

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



**2013 Awards Dinner**  
Discovery, Mentor and  
Richard T. Jones New Investigator

**November 14, 2013**  
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., Chair, MRF Committee

## **Special Remarks**

Dan Dorsa, Ph.D., Vice President for Research,  
Oregon Health & Science University

## **Award Presentations**

### **Richard T. Jones New Investigator Award**

Jennifer E. DeVoe, M.D.

Associate Professor, Department of Family Medicine  
Oregon Health & Science University

*Award Presented By John Saultz, M.D.*

### **Mentor Award**

Saturday Academy

*Award Presented By James Huntzicker, Ph.D.*

### **Discovery Award**

P. Andrew Karplus, Ph.D.

Professor, Department of Biochemistry and Biophysics  
Oregon State University

*Award Presented By James White, Ph.D.*

### **Discovery Award**

Eric Orwoll, Ph.D.

Professor of Medicine

Director, Oregon Clinical and Translational Research Institute  
Oregon Health & Science University

*Award Presented By David Ellison, M.D., FASN*

## 2013 Richard T. Jones New Investigator Award



### Jennifer E. DeVoe, M.D.

*Associate Professor  
Department of Family Medicine  
Oregon Health & Science University*

The Richard T. Jones New Investigator Award recognizes Jennifer E. DeVoe, M.D., a practicing family physician and health services researcher whose work on improving access to care and health outcomes for low-income populations has had a sizeable impact on health care policy in Oregon and nationwide.

Dr. DeVoe is currently an Associate Professor in the OHSU Department of Family Medicine. She also sees patients at the OHSU Gabriel Park Family Medicine Center. She is the author of more than 80 peer-review publications.

In addition to her medical practice, Dr. DeVoe serves as Executive Director of a practice-based research network of community health centers at OCHIN, a non-profit health information company that assists migrant and community health centers across the nation to adopt electronic health records. In this capacity, she has built collaborations with academic institutions, community advocacy organizations and policy centers across the United States. In 2012, OCHIN, in collaboration with Oregon Health & Science University, received a research award from the Patient-Centered Outcomes Research Institute to study "Innovative Methods for Parents and Clinics to Create Tools (IMPACCT) for Kids' Care."

Dr. DeVoe was the principal investigator on the Children's Access to Healthcare Study that informed Governor Kulongoski's Healthy Kids Initiative, and is currently an active member of the Oregon Health Research and Evaluation Collaborative. She was selected as the 2012-2014 James C. Puffer/ABFM Fellows at the Institute of Medicine.

Dr. DeVoe received her M.D. from Harvard Medical School and completed her Family Medicine residency at Oregon Health & Science University. As a Rhodes Scholar, she completed an M.Phil. and D.Phil. in Economic and Social History at the University of Oxford.

## 2013 Mentor Award



### Saturday Academy

*Portland, Oregon*

The MRF Mentor Award recognizes Saturday Academy, a non-profit organization that engages motivated young people in hands-on learning and problem solving by connecting them with community experts as instructors and mentors.

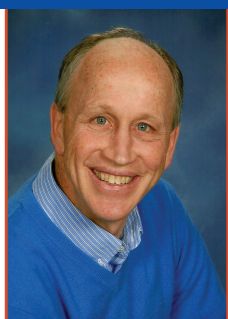
Saturday Academy inspires students and prepares them for scientific and technical careers by offering summer day camps throughout the Portland metropolitan area; after-school classes, particularly at low-income schools; and a summer high school apprenticeship program in which students conduct research in university laboratories, government agencies and technology businesses.

The culminating experience for a student is an apprenticeship through Saturday Academy's Apprenticeships in Science and Engineering program (ASE). Biomedical projects have always been a strong component of ASE, and in 2013 included: Anxiety Measures in a Mouse Model of Binge Drinking and Possible Pharmacotherapies (Portland VA Medical Center); Bio-Based Nanotechnology For Medicinal Purposes (Oregon State University); and Risk for Methamphetamine Use Involves Sensitivity to Opiates (OHSU).

In addition to the opportunity for deep learning and exposure to real-world research, Saturday Academy also creates an environment in which strong bonds form between students and their instructors and mentors. Many students return to their mentors' laboratories for additional work, and research teams strengthen their working relationships when helping a young student. Mentors also talk about how their experience working with the students rejuvenates them in their own careers.

Since its inception 30 years ago, Saturday Academy has inspired over 165,000 children in grades 2-12 to pursue their curiosity in science, technology, engineering and mathematics, including life sciences and biomedicine..

## 2013 Discovery Award



### P. Andrew Karplus, Ph.D.

*Professor,  
Department of Biochemistry and Biophysics  
Oregon State University*

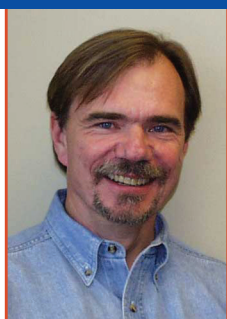
The MRF Discovery Award recognizes P. Andrew Karplus, Ph.D., whose contributions to biomedical research include landmark discoveries about the structure-function relationship of a diverse array of proteins, many of which are important to the understanding of problems in human health and agriculture.

Guided by the view that we can better understand what we can see, Dr. Karplus has focused his career on determining the three-dimensional structures of proteins, which he then weaves together with chemical and evolutionary considerations to determine how proteins carry out their functions.

He has made a number of seminal contributions to his field. A landmark discovery was the 2003 “floodgate signaling” hypothesis he developed with Leslie Poole, Ph.D., that certain peroxide-degrading enzymes known as peroxiredoxins serve as switches that control cell signaling. This hypothesis has strongly influenced research on aging, cancer, and obesity related diseases.

Dr. Karplus was Assistant and then Associate Professor of Biochemistry, Molecular and Cellular Biology at Cornell University. He was a visiting professor at Oregon State University in the mid 1990s before joining the faculty full-time as Associate Professor and then Professor of Biochemistry and Biophysics. He served as department chair from 2007-2010.

Dr. Karplus earned a B.S in Biochemistry from the University of California, Davis, a Ph.D. in Biochemistry from the University of Washington, and did his postdoctoral studies as an Alexander von Humboldt Fellow at the University of Freiburg, Germany. His lengthy bibliography includes 120 refereed primary research publications. He is a sought-after presenter and lecturer and has given close to 100 seminars and invited lectures at conferences in the U.S. and abroad.



## Eric Orwoll, M.D.

*Professor of Medicine*

*Director, Oregon Clinical and Translational Research Institute*

*Associate Dean for Clinical Sciences, School of Medicine*

*Associate Vice-President for Research*

*Oregon Health & Science University*

The MRF Discovery Award recognizes Eric Orwoll, M.D., for his outstanding contributions to investigation in disorders of bone and mineral metabolism. He is the acknowledged founder and leader of the field of osteoporosis in men.

Dr. Orwoll has broad expertise as a patient-oriented investigator and epidemiologist, and has been active in these areas in an interdisciplinary, translational research career that spans 30 years. He leads the Osteoporotic Fractures in Men Study (MrOS), which has been continuously funded by the National Institutes of Health for the past 13 years, and was recently awarded a continuation grant for another cycle. This is the largest study of the natural history of osteoporosis and fractures in men, including the effects of aging on muscle mass, quality and function – a new area of clinical research. Dr. Orwoll's work has contributed unique insights into the risk factors for bone loss and fractures, as well as to guidelines for screening and treating osteoporosis in the male population.

In addition to his accomplishments in the field of osteoporosis, Dr. Orwoll has made important contributions in other areas, including: dual energy X-ray absorptiometry (DXA) quality control; skeletal computed tomography; skeletal genetics; and the role of sex steroids in bone metabolism.

Dr. Orwoll earned a B.S. from the University of Michigan and his MD from the University of Maryland School of Medicine. He completed his residency at Providence Medical Center. He has authored more than 300 peer-reviewed articles, reviews, books and book chapters.

## Former Mentor Award Recipients

**2012**

Christopher Minson, Ph.D.  
*University of Oregon*

**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

### 2012

Joseph S. Beckman, Ph.D.  
*Oregon State University*

### 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*

### 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

**2012**

Bonnie Nagel, Ph.D.  
*Oregon Health & Science University*

**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](http://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](http://www.mrf-oregon.org).

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