

The Medical Research Foundation
Investing in the Future of Biomedical Research in Oregon



2010 Awards
Discovery, Mentor and
Richard T. Jones New Investigator

November 9, 2010
The Governor Hotel
Portland, Oregon



Oregon Health & Science
University Foundation

Medical Research Foundation History

The MRF was founded in 1942 by a group of businessmen and physicians for the purpose of stimulating medical research achievement in our state. That first year, the program awarded \$200.

When the MRF became an affiliate committee of the OHSU Foundation in 1994, it retained its own unique purpose in recognizing excellence in both scientific achievement and mentorship throughout Oregon. Today, through philanthropic support, the program awards more than \$1 million per year to support exceptional research projects throughout Oregon and to acknowledge the work of outstanding investigators and mentors. Past award winners include some of Oregon's most illustrious scientists and educators.

The MRF is seeking to raise \$2 million in endowed funds to support the programs that identify and invest in new scientific talent. A gift designated to the MRF endowment is an investment in the future of world-class biomedical research in Oregon. Such gifts provide the MRF with financial resources in perpetuity to keep the quest for new treatments and new knowledge moving ever forward.

The **Richard T. Jones New Investigator Award** is intended to honor a new investigator who shows exceptional promise early in a career in biomedical research. Nominees are judged on the basis of independence, quality of science, national funding, and first or senior authored publications in peer-reviewed biomedical research journals. The culmination of the research must have been performed in Oregon.

The **Mentor Award** is given to an Oregonian who has provided outstanding leadership in support or development of health research, education or the advancement of health care.

The **Discovery Award** is given to an Oregon scientist who has made significant, original discoveries to health-related research while working in Oregon.

Nominations for all awards are sought from Oregon research, educational and health care institutions, individual researchers, educators and practitioners.

Program

5:00 p.m. Gathering

5:30 p.m. Award Presentations

Welcome

Constance French

Introduction

M. Susan Smith, Ph.D.

Richard T. Jones New Investigator Award

Kevin L. Winthrop, M.D., M.P.H.

Casey Eye Institute, Oregon Health & Science University

Award Presented By

Sigrid Button

Mentor Award

Richard H. Goodman, M.D., Ph.D.

Vollum Institute, Oregon Health & Science University

Award Presented By

John Adelman, Ph.D.

Christine A. Tanner, Ph.D., R.N., F.A.A.N.

School of Nursing, Oregon Health & Science University

Award Presented By

Judith Woodward, J.D.

Discovery Award

Shoukhrat M. Mitalipov, Ph.D.

Oregon National Primate Research Center,

Oregon Health & Science University

Award Presented By

P. Michael Conn, Ph.D.

6:30 p.m. Reception

2010 Richard T. Jones New Investigator Award



Kevin L. Winthrop, M.D., M.P.H.

Assistant Professor

Infectious Diseases

Ophthalmology

Public Health and Preventive Medicine

Casey Eye Institute

Oregon Health & Science University

The Richard T. Jones New Investigator Award recognizes Kevin Winthrop, M.D., M.P.H., a specialist in international ophthalmology, public health and infectious disease epidemiology.

In the field of ophthalmology, Dr. Winthrop is an internationally recognized expert in the diagnosis and treatment of onchocerciasis (river blindness) whose landmark study changed the way the disease is diagnosed. His research has provided the World Health Organization and other partners in the Onchocerciasis Elimination Program in Latin America a way to accurately measure the prevalence of the disease and measure the effectiveness of the campaign to eliminate it.

Dr. Winthrop also conducts nationally recognized rheumatology research in the area of infectious diseases, and his work has had major impact on drug safety, tuberculosis prevention, and the epidemiology of nontuberculosis mycobacteria. As an infectious disease epidemiologist for the Centers for Disease Control and Prevention, Dr. Winthrop highlighted the tuberculosis risks of various biologic immunosuppressant drugs commonly used in rheumatoid arthritis and other inflammatory diseases. He is also a leading national authority in prevention of this complication, and his work is believed to have contributed to the prevention of tuberculosis worldwide.

Dr. Winthrop received his B.A. at Yale University and his M.D. at OHSU. He received a M.P.H. in epidemiology from the University of California, Berkeley. He completed his residency in ophthalmology at Stanford University and another in internal medicine at Legacy Emanuel Hospital in Portland. He also worked as a fellow in infectious diseases at National Jewish Medical Center in Denver, Colorado. He has published more than 50 peer-reviewed articles, many as either first or senior author, and many in high-impact journals.

2010 Mentor Award



Richard H. Goodman, M.D., Ph.D.

Director and Senior Scientist
Vollum Institute
Oregon Health & Science University

The MRF Mentor Award recognizes Richard Goodman, director and senior scientist at the Vollum Institute. During his 20-year tenure at the Vollum, it has become known as one of the premier biomedical research institutes in the country, described as a “mecca for neurobiologists.” The success has been due, in large part, to Dr. Goodman’s vision in hiring new faculty and his mentorship after they arrive. Six of its faculty members have been awarded National Academy of Sciences membership, two have been elected into the Institute of Medicine, and one into the Royal Society. The faculty includes three Howard Hughes Medical Institute investigators, two HHMI Scientific Review Board members and three members of NIH National Advisory Councils.

Dr. Goodman is known for carefully selecting candidates, intensively recruiting them, then closely mentoring and supporting them once they join the faculty. That mentorship extends to guidance in writing NIH grant applications. As a result, over the past two decades, the institute has never had a new faculty member fail to be awarded his or her NIH grant on its first submission, an unparalleled record.

A project that Dr. Goodman has found personally rewarding brings promising undergraduates from Reed College to work in the Vollum as a springboard, in many instances, for their continuing on to medical school or graduate school in the biomedical sciences.

Dr. Goodman is a respected scientist himself whose research papers have been cited over 1,000 times apiece. He has risen to the top in American science while also directing the Vollum Institute.

Prior to joining the Vollum, Dr. Goodman was the founding director of the Molecular Medicine division at Tufts-New England Medical Center. He was elected into the National Academy of Sciences in 2002 and the Institute of Medicine in 2005, and is currently a member of the HHMI Scientific Advisory Board. Dr. Goodman received the MRF Discovery Award in 1993.

2010 Mentor Award



Christine A. Tanner, Ph.D., R.N., F.A.A.N.

A.B. Youmans-Spaulding Distinguished Professor
School of Nursing
Oregon Health & Science University

The MRF Mentor Award honors Christine Tanner, Ph.D., R.N., F.A.A.N., an expert in nursing education who is respected nationally and internationally. She teaches courses that focus on nursing education for students in the masters, postmasters, D.N.P. and Ph.D. programs and serves as the Editor-In-Chief for the *Journal of Nursing Education*.

Dr. Tanner's research focuses on development of expertise in clinical judgment and the impact of different education models on the development of skill in clinical judgment. Most of her early studies used medium fidelity simulation coupled with naturalistic observation and interviews to produce qualitative accounts of processes of clinical judgment used by both nursing students and nurses. More recently, using telephone advice nursing as the practice environment, she collaborated with investigators at the Kaiser Center for Health Research to examine nursing practice outcomes.

For the last decade, Dr. Tanner has been involved in creating educational solutions to the nursing shortage, including ways to increase enrollment and prepare a new kind of nurse in the context of rapid changes in the nursing practice environment and rapidly evolving health care needs. She was a key player in the development of the Oregon Consortium for Nursing Education (OCNE), a partnership among OHSU and eight community colleges designed to incorporate best practices in teaching and learning with an innovative shared curriculum that focuses emerging health care needs and new nursing practices. OCNE is recognized as a national model for nursing education curriculum. Dr. Tanner is principal investigator on two studies evaluating the effectiveness of OCNE for increasing educational capacity (funded by Robert Wood Johnson Foundation) and evaluating a new clinical education model (funded by the U.S. Department of Education Fund for Improvement of Postsecondary Education).

Dr. Tanner received her B.S. in nursing from the University of Northern Colorado, her M.S. in medical-surgical nursing from University of California, San Francisco, and her doctor of philosophy in educational psychology from University of Colorado, Boulder. She completed post-doctoral work at UCSF.

2010 Discovery Award



Shoukhrat M. Mitalipov, Ph.D.

Associate Scientist

Division of Reproductive Sciences

Oregon National Primate Research Center (ONPRC)

Oregon Stem Cell Center

Departments of Obstetrics and Gynecology and Molecular & Medical Genetics

Co-Director, *Assisted Reproductive Technologies and Embryonic Stem Cell core at ONPRC*
Oregon Health & Science University

The MRF Discovery Award honors Shoukhrat Mitalipov, Ph.D., who has developed one of the most successful stem cell research programs in the United States since joining OHSU in 1998. The goal of his research is to use stem cells and derived tissues and organs for treating human diseases. He is internationally recognized for his pioneering contribution to the field of gene therapy research, and his work is considered to have placed OHSU on the forefront of gene therapy and regenerative medicine.

Dr. Mitalipov and his team made international headlines in 2007 when they reported that it was possible to create primate embryonic stem cells by reprogramming genetic material from skin cells of macaque monkeys. This technology has major implications for the future of tissue transplantation, and is noteworthy because it does not involve the use of fertilized embryos. The findings were widely hailed as the top scientific discovery of the year.

He made news again in 2009 with another study in *Nature* in which he detailed a gene therapy breakthrough that could combat inherited diseases passed from mothers to children in mutated DNA in cell mitochondria (mtDNA). There are currently about 250 diseases caused by such mutations including forms of cancer, diabetes, neurodegenerative conditions, infertility and myopathies. Because there is no cure for mtDNA diseases, the ability to prevent passing them from mother to child is crucial.

Dr. Mitalipov has been lauded not just as an exemplary researcher, but as an extraordinary colleague, sharing and collaborating in a field that is highly competitive and often secretive.

Dr. Mitalipov earned his Ph.D. in developmental and stem cell biology at the Research Center for Medical Genetics in Moscow, Russia.

Former Mentor Award Recipients

2009

David and Lynn Frohnmayer
Fanconi Anemia Research Fund

2008

Stephen W. Arch, Ph.D.
Reed College

2007

Kevin G. Ahern, Ph.D.
Oregon State University

2006

Thomas M. Becker, M.D., Ph.D.
Oregon Health & Science University
M. Susan Smith, Ph.D.
Oregon Health & Science University

2005

Lesley M. Hallick, Ph.D.
Oregon Health & Science University

2004

Cynthia Morris, Ph.D., M.P.H.
Oregon Health & Science University

2003

Christopher L. Cunningham, Ph.D.
Oregon Health & Science University

2002

Kathleen Potempa, R.N., D.N.Sc., F.A.A.N.
Oregon Health & Science University
Laurens N. Ruben, Ph.D.
Reed College

2001

Thomas G. Cooney, M.D., F.A.C.P.
Oregon Health & Science University

2000

John A. Benson, Jr., M.D.
Oregon Health & Science University
Kent L. Thornburg, Ph.D.
Oregon Health & Science University

1999

Joseph D. Bloom, M.D.
Oregon Health & Science University

1998

Carol A. Lindeman, Ph.D., R.N., F.A.A.N.
Oregon Health & Science University

1997

J. S. Reinschmidt, M.D.
Oregon Health & Science University

1996

Kenneth Swan, M.D.
Oregon Health & Science University

1995

J. David Bristow, M.D.
Oregon Health & Science University

1994

Peter O. Kohler, M.D.
Oregon Health & Science University

1993

John Raaf, M.D.
Good Samaritan Hospital

1992

John W. Kendall, M.D.
Oregon Health & Science University

1991

Robert D. Koler, M.D.
Oregon Health & Science University

1990

Edward H. Cooley
Medical Research Foundation of Oregon

1988

Leonard Laster, M.D.
Oregon Health & Science University

1987

Edward Herbert, Ph.D.
Oregon Health & Science University

1986

Senator Mark O. Hatfield

Former Discovery Award Recipients

2009

J. Eric Gouaux, Ph.D.
Vollum Institute
Oregon Health & Science University

2008

Lynn Y. Sakai, Ph.D.
Shriners Hospitals for Children and
Oregon Health & Science University

2007

Markus Grompe, M.D.
Oregon Health & Science University
John H. Postlethwait, Ph.D.
University of Oregon

2006

Susan J. Hayflick, M.D.
Oregon Health & Science University

2005

Balz Frei, Ph.D.
Oregon State University
David Kabat, Ph.D.
Oregon Health & Science University

2004

P. Michael Conn, Ph.D.
Oregon Health & Science University
James D. White, Ph.D.
Oregon State University

2003

*James R. Bunzow, M.S.
*David K. Grandy, Ph.D.,
Oregon Health & Science University
John D. Scott, Ph.D.
Oregon Health & Science University
* joint award

2002

Monte Westerfield, Ph.D.
University of Oregon

2001

P. Shing Ho, Ph.D.
Oregon State University
James T. Rosenbaum, M.D.
Oregon Health & Science University

2000

David A. Lieberman, M.D.
Oregon Health & Science University

1999

Brian J. Druker, M.D.
Oregon Health & Science University
Roger D. Cone, Ph.D.
Oregon Health & Science University

1998

Dennis E. Hruby, Ph.D.
Oregon State University
Charles B. Kimmel, Ph.D.
University of Oregon

1997

J. David Bristow, M.D.
Oregon Health & Science University
Tom H. Stevens, Ph.D.
University of Oregon

1996

Scott H. Goodnight, M.D.
Oregon Health & Science University
R. Michael Liskay, Ph.D.
Oregon Health & Science University

1995

John C. Crabbe, Jr., Ph.D.
Oregon Health & Science University
Edward A. Neuwelt, M.D.
Oregon Health & Science University

1994

John M. Barry, M.D.
Oregon Health & Science University
*Alfred J. Lewy, M.D., Ph.D.
*Robert L. Sack, M.D.
Oregon Health & Science University
* joint award

Former Discovery Award Recipients

1993

Richard H. Goodman, M.D., Ph.D.

Oregon Health & Science University

R. Ellen Magenis, M.D.

Oregon Health & Science University

1992

M. René Malinow, M.D.

Oregon Regional Primate Research Center

Josef Rosch, M.D.

Oregon Health & Science University

1991

William M. Bennett, M.D.

Oregon Health & Science University

Frederick W. Dahlquist, Ph.D.

University of Oregon

1990

Grover C. Bagby, Jr., M.D., VAMC

Oregon Health & Science University

Roderick A. Capaldi, D.Phil.

University of Oregon

1989

Richard T. Jones, M.D., Ph.D.

Oregon Health & Science University

Kensal E. van Holde, Ph.D.

Oregon State University

1988

Robert S. Dow, M.D.

Dow Institute, Good Samaritan Hospital

Donald J. Reed, Ph.D.

Oregon State University

1987

William E. Connor, M.D.

Oregon Health & Science University

Brian W. Matthews, Ph.D.

Institute of Molecular Biology,

University of Oregon

1986

Christopher K. Mathews, Ph.D.

Oregon State University

Peter H. von Hippel, Ph.D.

Institute of Molecular Biology,

University of Oregon

1985

Monte Greer, M.D.

Oregon Health & Science University

Barbara Iglewski, Ph.D.

Oregon Health & Science University

1984

Howard S. Mason, Ph.D.

Oregon Health & Science University

James Metcalfe, M.D.

Oregon Health & Science University

Former Richard T. Jones New Investigator Award Recipients

2009

Joseph W. Thornton, Ph.D.

Center for Ecology & Evolutionary Biology,

University of Oregon

2008

Rosalie C. Sears, Ph.D.

Oregon Health & Science University

About the Grants

For half a century, the Medical Research Foundation of Oregon has enhanced the quality and quantity of life-science research carried out at Oregon's leading research institutions. Through research grants, early clinical investigator awards and other programs, the MRF each year invests more than \$1 million in innovative biomedical research in the state of Oregon.

By encouraging Oregon scientists to pursue their most innovative ideas, and by fostering a statewide culture of mentorship and lifelong learning, the MRF contributes to the idea that Oregon's total value in the biosciences is worth far more than just the sum of its individual parts.

To learn more about how you can support the MRF's mission to promote innovation and discovery in Oregon, please contact the OHSU Foundation at 503 228-1730. To give online, go to www.ohsufoundation.org.

The Medical Research Foundation (MRF) supports promising biomedical exploration and the development of research careers in clinical investigation in Oregon through a program of competitively awarded research grants in excess of \$1 million annually.

New Investigator: Quarterly grants of up to \$40,000 are intended for physicians and scientists who are new to research and are currently without major funding resources.

Emergency Interim Support for Established Investigator: Quarterly grants of up to \$40,000 may be made to support ongoing research when an investigator is between grants and a hiatus would jeopardize the program.

Early Clinical Investigator (ECI): Quarterly grants of up to \$20,000 are intended to further the development of young investigators who interact with human subjects and who are interested in a career in clinical research.

The Oregon Scientist Development Award: One annual grant of up to \$75,000 may be made to support exceptional, but not yet fully independent young investigators who are making the transition from an intermediate rank to scientific independence.

For more information about Medical Research Foundation Awards and Grants or to make a gift in support of the MRF, visit www.mrf-oregon.org.

2010

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