

Philip E. Bourne

Skaggs School of Pharmacy and Pharmaceutical Sciences
University of California, San Diego
9500 Gilman Drive, La Jolla, CA 92093-0743
858-534-8301 (voice); 858-822-0873 (fax)
pbourne@ucsd.edu <http://www.sdsc.edu/~bourne>

Professional Preparation

The Flinders University, South Australia	Chemistry	B.Sc., 1974
The Flinders University, South Australia	Chemistry	B.Sc. (Hon), 1975
The Flinders University, South Australia	Chemistry	Ph.D., 1980

Appointments

2000- Professor, Dept. of Pharmacology, University of California, San Diego
2001-2003 Director, Integrative Biosciences, San Diego Supercomputer Center
2000 Professor in Residence, Dept. of Pharmacology, University of California, San Diego
2000- Adjunct Professor, The Keck Graduate Institute, Claremont, CA
1997- Adjunct Professor, The Burnham Institute, San Diego, CA
1996-2000 Adjunct Associate Professor, Dept. of Pharmacology, University of California, San Diego, CA
1995-1998 Senior Staff Scientist, San Diego Supercomputer Center, San Diego, CA
1987-1994 Research Scientist (Part-time), Dept. of Biochemistry & Molecular Biophysics, Columbia University, New York, NY
1987-1994 Senior Associate, Howard Hughes Medical Institute, Columbia University, New York, NY
1985-1986 Director, Basic Science Information Systems, Health Sciences Division, Columbia University, New York, NY
1984-1986 Director, Health Sciences Computer Facility, Health Sciences Division, Columbia University, New York, NY
1982-1986 Director, Cancer Center Computing Facility, Columbia University, New York, NY
1981-1982 Senior Research Associate, Columbia University, New York, NY
1981 Visiting Scientist, Adelaide University, Adelaide, South Australia
1979-1981 Post-Doctoral Fellow, Sheffield University, Sheffield, UK

Related Publications: (Recent from approx. 200 – see <http://www.sdsc.edu/pb/Pubs.html>)

H.M. Berman, K. Hendrick, H. Nakamura, J. Markley, P.E. Bourne, J. Westbrook (2007) Realism about PDB *Nature Biotechnology*, 25(8) 845-6.
H.M. Berman, et al., 2006 Archiving Structural Models of Biological Macromolecules. *Structure*, 14:1211-1217.
A. Kouranov, L. Xie, J. de la Cruz, L. Chen, J. Westbrook, P.E. Bourne and H.M. Berman 2006 The RCSB PDB Information Portal for Structural Genomics *Nucleic Acids Research*, 34 D302-5.
P.E. Bourne and A. Godzik 2007 Structural Genomics in *Bioinformatics – From Genomes to Therapies* T. Lengauer (Ed.) Wiley-VCH. p419-438.
L. Xie, J. Wang and P.E. Bourne 2007 In Silico Elucidation of the Molecular Mechanism Defining the Adverse Effect of Selective Estrogen Receptor Modulators. *PLoS Comp. Biol.*, 3(11) e217.

Significant Publications:

P.E. Bourne, H.M. Berman, B. McMahon, K. Watenpaugh, J. Westbrook and P.M.D. Fitzgerald. *Methods in Enzymology*. 1997 **277**, 571-590. The Macromolecular CIF Dictionary.

- P.E. Bourne 2005 In the Future will a Biological Database Really be Different from a Biological Journal? *PLoS Comp. Biol.* 1(3) e34.
- B. Peters, J. Sidney, P.E. Bourne, H-H Bui, S. Buus, G. Doh, W. Fleri, M. Kronenberg, R. Kubo, O. Lund, D. Nemazee, J.V. Ponomarenko, M. Sathiamurthy, S. Schoenberger, S. Stewart, P. Surko, S. Way, S. Wilson, A. Sette 2005 The Immune Epitope Database and Analysis Resource: From Vision to Blueprint. *PLoS Biology*, 3(3) e91.
- P.E. Bourne 2002 Science's Policy on Data Deposition. *Science* 296, 1609.
- J.L. Moreland, A. Gramada, O.V. Buzko and P.E. Bourne 2005 The Molecular Biology Toolkit (mbt): A Modular Platform for Developing Molecular Visualization Applications. *BMC Bioinformatics*, 6:21.

Synergistic Activities

- 2007 - UC System-wide Library & Scholarly Information Advisory Committee Standing Subcommittee on Copyright Policy
- 2006 - Advisory Board, EcoCyc
- 2006 - Advisory Board, CrossRef
- 2005 - Advisory Board, PharmGKB
- 2004- Editor-in-Chief PLoS Computational Biology
- 2004- Editor, IEEE Trends in Computational Biology and Bioinformatics
- 2003-2005 Associate Editor, Bioinformatics
- 2003-2007 Editor, Proteins: Structure Function and Bioinformatics
- 2003-2005 US National Committee for Crystallography
- 2002-2003 President, International Society for Computational Biology
- 2001- Advisory Board, Biopolymers
- 2000-2002 Editor, Bioinformatics
- 2000-2001 Secretary, International Society for Computational Biology
- 1998- Co-Director protein Data Bank (PDB)
- 1999- Provide a variety of biological resources - databases and software to the community (See <http://www.sdsc.edu/pb> for a list)
- 1994- NSF, NIH and Genome Canada review panels
- 1992- Develop a data standard for macromolecular structure data under the auspices of International Union of Crystallography (IUCr)

Collaborators and Co-Editors: Nick Alexandrov (Ceres), Patsy Babbitt (UCSF), Kim Baldrige (U of Zurich), Helen Berman (Rutgers), Fran Berman (UCSD), Peer Bork (EMBL), Steven Brenner (UC Berkeley), Soren Brunak (Copenhagen), Leo Chalupa (UC Davis), Paul Craig (RIT), Greg Dewey (KGI), Russ Doolittle (UCSD), Michael Eisen (UC Berkley), Paula Fitzgerald (Merck), Gary Gilliland (NIST), Michael Gilson (U of Maryland), David Goodsell (Scripps), Michael Gribskov (Purdue), Adam Godzik (Burnham), C. Guda (Albany), Kim Hendrick (EBI), Larry Hunter (Colorado), Haruki Nakamura (Osaka), Brian Palenik (SIO), Robert Preissner (Berlin), John Reed (Burnham), Robert Russell (EMBL), Ilya Shindyalov (SDSC), Alex Sette (LIAI), Palmer Taylor (UCSD), Susan Taylor (UCSD), John Westbrook (Rutgers), David Wild (KGI), Chris Wills (UCSD), Virgil Woods (UCSD).

Graduate Advisors and Postdoctoral Sponsors: Pauline M. Harrison (Retired), Barbara W. Low (Retired), Max R. Taylor (Retired).

Thesis Advisor and Postgraduate-Scholar Sponsor (40 Total): Kristine Briedis (UCSD), Andrew Butcher (unknown), Jo-Lan Chung (LIAI), Chris Dupont (SIO), Jenny Gu (UT Galveston), Sarah Kinnings (Leeds), Nikitas Papangelopoulos (UCSD), Eric Scheeff (Salk), Ayelet Starr (unknown), Ruben Valas (UCSD), Song Yang (UCSD).