Research Assistants** | **Post-Baccalaureate Research Interns** | **Administrative Support** |
| Mary Anderson | Nicolette Johnson | Bekah Walker |
| Keith Garringer |  |  |
| Rebecca Hamlyn | **Undergraduate Lab Assistants** |  |
| Sally Prouty | Allison Bouska |  |
| David Venzke | Megan Devereaux |  |
|  | Sara El-Hattab |  |
| **Graduate Students** | Kayla Jones |  |
| Braden Jensen (Medical) | Adam Mackey |  |
| Ameya Walimbe (MSTP) | Raul O’campo Landa |  |
|  | Tyler Pospisil |  |

**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, Lillehei 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 Biopharmceuticals, 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

1. 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-Dystroglycan 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

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**APPENDICES**

**Available Upon Request**

#### Summary of Research (2004-2009)

1. **Future Research Plans (2009)**
2. **Abstracts**
3. **Previous Funding (1981-2009)**

#### Past Seminars (1982-2003)

#### Past Personnel

1. **Graduate Student Comprehensive Exam and Thesis Committees**
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7. **Invited Seminars (full details)**