

The Era of Open

Philip E. Bourne, Ph.D.
Skaggs School of Pharmacy and Pharmaceutical Sciences
University of California San Diego
9500 Gilman Drive La Jolla CA 92093-0743 USA
www.sdsc.edu/pb

ABSTRACT

We are definitely in the open era. What does that mean and what does the future hold? I will provide a practitioners perspective on these questions as someone involved in running widely used biological databases, a producer of open source software and as founding editor in chief of an open access journal from the Public Library of Science (PLOS). In a nutshell it means profound change in the way educate, collaborate, disseminate and comprehend. I look forward to an open dialog as to more details of what that really means drawing on some examples from my own experiences.

BIOGRAPHY

Philip E. Bourne PhD is Associate Vice Chancellor for Innovation and Industrial Alliances, a Professor in the Department of Pharmacology and Skaggs School of Pharmacy and Pharmaceutical Sciences at the University of California San Diego, Associate Director of the RCSB Protein Data Bank and an Adjunct Professor at the Sanford Burnham Institute. Bourne's professional interests focus on relevant biological and educational outcomes derived from computation and scholarly communication. This implies algorithms, text mining, machine learning, metalanguages, biological databases, and visualization applied to problems in

systems pharmacology, evolution, cell signaling, apoptosis, immunology and scientific dissemination. He has published over 300 papers and 5 books, one of which sold over 150,000 copies. Bourne is committed to maximizing the societal benefit derived from university research. He has co-founded 4 companies: ViSoft Inc., Protein Vision Inc., a company distributing independent films for free and most recently SciVee. Bourne is committed to furthering the free dissemination of science through new models of publishing and better integration and subsequent dissemination of data and results which as far as possible should be freely available to all. He is the co-founder and founding Editor-in-Chief of the open access journal PLOS Computational Biology. Bourne is a Past President of the International Society for Computational Biology, an elected fellow of the American Association for the Advancement of Science (AAAS), the International Society for Computational Biology (ISCB) and the American Medical Informatics Association (AMIA). Awards include: the Jim Gray eScience Award (2010), the Benjamin Franklin Award (2009), the Flinders University Convocation Medal for Outstanding Achievement (2004), the Sun Microsystems Convergence Award (2002) and the CONNECT Award for new inventions (1996 & 97). Personal interests are hiking, flying and motor bikes.