

DEPARTMENT OF BIOCHEMISTRY & MOLECULAR BIOLOGY

2005 Research Publications Journal Papers

1. **Aguilar**, M.I. and D.H. **Small**, *Surface plasmon resonance for the analysis of {beta}-amyloid interactions and fibril formation of Alzheimer's disease research*. Neurotox Res, 2005. **7**(1-2): p. 17-27.
Category: Not listed **Impact Factor: Not listed** Ranking: Not listed
2. **Alvisi**, G., D.A. **Jans**, J. Guo, L.A. Pinna, and A. Ripalti, *A Protein Kinase CK2 Site Flanking the Nuclear Targeting Signal Enhances Nuclear Transport of Human Cytomegalovirus ppUL44*. Traffic, 2005. **6**(11): p. 1002-13.
Category: Cell Biology **Impact Factor: 7.186** Ranking: 22/155
3. Amin, A.A., N.G. **Faux**, G. **Fenalti**, G. **Williams**, A. Bernadou, B. Daglish, K. Keefe, S. Middleton, J. Rae, K. Tetis, R.H. **Law**, K.F. **Fulton**, J. **Rossjohn**, J.C. **Whisstock**, and A.M. **Buckle**, *Managing and mining protein crystallization data*. Proteins, 2005. **62**(1): p. 4-7.
Category: Biochemistry and Molecular Biology **Impact Factor: 4.429**
Ranking: 53/111
4. **Amirahmadi**, S.F., S. **Whittingham**, D.E. **Crombie**, K.S. Nandakumar, R. Holmdahl, I.R. **Mackay**, M.P. **van Damme**, and M.J. **Rowley**, *Arthritogenic anti-type II collagen antibodies are pathogenic for cartilage-derived chondrocytes independent of inflammatory cells*. Arthritis Rheum, 2005. **52**(6): p. 1897-906.
Category: Rheumatology **Impact Factor: 7.414** Ranking: 1/22
5. Arthur, J.F., E.E. **Gardiner**, M. Matzaris, S.G. **Taylor**, L. **Wijeyewickrema**, Y. Ozaki, M.L. Kahn, R.K. **Andrews**, and M.C. **Berndt**, *Glycoprotein VI is associated with GPIb-IX-V on the membrane of resting and activated platelets*. Thromb Haemost, 2005. **93**(4): p. 716-23.
Category: Hematology **Impact Factor: 3.413** Ranking: 15/62
6. **Azari**, M.F., T. Karnezis, C.C. Bernard, C. Profyris, M.R. Legrande, D.W. Zang, S.S. Cheema, and S. **Petratos**, *Incomplete Freund's adjuvant enhances locomotor performance following spinal cord injury*. Eur J Neurol, 2005. **12**(12): p. 1004-8.
Category: Clinical Neurology **Impact Factor: 2.225** Ranking: 47/140
7. **Azari**, M.F., C. Profyris, M.R. Le Grande, E.C. Lopes, J. Hirst, S. **Petratos**, and S.S. Cheema, *Effects of intraperitoneal injection of Rofecoxib in a mouse model of ALS*. Eur J Neurol, 2005. **12**(5): p. 357-64.
Category: Clinical Neurology **Impact Factor: 2.225** Ranking: 47/140

8. **Azari, M.F., C. Profyris, D.W. Zang, S. Petratos, and S.S. Cheema, *Induction of endogenous neural precursors in mouse models of spinal cord injury and disease.* Eur J Neurol, 2005. **12**(8): p. 638-48.**
Category: Clinical Neurology **Impact Factor: 2.225** Ranking: 47/140

9. **Bird, C.H., J. Sun, K. Ung, D. Karambalis, J.C. Whisstock, J.A. Trapani, and P.I. Bird, *Cationic sites on granzyme B contribute to cytotoxicity by promoting its uptake into target cells.* Mol Cell Biol, 2005. **25**(17): p. 7854-67.**
Category: Biochemistry & Molecular Biology **Impact Factor: 7.822** Ranking: 22/261

10. Blanchfield, J.T., R.A. **Lew, A.I. Smith, and I. Toth, *The stability of lipidic analogues of GnRH in plasma and kidney preparations: the stereoselective release of the parent peptide.* Bioorg Med Chem Lett, 2005. **15**(6): p. 1609-12.**
Category: Chemistry - Medicinal **Impact Factor: 2.333** Ranking: 9/36

11. Blink, E.J., Z. Jiansheng, W. Hu, S.T. Calanni, J.A. Trapani, P.I. **Bird, and D.A. Jans, *Interaction of the nuclear localizing cytolytic granule serine protease granzyme B with importin alpha or beta: modulation by the serpin inhibitor PI-9.* J Cell Biochem, 2005. **95**(3): p. 598-610.**
Category: Biochemistry and Molecular Biology **Impact Factor: 2.946** Ranking: 101/261

12. **Borg, N.A., L.K. Ely, T. Beddoe, W.A. Macdonald, H.H. Reid, C.S. Clements, A.W. Purcell, L. Kjer-Nielsen, J.J. Miles, S.R. Burrows, J. McCluskey, and J. Rossjohn, *The CDR3 regions of an immunodominant T cell receptor dictate the 'energetic landscape' of peptide-MHC recognition.* Nat Immunol, 2005. **6**(2): p. 171-80.**
Category: Immunology **Impact Factor: 27.586** Ranking: 3/111

13. Bottazzo, G.F., E. Bosi, C.A. Cull, E. Bonifacio, M. Locatelli, P. Zimmet, I.R. **Mackay, and R.R. Holman, *IA-2 antibody prevalence and risk assessment of early insulin requirement in subjects presenting with type 2 diabetes (UKPDS 71).* Diabetologia, 2005. **48**(4): p. 703-8.**
Category: Endocrinology and Metabolism **Impact Factor: 5.583** Ranking: 12/87

14. **Boyd, S.E., R.N. Pike, G.B. Rudy, J.C. Whisstock, and M. Garcia de la Banda, *PoPS: a computational tool for modeling and predicting protease specificity.* J Bioinform Comput Biol, 2005. **3**(3): p. 551-85.**
Category: Not given **Impact Factor: Not given** Ranking: Not given

15. Boyle, K., M.F. **Azari, S.S. Cheema, and S. Petratos, *TNFalpha mediates Schwann cell death by upregulating p75(NTR) expression without sustained activation of NFkappaB.* Neurobiol Dis, 2005. **20**(2): p. 412-427.**
Category: Neurosciences **Impact Factor: 4.389** Ranking: 32/198

16. Boyle, K., M.F. **Azari**, C. Profyris, and S. **Petratos**, *Molecular mechanisms in Schwann cell survival and death during peripheral nerve development, injury and disease*. Neurotox Res, 2005. **7**(1-2): p. 151-67.
Category: Not listed **Impact Factor: Not listed** Ranking: Not listed

17. Buckle, A.M., G.L. **Devlin**, R.A. Jodun, K.F. **Fulton**, N. **Faux**, J.C. **Whisstock**, and S.P. **Bottomley**, *The matrix refolded*. Nat Methods, 2005. **2**(1): p. 3.
Category: Biochemical Research Methods **Impact Factor: Not given** Ranking: 51/51

18. Burrows, S.R., J. **Rossjohn**, and J. McCluskey, *Have we cut ourselves too short in mapping CTL epitopes?* Trends Immunol, 2005. **E-Pub**.
Category: Immunology **Impact Factor: 13.975** Ranking: 6/111

19. **Buxton**, P., G. Tachedjian, and J. **Mak**, *Analysis of the contribution of reverse transcriptase and integrase proteins to retroviral RNA dimer conformation*. J Virol, 2005. **79**(10): p. 6338-48.
Category: Virology **Impact Factor: 5.398** Ranking: 3/22

20. **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: 2.683** Ranking: 13/33

21. **Buzza**, M.S., L. Zamurs, J. **Sun**, C.H. **Bird**, A.I. **Smith**, J.A. Trapani, C.J. Froelich, E.C. Nice, and P.I. **Bird**, *Extracellular matrix remodeling by human granzyme B via cleavage of vitronectin, fibronectin, and laminin*. J Biol Chem, 2005. **280**(25): p. 23549-58.
Category: Biochemistry and Molecular Biology **Impact Factor: 6.355** Ranking: 31/261

22. **Caly**, L., B. Wang, M. Mikhail, M.J. Gill, B. Beckthold, M. Salemi, D.A. **Jans**, S.C. Piller, and N.K. Saksena, *Evidence for Host-Driven Selection of the HIV Type 1 vpr Gene in Vivo during HIV Disease Progression in a Transfusion-Acquired Cohort*. AIDS Res Hum Retroviruses, 2005. **21**(8): p. 728-33.
Category: Immunology **Impact Factor: 2.375** Ranking: 49/111

23. Cappai, R., S.L. Leck, D.J. Tew, N.A. Williamson, D.P. Smith, D. Galatis, R.A. Sharples, C.C. Curtain, F.E. Ali, R.A. Cherny, J.G. Culvenor, S.P. **Bottomley**, C.L. Masters, K.J. Barnham, and A.F. Hill, *Dopamine promotes alpha-synuclein aggregation into SDS-resistant soluble oligomers via a distinct folding pathway*. Faseb J, 2005. **19**(10): p. 1377-9.
Category: Biochemistry and Molecular Biology **Impact Factor: 6.820** Ranking: 29/261

24. **Chow**, M.K., A.A. Amin, K.F. **Fulton**, J.C. **Whisstock**, A.M. **Buckle**, and S.P. **Bottomley**, *REFOLD: An analytical database of protein refolding methods*. Protein Expr Purif, 2005. **E-Pub - September 2005**.
Category: Biochemical Research Methods **Impact Factor: 1.336** Ranking: 35/51
25. **Clavant**, S.P., S.A. **Sastra**, T.M. **Osicka**, and W.D. **Comper**, *The analysis and characterisation of immuno-unreactive urinary albumin in healthy volunteers*. Clin Biochem, 2005. **E-Pub - December 2005**.
Category: Medical Laboratory Technology **Impact Factor: 1.731** Ranking: 8/24
26. Clements, C.S., L. Kjer-Nielsen, L. Kostenko, H.L. **Hoare**, M.A. **Dunstone**, E. Moses, K. Freed, A.G. Brooks, J. **Rossjohn**, and J. McCluskey, *Crystal structure of HLA-G: a nonclassical MHC class I molecule expressed at the fetal-maternal interface*. Proc Natl Acad Sci U S A, 2005. **102**(9): p. 3360-5.
Category: Multidisciplinary Sciences **Impact Factor: 10.452** Ranking: 3/45
27. **Clements**, C.S., L. Kjer-Nielsen, L. Kostenko, J. McCluskey, and J. **Rossjohn**, *The production, purification and crystallization of a soluble form of the nonclassical MHC HLA-G: the essential role of cobalt*. Acta Crystallographics Section F, 2005. **E-Pub**: p. 70-73.
Category: Not Listed **Impact Factor: Not Listed** Ranking: Not Listed
28. **Cole**, T.J., D.R. Liddicoat, and D.I. Godfrey, *Intrathymic glucocorticoid production and thymocyte survival: another piece in the puzzle*. Endocrinology, 2005. **146**(6): p. 2499-500.
Category: Endocrinology and Metabolism **Impact Factor: 5.151** Ranking: 14/87
29. **Comper**, W.D. and T.M. **Osicka**, *Detection of urinary albumin*. Adv Chronic Kidney Dis, 2005. **12**(2): p. 170-6.
Category: Urology and Nephrology **Impact Factor: Not given** Ranking: 52/52
30. **Crombie**, D.E., I.R. **Mackay**, B.R. Wood, D. McNaughton, and M.J. **Rowley**, *Images of Interest: Hepatobiliary and pancreatic: Liver histopathology: Fourier transform infrared microspectroscopic imaging for objective and quantifiable assessment of liver biopsies*. J Gastroenterol Hepatol, 2005. **20**(3): p. 485.
Category: Gastroenterology & Hepatology **Impact Factor: 1.796** Ranking: 23/46
31. **Crombie**, D.E., M. **Turer**, B.B. **Zuasti**, B. Wood, D. McNaughton, K.S. Nandakumar, R. Holmdahl, M.P. **Van Damme**, and M.J. **Rowley**, *Destructive effects of murine arthritogenic antibodies to type II collagen on cartilage explants in vitro*. Arthritis Res Ther, 2005. **7**(5): p. R927-37.
Category: Rheumatology **Impact Factor: 4.55** Ranking: 2/22

32. Dai, K., R. Bodnar, M.C. **Berndt**, and X. Du, *A critical role for 14-3-3{zeta} protein in regulating the VWF binding function of platelet glycoprotein Ib-IX and its therapeutic implications*. *Blood*, 2005. **106**(6): p. 1975-81.
Category: Hematology **Impact Factor: 9.782** Ranking: 3/62
33. Davis, T.M.E., A.D. Wright, Z.M. Mehta, C.A. Cull, I.M. Stratton, G.F. Bottazzo, E. Bosi, I.R. **Mackay**, and R.R. Holman, *Islet autoantibodies in clinically diagnosed type 2 diabetes: prevalence and relationships with metabolic control (UKPDS 70)*. *Diabetologia*, 2005. **48**(4): p. 695-702.
Category: Endocrinology and Metabolism **Impact Factor: 5.583** Ranking: 12/87
34. Day, B., C. **To**, J.P. Himanen, F.M. Smith, D.B. Nikolov, A.W. Boyd, and M. **Lackmann**, *Three distinct molecular surfaces in ephrin-A5 are essential for a functional interaction with EphA3*. *J Biol Chem*, 2005. **280**(28): p. 26526-32.
Category: Biochemistry and Molecular Biology **Impact Factor: 6.355**
Ranking: 31/261
35. **Devlin**, G.L. and S.P. **Bottomley**, *A protein family under 'stress' - serpin stability, folding and misfolding*. *Front Biosci*, 2005. **10**(1): p. 288-99.
Category: Biochemistry and Molecular Biology **Impact Factor: 3.226**
Ranking: 88/261
36. **Dyson**, J.M., A.M. **Kong**, F. **Wiradjaja**, M.V. **Astle**, R. **Gurung**, and C.A. **Mitchell**, *The SH2 domain containing inositol polyphosphate 5-phosphatase-2: SHIP2*. *Int J Biochem Cell Biol*, 2005. **37**(11): p. 2260-5.
Category: Biochemistry and Molecular Biology **Impact Factor: 3.578**
Ranking: 77/261
37. **Ely**, L.K., K.J. Green, T. **Beddoe**, C.S. **Clements**, J.J. Miles, S.P. **Bottomley**, D. Zernich, L. Kjer-Nielsen, A.W. Purcell, J. McCluskey, J. **Rossjohn**, and S.R. Burrows, *Antagonism of antiviral and allogeneic activity of a human public CTL clonotype by a single altered peptide ligand: implications for allograft rejection*. *J Immunol*, 2005. **174**(9): p. 5593-601.
Category: Immunology **Impact Factor: 6.486** Ranking: 11/111
38. **Ely**, L.K., L. Kjer-Nielsen, J. McCluskey, and J. **Rossjohn**, *Structural Studies on the alphabeta T-cell Receptor*. *IUBMB Life*, 2005. **57**(8): p. 575-82.
Category: Biochemistry and Molecular Biology **Impact Factor: 1.744**
Ranking: 166/261
39. **Faux**, N.G., S.P. **Bottomley**, A.M. **Lesk**, J.A. **Irving**, J.R. Morrison, M.G. de la Banda, and J.C. **Whisstock**, *Functional insights from the distribution and role of homopeptide repeat-containing proteins*. *Genome Res*, 2005. **15**(4): p. 537-51.
Category: Biotechnology and Applied Microbiology **Impact Factor: 10.382**
Ranking: 3/133

40. **Fodero-Tavoletti, M.T., M.P. Hardy, B. Cornell, F. Katsis, C.M. Sadek, C.A. Mitchell, B.E. Kemp, and T. Tiganis**, *Protein tyrosine phosphatase hPTPN20a is targeted to sites of actin polymerization*. *Biochem J*, 2005. **389**(Pt 2): p. 343-54.
Category: Biochemistry and Molecular Biology **Impact Factor: 4.278**
Ranking: 57/261
41. **Fulton, K.F., A.M. Buckle, L.D. Cabrita, J.A. Irving, R.E. Butcher, A.I. Smith, S. Reeve, A.M. Lesk, S.P. Bottomley, J. Rossjohn, and J.C. Whisstock**, *The high resolution crystal structure of a native thermostable serpin reveals the complex mechanism underpinning the stressed to relaxed transition*. *Jrnl Biol Chem*, 2005. **280**(9): p. 8435-8442.
Category: Biochemistry & Molecular Biology **Impact Factor: 6.355** Ranking: 31/261
42. **Fulton, K.F., G.L. Devlin, R.A. Jodun, L. Silvestri, S.P. Bottomley, A.R. Fersht, and A.M. Buckle**, *PFDB: a database for the investigation of protein folding kinetics and stability*. *Nucleic Acids Res*, 2005. **33**(Database issue): p. D279-83.
Category: Biochemistry and Molecular Biology **Impact Factor: 7.260**
Ranking: 27/261
43. **Galic, S., C. Hauser, B.B. Kahn, F.G. Haj, B.G. Neel, N.K. Tonks, and T. Tiganis**, *Coordinated regulation of insulin signaling by the protein tyrosine phosphatases PTP1B and TCPTP*. *Mol Cell Biol*, 2005. **25**(2): p. 819-29.
Category: Biochemistry and Molecular Biology **Impact Factor: 7.822**
Ranking: 22/261
44. **Gardiner, E.E., J.F. Arthur, M.C. Berndt, and R.K. Andrews**, *Role of calmodulin in platelet receptor function*. *Curr Med Chem Cardiovasc Hematol Agents*, 2005. **3**(4): p. 283-7.
Category: Not Listed **Impact Factor: Not Listed** Rankin: Not Listed
45. **Gavin, P.D., M. Prescott, and R.J. Devenish**, *F1FO-ATP synthase complex interactions in vivo can occur in the absence of the dimer specific subunit e*. *J Bioenerg Biomembr*, 2005. **37**(2): p. 55-66.
Category: Biophysics **Impact Factor: 2.180** Ranking: 28/64
46. Ghildyal, R., A. Ho, K.M. **Wagstaff, M.M. Dias, C.L. Barton, P. Jans, P. Bardin, and D.A. Jans**, *Nuclear Import of the Respiratory Syncytial Virus Matrix Protein Is Mediated By Importin beta1 Independent of Importin alpha*. *Biochemistry*, 2005. **44**(38): p. 12887-12895.
Category: Biochemistry and Molecular Biology **Impact Factor: 4.008**
Ranking: 65/261

47. **Gianello, R., R. Libinaki, A. Azzi, P.D. Gavin, Y. Negis, J.M. Zingg, P. Holt, H.H. Keah, A. Griffey, A. Smallridge, S.M. West, and E. Ogru, *alpha-Tocopheryl phosphate: A novel, natural form of vitamin E*. Free Radic Biol Med, 2005. **39**(7): p. 970-6.**
Category: Biochemistry and Molecular Biology **Impact Factor: 5.625**
Ranking: 40/261
48. Glover, D.J. and D.A. **Jans, *Non-viral gene therapy - Strategies for safe and sustained therapeutic gene expression in humans*. BIO-Forum, 2005. **5**(2-4): p. 35-37.**
Category: Not Listed **Impact Factor: Not Listed** Ranking: Not Listed
49. Glover, D.J., H.J. Lipps, and D.A. **Jans, *Towards safe, non-viral therapeutic gene expression in humans*. Nat Rev Genet, 2005. **6**(4): p. 299-310.**
Category: Genetics and Heredity **Impact Factor: 21.329** Ranking: 2/120
50. Godfrey, D.I., J. McCluskey, and J. **Rossjohn, *CD1d antigen presentation: treats for NKT cells*. Nat Immunol, 2005. **6**(8): p. 754-6.**
Category: Immunology **Impact Factor: 27.586** Ranking: 3/111
51. **Hansen, T.M., D.J. Smith, and P. Nagley, *Smac/DIABLO is not released from mitochondria during apoptotic signalling in cells deficient in cytochrome c*. Cell Death Differ, 2005. **E-Pub - October 2005**.**
Category: Biochemistry and Molecular Biology **Impact Factor: 8.192**
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52. Hart, A.J., A.I. **Smith, S. Reeve, and W.C. Hodgson, *Isolation and characterisation of acanmyotoxin-2 and acanmyotoxin-3, myotoxins from the venom of the death adder Acanthophis sp. Seram*. Biochem Pharmacol, 2005. **70**(12): p. 1807-1813.**
Category: Pharmacology and Pharmacy **Impact Factor: 3.436** Ranking: 38.187
53. Hastings, A.F., G. Otting, R.H. Folmer, I.G. Duggin, R.G. Wake, M.C. **Wilce, and J.A. Wilce, *Interaction of the replication terminator protein of Bacillus subtilis with DNA probed by NMR spectroscopy*. Biochem Biophys Res Commun, 2005. **335**(2): p. 361-366.**
Category: Biochemistry and Molecular Biology **Impact Factor: 2.904**
Ranking: 103/261
54. Hill, M., G. Tachedjian, and J. **Mak, *The packaging and maturation of the HIV-1 pol proteins*. Curr HIV Res, 2005. **3**(1): p. 73-85.**
Category: Immunology **Impact Factor: 1.571** Ranking: 78/111

55. Hogarth, C., C. Itman, D.A. **Jans**, and K.L. Loveland, *Regulated nucleocytoplasmic transport in spermatogenesis: a driver of cellular differentiation?* Bioessays, 2005. **27**(10): p. 1011-1025.
Category: Biochemistry and Molecular Biology **Impact Factor: 6.430**
Ranking: 30/261
56. Hogarth, C.A., S. Calanni, D.A. **Jans**, and K.L. Loveland, *Importin alpha mRNAs have distinct expression profiles during spermatogenesis.* Dev Dyn, 2005. **E-Pub - October 2005**.
Category: Anatomy & Morphology **Impact Factor: 2.868** Ranking: 2/16
57. Horvath, A.J., J.A. **Irving**, J. **Rosjohn**, R.H. **Law**, S.P. **Bottomley**, N.S. **Quinsey**, R.N. **Pike**, P.B. Coughlin, and J.C. **Whisstock**, *The murine orthologue of human antichymotrypsin: A structural paradigm for clade A3 serpins.* J Biol Chem, 2005. **280**(52): p. 43168-43178.
Category: Biochemistry & Molecular Biology **Impact Factor: 6.355** Ranking: 31/261
58. **Hou**, X., S.J. Richardson, M.I. **Aguilar**, and D.H. **Small**, *Binding of amyloidogenic transthyretin to the plasma membrane alters membrane fluidity and induces neurotoxicity.* Biochemistry, 2005. **44**(34): p. 11618-27.
Category: Biochemistry & Molecular Biology **Impact Factor: 4.008** Ranking: 65/261
59. Hu, W., B.E. Kemp, and D.A. **Jans**, *Kinetic properties of nuclear transport conferred by the retinoblastoma (Rb) NLS.* J Cell Biochem, 2005. **95**(4): p. 782-93.
Category: Biochemistry and Molecular Biology **Impact Factor: 2.946**
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60. **Hubner**, S., J.E. **Eam**, A. **Hubner**, and D.A. **Jans**, *Laminopathy-inducing lamin A mutants can induce redistribution of lamin binding proteins into nuclear aggregates.* Exp Cell Res, 2005. **E-Pub - November 2005**: p. 171-183.
Category: Oncology **Impact Factor: 4.007** Ranking: 29/123
61. Invernizzi, P., C. Selmi, I.R. **Mackay**, M. Podda, and M.E. Gershwin, *From bases to basis: linking genetics to causation in primary biliary cirrhosis.* Clin Gastroenterol Hepatol, 2005. **3**(5): p. 401-10.
Category: Not given **Impact Factor: Not given** Ranking: Not given
62. **Ivetac**, I., A.D. **Munday**, M.V. Kisseleva, X.M. **Zhang**, S. Luff, T. **Tiganis**, J.C. **Whisstock**, T. **Rowe**, P.W. Majerus, and C.A. **Mitchell**, *The type Ialpha inositol polyphosphate 4-phosphatase generates and terminates phosphoinositide 3-kinase signals on endosomes and the plasma membrane.* Mol Biol Cell, 2005. **16**(5): p. 2218-33.
Category: Cell Biology **Impact Factor: 7.517** Ranking: 20/155

63. **Janes**, P.W., N. Saha, W.A. Barton, M.V. Kolev, S.H. **Wimmer-Kleikamp**, E. **Nievergall**, C.P. Blobel, J.P. Himanen, M. **Lackmann**, and D.B. Nikolov, *Adam Meets Eph: An ADAM Substrate Recognition Module Acts as a Molecular Switch for Ephrin Cleavage In trans*. *Cell*, 2005. **123**(2): p. 291-304.
Category: Biochemistry and Molecular Biology **Impact Factor: 28.389**
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64. Jones, K.L. and J. **Mak**, *Innate immunity and intracellular trafficking: insights for novel anti-HIV-1 therapeutics*. *Curr Pharma*, 2005. **3**(2): p. 97-117.
Category: Not given **Impact Factor: Not given** Ranking: Not given
65. Judge, R.K., P.J. Henry, P. Mirtschin, G. Jelinek, and J.A. **Wilce**, *Toxins not neutralized by brown snake antivenom*. *Toxicol Appl Pharmacol*, 2005. **E-Pub - October 2005**.
Category: Pharmacology and Pharmacy **Impact Factor: 2.618** Ranking 52/187
66. **Kaiserman**, D. and P.I. **Bird**, *Analysis of vertebrate genomes suggests a new model for clade B serpin evolution*. *BMC Genomics*, 2005. **6**(1): p. 167.
Category: Biotechnolog and Applied Microbiology **Impact Factor: 3.250**
Ranking: 23/133
67. Kamimori, H., J. Blazyk, and M.I. **Aguilar**, *Lipid membrane-binding properties of tryptophan analogues of linear amphipathic beta-sheet cationic antimicrobial peptides using surface plasmon resonance*. *Biol Pharm Bull*, 2005. **28**(1): p. 148-50.
Category: Pharmacology and Pharmacy **Impact Factor: 1.392** Ranking: 115/187
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Category: Biochemistry and Molecular Biology **Impact Factor: 2.370**
Ranking: 126/261
69. Kamimori, H., S. **Unabia**, W.G. Thomas, and M.I. **Aguilar**, *Evaluation of the membrane-binding properties of the proximal region of the angiotensin II receptor (AT1A) carboxyl terminus by surface plasmon resonance*. *Anal Sci*, 2005. **21**(2): p. 171-4.
Category: Chemistry, Analytical **Impact Factor: 1.051** Ranking: 46/70
70. **Kennedy**, N.J., T.W. Spithill, J. Tennent, P.R. Wood, and D. **Piedrafita**, *DNA vaccines in sheep: CTLA-4 mediated targeting and CpG motifs enhance immunogenicity in a DNA prime/protein boost strategy*. *Vaccine*, 2005. **E-Pub - November 2005**.
Category: Immunology **Impact Factor: 2.824** Ranking: 38/111

71. **Kerr, F.K., G. O'Brien, N.S. Quinsey, J.C. Whisstock, S. Boyd, M. Garcia de la Banda, D. Kaiserman, A.Y. Matthews, P.I. Bird, and R.N. Pike**, *Elucidation of the substrate specificity of the C1s protease of the classical complement pathway*. J Biol Chem, 2005. **280**(47): p. 39510-39514.
Category: Biochemistry and Molecular Biology **Impact Factor: 6.355**
Ranking: 31/261
72. **Kerr, M.L. and D.H. Small**, *Cytoplasmic domain of the {beta}-amyloid protein precursor of Alzheimer's disease: function, regulation of proteolysis, and implications for drug development*. J Neurosci Res, 2005. **80**(2): p. 151-59.
Category: Neurosciences **Impact Factor: 3.727** Ranking: 45/198
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