

2009
BIOCHEMISTRY & MOLECULAR BIOLOGY
RESEARCH PUBLICATIONS

1. **Aguilar, M.I., T.-H. Lee, B. Catimel, and E.C. Nice**, *Miniaturization of High-performance liquid chromatographic separations and equipment in peptide and protein analysis, miniaturization of*, in *Encyclopedia of Analytical Chemistry*. 2009, John Wiley & Sons Ltd. p. 1-21. Book Chapter [BCH]
2. **Alvisi, G., D.M. Roth, D. Camozzi, G.S. Pari, A. Loregian, A. Ripalti, and D.A. Jans**, *The flexible loop of human cytomegalovirus DNA polymerase processivity factor ppUL44 is required for efficient DNA binding and replication in cells*. *J Virol*, 2009. **83**(18): p. 9567-9576 Category: Virology **Impact Factor: 5.308** Ranking: 3/27 [BCH]
3. **Arafat, Y., G. Fenalti, J.C. Whisstock, I.R. Mackay, M. Garcia de la Banda, M.J. Rowley, and A.M. Buckle**, *Structural determinants of GAD antigenicity*. *Mol Immunol*, 2009. **47**(2-3): p. 493-505 Category: Biochemistry & Molecular Biology **Impact Factor: 3.555** Ranking: 89/275 [BCH]
4. **Archbold, J.K., W.A. Macdonald, S. Gras, L.K. Ely, J.J. Miles, M.J. Bell, R.M. Brennan, T. Beddoe, M.C. Wilce, C.S. Clements, A.W. Purcell, J. McCluskey, S.R. Burrows, and J. Rossjohn**, *Natural micropolymorphism in human leukocyte antigens provides a basis for genetic control of antigen recognition*. *J Exp Med*, 2009. **206**(1): p. 209-19 Category: Immunology **Impact Factor: 15.219** Ranking: 5/121 [BCH]
5. Baran, K., **M. Dunstone, J. Chia, A. Ciccone, K.A. Browne, C.J. Clarke, N. Lukoyanova, H. Saibil, J.C. Whisstock, I. Voskoboinik, and J.A. Trapani**, *The molecular basis for perforin oligomerization and transmembrane pore assembly*. *Immunity*, 2009. **30**(5): p. 684-95 Category: Immunology **Impact Factor: 20.579** Ranking: 4/121 [BCH,MICRO]
6. Barry, E.F., F.A. Felquer, J.A. Powell, L. Biggs, F.C. Stomski, A. Urbani, P. Hoffmann, **M.C. Wilce**, M.A. Grimbaldston, A.F. Lopez, and M.A. Guthridge, *14-3-3:SHC scaffolds integrate phosphoserine and phosphotyrosine signaling to regulate PI 3-kinase activation and cell survival*. *J Biol Chem*, 2009. **284**(18): p. 12080-12090 Category: Biochemistry & Molecular Biology **Impact Factor: 5.520** Ranking: 41/276 [BCH]
7. Beckham, S.A., S.E. Boyd, S. Reynolds, C. Willis, M. Johnstone, A. Mika, P. Simerska, **L.C. Wijeyewickrema, A.I. Smith, D.J. Kemp, R.N. Pike, and K. Fischer**, *Characterisation of a serine protease homologous to house dust mite group 3 allergens from the scabies mite *Sarcoptes scabiei**. *J Biol Chem*, 2009. **284**(49): p. 34413-34422 Category: Biochemistry & Molecular Biology **Impact Factor: 5.520** Ranking: 41/275 [BCH]

8. **Beckham, S.A., D. Piedrafita**, C.I. Phillips, **N. Samarawickrema, R.H. Law**, P.M. Smooker, **N.S. Quinsey, J.A. Irving**, D. Greenwood, S.H. Verhelst, M. Bogyo, B. Turk, T.H. Coetzer, **L.C. Wijeyewickrema**, T.W. Spithill, and **R.N. Pike**, *A major cathepsin B protease from the liver fluke Fasciola hepatica has atypical active site features and a potential role in the digestive tract of newly excysted juvenile parasites*. Int J Biochem Cell Biol, 2009. **41**(7): p. 1601-12 Category: Biochemistry & Molecular Biology **Impact Factor: 4.178** Ranking: 73/276 [BCH,PHY]
9. **Beddoe, T.**, Z. Chen, **C.S. Clements, L.K. Ely, S.R. Bushell, J.P. Vivian**, L. Kjer-Nielsen, **S.S. Pang, M.A. Dunstone, Y.C. Liu, W.A. Macdonald**, M.A. Perugini, **M.C. Wilce**, S.R. Burrows, A.W. Purcell, **T. Tiganis, S.P. Bottomley**, J. McCluskey, and **J. Rossjohn**, *Antigen Ligation Triggers a Conformational Change within the Constant Domain of the alphabeta T Cell Receptor*. Immunity, 2009. **30**(6): p. 777-788 Category: Immunology **Impact Factor: 20.579** Ranking: 4/121 [BCH]
10. Bell, M.J., J.M. Burrows, R. Brennan, J.J. Miles, J. Tellam, J. McCluskey, **J. Rossjohn**, R. Khanna, and S.R. Burrows, *SHORT COMMUNICATION: The peptide length specificity of some HLA class I alleles is very broad and includes peptides of up to 25 amino acids in length*. Mol Immunol, 2009. **E-pub** p. 1-7 Category: Biochemistry & Molecular Biology **Impact Factor: 3.555** Ranking: 89/276 [BCH]
11. Bergman, Y.E., **M.P. Del Borgo, R.D. Gopalan**, S. Jalal, **S.E. Unabia**, M. Ciampini, **D.J. Clayton, J.M. Fletcher**, R.J. Mulder, **J.A. Wilce, M.I. Aguilar**, and P. Perlmutter, *Synthesis of stapled beta3-peptides through ring-closing metathesis*. Org Lett, 2009. **11**(19): p. 4438-4440 Category: Chemistry, Organic **Impact Factor: 5.128** Ranking: 4/55 [BCH]
12. Bergstrom, F.C., S. Reynolds, M. Johnstone, **R.N. Pike, A.M. Buckle**, D.J. Kemp, K. Fischer, and A.M. Blom, *Scabies mite inactivated serine protease paralogs inhibit the human complement system*. J Immunol, 2009. **182**(12): p. 7809-17 Category: Immunology **Impact Factor: 6.000** Ranking: 16/121 [BCH]
13. **Bird, P.I.**, J.A. Trapani, and J.A. Villadangos, *REVIEW: Endolysosomal proteases and their inhibitors in immunity*. Nat Rev Immunol, 2009. **9**(12): p. 871-82 Category: Immunology **Impact Factor: 30.006** Ranking: 2/121 [BCH]
14. Boyd, S.E., **F.K. Kerr**, D.W. Albrecht, M.G. de la Banda, **N. Ng**, and **R.N. Pike**, *Cooperative effects in the substrate specificity of the complement protease C1s*. Biol Chem, 2009. **390**(5-6): p. 503-507 Category: Biochemistry & Molecular Biology **Impact Factor: 3.035** Ranking: 113/276 [BCH]
15. **Brown, K.A.**, K.J. McInnes, N.I. Hunger, J.S. Oakhill, G.R. Steinberg, and **E.R. Simpson**, *Subcellular Localization of Cyclic AMP-Responsive Element Binding Protein-Regulated Transcription Coactivator 2 Provides a Link between Obesity and Breast Cancer in Postmenopausal Women*. Cancer Res, 2009. **69**(13): p. 5392-5399 Category: Oncology **Impact Factor: 7.514** Ranking: 12/141 [PHY,BCH]
16. Bursac, D. and **T. Lithgow**, *Jid1 is a J-protein functioning in the mitochondrial matrix, unable to directly participate in endoplasmic reticulum associated protein degradation*. FEBS Lett, 2009. **583**(17): p. 2954-8 Category: Biochemistry & Molecular Biology **Impact Factor: 3.264** Ranking: 101/276 [BCH]

17. Chacinska, A., C.M. Koehler, D. Milenkovic, **T. Lithgow**, and N. Pfanner, *Leading Edge REVIEW: Importing mitochondrial proteins: machineries and mechanisms*. Cell, 2009. **138**(4): p. 628-44 Category: Biochemistry & Molecular Biology **Impact Factor: 31.253** Ranking: 1/276 [BCH]
18. Chand, A.L., K.C. Fab, **E.R. Simpson**, and **C.D. Clyne**, *Aromatase expression is increased in BRCA1 mutation carriers*. BMC Cancer, 2009. **9**(1): p. 148 Category: Oncology **Impact Factor: 3.087** Ranking: 59/141 [BCH]
19. Chia, J., K.P. Yeo, **J.C. Whisstock**, **M.A. Dunstone**, J.A. Trapani, and I. Voskoboinik, *Temperature sensitivity of human perforin mutants unmasks subtotal loss of cytotoxicity, delayed FHL, and a predisposition to cancer*. Proc Natl Acad Sci U S A, 2009. **106**(24): p. 9809-9814 Category: Multidisciplinary Sciences **Impact Factor: 9.380** Ranking: 3/42 [BCH,MICRO]
20. **Chow, J.D.**, **E.R. Simpson**, and **W.C. Boon**, *Alternative 5'-untranslated first exons of the mouse Cyp19A1 (aromatase) gene*. J Steroid Biochem Mol Biol, 2009. **115**(3-5): p. 115-25 Category: Biochemistry & Molecular Biology **Impact Factor: 2.827** Ranking: 122/276 [ANT,BCH]
21. **Clayton, D.**, **I. Hanchapola**, P. Perlmutter, **A.I. Smith**, and **M.I. Aguilar**, *The active site specificity of angiotensin converting Enzyme 2 investigated through single and multiple residue changes and {beta}-amino acid substrate analogs*, in *Adv Exp Med Biol-Peptides for Youth*, E.E.W.L. S Del Valle, Editor. 2008, Springer New York LLC: USA. p. 559-560. Book Chapter [BCH]
22. **Clements, A.**, **D. Bursac**, X. Gatsos, **A.J. Perry**, **S. Civciristov**, **N. Celik**, V.A. Likic, S. Poggio, C. Jacobs-Wagner, R.A. Strugnell, and **T. Lithgow**, *The reducible complexity of a mitochondrial molecular machine*. Proc Natl Acad Sci U S A, 2009. **160**(37): p. 15791-15975 Category: Multidisciplinary Sciences **Impact Factor: 9.380** Ranking: 3/42 [BCH]
23. **Comper, W.D.**, *LETTER TO THE EDITOR: Is the LPS-mediated proteinuria mouse model relevant to human kidney disease?* Nat Med, 2009. **15**(2): p. 133; author reply 133-4 Category: Biochemistry & Molecular Biology **Impact Factor: 27.553** Ranking: 3/276 [BCH]
24. **Comper, W.D.**, B. Haraldsson, and W.M. Deen, *Resolved: normal glomeruli filter nephrotic levels of albumin*. J Am Soc Nephrol, 2008. **19**(3): p. 427-32 Category: Urology & Nephrology **Impact Factor: 7.111** Ranking: 1/55 [BCH]
25. **Comper, W.D.**, **L.M. Hilliard**, D.J. Nikolic-Paterson, and **L.M. Russo**, *REVIEW: Disease-dependent mechanisms of albuminuria*. Am J Physiol Renal Physiol, 2008. **295**(6): p. F1589-600 Category: Urology & Nephrology **Impact Factor: 4.416** Ranking: 6/55 [BCH,PHY]
26. **Comper, W.D.** and L.M. Russo, *REVIEW: Where does albuminuria come from in diabetic kidney disease?* Curr Diab Rep, 2008. **8**(6): p. 477-485 [BCH]
27. **Comper, W.D.** and L.M. Russo, *The glomerular filter: an imperfect barrier is required for perfect renal function*. Curr Opin Nephrol Hypertens, 2009. **18**(4): p. 336-342 Category: Urology & Nephrology **Impact Factor: 4.000** Ranking: 8/57 [BCH]

28. **Cottle, D.L., M.J. McGrath, B.R. Wilding, B.S. Cowling, J.M. Kane, C.E. D'Arcy, M. Holdsworth, I. Hatzinisiriou, M. Prescott, S. Brown, and C.A. Mitchell**, *Slimmer (FHI1B / KYOT3) interacts with the pro-apoptotic protein siva-1 (CD27BP) and delays skeletal myoblast apoptosis*. J Biol Chem, 2009. **284**(39): p. 26964-26977 Category: Biochemistry & Molecular Biology **Impact Factor: 5.520** Ranking: 41/276 [BCH]
29. **Coulibaly, F.**, E. Chiu, S. Gutmann, C. Rajendran, P.W. Haebel, K. Ikeda, H. Mori, V.K. Ward, C. Schulze-Briese, and P. Metcalf, *The atomic structure of baculovirus polyhedra reveals the independent emergence of infectious crystals in DNA and RNA viruses*. Proc Natl Acad Sci U S A, 2009. **106**(52): p. 22205-22210 Category: Multidisciplinary Sciences **Impact Factor: 9.380** Ranking: 3/42 [BCH]
30. Dagley, M.J., P. Dolezal, V.A. Likic, O. Smid, A.W. Purcell, S.K. Buchanan, J. Tachezy, and **T. Lithgow**, *The protein import channel in the outer mitochondrial membrane of Giardia intestinalis*. Mol Biol Evol, 2009. **26**(9): p. 1941-1947 Category: Biochemistry & Molecular Biology **Impact Factor: 7.280** Ranking: 27/276 [BCH]
31. Dias, V.L., E. Rajpert-De Meyts, R. McLachlan, and **K.L. Loveland**, *Analysis of activin/TGF β -signaling modulators within the normal and dysfunctional adult human testis reveals evidence of altered signaling capacity in a subset of seminomas*. Reproduction, 2009. **138**(5): p. 801-11 Category: Developmental Biology **Impact Factor: 3.073** Ranking: 13/38 [BCH]
32. Diwakarla, S., L.D. Mercer, L. Kardashsyian, P.W. Chu, Y.S. Shin, C.L. Lau, M.L. Hughes, **P. Nagley**, and P.M. Beart, *GABAergic striatal neurons exhibit caspase-independent, mitochondrially mediated programmed cell death*. J Neurochem, 2009. **109**(Suppl 1): p. 198-206 Category: Biochemistry & Molecular Biology **Impact Factor: 4.500** Ranking: 60/276 [BCH]
33. Ebert, L.M., **Y.C. Liu, C.S. Clements**, N.C. Robson, H.M. Jackson, J.L. Markby, N. Dimopoulos, B.S. Tan, I.F. Luescher, I.D. Davis, **J. Rossjohn**, J. Cebon, A.W. Purcell, and W. Chen, *A Long, Naturally Presented Immunodominant Epitope from NY-ESO-1 Tumor Antigen: Implications for Cancer Vaccine Design*. Cancer Res, 2009. **69**(3): p. 1046-1054 Category: Oncology **Impact Factor: 7.514** Ranking: 12/141 [BCH]
34. **Fenalti, G.** and **A.M. Buckle**, *Structural biology of the GAD autoantigen*. Autoimmun Rev, 2009. **E-pub** p. 148-152 Category: Immunology **Impact Factor: 5.371** Ranking: 18/121 [BCH]
35. Fischer, K., **C.G. Langendorf, J.A. Irving**, S. Reynolds, C. Willis, **S. Beckham, R.H. Law, S. Yang, T.A. Bashtannyk-Puhlovich, S. McGowan, J.C. Whisstock, R.N. Pike**, D.J. Kemp, and **A.M. Buckle**, *Structural Mechanisms of Inactivation in Scabies Mite Serine Protease Paralogues*. J Mol Biol, 2009. **390**(4): p. 635-645 Category: Biochemistry & Molecular Biology **Impact Factor: 4.146** Ranking: 74/276 [BCH]

36. **Fitzpatrick, R.E., L.C. Wijeyewickrema, and R.N. Pike**, *REVIEW: The gingipains: scissors and glue of the periodontal pathogen, Porphyromonas gingivalis*. *Future Microbiol*, 2009. **4**(4): p. 471-87 Category: Microbiology **Impact Factor: 1.976** Ranking: 55/91 [BCH]
37. Florence, W.C., C. Xia, L.E. Gordy, W. Chen, Y. Zhang, J. Scott-Browne, Y. Kinjo, K.O. Yu, S. Keshipeddy, D.G. Pellicci, **O. Patel**, L. Kjer-Nielsen, J. McCluskey, D.I. Godfrey, **J. Rossjohn**, S.K. Richardson, S.A. Porcelli, A.R. Howell, K. Hayakawa, L. Gapin, D.M. Zajonc, P.G. Wang, and S. Joyce, *Adaptability of the semi-invariant natural killer T-cell receptor towards structurally diverse CD1d-restricted ligands*. *Embo J*, 2009. **28**(22): p. 3579-3590 Category: Biochemistry & Molecular Biology **Impact Factor: 8.295** Ranking: 20/275 [BCH]
38. Foong, Y.Y., **D.A. Jans**, M.S. Rolph, M.E. Gahan, and S. Mahalingam, *Interleukin-15 mediates potent antiviral responses via an interferon-dependent mechanism*. *Virology*, 2009. **393**(2): p. 228-237 Category: Virology **Impact Factor: 3.539** Ranking: 8/27 [BCH]
39. **Fulcher, A.J., D.M. Roth, S. Fatima, G. Alvisi, and D.A. Jans**, *The BRCA-1 binding protein BRAP2 is a novel, negative regulator of nuclear import of viral proteins, dependent on phosphorylation flanking the nuclear localization signal*. *Faseb J*, 2009. **E-pub** p. 1-13 Category: Biochemistry & Molecular Biology **Impact Factor: 7.049** Ranking: 31/275 [BCH]
40. Georgy, S.R., C.N. Pagel, D.M. Wong, S. Sivagurunathan, L.H. Loh, D.E. Myers, M.D. Hollenberg, **R.N. Pike**, and E.J. Mackie, *Proteinase-activated receptor-2 and mouse osteoblasts: regulation of cell function and lack of specificity of PAR-activating peptides*. *Clin Exp Pharmacol Physiol*, 2009. **E-pub** p. 1-21 Category: Pharmacology & Pharmacy **Impact Factor: 2.196** Ranking: 117/219 [BCH]
41. **Ghildyal, R., A. Ho, M. Dias, L. Soegiyono**, P.G. Bardin, K.C. Tran, M.N. Teng, and **D.A. Jans**, *The Respiratory Syncytial Virus Matrix Protein Possesses a Crm1-Mediated Nuclear Export Mechanism*. *J Virol*, 2009. **83**(11): p. 5353-5362 Category: Virology **Impact Factor: 5.308** Ranking: 3/27 [BCH]
42. **Ghildyal, R.**, B. Jordan, D. Li, H. Dagher, P.G. Bardin, J.E. Gern, and **D.A. Jans**, *Rhinovirus 3C Protease Can Localise in the Nucleus and Alter Active and Passive Nucleocytoplasmic Transport*. *J Virol*, 2009. **83**(14): p. 7349-7352 Category: Virology **Impact Factor: 5.308** Ranking: 3/27 [BCH]
43. **Glover, D.J.**, D.L. Leyton, G.W. Moseley, and **D.A. Jans**, *The efficiency of nuclear plasmid DNA delivery is a critical determinant of transgene expression at the single cell level*. *J Gene Med*, 2009. **12**(1): p. 77-85 Category: Biotechnology & Applied Microbiology **Impact Factor: 3.141** Ranking: 33/144 [BCH]
44. **Glover, D.J.**, S.M. Ng, A. Mechler, L.L. Martin, and **D.A. Jans**, *Multifunctional protein nanocarriers for targeted nuclear gene delivery in nondividing cells*. *Faseb J*, 2009. **23**(9): p. 2996-3006 Category: Biochemistry & Molecular Biology **Impact Factor: 7.049** Ranking: 31/276 [BCH]

45. Godfrey, D.I., D.G. Pellicci, **O. Patel**, L. Kjer-Nielsen, J. McCluskey, and **J. Rossjohn**, *REVIEW: Antigen recognition by CD1d-restricted NKT T cell receptors*. *Semin Immunol*, 2009. **E-pub** p. 1-7 Category: Immunology **Impact Factor: 9.114** Ranking: 10/121 [BCH]
46. **Gras, S.**, S.R. Burrows, L. Kjer-Nielsen, **C.S. Clements**, **Y.C. Liu**, L.C. Sullivan, M.J. Bell, A.G. Brooks, A.W. Purcell, J. McCluskey, and **J. Rossjohn**, *The Shaping of T Cell Receptor Recognition by Self-Tolerance*. *Immunity*, 2009. **30**(2): p. 193-203 Category: Immunology **Impact Factor: 20.579** Ranking: 4/121 [BCH]
47. **Grubman, A.**, **M. Kaparakis**, J. Viala, **C. Allison**, **L. Badea**, **A. Karrar**, I.G. Boneca, L. Le Bourhis, **S. Reeve**, **I.A. Smith**, E.L. Hartland, D.J. Philpott, and **R.L. Ferrero**, *The innate immune molecule, NOD1, regulates direct killing of Helicobacter pylori by antimicrobial peptides*. *Cell Microbiol*, 2009. **E-pub** p. 1-41 Category: Cell Biology **Impact Factor: 5.598** Ranking: 31/156 [MICRO,BCH]
48. **Hall, K.** and **M.I. Aguilar**, *Membrane interactions of antimicrobial {beta}-peptides: the role of amphipathicity versus secondary structure induction*. *Biopolymers: Peptide Science*, 2009. **92**(6): p. 554-564 Category: Biochemistry & Molecular Biology **Impact Factor: 2.823** Ranking: 124/276 [BCH]
49. Hardy, C.L., J.S. Lemasurier, **F. Olsson**, T. Dang, J. Yao, M. Yang, M. Plebanski, D.J. Phillips, **R.A. Mollard**, J.M. Rolland, and R. O'Hehir, *IL-13 Regulates Secretion of the TGF- β Superfamily Cytokine Activin A in Allergic Airway Inflammation*. *Am J Respir Cell Mol Biol*, 2009. **E-pub** p. 1-39 Category: Cell Biology **Impact Factor: 4.477** Ranking: 49/157 [BCH]
50. Hassuna, N., P.N. Monk, **G.W. Moseley**, and L.J. Partridge, *REVIEW: Strategies for targeting tetraspanin proteins: potential therapeutic applications in microbial infections*. *BioDrugs*, 2009. **23**(6): p. 341-59 Category: Pharmacology & Pharmacy **Impact Factor: 2.253** Ranking: 114/219 [BCH]
51. Henriques, S., **L. Pattenden**, **M.I. Aguilar**, and M. Castanho, *The toxicity of prion protein fragment PrP(106-126) is not mediated by membrane permeabilization as shown by a M112W substitution*. *Biochemistry*, 2009. **48**(19): p. 4198-4208 Category: Biochemistry & Molecular Biology **Impact Factor: 3.379** Ranking: 96/276 [BCH]
52. **Higgins, G.C.**, P.M. Beart, and **P. Nagley**, *Oxidative stress triggers neuronal caspase-independent death: endonuclease G involvement in programmed cell death-type III*. *Cell Mol Life Sci*, 2009. **66**(16): p. 2773-87 Category: Biochemistry & Molecular Biology **Impact Factor: 5.511** Ranking: 42/276 [BCH]
53. Hilliard, L.M., L.M. Russo, and **W.D. Comper**, *Hypertension-mediated albuminuria is associated with reduced lysosomal activity in the kidney and the heart*. *Am J Nephrol*, 2009. **29**(5): p. 454-64 Category: Urology & Nephrology **Impact Factor: 2.182** Ranking: 21/55 [BCH]
54. **Huynh, J.**, **W.G. Thomas**, **M.I. Aguilar**, and **L. Pattenden**, *REVIEW: Role of helix 8 in G protein-coupled receptors based on structure-function studies on the type 1 angiotensin receptor*. *Mol Cell Endo*, 2009. **302**(2): p. 118-127 Category: Cell Biology **Impact Factor: 3.611** Ranking: 66/157 [BCH]

55. Ijiri, H., **F. Coulibaly**, G. Nishimura, D. Nakai, E. Chiu, C. Takenaka, K. Ikeda, H. Nakazawa, N. Hamada, E. Kotani, P. Metcalf, S. Kawamata, and H. Mori, *Structure-based targeting of bioactive proteins into cypovirus polyhedra and application to immobilized cytokines for mammalian cell culture*. *Biomaterials*, 2009. **30**(26): p. 4297-4308 Category: Engineering, Biomedical **Impact Factor: 6.646** Ranking: 2/51 [BCH]
56. **Itman, C., Y. Miyamoto, J. Young, D.A. Jans, and K.L. Loveland**, *REVIEW: Nucleocytoplasmic Transport as a Driver of Mammalian Gametogenesis*. *Semin Cell Dev Biol*, 2009. **20**(5): p. 607-619 Category: Developmental Biology **Impact Factor: 4.528** Ranking: 6/37 [BCH,ANT]
57. **Itman, C., C. Small, M. Griswold, A.K. Nagaraja, M.M. Matzuk, C.W. Brown, D.A. Jans, and K.L. Loveland**, *Developmentally regulated SMAD2 and SMAD3 utilization directs activin signaling outcomes*. *Dev Dyn*, 2009. **238**(7): p. 1688-1700 Category: Developmental Biology **Impact Factor: 3.018** Ranking: 13/37 [BCH,ANT]
58. **Ivetac, I., R. Gurung, S. Hakim, K.A. Horan, D.A. Sheffield, L.C. Binge, P.W. Majerus, T. Tiganis, and C.A. Mitchell**, *Regulation of PI(3)K/Akt signalling and cellular transformation by inositol polyphosphate 4-phosphatase-1*. *EMBO Rep*, 2009. **10**(5): p. 487-493 Category: Biochemistry & Molecular Biology **Impact Factor: 7.099** Ranking: 30/276 [BCH]
59. **Janes, P.W., S.H. Wimmer-Kleikamp, A.S. Frangakis, K. Treble, B. Griesshaber, O. Sabet, M. Grabenbauer, A.Y. Ting, P. Saftig, P.I. Bastiaens, and M. Lackmann**, *Cytoplasmic relaxation of active Eph controls ephrin shedding by ADAM10*. *PLoS Biol*, 2009. **7**(10): p. e1000215.1-e1000215.17 Category: Biochemistry & Molecular Biology **Impact Factor: 12.683** Ranking: 8/275 [BCH]
60. **Jans, D.A.**, *EDITORIAL: Nuclear transport in development and disease - The importance of importins*. *Semin Cell Dev Biol*, 2009. **20**(5): p. 575 Category: Cell Biology **Impact Factor: 4.528** Ranking: 6/37 [BCH]
61. Jiang, W., **M. Prescott, R.J. Devenish, L. Spiccia, and M.T. Hearn**, *Separation of hexahistidine fusion proteins with immobilized metal ion affinity chromatographic (IMAC) sorbents derived from M(N⁺)-tacn and its derivatives*. *Biotechnol Bioeng*, 2009. **103**(4): p. 747-756 Category: Biotechnology & Applied Microbiology **Impact Factor: 2.936** Ranking: 37/144 [BCH]
62. **Kaiserman, D. and P.I. Bird**, *REVIEW: Control of granzymes by serpins*. *Cell Death Differ*, 2009. **E-pub** p. 1-10 Category: Biochemistry & Molecular Biology **Impact Factor: 7.548** Ranking: 24/275 [BCH]
63. **Kaiserman, D., A.M. Buckle, P. Van Damme, J.A. Irving, R.H. Law, A.Y. Matthews, T. Bashtannyk-Puhlovich, C. Langendorf, P. Thompson, J. Vandekerckhove, K. Gevaert, J.C. Whisstock, and P.I. Bird**, *Structure of granzyme C reveals an unusual mechanism of protease autoinhibition*. *Proc Natl Acad Sci U S A*, 2009. **106**(14): p. 5587-5592 Category: Multidisciplinary Sciences **Impact Factor: 9.380** Ranking: 3/42 [BCH]

64. **Kennedy, C.L., D.J. Smith, D. Lyras, A. Chakravorty, and J.I. Rood**, *Programmed cellular necrosis mediated by the pore-forming alpha-toxin from Clostridium septicum*. PLoS Pathog, 2009. **5**(7): p. e1000516.1-e1000516.11 Category: Microbiology **Impact Factor: 9.125** Ranking: 5/91 [MICRO,BCH]
65. **Kerr, M.L., R. Gasperini, G.M. Gibbs, X. Hou, C.E. Shepherd, D.K. Strickland, L. Foa, A. Lawen, and D.H. Small**, *Inhibition of A{beta} aggregation and neurotoxicity by the 39-kDa receptor associated protein*. J Neurochem, 2009. **E-pub** p. 1-39 Category: Biochemistry & Molecular Biology **Impact Factor: 4.500** Ranking: 60/275 [ANT,BCH]
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