

2015 RECIPIENT: RANDALL T. MOON, PH.D.

Pharmacology



Randall T. Moon is a Professor of Pharmacology, Investigator of the Howard Hughes Medical Institute as well as the William and Marilyn Conner Chair and Founding Director of the Institute for Stem Cell and Regenerative Medicine. Dr. Moon completed his B.A. degree in Biology at New College, in Sarasota, FL, his Ph.D. in Zoology at the University of Washington, and postdoctoral work in molecular biology at the California Institute of Technology. In 1985 he joined the faculty of the University of Washington.

For over 25 years Dr. Moon's laboratory has focused on Wnts, which are a family of secreted proteins that activate receptor-mediated signal transduction pathways in many cell types, including stem cells. This work has shown that cells in developing embryos, and adult stem and progenitor cells, respond to Wnts through changes in cell proliferation, cell fate, and cell behavior. Research in Dr. Moon's laboratory also suggests that inhibiting Wnt signaling might be therapeutic for several major diseases, and that activating Wnt signaling may promote regenerative responses to acute injuries. To begin to translate these and other insights into new therapies, in 2006 Dr. Moon joined with faculty colleagues Drs. Tony Blau and Chuck Murry to establish the UW Institute for Stem Cell and Regenerative Medicine.

Dr. Moon has been elected to the American Academy of Arts and Sciences and the Washington State Academy of Sciences, and is a Fellow of the American Association for the Advancement of Science. He is the recipient of a Syntex Scholar in Cardiovascular Research, a Career Development Award from the NIH, and a L.L. Temple Award from the Alzheimer's Association.

2014 RECIPIENT: BUDDY D. RATNER, PH.D.

Bioengineering



Buddy Ratner is Director of the UW Engineered Biomaterials Engineering Research Center. He holds the Michael L. and Myrna Darland Endowed Chair in Technology Commercialization and is Professor of Bioengineering and Chemical Engineering. Ratner received his Ph.D. (1972) in polymer chemistry from the Polytechnic Institute of Brooklyn. He has been at the University of Washington since 1972.

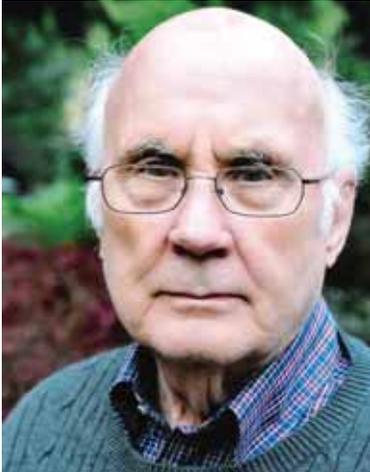
In 2002, Dr. Ratner was elected a member of the National Academy of Engineering (NAE). He has won numerous awards. A partial list includes the Medard W. Welch Award of the American Vacuum

Society (2002), Founders Award of the Society for Biomaterials (2004), C. William Hall Award from the Society for Biomaterials (2006), the BMES Pritzker Distinguished Lecturer Award (2008), the Acta Biomaterialia gold medal (2009), the University of Washington Faculty Lecture (2011), the Pierre Galletti Award from the American Institute of Medical and Biological Engineering (2011) and the George Winter Award of the European Society for Biomaterials (2012-2013).

Dr. Ratner has authored over 400 scholarly works, has over 20 issued patents and has participated in the launch of eight companies based on technologies from his laboratory. He is the lead editor for *Biomaterials Science: An Introduction to Materials in Medicine*, a textbook that has sold over 25,000 copies.

2011 RECIPIENT: ROBERT O. HICKMAN, M.D.

Oncology



Robert O. Hickman grew up in the Cache Valley of Northern Utah and received his bachelor's degree from the University of Utah. After graduate work in anatomy there, he received his medical degree from the University of Maryland, graduating with honors, and then returned to Utah for his pediatric internship. Dr. Hickman arrived in Seattle in 1958 to begin his residency, and was never to leave. His fellowship in pediatric nephrology led him to the world of Belding Scribner at a time of innovation in the fields of renal failure, dialysis, and parenteral nutrition.

In 1975 Dr. Hickman set to work to develop a double lumen catheter that could be placed percutaneously through the great veins into the right atrium, with lumens that could be used for intravenous medications; infusion of red blood cells and platelets; parenteral nutrition and hydration; and for obtaining blood samples. Further refinements of what is now widely known as the Hickman catheter included lengthening the catheter to allow it to be tunneled subcutaneously, making it less prone to infection, and producing a three-lumen version. The C.R. Bard Company licensed the Hickman catheter in 1980 and continues to market it world-wide.

Patients would say that their Hickman lines have meant more than a little difference—the pain and suffering avoided by countless oncology and transplant patients over the last 35 years are a tribute to Dr. Hickman's catheter and to his work with Belding Scribner and Don Thomas.