

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



2012 Awards Dinner
Discovery, Mentor and
Richard T. Jones New Investigator

November 15, 2012
The Governor Hotel
Portland, Oregon

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

5:30 p.m. Gathering

6:00 p.m. Welcome
M. Susan Smith, Ph.D.

Special Remarks
Truman W. Collins, Jr.

Award Presentations

Richard T. Jones New Investigator Award
Bonnie Nagel, Ph.D.
Division of Child and Adolescent Psychiatry,
Oregon Health & Science University
Award Presented By Joel Nigg, Ph.D.

Mentor Award
Christopher Minson, Ph.D.
Department of Human Physiology, University of Oregon
Award Presented By John R. Halliwill, Ph.D.

Discovery Award
Joseph S. Beckman, Ph.D.
Linus Pauling Institute, Oregon State University
Award Presented By Christopher K. Mathews, Ph.D.

7:00 p.m. Reception

2012 Richard T. Jones New Investigator Award



Bonnie Nagel, Ph.D.

*Associate Professor of Psychiatry and Behavioral Neuroscience
Director, Developmental Brain Imaging Laboratory
Director, Pediatric Neuropsychology, Division of Child and Adolescent Psychiatry
Oregon Health & Science University*

The Richard T. Jones New Investigator Award recognizes Bonnie Nagel, Ph.D., whose work on brain development during adolescence in healthy and at-risk populations has received significant attention and could have a major impact on public health.

Dr. Nagel's work has primarily focused on understanding the development of executive, emotional and reward-based systems in the brain using neuroimaging, and how perturbations to these systems may result in increased vulnerability to psychopathy during the adolescent years. Her lab has been working toward identifying biomarkers of familial history risk for alcoholism, with the hope of establishing more targeted intervention and prevention efforts.

Her role at OHSU emphasizes the translation of research across all facets of the institution's mission. In addition to her research, Dr. Nagel sees patients as a neuropsychologist in the Department of Psychiatry, trains medical students, and mentors both graduate students and post-doctoral fellows in Behavioral Neuroscience.

Dr. Nagel's research has been continuously funded since obtaining her Ph.D. She is principal investigator on NIH R01 and U01 grants, co-investigator on another six awards, and author of more than more than three dozen peer-reviewed papers in such high-profile journals as *The Proceedings of the National Academy of Sciences*. She was awarded the 2012 Young Investigator Award by the Research Society on Alcoholism.

Dr. Nagel earned her doctorate in clinical psychology, with an emphasis in neuropsychology, from the University of Memphis in 2003. After completing a clinical internship, a two-year post-doctoral fellowship under the mentorship of Dr. Susan Tapert, and a one-year academic appointment at the University of California San Diego, she joined OHSU in 2006.

2012 Mentor Award



Christopher Minson, Ph.D.

*Professor and Head, Department of Human Physiology
Co-Director, Exercise and Environmental Physiology Labs
University of Oregon*

The MRF Mentor Award recognizes Christopher Minson, Ph.D., a researcher, teacher and leader whose efforts in growing biomedical research and pre-medical education at the University of Oregon have transformed his department.

When Dr. Minson joined the University of Oregon, he saw an opportunity to create a unique model for biomedical research conducted in human subjects on a largely liberal arts campus. He worked with the Institutional Review Board and other groups to build a support system for biomedical research, and was instrumental in the creation of new faculty positions. His department has since undergone rapid growth, and is now recognized as one of the preeminent pathways at the university for entry to graduate medical, dental, physical therapy and nursing programs.

Minson's mentoring expertise is evidenced by the success of his students. All of his former graduate students are currently employed within the field – some are post-doctoral fellows in prestigious labs, while others have moved on to faculty appointments.

A popular and respected instructor, Dr. Minson is also a highly productive investigator. His research is focused on the role of sex steroids on autonomic regulation, vascular function, and cardiovascular health in women. He also explores the mechanisms of neurovascular regulation in response to environmental challenges and mechanisms of cutaneous vascular function. He has been funded by the National Institutes of Health, the American Heart Association, the Department of Defense and the Medical Research Foundation of Oregon.

Dr. Minson received his B.S. from the University of Arizona, his M.S. from San Diego State University and his Ph.D. from The Pennsylvania State University. He did his postdoctoral fellowship at the Mayo Clinic, and joined the University of Oregon in 2000. He has served as department head since 2008.

2012 Discovery Award



Joseph S. Beckman, Ph.D.

*Ava Helen Pauling Chair, Linus Pauling Institute
Director, Environmental Health Sciences Center
Professor, Department of Biochemistry and Biophysics
Oregon State University*

The MRF Discovery Award recognizes Joseph S. Beckman, Ph.D., a biochemist whose research has led to new understanding about the role of oxidative stress in Lou Gehrig's disease, also known as amyotrophic lateral sclerosis (ALS).

Dr. Beckman investigates how peroxynitrite, a powerful oxidant formed from nitric oxide and superoxide, is involved in neurodegeneration. ALS is caused by the unexplained death of motor neurons in the spinal cord that control the movement of all voluntary muscles. Dr. Beckman's highly cited research indicates that the loss of zinc from the antioxidant enzyme superoxide dismutase is responsible for causing the motor neurons to die. His lab's long-range goal is to understand how superoxide dismutase causes ALS and to find identify drugs and dietary compounds with the potential to treat the disease.

Dr. Beckman is involved in outreach and public education on ALS through the ALS Association of Oregon, and meets regularly with ALS support groups to explain research findings and discuss ways to provide comfort and extend life.

Dr. Beckman earned a bachelor's degree in molecular biology in 1975 and a master's degree in population biology in 1977 from the University of Colorado, Boulder. In 1978, he served in the Medical Service Corps for the United States Army in Korea and retired as captain. He earned a doctorate in botany from Duke in 1984, characterizing free radical toxicity in plant host defense. In 1988 he served as an Assistant Professor at the University of Alabama in the Department of Anesthesiology, followed by an Associate Professorship in 1992. In 1994, Dr. Beckman became professor at University of Alabama at Birmingham in the Department of Anesthesiology. He joined Oregon State University in 2001.

Former Mentor Award Recipients

2011

J. Gary Tallman Ph.D.
Willamette University

2010

Richard H. Goodman, M.D., Ph.D.
Oregon Health & Science University
Christine A. Tanner, Ph.D., R.N., F.A.A.N.
Oregon Health & Science University

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

2011

Chris Q. Doe, Ph.D.

University of Oregon

Gail Mandel, Ph.D.

Oregon Health & Science University

2010

Shoukhrat M. Mitalipov, Ph.D.

Oregon Health & Science University

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

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

2011

Hui Zong, Ph.D.
University of Oregon

2010

Kevin L. Winthrop, M.D.
Oregon Health & Science University

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.

2012

Medical Research Foundation Committee

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