

## John P. Overington CChem

### Current Post

Team Leader, ChEMBL and Computational Biological Chemistry, EMBL-EBI, Hinxton

### Previous Posts

2000-2008 Senior Director, Inpharmatica Ltd.  
1992-2000 Manager, Pfizer Central Research, Sandwich, UK  
1990-1992 Postdoc., Imperial Cancer Research Fund

### Education

1991 PhD, Crystallography, Birkbeck College, University of London  
1987 BSc, Chemistry, University of Bath

### Other Experience and Professional Memberships

Member of the Royal Society of Chemistry (MRSC C.Chem.), the American Chemical Society, the British Biophysical Society, the International Society for the Study of Xenobiotics, and the Society for Medicines Research (SMR).

Served as a member on the BBSRC BioScience for Industry (BSI), Biomolecular Sciences (BMS), BBSRC/EPSRC Bioinformatics, BBSRC Bioinformatics Coordination Group, the Bioinformatics and Biological Resources Fund, the Research Equipment Initiative (REI), and Small Business Initiative (SBI) panels.

Former member of the MRC Bioinformatics Training and Career Development panel.

Served as section editor for Annual Reviews in Medicinal Chemistry.

Has held Honorary Research Fellowships at the Department of Crystallography, Birkbeck College, University of London, and Department of Biochemistry and Molecular Biology, University College London, University of London.

Co-founder and Honorary Director of the 'Structure-Based Drug Design' course Virtual School for Molecular Sciences, University of Nottingham.

### Current Funding

Principle Investigator, Wellcome Trust Strategic Award to support public domain access to, and development of, medicinal chemistry and drug discovery databases.

### Recent Relevant Publications

1. J.C. Danilewicz, S.M. Abel, A.D. Brown, P.V. Fish, E. Hawkeswood, S.J. Holland, K. James, A.B. McElroy, J.P. Overington, M.J. Powling, and D.J. Rance, (2002) 'Design and synthesis of thrombin inhibitors based on a D-Phe-Pro-Arg sequence', *J. Med. Chem.*, **45**, pp. 2432-2453.
2. D. Michalovich, J.P. Overington and R. Fagan, (2002) 'Protein sequence analysis *in silico*: Application of structure-based bioinformatics to genomic initiatives. *Curr. Opin. Pharmacol.*, **2**, pp. 574-580.
3. A.J. Chalk, C.L. Worth, J.P. Overington and A.W. Chan, (2004) 'PDBLig: Classification of small molecular protein binding in the Protein Data Bank', *J. Med. Chem.* **47**, pp. 3807-3816.
4. A.L. Hopkins, J.S. Mason and J.P. Overington, (2006) 'Can we rationally design promiscuous drugs?' *Curr. Opin. Struct. Biol.*, **16**, pp. 127-136.
5. J.P. Overington, B. Al-Lazikani, and A.L. Hopkins (2006) 'How many drug targets are there?' *Nat. Rev. Drug Disc.*, **5**, 993-996.
6. B. Al-Lazikani, A. Gaulton, G. Paolini, J. Lanfear, J.P. Overington & A. Hopkins, (2007) 'The Molecular Basis of Predicting Druggability', in *Chemical Biology*, ed: G. Wess & S. Schreiber, Wiley
7. Agüero, F, Al-Lazikani, B, Aslett, M, Berriman, M, Buckner, FS, Campbell, RK, Carmona, S, Carruthers, IM, Chan, AWE, Chen, F, Crowther, GJ, Hertz-Fowler, C, Hopkins, AL, McAllister, G, Nwaka, S, Overington, JP, Pain, A, Paolini, GV, Pieper, U, Ralph, SA, Riechers, A, Roos, DS, Sali, A, Shanmugam, D, Suzuki, T, Van Voorhis, WC, Verlinde, CL. (2008) "Genomic-scale Prioritisation of Drug Targets: TDRtargets.org". *Nat. Rev. Drug. Discov.*, **7** pp. 900-7.
8. Berriman M, Haas BJ, LoVerde PT, Wilson RA, Dillon GP, Cerqueira GC, Mashiyama ST, Al-Lazikani B, Andrade LF, Ashton PD, Aslett MA, Bartholomeu DC, Blandin G, Caffrey CR, Coghlan A, Coulson R, Day TA, Delcher A, DeMarco R, Djikeng A, Eyre T, Gamble JA, Ghedin E, Gu Y, Hertz-Fowler C, Hirai H, Hirai Y, Houston R, Ivens A, Johnston DA, Lacerda D, Macedo CD, McVeigh P, Ning Z, Oliveira G, Overington JP, Parkhill J, Pertea M, Pierce RJ, Protasio AV, Quail MA, Rajandream MA, Rogers J, Sajid M, Salzberg SL, Stanke M, Tivey AR, White O, Williams DL, Wortman J, Wu W, Zamanian M, Zerlotini A, Fraser-Liggett CM, Barrell BG, El-Sayed NM. "The Genome of the Blood Fluke *Schistosoma mansoni*"(2009), *Nature*. **460** pp. 352-358.
9. Overington J, "ChEMBL. An interview with John Overington, team leader, chemogenomics at the European Bioinformatics Institute Outstation of the European Molecular Biology Laboratory (EMBL-EBI). Interview by Wendy A. Warr", (2009) *J. Comput. Aided Mol. Des.* 2009 **23**, pp. 195-198.

