

**John E. Ladbury**

Date of Birth 19.11.1960

[http://faculty.mdanderson.org/John\\_Ladbury/](http://faculty.mdanderson.org/John_Ladbury/)**EDUCATION AND RESEARCH CAREER**

M. D. Anderson Cancer Center, University of Texas, Department of Biochemistry & Molecular Biology, Houston, Texas, USA, 2008-Present

**Endowed Chair - Edward Rotan Distinguished Professor in Cancer Research**  
**Director of the Center for Biomolecular Structure and Function**

University College London, Department of Biochemistry & Molecular Biology, London, UK, 1996-2008

**Deputy Chair of Department of Biochemistry & Molecular Biology** (2006-2008)

**Head of Biophysics and Director of the Biophysics Centre - Institute for Structural Molecular Biology** (2004-2008). **Professor of Molecular Biophysics** (2003-2008)

**Wellcome Trust Senior Research Fellow** (1998-2003) **Renewed** (2003-2008)

University of Oxford, Oxford Centre for Molecular Sciences, Oxford, UK, 1994-95.

**Wellcome Trust Research Career Development Fellow** (1994-98)

**Junior Research Fellow – Somerville College.**

New York University Medical Center, Department of Pharmacology, New York, USA, 1994. **Scientific Research Associate.**

Harvard University Medical School, Department of Biological Chemistry and Molecular Pharmacology, Boston, USA, 1993-94. **Post-Doctoral Research Fellow.**

Yale University, Departments of Chemistry and Molecular Biophysics & Biochemistry, New Haven, USA 1990-93.

**National Institutes of Health Post-Doctoral Research Associate.**

University of Greenwich, School of Biological and Chemical Sciences, London, UK, 1984-90.

**Ministry of Defence Graduate Research Fellow - Ph.D. "Thermally Conducting Polymers"**  
**M.Sc. in Chemical Analysis .**

University of London, Goldsmiths College, London, UK, 1979-82.

**B.Sc. with Honours in Chemistry and Physics.**

**Awards** – Pfizer Academic Travel Award 1997-98; Royal Society Travel Fellowship 1998. Member of the Royal Society of Chemistry (1998-present). Ministry of Defence Ph.D. Scholarship

*Dr. George W. Raiziss Seminar, U.of Pennsylvania* (2008)

**Editorial Boards** – Journal of Molecular Biology - Editor (2004), Biochemical Journal (2004) – Deputy Chair (2007), Faculty of 1000 – Faculty Member (2001)

**Committee Membership** –

Committee of British Biophysical Society (Treasurer 2006-2008)

Molecules, Genes and Cells Funding Committee – Wellcome Trust (2006-2008)

Committee Referee - Italian Ministry for Education University and Research (MIUR)

Executive Committee of the Institute for Structural Molecular Biology (2003-2008)

Committee of the London Structural Biology Consortium (2005-2008)

IUPAC Project Committee – "*Database for Thermodynamic Property Data Storage*" (current)

**Additional Qualifications** –

**Diploma in Management Studies – 1984-87** (with Distinction and Dun and Bradstreet Presentation Prize for Company Analysis) and **Certified Diploma in Accounting and Finance - 1988** from the Polytechnic of Central London (London School of Management)

**PROFESSIONAL AFFILIATIONS**

American Association for the Advancement of Science, Biochemical Society, Biophysical Society, British Biophysical Society (Committee Member 2003 – 2008; Treasurer (2006 – 2008), Chartered Association of Certified Accountants, Royal Society of Chemistry (MRSC, CChem., CSci.), Society of the Chemical Industry (Former Secretary of London Section)

**FIVE PUBLICATIONS OF NOTE (out of a total of 130 articles reviews and chapters)**

**Ladbury, J. E.**, Lemmon, M. A., Zhou, M., Green, J., Botfield, M. C., & Schlessinger, J. (1995)

Measurement of the binding of tyrosyl-phosphopeptides to SH2 domains: A reappraisal. *Proceedings of the National Academy of Sciences USA*. **92**, 3199-3203. (185 citations)

Tame, J. R. H., Sleight, S. H., Wilkinson, A. J., & **Ladbury, J. E.** (1996) The role of water in sequence-independent ligand binding by an oligopeptide transporter protein. *Nature Structural Biology* **3**, 998-1001. (68)

**Ladbury, J. E.** (1996) Just add water! The effect of water on the specificity of protein-ligand binding sites with applications to drug design. *Chemistry & Biology* **3**, 973-980. (166)

Bergqvist, S., Williams, M. A., O'Brien, R., & **Ladbury, J. E.** (2004) Heat capacity effects of water molecules and ions at a protein-DNA interface. *Journal of Molecular Biology* **336**, 829-842. (50)

Olsson, T. S. G., Williams, M. A., Pitt W. R. & **Ladbury, J. E.** (2008)

The thermodynamics of protein-ligand interaction and solvation: insights for ligand design. *Journal of Molecular Biology* **384**, 1002-1017. (16) ("**Recommended**" - Faculty of 1000)

.