



Department of Biochemistry & Molecular Biology
2006 RESEARCH PUBLICATIONS

Journal Articles/Book Chapters/Refereed Conference Papers

1. Adams, V., **I.S. Lucet**, **F.E. Tynan**, M. Chiarezza, P.M. Howarth, J. Kim, **J. Rossjohn**, D. Lyras, and J.I. Rood, *Two distinct regions of the large serine recombinase TnpX are required for DNA binding and biological function*. Mol Microbiol, 2006. **60**(3): p. 591-601.
 Category: Biochemistry & Molecular Biology **Impact Factor: 6.203** Ranking: 33/261

2. **Allingham, P.G.**, **G.R. Brownlee**, G.S. Harper, **M. Pho**, S.K. Nilsson, and **T.J. Brown**, *Gene expression, synthesis and degradation of hyaluronan during differentiation of 3T3-L1 adipocytes*. Arch Biochem Biophys, 2006. **452**(1): p. 83-91.
 Category: Biophysics **Impact Factor: 3.152** Ranking: 19/65

3. **Alvisi, G.**, **P. IK**, and **D.A. Jans**, *Tumor-specific nuclear targeting: Promises for anti-cancer therapy?* Drug Resist Updat, 2006. **9**(1-2): p. 40-50.
 Category: Pharmacology & Pharmacy **Impact Factor: 6.172** Ranking: 11/193

4. **Alvisi, G.**, **D.A. Jans**, and A. Ripalti, *Human Cytomegalovirus (HCMV) DNA Polymerase Processivity Factor ppUL44 Dimerizes in the Cytosol before Translocation to the Nucleus*. Biochemistry, 2006. **45**(22): p. 6866-6872.
 Category: Biochemistry & Molecular Biology **Impact Factor: 3.848** Ranking: 72/261

5. Anakk, S., W. Huang, J.L. Staudinger, K. Tan, **T.J. Cole**, D.D. Moore, and H.W. Strobel, *Gender dictates the nuclear receptor mediated regulation of CYP3A4*. Drug Metab Dispos, 2006. **E-Pub**.
 Category: Pharmacology & Pharmacy **Impact Factor: 4.015** Ranking: 27/193

6. Aoki, C.A., C.M. Roifman, Z.X. Lian, C.L. Bowlus, G.L. Norman, Y. Shoenfeld, **I.R. Mackay**, and M. Eric Gershwin, *IL-2 receptor alpha deficiency and features of primary biliary cirrhosis*. J Autoimmun, 2006. **27**(1): p. 50-53.
 Category: Immunology **Impact Factor: 2.491** Ranking: 53/115

7. **Archbold, J.K.**, **W.A. Macdonald**, J.J. Miles, R.M. Brennan, L. Kjer-Nielsen, J. McCluskey, S.R. Burrows, and **J. Rossjohn**, *Alloreactivity between disparate cognate and allogeneic pMHC-I complexes is resultant of highly focused, peptide-dependent structural mimicry*. J Biol Chem, 2006. **281**(45): p. 34324-34332.
 Category: Biochemistry & Molecular Biology **Impact Factor: 5.854** Ranking: 38/261

8. **Arthur, J.F.**, **Y. Shen**, F.T. Mu, C. Leon, C. Gachet, **M.C. Berndt**, and **R.K. Andrews**, *Calmodulin interacts with the platelet ADP receptor P2Y 1*. Biochem J, 2006. **398**(3): p. 339-343.
 Category: Biochemistry & Molecular Biology **Impact Factor: 4.224** Ranking: 62/261

9. **Astle, M.V.**, **G. Seaton**, **E.M. Davies**, **C.G. Fedele**, **P. Rahman**, **L. Arsala**, and **C.A. Mitchell**, *Regulation of phosphoinositide signaling by the inositol polyphosphate 5-phosphatases*. IUBMB Life, 2006. **58**(8): p. 451-6.
 Category: Biochemistry and Molecular Biology **Impact Factor: 2.116** Ranking: 149/261

10. Atkin, J., M. Farg, B. Turner, D. Tomas, J. Lysaght, J. Nunan, A. Rembach, **P. Nagley**, P. Beart, S. Cheema, and M. Horne, *Induction of the unfolded protein response in familial amyotrophic lateral sclerosis and association of protein disulfide isomerase with superoxide dismutase 1*. J Biol Chem, 2006. **E-Pub**.
Category: Biochemistry & Molecular Biology **Impact Factor: 5.854** Ranking: 38/261

11. Autelitano, D.J., A. Rajic, **A.I. Smith**, **M.C. Berndt**, L.L. Ilag, and M. Vadas, *The cryptome: a subset of the proteome, comprising cryptic peptides with distinct bioactivities*. Drug Discov Today, 2006. **11**(7-8): p. 306-14.
Category: Pharmacology & Pharmacy **Impact Factor: 7.755** Ranking: 8/193

12. **Azari, M.F.**, C. Profyris, T. Karnezis, C.C. Bernard, **D.H. Small**, S.S. Cheema, E. Ozturk, **I. Hatzinisiriou**, and **S. Petratos**, *Leukemia Inhibitory Factor Arrests Oligodendrocyte Death and Demyelination in Spinal Cord Injury*. J Neuropathol Exp Neurol, 2006. **65**(9): p. 914-929.
Category: Pathology **Impact Factor: 4.471** Ranking: 3/66

13. Baran, K., A. Ciccone, C. Peters, H. Yagita, **P.I. Bird**, J.A. Villadangos, and J.A. Trapani, *Cytotoxic T lymphocytes from cathepsin B-deficient mice survive normally in vitro and in vivo after encountering and killing target cells*. J Biol Chem, 2006. **E-Pub**.
Category: Biochemistry & Molecular Biology **Impact Factor: 5.854** Ranking: 38/261

14. **Beckham, S.A.**, **R.H. Law**, P.M. Smooker, **N.S. Quinsey**, C.R. Caffrey, J.H. McKerrow, **R.N. Pike**, and T.W. Spithill, *Production and processing of a recombinant Fasciola hepatica cathepsin B-like enzyme (FhcatB1) reveals potential processing mechanisms in the parasite*. Biol Chem, 2006. **387**(8): p. 1053-61.
Category: Biochemistry and Molecular Biology **Impact Factor: 2.577** Ranking: 115/261

15. **Beckman, M.**, R.M. Holsinger, and **D.H. Small**, *Heparin activates beta-secretase (BACE1) of Alzheimer's disease and increases autocatalysis of the enzyme*. Biochemistry, 2006. **45**(21): p. 6703-14.
Category: Biochemistry & Molecular Biology **Impact Factor: 3.848** Ranking: 72/261

16. **Berndt, M.C.**, S.L. Cranmer, and **R.K. Andrews**, *Filamin A interaction with GPIIb/IIIa: the platelet shapes up*. Blood, 2006. **107**(5): p. 1745.
Category: Hematology **Impact Factor: 10.131** Ranking: 2/60

17. Boylan, B., **M.C. Berndt**, M.L. Kahn, and P.J. Newman, *Activation-independent, antibody-mediated removal of GPVI from circulating human platelets: Development of a novel NOD/SCID mouse model to evaluate the in vivo effectiveness of anti-human platelet agents*. Blood, 2006. **108**(3): p. 908-14.
Category: Hematology **Impact Factor: 10.131** Ranking: 2/60

18. Bromfield, K.M., **N.S. Quinsey**, P.J. Duggan, and **R.N. Pike**, *Approaches to selective peptidic inhibitors of factor xa*. Chem Biol Drug Des, 2006. **68**(1): p. 11-9.
Category: Biochemistry & Molecular Biology **Impact Factor: 1.741** ranking: 176/261

19. **Bushell, S.R., S.P. Bottomley, J. Rossjohn, and T. Beddoe**, *Tracking the unfolding pathway of a multi-repeat protein via tryptophan scanning: Evidence of localised instability in the mitochondrial import receptor TOM70*. *J Biol Chem*, 2006. **281**(34): p. 24345-24350.
Category: Biochemistry & Molecular Biology **Impact Factor: 5.854** Ranking: 38/261

20. **Buzza, M.S. and P.I. Bird**, *Extracellular granzymes: current perspectives*. *Biol Chem*, 2006. **387**(7): p. 827-37.
Category: Biochemistry & Molecular Biology **Impact Factor: 2.577** Ranking: 115/261

21. **Buzza, M.S.**, P. Hosking, and **P.I. Bird**, *The granzyme B inhibitor, PI-9, is differentially expressed during placental development and up-regulated in hydatidiform moles*. *Placenta*, 2006. **27**(1): p. 62-9.
Category: Developmental Biology **Impact Factor: 2.883** Ranking: 16/33

22. **Cabrita, L.D., W. Dai, and S.P. Bottomley**, *A family of E. coli expression vectors for laboratory scale and high throughput soluble protein production*. *BMC Biotechnol*, 2006. **6**(1): p. 12.
Category: Biotechnology & Applied Microbiology **Impact Factor: 3.054** Ranking: 27/139

23. **Chan, H.-W.**, A. Jenkins, L. Pipolo, R.D. Hannan, **W.G. Thomas**, and N.J. Smith, *Effect of dominant-negative epidermal growth factor receptors on cardiomyocyte hypertrophy*. *J Recept Signal Transduct Res*, 2006. **26**(5-6): p. 659-77.
Category: Biochemistry & Molecular Biology **Impact Factor: 2.00** Ranking: 158/261

24. **Chan, W.-C.**, N.J. Smith, R.D. Hannan, and W.G. Thomas, *Tackling the EGFR in pathological tissue remodelling*. *Pul Pharm Therap*, 2006. **19**(1): p. 74-78.
Category: Pharmacology & Pharmacy **Impact Factor: 1.577** Ranking: 113/193

25. Chen, V.M., J. Ahamed, H.H. Versteeg, **M.C. Berndt**, W. Ruf, and P.J. Hogg, *Evidence for Activation of Tissue Factor by an Allosteric Disulfide Bond*. *Biochemistry*, 2006. **45**(39): p. 12020-12028.
Category: Biochemistry & Molecular Biology **Impact Factor: 3.848** Ranking: 72/261

26. **Chow, M., A. Amin, K. Fulton, T. Fernando, L. Kamau, C. Batty, M. Louca, S. Ho, J. Whisstock, S. Bottomley, and A. Buckle**, *The REFOLD database: a tool for the optimization of protein expression and refolding*. *Nuc Acid Res*, 2006. **34**(Database issue): p. D207-D212.
Category: Biochemistry & Molecular Biology **Impact Factor: 7.552** Ranking: 24/261

27. **Chow, M., A. Ellisdon, L.D. Cabrita, and S.P. Bottomley**, *Purification of polyglutamine proteins*, in *Methods in Enzymology - Amyloid, Prions and Other Protein Aggregates, Part C*. 2006, Academic Press: United States of America. p. 1-19.

28. Clarke, C., S. Kuruppu, S. Reeve, **A. Ian Smith**, and W.C. Hodgson, *Oxylepitoxin-1, a reversible neurotoxin from the venom of the inland taipan (Oxyuranus microlepidotus)*. *Peptides*, 2006. **27**(11): p. 2655-60.
Category: Pharmacology & Pharmacy **Impact Factor: 2.231** Ranking: 76/193

29. Classen, C.F., **P.I. Bird**, and K.M. Debatin, *Modulation of the granzyme B inhibitor proteinase inhibitor 9 (PI-9) by activation of lymphocytes and monocytes in vitro and by Epstein-Barr virus and bacterial infection*. Clin Exp Immunol, 2006. **143**(3): p. 534-42.
Category: Immunology **Impact Factor: 2.805** Ranking: 46/115
30. **Clements, C.S., M.A. Dunstone, W.A. Macdonald**, J. McCluskey, and **J. Rossjohn**, *Specificity on a knife-edge: the alphabeta T cell receptor*. Curr Opin Struct Biol, 2006. **E-Pub**.
Category: Biochemistry & Molecular Biology **Impact Factor: 9.559** Ranking: 16/261
31. **Cole, T.J.**, *Glucocorticoid action and the development of selective glucocorticoid receptor ligands*, in *Biotechnology Annual Review*. 2006, Elsevier BV: Netherlands. p. 269-300.
32. Cristiano, B.E., **J.C. Chan**, K.M. Hannan, N.A. Lundie, N.J. Marmy-Conus, I.G. Campbell, W.A. Phillips, M. Robbie, R.D. Hannan, and **R.B. Pearson**, *A specific role for AKT3 in the genesis of ovarian cancer through modulation of G2-M phase transition*. Cancer Research, 2006. **66**(4): p. 11718-11725.
Category: Oncology **Impact Factor: 7.616** Ranking: 11/123
33. Day, B.W., F.M. Smith, K. Chen, J.K. McCarron, N.I. Herath, **M. Lackmann**, and A.W. Boyd, *Eph/Ephrin Membrane Proteins: A Mammalian Expression Vector pTlg-BOS-Fc Allowing Rapid Protein Purification*. Protein Pept Lett, 2006. **13**(2): p. 193-6.
Category: Biochemistry & Molecular Biology **Impact Factor: 0.840** Ranking: 226/261
34. Denham, M., **T.J. Cole**, and **R. Mollard**, *Embryonic stem cells form glandular structures and express surfactant protein C following culture with dissociated fetal respiratory tissue*. Am J Physiol Lung Cell Mol Physiol, 2006. **290**(6): p. L1210-L1215.
Category: Respiratory System **Impact Factor: 3.939** Ranking: 6/33
35. Denham, M., T. Huynh, M. Dottori, G. Allen, A. Trounson, and **R. Mollard**, *Neural stem cells express non-neural markers during embryoid body coculture*. Stem Cells, 2006. **24**(4): p. 918-27.
Category: Biotechnology & Applied Microbiology **Impact Factor: 6.094** Ranking: 7/139
36. **Ellisdon, A., B. Thomas**, and **S.P. Bottomley**, *The 2-stage pathway of ataxin-3 fibrillogenesis involves a polyglytamine-independent step*. J Biol Chem, 2006. **281**(25): p. 16888-16896.
Category: Biochemistry & Molecular Biology **Impact Factor: 5.854** Ranking: 38/261
37. **Ely, L.K., T. Beddoe, C.S. Clements**, J.M. Matthews, A.W. Purcell, L. Kjer-Nielsen, J. McCluskey, and **J. Rossjohn**, *Disparate thermodynamics governing T cell receptor-MHC-I interactions implicate extrinsic factors in guiding MHC restriction*. Proc Natl Acad Sci U S A, 2006. **103**(17): p. 6641-6646.
Category: Multidisciplinary Sciences **Impact Factor: 10.231** Ranking: 3/48
38. Estella, E., M.D. McKenzie, T. Catterall, V.R. Sutton, **P.I. Bird**, J.A. Trapani, T.W. Kay, and H.E. Thomas, *Granzyme B-Mediated Death of Pancreatic {beta}-Cells Requires the Proapoptotic BH3-Only Molecule Bid*. Diabetes, 2006. **55**(8): p. 2212-2219.
Category: Endocrinology & Metabolism **Impact Factor: 8.028** Ranking: 3/89

39. **Fenalti, G.**, C.S. Hampe, **K. O'Connor**, J.P. Banga, **I.R. Mackay**, **M.J. Rowley**, and O. El-Kabbani, *Molecular characterization of a disease associated conformational epitope on GAD65 recognised by a human monoclonal antibody b96.11*. Mol Immunol, 2006. **44**(6): p. 1178-1189.
Category: Immunology **Impact Factor: 4.307** Ranking: 19/115
40. Figueiredo, A., K. Moore, **J. Mak**, N. Sluis-Cremer, M.-P. de Bethune, and G. Tachedjian, *Potent nonnucleoside reverse transcriptase inhibitors target HIV-1 Gag-Pol*. PLOS Pathogen, 2006. **2**(11): p. 1-9.
Category: Not Listed **Impact Factor: Not Listed** Ranking: Not Listed
41. Forwood, J.K. and **D.A. Jans**, *Quantitative analysis of DNA-protein interactions using double-labeled native gel electrophoresis and fluorescence-based imaging*. Electrophoresis, 2006. **27**(16): p. 3166-3170.
Category: Chemistry, Analytical **Impact Factor: 3.850** Ranking: 3/70
42. **Gillard, A.**, **K. Scarff**, K.L. Loveland, S.D. Ricardo, and **P.I. Bird**, *Modulation and Redistribution of Proteinase Inhibitor 8 (Serpinb8) during Kidney Regeneration*. Am J Nephrol, 2006. **26**(1): p. 34-42.
Category: Urology & Nephrology **Impact Factor: 2.459** Ranking: 13/51
43. Goffin, L., S. Vodala, C. Fraser, J. Ryan, M. Timms, S. Meusburger, B. Catimel, E.C. Nice, P.A. Silver, C.Y. Xiao, **D.A. Jans**, and M.J. Gething, *The Unfolded Protein Response Transducer Ire1p Contains a Nuclear Localization Sequence Recognized by Multiple {beta} Importins*. Mol Biol Cell, 2006. **17**(12): p. 5309-5323.
Category: Cell Biology **Impact Factor: 6.520** Ranking: 23/153
44. Groop, L., T. Tuomi, **M. Rowley**, P. Zimmet, and **I.R. Mackay**, *Latent autoimmune diabetes in adults (LADA)-more than a name*. Diabetologia, 2006. **49**(9): p. 1996-1998.
Category: Endocrinology & Metabolism **Impact Factor: 5.337** Ranking: 10/89
45. Hawkes, D. and **J. Mak**, *Lipid membrane, a novel target for viral and bacterial pathogens*. Curr Drug Tar, 7(12): p. 1615-1621.
Category: Pharmacology & Pharmacy **Impact Factor: 4.398** Ranking: 24/193
46. **Hearps, A.C.** and **D.A. Jans**, *HIV-1 integrase is capable of targeting DNA to the nucleus via an importin alpha/beta dependent mechanism*. Biochem J, 2006. **398**(3): p. 475-484.
Category: Biochemistry and Molecular Biology **Impact Factor: 4.224** Ranking: 62/261
47. Hennebry, S.C., **R.H. Law**, S.J. Richardson, **A.M. Buckle**, and **J.C. Whisstock**, *The Crystal Structure of the Transthyretin-like Protein from Salmonella dublin, a Prokaryote 5-Hydroxyisourate Hydrolase*. J Mol Biol, 2006. **359**(5): p. 1389-99.
Category: Biochemistry & Molecular Biology **Impact Factor: 5.229** Ranking: 43/261
48. **Hettiarachchi, K.D.** and **M.A. Myers**, *Dietary Vacuolar - ATPase inhibitors as an environmental 'trigger' of type 1 diabetes*, in *Focus on Diabetes Mellitus Research*. 2006, Nova Science Publishers Inc: Hauppauge, NY, USA. p. 310.

49. **Hettiarachchi, K.D.**, P.Z. Zimmet, and **M.A. Myers**, *The plecomacrolide vacuolar-ATPase inhibitor bafilomycin, alters insulin signaling in MIN6 beta-cells*. *Cell Biol Toxicol*, 2006. **22**(3): p. 169-181.
Category: Cell Biology **Impact Factor: 1.548** Ranking: 116/153
50. **Hettiarachchi, K.D.**, **P.Z. Zimmet**, and **M.A. Myers**, *The effects of repeated exposure to sub-toxic doses of plecomacrolide antibiotics on the endocrine pancreas*. *Food Chem Toxicol*, 2006. **E-Pub**.
Category: Food Science and Technology **Impact Factor: 2.047** Ranking: 9/93
51. **Hilliard, L.M.**, **T.M. Osicka**, S.P. Clavant, P.J. Robinson, D.J. Nikolic-Paterson, and **W.D. Comper**, *Characterization of the urinary albumin degradation pathway in the isolated perfused rat kidney*. *J Lab Clin Med*, 2006. **147**(1): p. 36-44.
Category: Medical Laboratory Technology **Impact Factor: 2.023** Ranking: 7/23
52. **Hoare, H.L.**, L.C. Sullivan, G. Pietra, **C.S. Clements**, E.J. Lee, **L.K. Ely**, **T. Beddoe**, M. Falco, L. Kjer-Nielsen, **H.H. Reid**, J. McCluskey, L. Moretta, **J. Rossjohn**, and A.G. Brooks, *Structural basis for a major histocompatibility complex class Ib-restricted T cell response*. *Nat Immunol*, 2006. **7**(3): p. 256-264.
Category: Immunology **Impact Factor: 27.011** Ranking: 3/115
53. **Hou, X.**, H.C. Parkington, H.A. Coleman, A. Mechler, L.L. Martin, **M.I. Aguilar**, and **D.H. Small**, *Transthyretin oligomers induce calcium influx via voltage-gated calcium channels*. *J Neurochem*, 2006. **E-Pub**.
Category: Neurosciences **Impact Factor: 4.604** Ranking: 28/200
54. **Hubner, S.**, **J.E. Eam**, **K.M. Wagstaff**, and **D.A. Jans**, *Quantitative analysis of localization and nuclear aggregate formation induced by GFP-lamin A mutant proteins in living HeLa cells*. *J Cell Biochem*, 2006. **98**(4): p. 810-826.
Category: Biochemistry & Molecular Biology **Impact Factor: 3.591** Ranking: 79/261
55. Huntington, N.D., R. Tomioka, C. Clavarino, A.M. Chow, D. Linares, P. Mana, **J. Rossjohn**, T.G. Cachero, F. Qian, S.L. Kalled, C.C. Bernard, and **H.H. Reid**, *A BAFF antagonist suppresses experimental autoimmune encephalomyelitis by targeting cell-mediated and humoral immune responses*. *Int Immunol*, 2006. **18**(10): p. 1473-1485.
Category: Immunology **Impact Factor: 3.317** Ranking: 34/115
56. Irie, J., Y. Wu, L. Wicker, D. Rainbow, M. Nalesnik, R. Hirsch, L. Peterson, P. Leung, C. Cheng, **I.R. Mackay**, M. Gershwin, and W. Ridgway, *NOD.c3c4 congenic mice develop autoimmune biliary disease that serologically and pathogenetically models human primary biliary cirrhosis*. *Jrnl Exp Med*, 2006. **203**(5): p. 1209-1219.
Category: Medical Research and Experiment **Impact Factor: 13.965** Ranking: 3/72
57. Janssen, K., T.G. Hofmann, **D.A. Jans**, R.T. Hay, K. Schulze-Osthoff, and U. Fischer, *Apoptin is modified by SUMO conjugation and targeted to promyelocytic leukemia protein nuclear bodies*. *Oncogene*, 2006. **E-Pub**.
Category: Oncology **Impact Factor: 6.872** Ranking: 12/123
58. **Kaiserman, D.**, **C.H. Bird**, **J. Sun**, **A. Matthews**, **K. Ung**, **J.C. Whisstock**, P.E. Thompson, J.A. Trapani, and **P.I. Bird**, *The major human and mouse granzymes are structurally and functionally divergent*. *J Cell Biol*, 2006. **175**(4): p. 619-30.
Category: Cell Biology **Impact Factor: 10.951** Ranking: 12/153

59. **Kaiserman, D., J.C. Whisstock,** and **P.I. Bird,** *Mechanisms of Serpin dysfunction in disease.* Exp Rev Mol Med, 2006. **8**(31): p. 1-19.
Category: Not Listed **Impact Factor: Not Listed** Ranking: Not Listed
60. Kjer-Nielsen, L., **N.A. Borg,** D.G. Pellicci, **T. Beddoe,** L. Kostenko, **C.S. Clements,** N.A. Williamson, M.J. Smyth, G.S. Besra, **H.H. Reid,** M. Bharadwaj, D.I. Godfrey, **J. Rossjohn,** and J. McCluskey, *A structural basis for selection and cross-species reactivity of the semi-invariant NKT cell receptor in CD1d/glycolipid recognition.* J Exp Med, 2006. **203**(3): p. 661-673.
Category: Immunology **Impact Factor: 13.965** Ranking: 5/115
61. **Konagurthu, A.S.** and P.J. Stuckey, *Optimal sum-of-pairs multiple sequence alignment using incremental Carrillo and Lipman bounds.* J Comput Biol, 2006. **13**(3): p. 668-85.
Category: Mathematics, Interdisciplinary Applications **Impact Factor: 2.446** Ranking: 4/76
62. Konagurthu, A.S., **J.C. Whisstock,** P.J. Stuckey, and **A.M. Lesk,** *MUSTANG: A multiple structural alignment algorithm.* Proteins, 2006. **E-Pub.**
Category: Biochemistry & Molecular Biology **Impact Factor: 4.684** Ranking: 49/261
63. **Kong, A.M., K.A. Horan, A. Sriratana,** C.G. Bailey, **L.J. Collyer, H.H. Nandurkar,** A. Shisheva, M.J. Layton, J.E. Rasko, **T. Rowe,** and **C.A. Mitchell,** *Phosphatidylinositol 3-Phosphate [PtdIns(3)P] Is Generated at the Plasma Membrane by an Inositol Polyphosphate 5-Phosphatase: Endogenous PtdIns(3)P Can Promote GLUT4 Translocation to the Plasma Membrane.* Mol Cell Biol, 2006. **26**(16): p. 6065-81.
Category: Biochemistry & Molecular Biology **Impact Factor: 7.093** Ranking: 27/261
64. **Law, R.H., Q. Zhang, S. McGowan, A.M. Buckle,** G.A. Silverman, **W. Wong, C.J. Rosado, C.G. Langendorf, R.N. Pike, P.I. Bird,** and **J.C. Whisstock,** *An overview of the serpin superfamily.* Genome Biol, 2006. **7**(5): p. 216.
Category: Biotechnology & Applied Microbiology **Impact Factor: 9.712** Ranking: 4/139
65. **Lee, T.-H.** and **M.I. Aguilar,** *Trends in the development and application of functional biomembrane surfaces,* in *Biotechnology Annual Review.* 2006, Elsevier BV: Netherlands. p. 85-136.
66. **Lew, R.A., F.J. Warner, I. Hanchapola,** and **A.I. Smith,** *Characterization of angiotensin converting enzyme-2 (ACE2) in human urine.* Inter J Peptide Res Thera formerly Letters in Peptide Science, 2006. **12**(3): p. 283-289.
Category: Biochemistry & Molecular Biology **Impact Factor: 0.406** Ranking: 248/261
67. **Lim, M.,** B. Chen, P. Beart, and **P. Nagley,** *Relative timing of redistribution of cytochrome c and Smac/DIABLO from mitochondria during apoptosis assessed by double immunocytochemistry on mammalian cells.* Exp Cell Res, 2006. **312**(7): p. 1174-1184.
Category: Oncology **Impact Factor: 4.148** Ranking: 31/123
68. Lister, K., D.J. Autelitano, A. Jenkins, **R.D. Hannan,** and K.E. Sheppard, *Cross talk between corticosteroids and alpha-adrenergic signalling augments cardiomyocyte hypertrophy: a possible role for SGK1.* Cardiovasc Res, 2006. **70**(3): p. 555-65.
Category: Cardiac & Cardiovascular Systems **Impact Factor: 5.283** Ranking: 5/72

69. Liu, J., M.E.C. Fitzgerald, **M.C. Berndt**, C.W. Jackson, and T. Kent Gartner, *Bruton's tyrosine kinase is essential for botrocetin/vWF-induced signalling and GPIb-dependent thrombus formation in vivo*. *Blood*, 2006. **108**(8): p. 2596-2603.
Category: Hematology **Impact Factor: 10.131** Ranking: 2/60
70. **Losic, D.**, L.L. Martin, **M.I. Aguilar**, and **D.H. Small**, *{beta}-Amyloid fibril formation is promoted by step edges of highly oriented pyrolytic graphite*. *Biopolymers*, 2006. **84**(5): p. 519-526.
Category: Biochemistry & Molecular Biology **Impact Factor: 2.545** Ranking: 117/261
71. **Losic, D.**, L.L. Martin, A. Mechler, **M.I. Aguilar**, and **D.H. Small**, *High resolution scanning tunnelling microscopy of the beta-amyloid protein (Abeta1-40) of Alzheimer's disease suggests a novel mechanism of oligomer assembly*. *J Struct Biol*, 2006. **155**(1): p. 104-110.
Category: Biochemistry & Molecular Biology **Impact Factor: 3.490** Ranking: 82/261
72. **Lucet, I.S.**, E. Fantino, M. Styles, R. Bamert, O. Patel, S.E. Broughton, M. Walter, C.J. Burns, H. Treutlein, A.F. Wilks, and **J. Rossjohn**, *The structural basis of Janus kinase 2 inhibition by a potent and specific pan-Janus kinase inhibitor*. *Blood*, 2006. **107**(1): p. 176-83.
Category: Hematology **Impact Factor: 10.131** Ranking: 2/60
73. **Mackay, I.R.**, *Genetic susceptibility to chronic hepatitis B virus infection*. *Jnl Gastro Hept*, 2006. **21**(7): p. 1087-1088.
Category: Gastroenterology & Hepatology **Impact Factor: 1.718** Ranking: 28/46
74. **Mackay, I.R.**, *History of immunology in Australia: events and identities*. *Inter Med Jnl*, 2006. **36**(6): p. 394-398.
Category: Medicine, General and Internal **Impact Factor: 1.518** Ranking: 35/105
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