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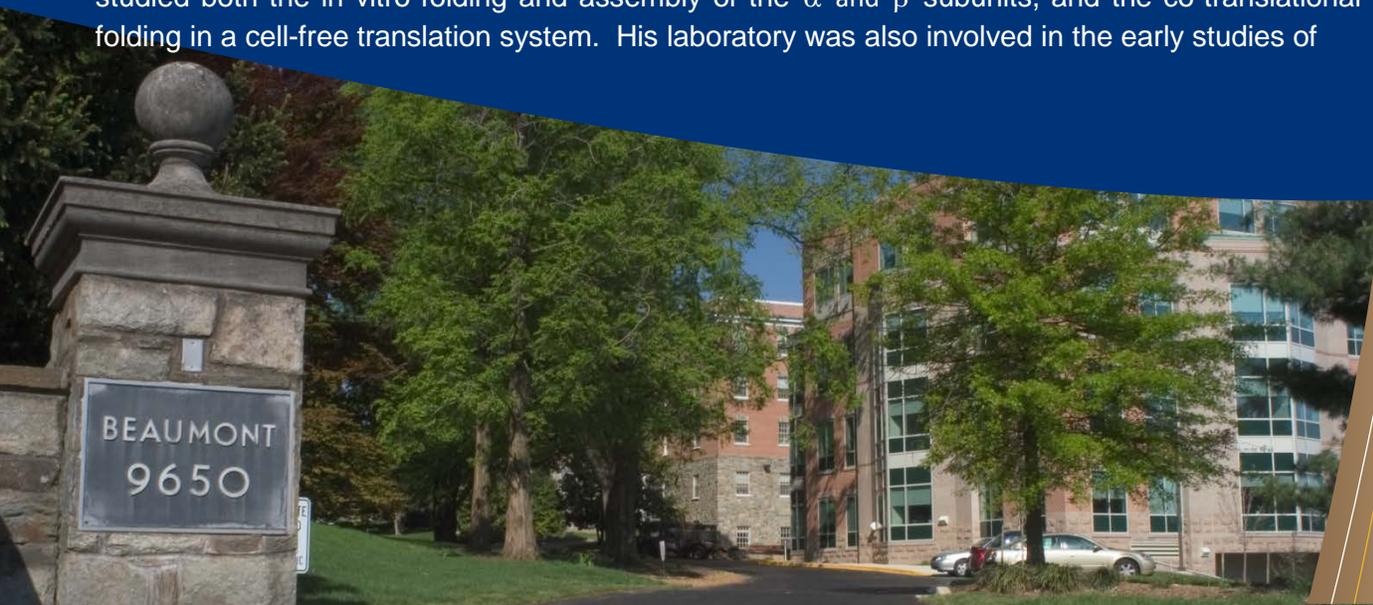
## Thomas O. Baldwin, PhD

***FASEB Board of Directors  
President***

Thomas O. Baldwin, Ph.D., is Professor of Biochemistry at the University of California, Riverside, where he served as Dean of the College of Natural and Agricultural Sciences from 2008-2012. He is Chair of the Public Outreach Committee of the American Society for Biochemistry and Molecular Biology. Dr. Baldwin represents ASBMB on the FASEB Board of Directors and serves on the FASEB Public Affairs Committee.

Dr. Baldwin received his B.S. in Chemistry in 1969 and his Ph.D. in Zoology in 1971, both from the University of Texas at Austin. He did postdoctoral work at Harvard University from 1972 until 1975, when he began his independent career as an Assistant Professor in the Biochemistry Department at the University of Illinois, Champaign-Urbana. In 1981, Dr. Baldwin joined the Department of Biochemistry and Biophysics at Texas A&M University. While at Texas A&M, Baldwin was the Founding Director of the Center for Macromolecular Design, a group of faculty representing five colleges that served as a platform to compete successfully for training and other multi-investigator grants. In 1999, Baldwin was recruited to the University of Arizona in Tucson as Professor and Head of the Department of Biochemistry and Molecular Biophysics. Shortly after arriving in Tucson, Baldwin was appointed as the founding Director of the Institute for Biomedical Science and Biotechnology, now known as the Bio5 Institute, while continuing as Head of Biochemistry and Molecular Biophysics. In 2008, Dr. Baldwin was recruited to the University of California, Riverside, as Professor of Biochemistry and Dean, College of Natural and Agricultural Sciences, a position he held for four years, returning full time to the faculty in 2013.

Dr. Baldwin's research career focused primarily on studies of the heterodimeric flavoprotein monooxygenase bacterial luciferase. His laboratory developed prototypes for clinical applications of bacterial luciferase, and following cloning of the genes encoding the luciferase subunits, applications of the cloned enzyme to monitor biological processes in vivo. Dr. Baldwin's group studied both the in vitro folding and assembly of the  $\alpha$  and  $\beta$  subunits, and the co-translational folding in a cell-free translation system. His laboratory was also involved in the early studies of





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the control of transcription of the lux operon, a system that typifies the quorum sensing phenomenon that has been described in numerous bacterial species. In collaborations with colleagues at Texas A&M and the University of Wisconsin, Baldwin's group was involved in determination of the structure of bacterial luciferase by x-ray diffraction methods, and of the kinetic mechanism of the enzyme by stopped flow methods. More recently, his group determined the structure of the enzyme-flavin complex. Throughout his career, Baldwin has maintained a keen interest in teaching at both the undergraduate and graduate levels. He was an assistant or an instructor in the Physiology Course at the Woods Hole Marine Biological Laboratory for 4 years during the summers of 1973-74 and 1976-77. At Texas A&M, he was Director of a USDA-funded National Needs Graduate Training Program in Agricultural Biotechnology and an NIH-funded Biological Chemistry Training Program. At the University of Arizona, Baldwin worked to form a collaborative arrangement among the Departments of Biochemistry and Biophysics, Chemistry, and Pharmacology that served as a platform for an interdisciplinary training program that was successful in competing for federal training grant funds. At UC Riverside, Baldwin developed a 2-quarter set of courses for graduate students that provides training in science communication. The first course focuses on oral communications to audiences of scientists, as well as non-scientists. The second course provides training in science communication, broadly defined, with the community of non-specialists, including the media, elected representatives, K12 teachers, and the business community. Throughout his time as an administrator both at the University of Arizona and at UC Riverside, Baldwin has maintained a significant presence in the undergraduate classroom.

Dr. Baldwin has served FASEB as a member of the FASEB Finance Committee (1996-1999), co-organizer of the FASEB Conference on Protein Folding in the Cell in 1994 and organizer in 1996, member (2005-2008) and chair (2006-2008) of the FASEB Journal EIC Advisory Committee, and member of the Summer Conferences Steering Committee (2002-2008). Baldwin has served ASBMB as a member of the Editorial Board of the Journal of Biological Chemistry, and a member (1998-2000) and chair (1999) of the Nominations Committee for ASBMB. He served as a member of the Public Affairs Advisory Committee for ASBMB (2007-2012), and currently serves as Chair of the newly formed Public Outreach Committee. Baldwin was also Secretary-Treasurer of the Protein Society from 1996 through 1999. Dr. Baldwin is a passionate advocate for science, for basic investigator-initiated research, and for the scientific community generally. He feels strongly that the next generation of scientists needs to be empowered not only to do outstanding science, but also to communicate the excitement, joy, and significance of scientific discovery to the lay public.

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