

SCHOOL OF BIOMEDICAL SCIENCES
BIOCHEMISTRY & MOLECULAR BIOLOGY RESEARCH PUBLICATIONS
to 30 June 2011

1. **Aguilar, M.I.** and Purcell, A.W., *Peptide based vaccines: from discovery to application*. *Curr Opin Mol Therapeu* 2011. **112**(6): p. 1552-1561 Category: Medicine, Research & Experimental **Impact Factor: 4.023** Ranking: 22/106 **[BCH]**
2. Ali, F., **Rowley, M.J., Jayakrishnan, B.**, Teuber, S., Gershwin, M.E., and **Mackay, I.R.**, *Stiff-person Syndrome (SPS) and anti-GAD-related CNS Degenerations: Protean Additions to the Autoimmune Central Neuropathies*. *J Autoimm* 2011. **E-pub**: p. 1-9 Category: Immunology **Impact Factor: 8.136** Ranking: 12/134 **[BCH]**
3. Alonzo III, F., Xayarath, B., **Whisstock, J.C.**, and Freitag, N.E., *Functional analysis of the *Listeria monocytogenes* secretion chaperone PrsA2 and its multiple contributions to bacterial virulence*. *Mol Microbiol* 2011. **E-pub**: p. 1-19 Category: Biochemistry & Molecular Biology **Impact Factor: 4.819** Ranking: 60/286 **[BCH]**
4. Ang, C.S., Rothacker, J., Patsiouras, H., Gibbs, P., Burgess, A.W., and **Nice, E.C.**, *Use of multiple reaction monitoring for multiplex analysis of colorectal cancer-associated proteins in human feces*. *Electrophoresis* 2011. **E-pub**: p. 1-13 Category: Biochemical Research Methods **Impact Factor: 3.569** Ranking: 21/71 **[BCH]**
5. **Astle, M.V., Ooms, L.M.**, Cole, A.R., **Binge, L.C., Dyson, J.M., Layton, M.J.**, Petratos, S., Sutherland, C., and **Mitchell, C.A.**, *Identification of a proline-rich inositol polyphosphate 5-phosphatase (PIPP): collapsin response mediator protein 2 (CRMP2) complex that regulates neurite elongation*. *J Biol Chem* 2011. **E-pub**: p. 1-24 Category: Biochemistry & Molecular Biology **Impact Factor: 5.328** Ranking: 50/286 **[BCH]**
6. **Aydin, I., Dimitropoulos, A.**, Chen, S.H., Thomas, C., and **Roujeinikova, A.**, *Purification, crystallization and preliminary X-ray crystallographic analysis of the putative *Vibrio parahaemolyticus* resuscitation-promoting factor YeaZ*. *ACTA Crystall F* 2011. **F67**(5): p. 604-607 Category: Biochemistry & Molecular Biology **Impact Factor: 0.563** Ranking: 272/286 **[BCH,MICRO]**
7. Barwell, J., Gingell, J.J., Watkins, H.A., **Archbold, J.K.**, Poyner, D.R., and Hay, D.L., *Calcitonin and calcitonin receptor-like receptors: common themes with family B GPCRs?* *Br J Pharmacol* 2011. **E-pub**: p. 1-53 Category: Pharmacology & Pharmacy **Impact Factor: 4.925** Ranking: 19/249 **[BCH]**
8. **Beddoe, T.**, Brooks, A.G., and **Rossjohn, J.**, *NEWS & COMMENTARY: How opposites attract*. *Immunol Cell Biol* 2011. **89**(2): p. 1-2 Category: Cell Biology **Impact Factor: 3.741** Ranking: 76/177 **[BCH]**
9. Beinrohr, L., **Murray-Rust, T.A., Dyksterhuis, L.**, Zavodszky, P., Gal, P., **Pike, R.N.**, and **Wijeyewickrema, L.C.**, *BOOK CHAPTER: Serpins and the complement system*, in *Methods Enzymol*, JN Abelson & MI Simon, Editor. 2011, Academic Press Elsevier Inc: UK. p. 55-75. **Book Chapter [BCH]**

10. **Berry, R.**, Chen, Z., McCluskey, J., and **Rossjohn, J.**, *Insight into the basis of autonomous immunoreceptor activation*. Trends Immunol 2011. **32**(4): p. 165-170 Category: Immunology **Impact Factor: 9.533** Ranking: 8/134 **[BCH]**
11. Bettaieb, A., Liu, S., Xi, Y., Nagata, N., Matsuo, K., Matsuo, I., Chahed, S., Bakke, J., Keilhack, H., **Tiganis, T.**, and Haj, F.G., *Differential regulation of endoplasmic reticulum stress by protein tyrosine phosphatase 1B and T cell protein tyrosine phosphatase*. J Biol Chem 2011. **286**(11): p. 9225-9235 Category: Biochemistry & Molecular Biology **Impact Factor: 5.328** Ranking: 50/286 **[BCH]**
12. **Bird, A.D.**, Flecknoe, S.J., **Tan, K.H.**, **Olsson, P.F.**, **Antony, N.**, Mantamadiotis, T., Hooper, S.B., and **Cole, T.J.**, *cAMP Response Element Binding Protein Is Required for Differentiation of Respiratory Epithelium during Murine Development*. PLoS One 2011. **6**(3): p. e17843.1-15 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 **[BCH]**
13. Boerboom, D., Lafond, J.F., Zheng, X., Lapointe, E., **Mittaz, L.**, Boyer, A., **Pritchard, M.A.**, Demayo, F.J., Mort, J.S., Drolet, R., and Richards, J.S., *Partially redundant functions of Adamts1 and Adamts4 in the perinatal development of the renal medulla*. Dev Dyn 2011. **E-pub**: p. 1-9 Category: Developmental Biology **Impact Factor: 2.864** Ranking: 17/38 **[BCH]**
14. **Bosnyak, S.**, Jones, E., **Christopoulos, A.**, **Aguilar, M.I.**, Thomas, W., and **Widdop, R.**, *Relative affinity of angiotensin peptides and novel ligands at AT1 and AT2 receptors*. Clin Sci (Lond) 2011. **E-pub**: p. 1016 Category: Medicine, Research & Experimental **Impact Factor: 4.613** Ranking: 17/106 **[PHARM,BCH]**
15. Campbell, B.E., **Boag, P.R.**, Hofmann, A., Cantacessi, C., Wang, C.K., Taylor, P., Hu, M., Sindhu, Z.U., Loukas, A., Sternberg, P.W., and Gasser, R.B., *REVIEW: Atypical (RIO) protein kinases from Haemonchus contortus - Promise as new targets for nematocidal drugs*. Biotechnol Adv 2011. **29**(3): p. 338-350 Category: Biotechnology & Applied Microbiology **Impact Factor: 7.600** Ranking: 9/160 **[BCH]**
16. Chen, Y., Wu, H., Winnall, W.R., **Loveland, K.L.**, Mankanji, Y., Phillips, D.J., Smith, J.A., and Hedger, M.P., *Tumour necrosis factor-alpha stimulates human neutrophils to release preformed activin A*. Immunol Cell Biol 2011. **E-pub**: p. 1-8 Category: Cell Biology **Impact Factor: 3.741** Ranking: 76/177 **[BCH]**
17. **Cheng, L.**, **Smith, D.J.**, Anderson, R.L., and **Nagley, P.**, *Human neuroblastoma SH-SY5Y cells show increased resistance to hyperthermic stress after differentiation, associated with elevated levels of Hsp72*. Int J Hyper 2011. **E-pub**: p. 1-12 Category: Oncology **Impact Factor: 2.939** Ranking: 72/184 **[BCH]**
18. **Chow, J.D.**, **Price, J.T.**, **Bills, M.M.**, **Simpson, E.R.**, and **Boon, W.C.**, *TECHNICAL REPORT: A doxycycline-inducible, tissue-specific aromatase-expressing transgenic mouse*. Transgenic Res 2011. **E-pub**: p. 1-14 Category: Biochemistry & Molecular Biology **Impact Factor: 286** Ranking: 158/286 **[BCH,ANT]**

19. Clancy, J.L., Wei, G.H., Echner, N., Humphreys, D.T., **Beilharz, T.H.**, and Preiss, T., *mRNA isoform diversity can obscure detection of miRNA-mediated control of translation*. RNA 2011. **E-pub**Category: Biochemistry & Molecular Biology **Impact Factor: 6.051** Ranking: 43/286 **[BCH]**

20. Colwill, K., Persson, H., Jarvik, N.E., Wyrzucki, A., Wojcik, J., Koide, A., Kossiakoff, A.A., Koide, S., Sidhu, S., Dyson, M.R., Pershad, K., Pavlovic, J.D., Karatt-Vellatt, A., Schofield, D.J., Kay, B.K., McCafferty, J., Mersmann, M., Meier, D., Mersmann, J., Helmsing, S., Hust, M., Dubel, S., **Berkowicz, S., Freemantle, A., Spiegel, M., Sawyer, A., Layton, D., Nice, E.**, Dai, A., Rocks, O., Williton, K., Fellouse, F.A., Hersi, K., Pawson, T., Nilsson, P., Sundberg, M., Sjoberg, R., Sivertsson, A., Schwenk, J.M., Takanen, J.O., Hober, S., Uhlen, M., Dahlgren, L.G., Flores, A., Johansson, I., Weigelt, J., Crombet, L., Loppnau, P., Kozieradzki, I., Cossar, D., Arrowsmith, C.H., Edwards, A.M., and Graslund, S., **A roadmap to generate renewable protein binders to the human proteome*. Nat Methods 2011. **E-pub**: p. 1-11 Category: Biochemical Research Methods **Impact Factors: 20.717** Ranking: 1/71 **[BCH]**

21. Cowling, B.S., Cottle, D.L., **Wilding, B.R., D'Arcy, C.E., Mitchell, C.A.**, and **McGrath, M.J.**, *Four and a half LIM protein 1 gene mutations cause four distinct human myopathies: A comprehensive review of the clinical, histological and pathological features*. Neuromuscul Disord 2011. **21**(4): p. 237-251 Category: Clinical Neurology **Impact Factor: 2.764** Ranking: 66/185 **[BCH]**

22. **Croxford, A.M.**, Nandakumar, K.S., Holmdahl, R., Tobin, M.J., McNaughton, D., and **Rowley, M.J.**, *Chemical changes demonstrated in cartilage by synchrotron infrared microspectroscopy in an antibody-induced murine model of rheumatoid arthritis*. J Biomed Op 2011. **16**(6): p. 066004.1-9 Category: Biochemical Research Methods **Impact Factor: 3.188** Ranking: 24/71 **[BCH]**

23. **Dagley, M.J.**, Gentle, I.E., **Beilharz, T.H.**, Pettolino, F.A., Djordjevic, J.T., **Lo, T.L., Uwamahoro, N.**, Rupasinghe, T., Tull, D.L., McConville, M., Beaurepaire, C., Nantel, A., **Lithgow, T.**, Mitchell, A.P., and **Traven, A.**, *Cell wall integrity is linked to mitochondria and phospholipid homeostasis in Candida albicans through the activity of the post-transcriptional regulator Ccr4-Pop2*. Mol Microbiol 2011. **79**(4): p. 968-989 Category: Biochemistry & Molecular Biology **Impact Factor: 4.819** Ranking: 60/286 **[BCH]**

24. D'Orsogna, L.J., Roelen, D.L., van der Meer-Prins, E.M., van der Pol, P., Franke-van Dijk, M.E., Eikmans, M., Anholts, J., **Rossjohn, J.**, McCluskey, J., Mulder, A., van Kooten, C., Doxiadis, II, and Claas, F.H., *Tissue specificity of cross-reactive allogeneic responses by EBV EBNA3A-specific memory T cells*. Transplantation 2011. **91**(5): p. 494-500 Category: Immunology **Impact Factor: 3.676** Ranking: 39/134 **[BCH]**

25. **Dyksterhuis, L.D.**, White, J.F., Hickey, M., Kirby, N., Mudie, S., Hawley, A., Vashi, A., Nigro, J., Werkmeister, J.A., and Ramshaw, J.A., *Impact of heparan sulfate chains and sulfur-mediated bonds on the mechanical properties of bovine lens capsule*. Biophys J 2011. **100**(9): p. 2077-83 Category: Biophysics **Impact Factor: 4.218** Ranking: 18/73 **[BCH]**

26. Fernandes, S.P., Dringen, R., **Lawen, A.**, and Robinson, S.R., *Inactivation of astrocytic glutamine synthetase by hydrogen peroxide requires iron*. *Neurosci Lett* 2011. **490**(1): p. 27-30 Category: Neurosciences **Impact Factor: 2.055** Ranking: 159/237 [**BCH**]
27. **Fulcher, A.J.** and **Jans, D.A.**, *REVIEW: Regulation of nucleocytoplasmic trafficking of viral proteins: An integral role in pathogenesis?* *Biochim Biophys Acta* 2011. **E-pub**: p. 1-15 Category: Biochemistry & Molecular Biology **Impact Factor: 4.733** Ranking: 62/286 [**BCH**]
28. **Gong, L.**, **Cullinane, M.**, **Treerat, P.**, **Ramm, G.**, **Prescott, M.**, **Adler, B.**, **Boyce, J.D.**, and **Devenish, R.J.**, *The Burkholderia pseudomallei Type III Secretion System and BopA Are Required for Evasion of LC3-Associated Phagocytosis*. *PLoS One* 2011. **6**(3): p. e17852.1-11 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 [**BCH,MICRO**]
29. **Gras, S.**, Kjer-Nielsen, L., Chen, Z., **Rossjohn, J.**, and McCluskey, J., *REVIEW: The structural bases of direct T-cell allorecognition: implications for T-cell-mediated transplant rejection*. *Immunol Cell Biol* 2011. **89**(3): p. 388-395 Category: Cell Biology **Impact Factor: 3.741** Ranking: 76/177 [**BCH**]
30. Gutsche, I., **Coulibaly, F.**, Voss, J.E., Salmon, J., d'Alayer, J., Ermonval, M., Larquet, E., Charneau, P., Krey, T., Megret, F., Guittet, E., Rey, F.A., and Flamand, M., *Secreted dengue virus nonstructural protein NS1 is an atypical barrel-shaped high-density lipoprotein*. *Proc Natl Acad Sci U S A* 2011. **108**(19): p. 8003-8 Category: Multidisciplinary Sciences **Impact Factor: 9.771** Ranking: 3/57 [**BCH**]
31. Hannan, K.M., Sanij, E., Hein, N., **Hannan, R.D.**, and **Pearson, R.B.**, *Signaling to the ribosome in cancer-It is more than just mTORC1*. *IUBMB Life* 2011. **63**(2): p. 79-85 Category: Biochemistry & Molecular Biology **Impact Factor: 4.251** Ranking: 77/286 [**BCH**]
32. Harman, A.N., Lai, J., Turville, S., Samarajiwa, S., **Gray, L.**, Marsden, V., Mercier, S., **Jones, K.**, Nasr, N., Cumming, H., Donaghy, H., **Mak, J.**, Churchill, M., Hertzog, P., and Cunningham, A.L., **HIV infection of dendritic cells subverts the interferon induction pathway via IRF1 and inhibits type 1 interferon production*. *Blood* 2011. **E-pub**: p. 1-35 Category: Hematology **Impact Factor: 10.558** Ranking: 2/65 [**BCH,MICRO**]
33. **Higgins, G.C.**, **Devenish, R.J.**, Beart, P.M., and **Nagley, P.**, *Autophagic activity in cortical neurons under acute oxidative stress directly contributes to cell death*. *Cell Mol Life Sci* 2011. **E-pub**: p. 1-16 Category: Biochemistry & Molecular Biology **Impact Factor: 7.047** Ranking: 35/286 [**BCH**]
34. **Hirst, D.J.**, **Lee, T.H.**, Swann, M.J., **Unabia, S.**, Park, Y., Hahm, K.S., and **Aguilar, M.I.**, *Effect of acyl chain structure and bilayer phase state on binding and penetration of a supported lipid bilayer by HPA3*. *Eur Biophys J* 2011. **40**(4): p. 503-514 Category: Biophysics **Impact Factor: 2.387** Ranking: 42/73 [**BCH**]
35. Hussey, G.S., Chaudhury, A., Dawson, A.E., Lindner, D.J., Knudsen, C.R., **Wilce, M.C.**, Merrick, W.C., and Howe, P.H., **Identification of an mRNP complex regulating tumorigenesis at the translational elongation step*. *Mol Cell* 2011. **41**(4): p. 419-31 Category: Biochemistry & Molecular Biology **Impact Factor: 14.194** Ranking: 6/286 [**BCH**]

36. **Itman, C., Wong, C.,** Hunyadi, B., Ernst, M., **Jans, D.A.,** and **Loveland, K.L.,** *Smad3 Dosage Determines Androgen Responsiveness and Sets the Pace of Postnatal Testis Development.* *Endocrinology* 2011. **152**(5): p. 2076-2089 Category: Endocrinology & Metabolism **Impact Factor: 4.993** Ranking: 20/116 **[BCH]**
37. Jastrzebski, K., Hannan, K.M., House, C.M., Hung, S.S., **Pearson, R.B.,** and **Hannan, R.D.,** *A phospho-proteomic screen identifies novel S6K1 and mTORC1 substrates revealing additional complexity in the signaling network regulating cell growth.* *Cell Signal* 2011. **23**(8): p. 1338-1347 Category Cell Biology **Impact Factor: 4.243** Ranking: 68/177 **[BCH]**
39. **Jayakrishnan, B., Hoke, D.E., Langendorf, C.G., Buckle, A.M.,** and **Rowley, M.J.,** *An Analysis of the Cross-Reactivity of Autoantibodies to GAD65 and GAD67 in Diabetes.* *PLoS One* 2011. **6**(4): p. e18411.1-6 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 **[BCH]**
40. Jedelsky, P.L., Dolezal, P., Rada, P., Pyrih, J., Smid, O., Hrady, I., Sedinova, M., Marcincikova, M., Voleman, L., **Perry, A.J.,** Beltran, N.C., **Lithgow, T.,** and Tachezy, J., *The Minimal Proteome in the Reduced Mitochondrion of the Parasitic Protist Giardia intestinalis.* *PLoS One* 2011. **6**(2): p. e17285.1-7 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 **[BCH]**
41. **Jones, E.S., Del Borgo, M.P., Kirsch, J.F., Clayton, D., Bosnyak, S., Welungoda, I., Hausler, N., Unabia, S.,** Perlmutter, P., Thomas, W.G., **Aguilar, M.I.,** and **Widdop, R.E.,** *A Single {beta}-Amino Acid Substitution to Angiotensin II Confers AT2 Receptor Selectivity and Vascular Function.* *Hypertension* 2011. **57**(3): p. 570-6 Category: Peripheral Vascular Disease **Impact Factor: 6.908** Ranking: 4/66 **[PHARM,BCH]**
42. Kang, H.J., **Coulibaly, F.,** Proft, T., and Baker, E.N., *Crystal structure of Spy0129, a Streptococcus pyogenes class B sortase involved in pilus assembly.* *PLoS One* 2011. **6**(1): p. e15969.1-11 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 **[BCH]**
43. **Kaur, G.** and **Jans, D.A.,** *Dual nuclear import mechanisms of sex determining factor SRY: intracellular Ca²⁺ as a switch.* *Faseb J* 2011. **25**(2): p. 665-675 Category: Biochemistry & Molecular Biology **Impact Factor: 6.515** Ranking: 37/286 **[BCH]**
44. **Kennan, R.M., Han, X., Porter, C.J.,** and **Rood, J.I.,** *REVIEW: The pathogenesis of ovine footrot.* *Vet Microbiol* 2011. **E-pub:** p. 1-8 Category: Microbiology **Impact Factor: 3.256** Ranking: 33/107 **[MICRO,BCH]**
45. Khoshmanesh, K., Akagi, J., Nahavandi, S., Kalantar-Zadeh, K., **Baratchi, S.,** Williams, D.E., Cooper, J.M., and Wlodkowic, D., *TECHNICAL NOTE: Interfacing Cell-Based Assays in Environmental Scanning Electron Microscopy Using Dielectrophoresis.* *Anal Chem* 2011. **83**(8): p. 3217-3221 Category: Chemistry, Analytical **Impact Factor: 5.874** Ranking: 3/71 **[BCH]**
46. **Kim, H.S., Wilce, M.C., Yoga, Y.M., Pardini, N.R., Gunzburg, M.J., Cowieson, N.P.,** Wilson, G.M., Williams, B.R., Gorospe, M., and **Wilce, J.A.,** *Different modes of interaction by TIAR and HuR with target RNA and DNA.* *Nucleic Acids Res* 2011. **39**(3): p. 1117-1130 Category: Biochemistry & Molecular Biology **Impact Factor: 7.836** Ranking: 30/286 **[BCH]**

47. Kostenko, L., Kjer-Nielsen, L., Nicholson, I., Hudson, F., Lucas, A., Foley, B., Chen, K., Lynch, K., Nguyen, J., Wu, A.H., Tait, B.D., Holdsworth, R., Mallal, S., **Rossjohn, J.**, Bharadwaj, M., and McCluskey, J., *Rapid screening for the detection of HLA-B57 and HLA-B58 in prevention of drug hypersensitivity*. *Tissue Antigens* 2011. **E-pub**: p. 1-10 Category: Cell Biology **Impact Factor: 3.024** Ranking: 100/177 **[BCH]**
48. Kozer, N., Rothacker, J., Burgess, A.W., **Nice, E.C.**, and Clayton, A.H., *Conformational Dynamics in a Truncated Epidermal Growth Factor Receptor Ectodomain*. *Biochemistry* 2011. **E-pub**: p. 1-10 Category: Biochemistry & Molecular Biology **Impact Factor: 3.226** Ranking: 120/286 **[BCH]**
49. **Lai, Z.W.**, **Hanchapola, I.**, **Steer, D.L.**, and **Smith, A.I.**, *Angiotensin-Converting Enzyme 2 Ectodomain Shedding Cleavage-Site Identification: Determinants and Constraints*. *Biochemistry* 2011. **50**(23): p. 5182-5194 Category: Biochemistry & Molecular Biology **Impact Factor: 3.226** Ranking: 120/286 **[BCH]**
50. **Loveland, K.L.**, *RESEARCH HIGHLIGHTS: What a difference a day makes! The contribution of intrinsic FGF9 signalling to germline masculinisation*. *Asian J Androl* 2011. **13**(2): p. 193-194 Category: Andrology **Impact Factor: 1.549** Ranking: 3/5 **[BCH]**
51. Lu, B.G., Sofian, T., **Law, R.H.**, Coughlin, P.B., and Horvath, A.J., *The contribution of conserved lysine residues in the α 2-antiplasmin C-terminus to plasmin binding and inhibition*. *J Biol Chem* 2011. **E-pub**: p. 1-15 Category: Biochemistry & Molecular Biology **Impact Factor: 5.328** Ranking: 50/286 **[BCH]**
52. **Mackay, I.R.**, *A 50-year experience with autoimmune hepatitis: and where are they now?* *J Gastroenterol* 2011. **46**(Supplement 1): p. 17-28 Category: Gastroenterology & Hepatology **Impact Factor: 3.610** Ranking: 17/71 **[BCH]**
53. **Mackay, I.R.**, *Gastrointestinal: Liver*, in *Systemic Lupus Erythematosus*, G Tsokos RG Lahita, JP Buyon, T Koike, Editor. 2011, Academic Press (Elsevier): UK. p. 865-886. **Book Chapter [BCH]**
54. **Mackay, I.R.**, *Autoimmune Hepatitis: From the Clinic to the Diagnostics Laboratory*. *LabMedicine* 2011. **42**(4): p. 224-233 Category: Medicine Laboratory Technology **Impact Factor: 0.267** Ranking: 28/30 **[BCH]**
55. **Major, A.T.**, **Whiley, P.A.**, and **Loveland, K.L.**, *Expression of nucleocytoplasmic transport machinery: Clues to regulation of spermatogenic development*. *Biochim Biophys Acta* 2011. **E-pub**: p. 1-21 Category: Biochemistry & Molecular Biology **Impact Factor: 4.733** Ranking: 62/286 **[ANT,BCH]**
56. Mallevaey, T., **Clarke, A.J.**, Scott-Browne, J.P., Young, M.H., Roisman, L.C., Pellicci, D.G., **Patel, O.**, **Vivian, J.P.**, Matsuda, J.L., McCluskey, J., Godfrey, D.I., Marrack, P., **Rossjohn, J.**, and Gapin, L., **A Molecular Basis for NKT Cell Recognition of CD1d-Self-Antigen*. *Immunity* 2011. **34**(3): p. 315-26 Category: Immunology **Impact Factor: 24.221** Ranking: 4/134 **[BCH]**

57. Manji, S.S., Williams, L.H., Miller, K.A., **Ooms, L.M.**, Bahlo, M., **Mitchell, C.A.**, and Dahl, H.H., *A Mutation in Synaptotagmin 2 Causes Progressive Hearing Loss in the ENU-Mutagenised Mouse Strain Mozart*. PLoS One 2011. **6**(3): p. e17607.1-11 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 [**BCH**]
58. Mendis, S.H., Meachem, S.J., Sarraj, M.A., and **Loveland, K.L.**, *Activin A balances Sertoli and germ cell proliferation in the fetal mouse testis*. Biol Reprod 2011. **84**(2): p. 379-91 Category: Reproductive Biology **Impact Factor: 3.870** Ranking: 3/26 [**BCH,ANT**]
59. **Menon, K.N., Steer, D.L., Short, M., Petratos, S., Smith, I., and Bernard, C.C.**, *A novel unbiased proteomic approach to detect the reactivity of cerebrospinal fluid in neurological diseases*. Mol Cell Proteomics 2011. **E-pub**: p. 1-49 Category: Biochemical Research Methods **Impact Factor: 8.354** Ranking: 5/71 [**MISCL,BCH**]
60. **Mijaljica, D. and Devenish, R.J.**, *Conference Report: A conference report from "Down Under": Talking autophagy at OzBio2010*. Autophagy 2011. **7**(2): p. 252-4 Category: Cell Biology **Impact Factor: 6.643** Ranking: 34/177 [**BCH**]
61. **Mijaljica, D., Prescott, M., and Devenish, R.J.**, *VIEWES AND COMMENTARIES: V-ATPase engagement in autophagic processes*. Autophagy 2011. **7**(6): p. 666-668 Category: Cell Biology **Impact Factor: 6.643** Ranking: 34/177 [**BCH**]
62. **Mijaljica, D., Prescott, M., and Devenish, R.J.**, *REVIEW: Microautophagy in mammalian cells: Revisiting a 40-year-old conundrum*. Autophagy 2011. **7**(7): p. 673-82 Category: Cell Biology **Impact Factor: 6.643** Ranking: 34/177 [**BCH**]
63. Miles, J.J., Thammanichanond, D., Moneer, S., Nivarthi, U.K., Kjer-Nielsen, L., Tracy, S.L., Aitken, C.K., Brennan, R.M., Zeng, W., Marquart, L., Jackson, D., Burrows, S.R., Bowden, D.S., Torresi, J., Hellard, M., **Rossjohn, J.**, McCluskey, J., and Bharadwaj, M., *Antigen-Driven Patterns of TCR Bias Are Shared across Diverse Outcomes of Human Hepatitis C Virus Infection*. J Immunol 2011. **186**(2): p. 901-12 Category: Immunology **Impact Factor: 5.745** Ranking: 20/134 [**BCH**]
64. Nguyen, N.Y., Maxwell, M.J., **Ooms, L.M.**, **Davies, E.M.**, Hilton, A.A., Collinge, J.E., Hilton, D.J., Kile, B.T., **Mitchell, C.A.**, Hibbs, M.L., Jane, S.M., and Curtis, D.J., **An ENU-induced mouse mutant of SHIP1 reveals a critical role of the stem cell isoform for suppression of macrophage activation*. Blood 2011. **E-pub**: p. 1-36 Category: Hematology **Impact Factor: 10.558** Ranking: 2/65 [**BCH**]
65. **Nicholls, H.T., Kowalski, G., Kennedy, D.J., Risis, S., Zaffino, L.A., Watson, N., Kanellakis, P., Watt, M.J., Bobik, A., Bonen, A., Febbraio, M., Lancaster, G.I., and Febbraio, M.A.**, *Hematopoietic Cell-Restricted Deletion of CD36 Reduces High-Fat Diet-Induced Macrophage Infiltration and Improves Insulin Signaling in Adipose Tissue*. Diabetes 2011. **60**(4): p. 1100-1100 Category: Endocrinology & Metabolism **Impact Factor: 8.889** Ranking: 5/116 [**BCH,PHY**]
66. **Nicholls, P.K., Harrison, C.A., Walton, K.L., McLachlan, R.I., O'Donnell, L., and Stanton, P.G.**, *Hormonal Regulation of Sertoli Cell Micro-RNAs at Spermiation*. Endocrinology 2011. **152**(4): p. 1670-1683 Category: Endocrinology & Metabolism **Impact Factor: 4.993** Ranking: 20/116 [**BCH**]

67. Norbury, L.J., **Beckham, S., Pike, R.N.**, Grams, R., Spithill, T.W., Fecondo, J.V., and Smooker, P.M., *Adult and juvenile Fasciola cathepsin L proteases: Different enzymes for different roles*. *Biochimie* 2011. **93**(3): p. 604-611 Category: Biochemistry & Molecular Biology **Impact Factor: 3.787** Ranking: 99/286 [BCH]
68. Outschoorn, I.M., Talor, M.V., Hoffman, W.H., **Rowley, M.J., Mackay, I.R.**, Rose, N.R., and Burek, C.L., *Autoantibody heritability in thyroiditis: IgG subclass contributions*. *Autoimmunity* 2011. **44**(3): p. 195-200 Category: Immunology **Impact Factor: 2.138** Ranking: 92/134 [BCH]
69. **Pereira, C.F.**, Ellenberg, P.C., Jones, K.L., Fernandez, T.L., Smyth, R.P., Hawkes, D.J., **Hijnen, M.**, Vivet-Boudou, V., Marquet, R., Johnson, I., and **Mak, J.**, *Labeling of Multiple HIV-1 Proteins with the Biarsenical-Tetracysteine System*. *PLoS One* 2011. **6**(2): p. e17016.1-10 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 [MMI,BCH]
70. Plasman, K., Van Damme, P., **Kaiserman, D.**, Impens, F., Demeyer, K., Helsens, K., Goethals, M., **Bird, P.I.**, Vandekerckhove, J., and Gevaert, K., *Probing the efficiency of proteolytic events by positional proteomics*. *Mol Cell Proteomics* 2011. **10**(2): p. M110.003301-1-39 Category: Biochemical Research Methods **Impact Factor: 8.354** Ranking: 5/71 [BCH]
71. **Quenault, T., Lithgow, T.**, and **Traven, A.**, **REVIEW: PUF proteins: repression, activation and mRNA localization*. *Trends Cell Biol* 2011. **21**(2): p. 104-112 Category: Cell Biology **Impact Factor: 12.140** Ranking: 15/177 [BCH]
72. Rapson, A.C., Hossain, M.A., Wade, J.D., **Nice, E.C.**, Smith, T.A., Clayton, A.H., and Gee, M.L., *Structural dynamics of a lytic Peptide interacting with a supported lipid bilayer*. *Biophys J* 2011. **100**(5): p. 1353-61 Category: Biophysics **Impact Factor: 4.218** Ranking: 18/73 [BCH]
73. **Reboul, C.F., Andrews, D.A., Nahar, M.F., Buckle, A.M.**, and **Roujeinikova, A.**, *Crystallographic and Molecular Dynamics Analysis of Loop Motions Unmasking the Peptidoglycan-Binding Site in Stator Protein MotB of Flagellar Motor*. *PLoS One* 2011. **6**(4): p. e18981 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 [MICRO,BCH]
74. Rimmer, K.A., Foo, J.H., Ng, A., Petrie, E.J., Shilling, P.J., **Perry, A.J.**, Mertens, H.D., **Lithgow, T.**, Mulhern, T.D., and Gooley, P.R., *Recognition of Mitochondrial Targeting Sequences by the Import Receptors Tom20 and Tom22*. *J Mol Biol* 2011. **405**(3): p. 804-818 Category: Biochemistry & Molecular Biology **Impact Factor: 4.008** Ranking: 86/286 [BCH]
75. **Roth, D.M., Moseley, G.W., Pouton, C.W.**, and **Jans, D.A.**, *Mechanism of Microtubule-Facilitated "Fast Track" Nuclear Import*. *J Biol Chem* 2011. **286**(16): p. 14335-14351 Category: Biochemistry & Molecular Biology **Impact Factor: 5.328** Ranking: 50/286 [BCH]
76. **Samarajeewa, N.U.**, Ham, S., Yang, F., **Simpson, E.R.**, and **Brown, K.A.**, *Promoter-specific effects of metformin on aromatase transcript expression*. *Steroids* 2011. **E-pub**: p. 1-4 Category: Biochemistry & Molecular Biology **Impact Factor: 3.106** Ranking: 126/286 [PHY,BCH]

77. Schuelein, R., **Everingham, P.**, and **Kwok, T.**, *OPINION: Integrin-mediated type IV secretion by Helicobacter: what makes it tick?* Trends Microbiol 2011. **19**(5): p. 211-216 Category: Microbiology **Impact Factor: 7.500** Ranking: 11/107 [**BCH,MICRO**]
78. Singh, Y., Sharpe, P.C., Hoang, H.N., Lucke, A.J., McDowall, A.W., **Bottomley, S.P.**, and Fairlie, D.P., *Amyloid formation from an alpha-helix peptide bundle is seeded by 3(10)-helix aggregates.* Chemistry - An European Journal 2011. **17**(1): p. 151-60 Category: Chemistry, Multidisciplinary **Impact Factor: 5.476** Ranking: 18/144 [**BCH**]
79. Slavotinek, A.M., Baranzini, S.E., Schanze, D., Labelle-Dumais, C., **Short, K.M.**, Chao, R., Yahyavi, M., Bijlsma, E.K., Chu, C., Musone, S., Wheatley, A., Kwok, P.Y., Marles, S., Fryns, J.P., Maga, A.M., Hassan, M.G., Gould, D.B., Madireddy, L., Li, C., **Cox, T.C.**, **Smyth, I.**, Chudley, A.E., and Zenker, M., *Manitoba-oculo-tricho-anal (MOTA) syndrome is caused by mutations in FREM1.* J Med Genet 2011. **48**(6): p. 375-382 Category: Genetics & Heredity **Impact Factor: 7.037** Ranking: 16/156 [**BCH,ANT**]
80. **Song, J.**, Tan, H., Boyd, S.E., Shen, H., **Mahmood, K.**, **Webb, G.I.**, Akutsu, T., **Whisstock, J.C.**, and **Pike, R.N.**, *Bioinformatic approaches for predicting substrates of proteases.* J Bioinform Comput Biol 2011. **9**(1): p. 149-78 [**BCH**]
81. **Stewart, S.E.**, **D'Angelo, M.E.**, and **Bird, P.I.**, *REVIEW: Intercellular communication via the endo-lysosomal system: Translocation of granzymes through membrane barriers.* Biochim Biophys Acta 2011. **E-pub**: p. 1-9 Category: Biochemistry & Molecular Biology **Impact Factor: 2.773** Ranking: 145/286 [**BCH**]
82. Swedberg, J.E., de Veer, S.J., Sit, K.C., **Reboul, C.F.**, **Buckle, A.M.**, and Harris, J.M., *Mastering the canonical loop of serine protease inhibitors: enhancing potency by optimising the internal hydrogen bond network.* PLoS One 2011. **6**(4): p. e19302.1-11 Category: Biology **Impact Factor: 4.411** Ranking: 12/85 [**BCH**]
83. Taleski, D., Butler, S.J., **Stone, M.J.**, and Payne, R.J., *Divergent and Site-Selective Solid-Phase Synthesis of Sulfopeptides.* Chem - An Asian Journal 2011. **6**(6): p. 1316-1320 Category: Chemistry, Multidisciplinary **Impact Factor: 4.188** Ranking: 25/144 [**BCH**]
84. **Tiganis, T.**, **REVIEW: Reactive oxygen species and insulin resistance: the good, the bad and the ugly.* Trends Pharmacol Sci 2011. **32**(2): p. 82-89 Category: Pharmacology & Pharmacy **Impact Factor: 11.050** Ranking: 6/249 [**BCH**]
85. **Tong, J.H.S.**, **Dolezal, P.**, **Selkrig, J.**, Crawford, S., Simpson, A.G., Noinaj, N., Buchanan, S.K., **Gabriel, K.**, and **Lithgow, T.**, *Ancestral and derived protein import pathways in the mitochondrion of Reclinomonas americana.* Mol Biol Evol 2011. **28**(5): p. 1581-1591 Category: Biochemistry & Molecular Biology **Impact Factor: 5.510** Ranking: 49/286 [**BCH**]
86. Velkov, T., Horne, J., Scanlon, M., Capuano, B., Yuriev, E., and **Lawen, A.**, *Characterization of the N-Methyltransferase Activities of the Multifunctional Polypeptide Cyclosporin Synthetase.* Chem Biol 2011. **18**(4): p. 464-475 Category: Biochemistry & Molecular Biology **Impact Factor: 5.838** Ranking: 45/286 [**BCH**]

87. Velmourougane, G., Harbut, M.B., Dalal, S., **McGowan, S., Oellig, C.A.**, Meinhardt, N., **Whisstock, J.C.**, Klemba, M., and Greenbaum, D.C., *Synthesis of New (-)-Bestatin-Based Inhibitor Libraries Reveals a Novel Binding Mode in the S1 Pocket of the Essential Malaria M1 Metalloaminopeptidase*. *J Med Chem* 2011. **54**(6): p. 1655-1666 Category: Chemistry, Medicinal **Impact Factor: 5.207** Ranking: 3/54 **[BCH]**
88. **Wagstaff, K.M., Rawlinson, S.M., Hearps, A.C., and Jans, D.A.**, *An AlphaScreen(R)-Based Assay for High-Throughput Screening for Specific Inhibitors of Nuclear Import*. *J Biomol Screen* 2011. **16**(2): p. 192-200 Category: Biochemical Research Methods **Impact Factor: 2.500** Ranking: 34/71 **[BCH]**
89. Wati, S., **Rawlinson, S.M.**, Ivanov, R.A., Dorstyn, L., Beard, M.R., **Jans, D.A.**, Pitson, S.M., Burrell, C.J., Li, P., and Carr, J.M., *TNF- α stimulation of cells with established dengue virus type 2 (DENV-2) infection induces cell death that is accompanied by reduced ability of TNF- α to activate NF κ B and reduced sphingosine kinase-1 activity*. *J Gen Virol* 2011. **92**(Pt. 4): p. 1-12 Category: Virology **Impact Factor: 3.568** Ranking: 10/32 **[BCH]**
90. **Whisstock, J.C.** and **Bird, P.I.**, *Preface*, in *Methods in Enzymology - Biology of Serpins*, JN Abelson & MI Simon, Editor. 2011, Academic Press Elsevier Inc: UK. p. 19. **Book Chapter [BCH]**
91. **Wun, K.S.**, Cameron, G., **Patel, O., Pang, S.S.**, Pellicci, D.G., Sullivan, L.C., Keshipeddy, S., Young, M.H., Uldrich, A.P., Thakur, M.S., Richardson, S.K., Howell, A.R., Illarionov, P.A., Brooks, A.G., Besra, G.S., McCluskey, J., Gapin, L., Porcelli, S.A., Godfrey, D.I., and **Rossjohn, J.**, **A Molecular Basis for the Exquisite CD1d-Restricted Antigen Specificity and Functional Responses of Natural Killer T Cells*. *Immunity* 2011. **34**(3): p. 327-39 Category: Immunology **Impact Factor: 24.221** Ranking: 4/134 **[BCH]**
92. **Yongqing, T., Drentin, N., Duncan, R.C., Wijeyewickrema, L.C., and Pike, R.N.**, *REVIEW: Mannose-binding lectin serine proteases and associated proteins of the lectin pathway of complement: Two genes, five proteins and many functions?* *Biochim Biophys Acta* 2011. **E-pub**: p. 1-10 Category: Biochemistry & Molecular Biology **Impact Factor: 2.773** Ranking: 145/286 **[BCH]**
93. **Zhai, J.**, Wooster, T.J., Hoffmann, S.V., **Lee, T.H.**, Augustin, M.A., and **Aguilar, M.I.**, *The structural rearrangement of beta-lactoglobulin at different oil-water interfaces and its effect on emulsion stability*. *Langmuir* 2011. **E-pub**: p. 1-43 Category: Chemistry, Multidisciplinary **Impact Factor: 4.268** Ranking: 24/144 **[BCH]**
94. Zhu, J.Z., **Millard, C.J., Ludeman, J.P.**, Simpson, L.S., **Clayton, D.J.**, Payne, R.J., Widlanski, T.S., and **Stone, M.J.**, *Tyrosine Sulfation Influences the Chemokine Binding Selectivity of Peptides Derived from Chemokine Receptor CCR3*. *Biochemistry* 2011. **50**(9): p. 1524-1534 Category: Biochemistry & Molecular Biology **Impact Factor: 3.226** Ranking: 120/286 **[BCH]**
95. **Zimmet, P.Z.**, Campbell, L., Toomath, R., Twigg, S., Wittert, G., and Proietto, J., *SHORT REPORT: Bariatric surgery to treat severely obese patients with type 2 diabetes: A consensus statement* *Obes Res Clin Prac* 2011. **5**(1): p. e71-78 Category: Endocrinology & Metabolism **Impact Factor: 0.621** Ranking: 105/116 **[BCH]**