## August M. Watanabe

Dr. August M. Watanabe was a renowned physician, researcher, professor, entrepreneur, and venture capitalist. He was the founding Chairman of BioCrossroads, and developed the initial strategic plan that established the organization. Dr. Watanabe was Executive Vice President of Science and Technology and a member of the Board of Directors at Eli Lilly and Company from 1996 to 2003. He joined Lilly in 1990, and became President of Lilly Research Laboratories in 1994. Under his leadership, Lilly launched 11 important new pharmaceutical products. Prior to joining Lilly, Dr. Watanabe was a full-time faculty member of the Department of Medicine at the Indiana University School of Medicine from 1971 to 1990. In 1978, he became the youngest Professor of Medicine at the university, and from 1983 to 1990, he was the Chairman of the Department of Medicine. Dr. Watanabe served as co-founder of Marcadia Biotech, partner in Twilight Venture Partners, and a director of Ambrx, Endocyte, QuatRx, and Kalypsys. He was also a senior advisor to Frazier Healthcare Ventures. He also remained active in the community, serving as a director of the Indiana University Foundation, the Regenstrief Foundation, Christel House International, and the Indianapolis Symphony Orchestra. During his academic and research career, Watanabe co-authored more than 100 scientific publications and book chapters and served on the editorial boards of scholarly journals and as an officer in several national academic organizations, including the American College of Cardiology and the American Heart Association. Dr. Watanabe received his B.S. from Wheaton College and his MD from the Indiana University School of Medicine.

**The Second Annual**

# *August M. Watanabe Symposium in Biotechnology*

**Indiana University**
**Bloomington**
**Saturday, October 15, 2011**
**Chemistry 122**

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## Jon Clardy

Jon Clardy has been at Harvard Medical School since 2002 and is currently the Hsien Wu and Daisy Yen Wu Professor in the Department of Biological Chemistry and Molecular Biology. He was raised in the Virginia suburbs of Washington, DC and attended the public schools there. He received his B.S. (chemistry) from Yale College and his Ph.D. (organic chemistry) from Harvard University. He began his independent research career at Iowa State University's Department of Chemistry and spent many years at Cornell University before moving to HMS. His research has focused on the discovery of small biologically active molecules, especially from natural sources, and since his arrival at Harvard, he has become especially interested in infectious disease – antibiotic resistance and malaria. He also enjoys teaching undergraduates. He won Cornell's highest teaching award and currently teaches, along with David Liu, a popular course called *The Molecules of Life* in Harvard's General Education curriculum.

## Andrea Cochran

Cochran received her Ph.D. in 1991 from the University of California, Berkeley Department of Chemistry for research developing catalytic antibodies. During postdoctoral training at the Whitehead Institute for Biomedical Research, she studied structural aspects of transmembrane signal transduction by bacterial chemotaxis receptors. In 1996, Cochran joined the Protein Engineering Department (now Early Discovery Biochemistry Department) at Genentech, where she has remained. Her research interests focus on inhibition of medically relevant protein-protein interactions, but have included also biophysical studies of folding in short peptides, mitotic Aurora kinases and their regulators, ubiquitin ligases and deubiquinases, and structural aspects of Wnt signaling.

## Nicola Pohl

Nicola Pohl, professor of chemistry and Wilkinson Professor of Interdisciplinary Engineering, received her B.A. degree from Harvard College in 1991 and her Ph.D. in chemistry from the University of Wisconsin-Madison in 1997. Following an NIH Postdoctoral Fellowship in the Department of Chemical Engineering at Stanford University, she, like Prof. Clardy, started her independent career at Iowa State University. She is currently a member of the Departments of Chemistry and of Chemical and Biological Engineering and is a faculty member in the interdepartmental graduate program in microbiology. She was co-Chair of the 2011 Carbohydrates Gordon Research Conference and the 2010 recipient of the Horace S. Isbell Award from the Carbohydrate Division of the American Chemical Society. Her research interests include synthetic methods development for automated oligosaccharide synthesis and the study of carbohydrates in immune function. She is also actively involved in organic laboratory course curriculum reform. Professor Pohl will join the faculty at Indiana University as Carmack Chair and Professor of Chemistry in 2012.

## Douglas C. Rees

Douglas C. Rees is the Roscoe Gilkey Dickinson Professor of Chemistry at the California Institute of Technology and an Investigator of the Howard Hughes Medical Institute. He received his BS in Molecular Biophysics and Biochemistry from Yale College, working with C.W. Slayman, and his Ph.D. in Biophysics from Harvard University, where he conducted his graduate research in protein crystallography with W.N. Lipscomb. Following a postdoctoral appointment at the University of Minnesota studying nitrogenase with J.B. Howard, Dr. Rees joined the faculty of the Department of Chemistry and Biochemistry at UCLA until moving to Caltech in 1989. He is a member of the American Academy of Arts and Sciences and the National Academy of Sciences. The research interests of the Rees group emphasize the general area of structural bioenergetics, using crystallographic and functional approaches to characterize metalloproteins and membrane proteins such as nitrogenase and ABC transporters that mediate ATP-dependent energy transduction processes.