

PROFILE



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Douglas A. Lauffenburger is Ford Professor of Bioengineering and Head of the Department of Biological Engineering at MIT, and also holds appointments in the Department of Biology and the Department of Chemical Engineering. He is a member of the Biotechnology Process Engineering Center, Center for Biomedical Engineering, Center for Cancer Research, and Center for Environmental Health Sciences, and is Director of the Computational & Systems Biology Initiative.

Dr. Lauffenburger's BS and PhD degrees are in chemical engineering from the University of Illinois and the University of Minnesota, in 1975 and 1979 respectively. His major research interests are in cell engineering: the fusion of engineering with molecular cell biology. A central focus of his research program is in receptor-mediated cell communication and intracellular signal transduction, with emphasis on development of predictive computational models derived from quantitative experimental studies, for cell cue/signal/response relationships important in pathophysiology with application to drug discovery and development. Lauffenburger has coauthored a book entitled *Receptors: Models for Binding, Trafficking & Signaling*, published by Oxford University Press in 1993, and coedited another entitled *Systems Biomedicine*, published by Elsevier Press in 2010. More than 80 doctoral students and postdoctoral associates have completed their training under his supervision or co-supervision.