

**BIOCHEMISTRY & MOLECULAR BIOLOGY**  
**RESEARCH PUBLICATIONS**  
**FOR 2015**

Highlighted in **RED** = High Impact Factor (>8) paper with Monash first or last author  
Highlighted in **GREEN** = High Impact Factor (>8) paper but no first or last author or a Review paper

1. Aguilar, A., **K.M. Wagstaff**, R. Suarez-Sanchez, S. Zinker, **D.A. Jans** and B. Cisneros, *Nuclear localization of the dystrophin-associated protein alpha-dystrobrevin through importin alpha2/beta1 is critical for interaction with the nuclear lamina/maintenance of nuclear integrity*. FASEB J, 2015. **29**: p. 1-17 Category: Biochemistry & Molecular Biology **Impact Factor: 5.043** Ranking: 50/289 [**BCH**]
2. Ahn, S.B., C. Chan, O.F. Dent, A. Mohamedali, S.Y. Kwun, C. Clarke, J. Fletcher, P.H. Chapuis, **E.C. Nice** and M.S. Baker, *Epithelial and stromal cell urokinase plasminogen activator receptor expression differentially correlates with survival in rectal cancer stages B and C patients*. PLoS One, 2015. **10**(2): p. e0117786.1-19 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [**BCH**]
3. **Alhammad, Y., J. Gu**, I. Boo, D. Harrison, **K. McCaffrey, P.T. Vietheer**, S. Edwards, C. Quinn, **F. Coulibaly, P. Poubourios** and **H.E. Drummer**, *Monoclonal antibodies directed towards the Hepatitis C virus glycoprotein E2 detect antigenic differences modulated by HVR1, HVR2 and the igVR*. J Virol, 2015. **89**(24): p. 12245-12261 Category: Virology **Impact Factor: 4.439** Ranking: 7/33 [**MICRO,BCH**]
4. Allen, M.D., M. Christie, P. Jones, B.T. Porebski, B. Roome, S.M. Freund, **A.M. Buckle**, M. Bycroft and D. Christ, *SHORT COMMUNICATION: Solution structure of a soluble fragment derived from a membrane protein by shotgun proteolysis*. Protein Eng Des Sel, 2015. **28**(10): p. 445-450 Category: Biotechnology & Applied Microbiology **Impact Factor: 2.537** Ranking: 56/162 [**BCH**]
5. Alvisi, G. and **D.A. Jans**, *PREVIEWS: Basis of Cargo Recognition by Importin alphas: The Power of Structure*. Structure, 2015. **23**(2): p. 251-252 Category: Biochemistry & Molecular Biology **Impact Factor: 5.618** Ranking: 42/289 [**BCH**]
6. Alvisi, G. and **D.A. Jans**, *Regulating post-mitotic nuclear access: Cdk1-phosphorylation of NLSs*  
[Comment on: Roona G, et al. Dynamics of re-constitution of the human nuclear proteome after cell division is regulated by NLS-adjacent phosphorylation. Cell Cycle 2014; 13(22):3551-64; <http://dx.doi.org/10.4161/15384101.2014.960740>]. Cell Cycle, 2015. **14**(5): p. 695-696 Category: Cell Biology **Impact Factor: 4.565** Ranking: 57/184 [**BCH**]

7. Antignano, F. and **C. Zaph**, *REVIEW: Regulation of CD4 T-cell differentiation and inflammation by repressive histone methylation*. *Imm Cell Biol*, 2015. **93**(3): p. 245-252 Category: Immunology **Impact Factor: 4.147** Ranking: 35/148 **[BCH]**
8. Aquila, A., A. Barty, C. Bostedt, S. Boutet, G. Carini, D. DePonte, P. Drell, S. Doniach, K.H. Downing, T. Earnest, **H. Elmlund**, V. Elser, M. Gühr, J. Hajdu, J. Hastings, S.P. Hau-Riege, Z. Huang, E.E. Lattman, F.R.N.C. Maia, S. Marchesini, A. Ourmazd, C. Pellegrini, R. Santra, I. Schlichting, C. Schroer, J.C.H. Spence, I.A. Vartanyants, S. Wakatsuki, W.I. Weis and G.J. Williams, *The linac coherent light source single particle imaging road map*. *Strutural Dynamics*, 2015. **2**(4 [Article # 041701]): p. 1-14 **[BCH]**
9. Archer, S.K., N.E. Shirokikh, C.V. Hallwirth, **T.H. Beilharz** and T. Preiss, *BRIEF COMMUNICATION: "Probing the closed-loop model of mRNA translation in living cells"*. *RNA Biol*, 2015. **12**(3): p. 248-254 Category: Biochemistry & Molecular Biology **Impact Factor: 4.974** Ranking: 52/289 **[BCH]**
10. Arya, T., R. Reddi, C. Kishor, R.J. Ganji, S. Bhukya, R. Gumpena, **S. McGowan**, M. Drag and A. Addlagatta, *Identification of the molecular basis of inhibitor selectivity between the human and streptococcal type I methionine aminopeptidases*. *J Med Chem*, 2015. **58**(5): p. 2350-2357 Category: Chemistry, Medicinal **Impact Factor: 5.447** Ranking: 3/59 **[BCH]**
11. **Atkinson, S.C.**, J.S. Armistead, D.K. Mathias, M.M. Sandeu, D. Tao, N. Borhani-Dizaji, B.B. Tarimo, I. Morlais, R.R. Dinglasan and **N.A. Borg**, *The Anopheles-midgut APN1 structure reveals a new malaria transmission-blocking vaccine epitope*. *Nat Struct Mol Biol*, 2015. **22**(7): p. 532-539 Category: Biochemistry & Molecular Biology **Impact Factor: 13.309** Ranking: 7/289 **[BCH]**
12. Azad, A., **A. Lawen** and J.M. Keith, *Prediction of signaling cross-talks contributing to acquired drug resistance in breast cancer cells by Bayesian statistical modeling*. *BMC Syst Biol*, 2015. **9**: p. 2.1-17 Category: Mathematical & Computational Biology **Impact Factor: 2.435** Ranking: 12/56 **[BCH]**
13. **Baraldi, D.**, E.S. Jones, L.M. Hilliard, M. Del Borgo, T. Gaspari, C.A. McCarthy, A. Vinh, I. Welungoda, M.-I. Aguilar, K.M. Denton and R.E. Widdop, *Angiotensin-Based Peptides as AT2R Agonists*, in *The Protective Arm of the Renin Angiotensin System (RAS): Functional Aspects and Therapeutic Implications*, T. Unger, U.M. Steckelings, and R.A.S.d. Santos, Editors. **2015**, Academic Press: UK. p. 49-55 **Book Chapter [PHARM,PHY,BCH]**
14. Belle, L., N. Ali, A. Lonic, X. Li, J.L. Paltridge, S. Roslan, D. Herrmann, W.C. JR, F.K. Gehling, A.G. Bert, L.A. Crocker, A. Tsykin, G. Farshid, G.J. Goodall, P. Timpson, **R.J. Daly** and Y. Khew-Goodall, *The tyrosine phosphatase PTPN14 (Pez) inhibits metastasis by altering protein trafficking*. *Sci Signal*, 2015. **8**(364): p. ra18.1-13 Category: Biochemistry & Molecular Biology **Impact Factor: 6.279** Ranking: 35/289 **[BCH]**

15. Benham, H., H.J. Nel, S.C. Law, A.M. Mehdi, S. Street, N. Ramnoruth, H. Pahau, B.T. Lee, J. Ng, G.B. ME, C. Hyde, L.A. Trouw, **N.L. Dudek, A.W. Purcell**, B.J. O'Sullivan, J.E. Connolly, S.K. Paul, K.A. Le Cao and R. Thomas, *Citrullinated peptide dendritic cell immunotherapy in HLA risk genotype-positive rheumatoid arthritis patients*. *Sci Transl Med*, 2015. **7**(290): p. 290ra87.1-11 Category: Cell Biology **Impact Factor: 15.843** Ranking: 10/184 **[BCH]**
16. **Beringer, D.X.**, F.S. Kleijwegt, **F. Wiede**, A.R. van der Slik, **K.L. Loh, J. Petersen, N.L. Dudek**, G. Duinkerken, S. Laban, A. Joosten, **J.P. Vivian**, Z. Chen, A.P. Uldrich, D.I. Godfrey, J. McCluskey, D.A. Price, K.J. Radford, A.W. Purcell, T. Nikolic, **H.H. Reid, T. Tiganis**, B.O. Roep and **J. Rossjohn**, *T cell receptor reversed polarity recognition of a self-antigen major histocompatibility complex*. *Nat Immunol*, 2015. **16**(11): p. 1153-1161 Category: Immunology **Impact Factor: 20.004** Ranking: 4/148 **[BCH]**
17. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing Nomenclature for PBC: From 'Cirrhosis' to 'Cholangitis'*. *Gastroenterology*, 2015. **149**(6): p. 1627-1629 Category: Gastroenterology & Hepatology **Impact Factor: 16.716** Ranking: 1/76 **[BCH]**
18. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing nomenclature for PBC: From 'cirrhosis' to 'cholangitis'*. *Dig Liver Dis*, 2015. **47**(11): p. 924-926 Category: Gastroenterology & Hepatology **Impact Factor: 2.963** Ranking: 30/76 **[BCH]**
19. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing Nomenclature for PBC: From 'Cirrhosis' to 'Cholangitis'*. *Am J Gastroenterol*, 2015. **110**(11): p. 1536-1538 Category: Gastroenterology & Hepatology **Impact Factor: 10.755** Ranking: 6/76 **[BCH]**
20. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing Nomenclature for PBC: From 'Cirrhosis' to 'Cholangitis'*. *Clin Gastroenterol Hepatol*, 2015. **13**(11): p. 1867-1869 Category: Gastroenterology & Hepatology **Impact Factor: 7.896** Ranking: 7/76 **[BCH]**
21. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing nomenclature for PBC: From 'cirrhosis' to 'cholangitis'*. *J Hepatol*, 2015. **63**(5): p. 1285-1287 Category: Gastroenterology & Hepatology **Impact Factor: 11.336** Ranking: 4/76 **[BCH]**
22. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing nomenclature for PBC: from 'cirrhosis' to 'cholangitis'*. *Gut*, 2015. **64**(11): p. 1671-1672 Category: Gastroenterology & Hepatology **Impact Factor: 14.660** Ranking: 2/76 **[BCH]**

23. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing nomenclature for PBC: From 'cirrhosis' to 'cholangitis'*. *Hepatology*, 2015. **62**(5): p. 1620-1623 Category: Gastroenterology & Hepatology **Impact Factor: 11.055** Ranking: 5/76 **[BCH]**
24. Beuers, U., M.E. Gershwin, R.G. Gish, P. Invernizzi, D.E. Jones, K. Lindor, X. Ma, **I.R. Mackay**, A. Pares, A. Tanaka, J.M. Vierling and R. Poupon, *Changing nomenclature for PBC: From 'cirrhosis' to 'cholangitis'*. *Clin Res Hepatol Gastroenterol*, 2015. **39**(5): p. e57-59 Category: Gastroenterology & Hepatology **Impact Factor: 1.638** Ranking: 63/76 **[BCH]**
25. **Bird, A.D., A.R. McDougall, B. Seow**, S.B. Hooper and **T.J. Cole**, *Minireview: Glucocorticoid Regulation of Lung Development: Lessons Learned From Conditional GR Knockout Mice*. *Mol Endocrinol*, 2015. **29**(2): p. 158-171 Category: Endocrinology & Metabolism **Impact Factor: 4.022** Ranking: 35/128 **[BCH]**
26. **Birkinshaw, R.W.**, D.G. Pellicci, T.Y. Cheng, **A.N. Keller, M. Sandoval-Romero, S. Gras, A. de Jong, A.P. Uldrich, D.B. Moody, D.I. Godfrey** and **J. Rossjohn**, *{alpha} T cell antigen receptor recognition of CD1a presenting self lipid ligands*. *Nat Immunol*, 2015. **16**(3): p. 258-266 Category: Immunology **Impact Factor: 20.004** Ranking: 4/148 **[BCH]**
27. Breugelmans, B., B.R. Ansell, N.D. Young, P. Amani, A.J. Stroehlein, P.W. Sternberg, A.R. Jex, **P.R. Boag**, A. Hofmann and R.B. Gasser, *Flatworms have lost the right open reading frame kinase 3 gene during evolution*. *Sci Rep*, 2015. **5**: p. 9417.1-9 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/56 **[BCH]**
28. Bythell-Douglas, R., U. Suttisansanee, G.R. Flematti, M. Challenor, M. Lee, **S. Panjekar**, J.F. Honek and C.S. Bond, *The Crystal Structure of a Homodimeric Pseudomonas Glyoxalase I Enzyme Reveals Asymmetric Metallation Commensurate with Half-of-Sites Activity*. *Chemistry*, 2015. **21**(2): p. 541-544 Category: Chemistry, Multidisciplinary **Impact Factor: 5.731** Ranking: 22/157 **[BCH]**
29. Calderone, R., D. Li and **A. Traven**, *System-level impact of mitochondria on fungal virulence: to metabolism and beyond*. *FEMS Yeast Res*, 2015. **15**(4): p. 1-11 Category: Biotechnology & Applied Microbiology **Impact Factor: 2.818** Ranking: 52/162 **[BCH]**
30. **Caly, L.**, R. Ghildyal and **D.A. Jans**, *REVIEW: Respiratory virus modulation of host nucleocytoplasmic transport; target for therapeutic intervention?* *Front Microbiol*, 2015. **6**(Article 848): p. 1-12 Category: Microbiology **Impact Factor: 3.989** Ranking: 27/119 **[BCH]**
31. Cameron, G., D.G. Pellicci, A.P. Uldrich, G.S. Besra, P. Illarionov, S.J. Williams, N.L. La Gruta, **J. Rossjohn** and D.I. Godfrey, *Antigen Specificity of Type I NKT Cells Is Governed by TCR beta-Chain Diversity*. *J Immunol*, 2015. **195**(10): p. 4604-4614 Category: Immunology **Impact Factor: 4.922** Ranking: 26/148 **[BCH]**

32. Cantor, D.I., H.R. Cheruku, **E.C. Nice** and M.S. Baker, *NON-THERMATIC REVIEW: Integrin alphavbeta6 sets the stage for colorectal cancer metastasis*. *Cancer Metastasis Rev*, 2015. **34**(4): p. 715-734 Category: Oncology **Impact Factor: 7.234** Ranking: 17/211 **[BCH]**
33. Cantor, D.I., **E.C. Nice** and M.S. Baker, *Recent findings from the human proteome project: opening the mass spectrometry toolbox to advance cancer diagnosis, surveillance and treatment*. *Expert Rev Proteomics*, 2015. **12**(3): p. 279-293 Category: Biochemical Research Methods **Impact Factor: 2.896** Ranking: 30/79 **[BCH]**
34. Caron, E., L. Espona, D.J. Kowalewski, H. Schuster, N. Ternette, A. Alpizar, **R.B. Schittenhelm, S.H. Ramarathinam, C.S. Lindestam Arlehamn, C. Chiek Koh, L.C. Gillet, A. Rabsteyn, P. Navarro, S. Kim, H. Lam, T. Sturm, M. Marcilla, A. Sette, D.S. Campbell, E.W. Deutsch, R.L. Moritz, A.W. Purcell, H.G. Rammensee, S. Stevanovic and R. Aebersold**, *An open-source computational and data resource to analyze digital maps of immunopeptidomes*. *Elife*, 2015. **4**(July 2015): p. 1-17 Category: Biology **Impact Factor: 9.322** Ranking: 3/85 **[BCH]**
35. **Chaisakul, J., G.K. Isbister, M.A. O'Leary, H.C. Parkinson, A.I. Smith, W.C. Hodgson and S. Kuruppu**, *Prothrombin activator-like toxin appears to mediate cardiovascular collapse following envenoming by Pseudonaja textilis*. *Toxicon*, 2015. **102**: p. 48-54 Category: Pharmacy & Pharmacology **Impact Factor: 2.492** Ranking: 115/254 **[PHARM,PHY,BCH]**
36. Chang, C.C., B.T. Tey, **J. Song** and R.N. Ramanan, *Towards more accurate prediction of protein folding rates: a review of the existing web-based bioinformatics approaches*. *Brief Bioinform*, 2015. **16**(2): p. 314-324 Category: Mathematical & Computational Biology **Impact Factor: 9.617** Ranking: 2/52 **[BCH]**
37. **Chang, F.T., F.L. Chan, R.M. JD, M. Udugama, L. Mayne, P. Collas, J.R. Mann and L.H. Wong**, *CHK1-driven histone H3.3 serine 31 phosphorylation is important for chromatin maintenance and cell survival in human ALT cancer cells*. *Nucleic Acids Res*, 2015. **43**(5): p. 2603-2614 Category: Biochemistry & Molecular Biology **Impact Factor: 9.112** Ranking: 20/289 **[BCH]**
38. **Chen, J.L.**, K.L. Walton, S.L. Al-Musawi, E.K. Kelly, H. Qian, M. La, L. Lu, G. Lovrecz, M. Ziemann, R. Lazarus, A. El-Osta, **P. Gregorevic** and **C.A. Harrison**, *Development of Novel Activin-Targeted Therapeutics*. *Mol Ther*, 2015. **23**(3): p. 434-444 Category: Biotechnology & Applied Microbiology **Impact Factor: 6.227** Ranking: 12/162 **[BCH,PHY]**
39. Chen, P., O.A. Aguilar, M.M. Rahim, D.S. Allan, J.H. Fine, C.L. Kirkham, J. Ma, M. Tanaka, M.M. Tu, A. Wight, V. Kartsogiannis, **M.T. Gillespie**, A.P. Makrigiannis and J.R. Carlyle, *Genetic Investigation of MHC-Independent Missing-Self Recognition by Mouse NK Cells Using an In Vivo Bone Marrow Transplantation Model*. *J Immunol*, 2015. **194**(6): p. 2909-2918 Category: Immunology **Impact Factor: 4.922** Ranking: 26/148 **[BCH]**

40. Chen, Z., Y. Zhou, Z. Zhang and **J. Song**, *Towards more accurate prediction of ubiquitination sites: a comprehensive review of current methods, tools and features*. *Brief Bioinform*, 2015. **16**(4): p. 640-657 Category: Biochemical Research Methods **Impact Factor: 9.617** Ranking: 3/79 **[BCH]**
41. Cheruku, H.R., A. Mohamedali, D. Cantor, S.H. Tan, **E.C. Nice** and M.S. Baker, *Transforming growth factor- $\beta$ , MAPK and Wnt signaling interactions in colorectal cancer*. *EuPA Open Proteomics*, 2015. **8**: p. 104-115 Category: Integrative & Complementary Medicine **Impact Factor: 0.777** Ranking: 20/24 **[BCH]**
42. Chiu, E., **M. Hijnen**, R.D. Bunker, **M. Boudes**, C. Rajendran, **K. Aizel**, V. Olieric, C. Schulze-Briese, W. Mitsuhashi, V. Young, V.K. Ward, M. Bergoin, P. Metcalf and **F. Coulibaly**, *Structural basis for the enhancement of virulence by viral spindles and their in vivo crystallization*. *Proc Natl Acad Sci U S A*, 2015. **112**(13): p. 3973-3978 Category: Multidisciplinary Sciences **Impact Factor: 9.674** Ranking: 4/56 **[BCH]**
43. Chu, K.Y., L. O'Reilly, **G. Ramm** and T.J. Biden, *SHORT COMMUNICATION: High-fat diet increases autophagic flux in pancreatic beta cells in vivo and ex vivo in mice*. *Diabetologia*, 2015. **58**(9): p. 2074-2078 Category: Endocrinology & Metabolism **Impact Factor: 6.880** Ranking: 11/124 **[BCH]**
44. **Clayton, D., I. Hanchapola, W.G. Thomas, R.E. Widdop, A.I. Smith**, P. Perlmutter and **M.I. Aguilar**, *Structural determinants for binding to angiotensin converting enzyme 2 (ACE2) and angiotensin receptors 1 and 2*. *Front Pharmacol*, 2015. **6**(Article 5): p. 1-9 Category: Pharmacology & Pharmacy **Impact Factor: 3.802** Ranking: 49/254 **[BCH,PHARM]**
45. Close, D.W., **C. Don Paul**, P.S. Langan, **M.C.J. Wilce, D.A.K. Traore**, R. Halfmann, R.C. Rocha, G.S. Walso, R.I. Payne, J.B. Rucker, **M. Prescott** and A.R.M. Bradbury, *Thermal green protein, an extremely stable, nonaggregating fluorescent protein created by structure-guided surface engineering*. *Proteins: Struc Func Bioinform*, 2015. **83**(7): p. 1225-1237 Category: Biochemistry & Molecular Biology **Impact Factor: 2.627** Ranking: 148/289 **[BCH]**
46. Coad, B.R., S.J. Lamont-Friedrich, L. Gwynne, M. Jasieniak, S.S. Griesser, **A. Traven, A.Y. Peleg** and H.J. Griesser, *Surface coatings with covalently attached caspofungin are effective in eliminating fungal pathogens*. *J Mat Chem B*, 2015. **3**(43): p. 8469-8476 Category: Materials Science, Biomaterials **Impact Factor: 4.726** Ranking: 6/33 **[BCH,MICRO]**
47. **Cole, T.J., L. Terella**, J. Morgan, M. Alexiadis, Y.Z. Yao, P. Enriori, **M.J. Young** and **P.J. Fuller**, *Aldosterone-mediated renal sodium transport requires intact mineralocorticoid receptor DNA-binding in the mouse*. *Endocrinology*, 2015. **156**(8): p. 2958-2968 Category: Endocrinology & Metabolism **Impact Factor: 4.503** Ranking: 28/128 **[BCH,PHY]**



48. Cork, A.J., D.J. Ericsson, **R.H. Law**, L.W. Casey, E. Valkov, C. Bertozzi, A. Stamp, B. Jovcevski, J.A. Aquilina, **J.C. Whisstock**, M.J. Walker and B. Kobe, *Stability of the octameric structure affects plasminogen-binding capacity of streptococcal enolase*. PLoS One, 2015. **10**(3): p. e0121764.1-18 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[BCH]**
49. **Cottle, D.L., G.M. Ursino, S.C. Ip, L.K. Jones, T. Ditommaso**, D.F. Hacking, N.E. Mangan, N.A. Mellett, K.J. Henley, D. Sviridov, C.A. Nold-Petry, M.F. Nold, P.J. Meikle, B.T. Kile and **I.M. Smyth**, *Fetal inhibition of inflammation improves disease phenotypes in harlequin ichthyosis*. Hum Mol Genet, 2015. **24**(2): p. 436-449 Category: Biochemistry & Molecular Biology **Impact Factor: 6.393** Ranking: 32/289 **[BCH,ANT]**
50. **Cotton, L.M., M.L. Meilak, T. Templeton**, J.G. Gonzales, A. Nenci, M. Cooney, **D. Truman, F. Rodda, A. Lynas**, E. Viney, N. Rosenthal, **D.M. Bianco, M.K. O'Bryan** and **I.M. Smyth**, *Utilising the resources of the International Knockout Mouse Consortium: the Australian experience*. Mamm Genome, 2015. **26**(3-4): p. 142-153 Category: Biochemistry & Molecular Biology **Impact Factor: 3.068** Ranking: 120/289 **[ANT,BCH]**
51. **Croft, N.P., D.A. de Verteuil**, S.A. Smith, Y.C. Wong, **R.B. Schittenhelm**, D.C. Tschärke and **A.W. Purcell**, *Simultaneous quantification of viral antigen expression kinetics using data-independent mass spectrometry*. Mol Cell Proteomics, 2015. **14**(5): p. 1361-1372 Category: Biochemical Research Methods **Impact Factor: 6.564** Ranking: 5/79 **[BCH]**
52. **Croft, N.P., A.W. Purcell** and D.C. Tschärke, *REVIEW: Quantifying epitope presentation using mass spectrometry*. Mol Immunol, 2015. **68**(2 - Part A): p. 77-80 Category: Biochemistry & Molecular Biology **Impact Factor: 2.973** Ranking: 127/289 **[BCH]**
53. Csefalvay, E., M. Lapkouski, A. Guzanova, L. Csefalvay, T. Baikova, I. Shevelev, V. Bialevich, K. Shamayeva, P. Janscak, I. Kuta Smatanova, **S. Panjekar**, J. Carey, M. Weiserova and R. Ettrich, *Functional coupling of duplex translocation to DNA cleavage in a type I restriction enzyme*. PLoS One, 2015. **10**(6): p. e0128700.1-21 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[BCH]**
54. Cukalac, T., W.T. Kan, P. Dash, J. Guan, K.M. Quinn, **S. Gras**, P.G. Thomas and N.L. La Gruta, *Paired TCR $\alpha$  analysis of virus-specific CD8 T cells exposes diversity in a previously defined 'narrow' repertoire*. Immunol Cell Biol, 2015. **E-pub**: p. 1-11 Category: Immunology **Impact Factor: 4.147** Ranking: 35/148 **[BCH]**
55. **Daley, S.R.**, *NEWS AND COMMENTARY: MHCI and CD8 lineage commitment. Prolonged access to thymic epithelial MHCI seals CD8(+) lineage commitment*. Immunol Cell Biol, 2015. **93**(4): p. 326-327 Category: Cell Biology **Impact Factor: 4.205** Ranking: 71/185 **[BCH]**

56. D'Arcy, C., V. Kanellakis, R. Forbes, **B. Wilding, M. McGrath**, K. Howell, M. Ryan and C. McLean, *BRIEF COMMUNICATION: X-linked Recessive Distal Myopathy With Hypertrophic Cardiomyopathy Caused by a Novel Mutation in the FHL1 Gene*. *J Child Neurol*, 2015. **30**(9): p. 1211-1217 Category: Pediatrics **Impact Factor: 1.717** Ranking: 47/119 **[BCH]**
57. **Davies, E.M., A.M. Kong, A. Tan, R. Gurung, A. Sriratana, P.E. Bukczynska, L.M. Ooms, C.A. McLean, T. Tiganis and C.A. Mitchell**, *Differential SKIP expression in PTEN-deficient glioblastoma regulates cellular proliferation and migration*. *Oncogene*, 2015. **34**(28): p. 3711-3727 Category: Oncology **Impact Factor: 8.459** Ranking: 13/211 **[BCH]**
58. de Kretser, D.M., **K.L. Loveland** and **M.K. O'Bryan**, *Spermatogenesis*, in *Endocrinology: Adult & Pediatric Vols 1 and 2*, L.D.G. J L Jameson, D M de Kretser, L C Giudice, A B Grossman, S Melmed, J T Potts Jr. and G C Weir, Editor. 2015, Elsevier: USA. p. 2325-2353 **Book Chapter [ANT,BCH]**
59. De Oliveira, D.M., **R.H. Law**, D. Ly, S.M. Cook, **A.J. Quek**, J.D. McArthur, **J.C. Whisstock** and M.L. Sanderson-Smith, *Preferential Acquisition and Activation of Plasminogen Glycoform II by PAM Positive Group A Streptococcal Isolates*. *Biochemistry*, 2015. **54**(25): p. 3960-3968 Category: Biochemistry & Molecular Biology **Impact Factor: 3.015** Ranking: 123/289 **[BCH]**
60. **Deen, N.S., L. Gong, T. Naderer, R.J. Devenish** and **T. Kwok**, *Analysis of the Relative Contribution of Phagocytosis, LC3-Associated Phagocytosis, and Canonical Autophagy During Helicobacter pylori Infection of Macrophages*. *Helicobacter*, 2015. **20**(6): p. 449-459 Category: Gastroenterology & Hepatology **Impact Factor: 4.106** Ranking: 18/76 **[BCH,MICRO]**
61. **Del Borgo, M., Y. Wang, S. Bosnyak, M. Khan, P. Walters, I. Spizzo**, P. Perlmutter, **L. Hilliard, K. Denton, M.I. Aguilar, R.E. Widdop** and **E.S. Jones**, *{beta}-Pro7Ang III is a novel highly selective angiotensin II type 2 receptor (AT2R) agonist, which acts as a vasodepressor agent via the AT2R in conscious spontaneously hypertensive rats*. *Clin Sci (Lond)*, 2015. **129**(6): p. 505-513 Category: Medical, Research & Experimental **Impact Factor: 5.598** Ranking: 13/123 **[PHARM,BCH,PHY]**
62. **Devenish, R.J.** and **S.C. Lai**, *REVIEW: Autophagy and Burkholderia*. *Immunol Cell Biol*, 2015. **93**(1): p. 18-24 Category: Immunology **Impact Factor: 4.147** Ranking: 35/148 **[BCH]**
63. **Devenish, R.J. and M. Prescott**, *Autophagy: starvation relieves transcriptional repression of ATG genes*. *Curr Biol*, 2015. **25**(6): p. R238-240 Category: Biochemistry & Molecular Biology **Impact Factor: 9.571** Ranking: 15/289 **[BCH]**
64. Diesch, J., **R.D. Hannan** and E. Sanij, *DATA IN BRIEF: Genome wide mapping of UBF binding-sites in mouse and human cell lines*. *Genomics Data*, 2015. **3**: p. 103-105 **[BCH]**



65. **Dodd, G.T., S. Decherf, K. Loh, S.E. Simonds, F. Wiede, E. Balland, T.L. Merry, H. Munzberg, Z.Y. Zhang, B.B. Kahn, B.G. Neel, K.K. Bence, Z.B. Andrews, M.A. Cowley and T. Tiganis, *Leptin and insulin act on POMC neurons to promote the browning of white fat.* Cell, 2015. **160**(1-2): p. 88-104 Category: Biochemistry & Molecular Biology **Impact Factor: 32.242** Ranking: 1/289 [BCH,PHY]**
66. **Don Paul, C., D.A. Traore, S. Olsen, R.J. Devenish, D.W. Close, T.D. Bell, A. Bradbury, M.C. Wilce and M. Prescott, *X-Ray Crystal Structure and Properties of Phanta, a Weakly Fluorescent Photochromic GFP-Like Protein.* PLoS One, 2015. **10**(4): p. e0123338.1-23 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [BCH]**
67. **Drentin, N., P. Conroy, M.J. Gunzburg, R.N. Pike and L.C. Wijeyewickrema, *Investigation of the mechanism of interaction between Mannose-binding lectin-associated serine protease-2 and complement C4.* Mol Immunol, 2015. **E-pub**: p. 1-7 Category: Biochemistry & Molecular Biology **Impact Factor: 2.973** Ranking: 127/289 [BCH]**
68. **Drinkwater, N., R.S. Bamert, K. Kannan Sivaraman, A. Paiardini and S. McGowan, *X-ray crystal structures of an orally available aminopeptidase inhibitor, Tosedostat, bound to anti-malarial drug targets PfA-M1 and PfA-M17.* Proteins, 2015. **83**(4): p. 789-795 Category: Biochemistry & Molecular Biology **Impact Factor: 2.627** Ranking: 148/289 [BCH]**
69. **Dunstan, R.A., I.D. Hay, J.J. Wilksch, R.B. Schittenhelm, A.W. Purcell, J. Clark, A. Costin, G. Ramm, R.A. Strugnell and T. Lithgow, *Assembly of the secretion pores GspD, Wza and CsgG into bacterial outer membranes does not require the Omp85 proteins BamA or TamA.* Mol Microbiol, 2015. **97**(4): p. 616-629 Category: Biochemistry & Molecular Biology **Impact Factor: 4.419** Ranking: 66/289 [MICRO,BCH]**
70. **Eckle, S.B., A.J. Corbett, A.N. Keller, Z. Chen, D.I. Godfrey, L. Liu, J.Y. Mak, D.P. Fairlie, J. Rossjohn and J. McCluskey, *Minireview: Recognition of Vitamin B precursors and byproducts by Mucosal Associated Invariant T cells.* J Biol Chem, 2015. **290**(51): p. 30204-30211 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/290 [BCH]**
71. **Eeles, D.G., J.M. Hodge, P.P. Singh, J.A. Schuijers, B.L. Grills, M.T. Gillespie, D.E. Myers and J.M. Quinn, *Osteoclast formation elicited by interleukin-33 stimulation is dependent upon the type of osteoclast progenitor.* Mol Cell Endocrinol, 2015. **399C**: p. 259-266 Category: Endocrinology & Metabolism **Impact Factor: 4.405** Ranking: 30/128 [BCH]**
72. **Elewa, A., M. Shirayama, E. Kaymak, P.F. Harrison, D.R. Powell, Z. Du, C.D. Chute, H. Woolf, D. Yi, T. Ishidate, J. Srinivasan, Z. Bao, T.H. Beilharz, S.P. Ryder and C.C. Mello, *POS-1 Promotes Endo-mesoderm Development by Inhibiting the Cytoplasmic Polyadenylation of neg-1 mRNA.* Dev Cell, 2015. **34**(1): p. 108-118 Category: Cell Biology **Impact Factor: 9.708** Ranking: 19/184 [MICRO,BCH]**

73. Elgass, K.D., E.A. Smith, M.A. LeGros, C.A. Larabell and **M.T. Ryan**, *Analysis of ER-mitochondria contacts using correlative fluorescence microscopy and soft X-ray tomography of mammalian cells*. J Cell Sci, 2015. **128**(15): p. 2795-2804 Category: Cell Biology **Impact Factor: 5.432** Ranking: 41/184 [**BCH**]
74. **Ellisdon, A.M., C.F. Reboul, S. Panjekar, K. Huynh, C.A. Oellig, K.L. Winter, M.A. Dunstone, W.C. Hodgson, J. Seymour, P.K. Dearden, R.K. Tweten, J.C. Whisstock and S. McGowan**, *Stonefish toxin defines an ancient branch of the perforin-like superfamily*. Proc Natl Acad Sci U S A, 2015. **112**(50): p. 15360-15365 Category: Multidisciplinary Sciences **Impact Factor: 9.674** Ranking: 4/57 [**BCH,MICRO,PHARM**]
75. **Elmlund, D. and H. Elmlund**, *REVIEW: Cryogenic electron microscopy and single-particle analysis*. Annu Rev Biochem, 2015. **84**: p. 499-517 Category: Biochemistry & Molecular Biology **Impact Factor: 30.283** Ranking: 2./289 [**BCH**]
76. **Fatima, S., K.M. Wagstaff, K.L. Loveland and D.A. Jans**, *Interactome of the negative regulator of nuclear import BRCA1-binding protein 2*. Sci Rep, 2015. **5**(9459): p. 1-9 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/56 [**BCH,ANT**]
77. **Feeney, S.J., M.J. McGrath, A. Sriratana, S.M. Gehrig, G.S. Lynch, C.E. D'Arcy, J.T. Price, C.A. McLean, R. Tupler and C.A. Mitchell**, *FHL1 Reduces Dystrophy in Transgenic Mice Overexpressing FSHD Muscular Dystrophy Region Gene 1 (FRG1)*. PLoS One, 2015. **10**(2): p. e0117665.1-29 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [**BCH**]
78. Feng, S., L. Zhou, C. Huang, K. Xie and **E.C. Nice**, *Interactomics: toward protein function and regulation*. Expert Rev Proteomics, 2015. **12**(1): p. 37-60 Category: Biochemical Research Methods **Impact Factor: 2.896** Ranking: 30/79 [**BCH**]
79. Feng, S., L. Zhou, **E.C. Nice** and C. Huang, *REVIEWS: Fibroblast growth factor receptors: multifactorial-contributors to tumor initiation and progression*. Histol Histopathol, 2015. **2015**(30): p. 1 Category: Cell Biology **Impact Factor: 2.096** Ranking: 138/184 [**BCH**]
80. Fernandez, C.S., T. Amarasena, A.D. Kelleher, **J. Rossjohn**, J. McCluskey, D.I. Godfrey and S.J. Kent, *MAIT cells are depleted early but retain functional cytokine expression in HIV infection*. Immunol Cell Biol, 2015. **93**(2): p. 177-188 Category: Immunology **Impact Factor: 4.147** Ranking: 35/148 [**BCH**]
81. Ferrero, D., **D. Garriga**, A. Navarro, J.F. Rodriguez and N. Verdaguer, *The infectious bursal disease virus VP3 upregulates VP1-mediated RNA-dependent RNA replication*. J Virol, 2015. **89**(21): p. 11165-11168 Category: Virology **Impact Factor: 4.439** Ranking: 7/33 [**BCH**]

82. **Formosa, L.E.**, M. Mimaki, A.E. Frazier, M. McKenzie, T.L. Stait, D.R. Thorburn, **D.A. Stroud** and **M.T. Ryan**, *Characterization of mitochondrial FOXRED1 in the assembly of respiratory chain complex I*. Hum Mol Genet, 2015. **24**(10): p. 2952-2965 Category: Biochemistry & Molecular Biology **Impact Factor: 6.393** Ranking: 32/289 [BCH]
83. **Fuller, P.J.** and M.J. Young, *Aldosterone secretion and action*, in *Endocrinology: Adult & Pediatric Vols 1 and 2*, L.D.G. J L Jameson, D M de Kretser, L C Giudice, A B Grossman, S Melmed, J T Potts Jr. and G C Weir, Editor. 2015, Elsevier: USA. p. 1756-1762 **Book Chapter** [BCH]
84. Fung, K.Y., B. Tabor, M.J. Buckley, I.K. Priebe, L. Purins, C. Pompeia, G.V. Brierley, T. Lockett, P. Gibbs, J. Tie, P. McMurrick, J. Moore, A. Ruszkiewicz, **E.C. Nice**, T.E. Adams, A. Burgess and L.J. Cosgrove, *Blood-based protein biomarker panel for the detection of colorectal cancer*. PLoS One, 2015. **10**(3): p. e0120425.1-11 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [BCH]
85. Galvis, L.A., A.Z. Holik, **K.M. Short**, J. Pasquet, A.T. Lun, M.E. Blewitt, **I.M. Smyth**, M.E. Ritchie and M.L. Asselin-Labat, *Repression of Igf1 expression by Ezh2 prevents basal cell differentiation in the developing lung*. Development, 2015. **142**: p. 1 Category: Developmental Biology **Impact Factor: 6.462** Ranking: 4/41 [BCH,ANT]
86. Gartlan, K.H., K.A. Markey, A. Varelias, M.D. Bunting, M. Koyama, R.D. Kuns, N.C. Raffelt, S.D. Olver, K.E. Lineburg, M. Cheong, B.E. Teal, M. Lor, I. Comerford, M.W. Teng, M.J. Smyth, J. McCluskey, **J. Rossjohn**, B. Stockinger, G.M. Boyle, S.W. Lane, A.D. Clouston, S.R. McColl, K.P. MacDonald and G.R. Hill, *Tc17 cells are a pro-inflammatory, plastic lineage of pathogenic CD8+ T-cells that induce GVHD without anti-leukemic effects*. Blood, 2015. **126**(13): p. 1609-1620 Category: Hematology **Impact Factor: 10.452** Ranking: 2/68 [BCH]
87. **Giam, K.**, **R. Ayala-Perez**, **P.T. Illing**, **R.B. Schittenhelm**, **N.P. Croft**, **A.W. Purcell** and **N.L. Dudek**, *BRIEF COMMUNICATION: A comprehensive analysis of peptides presented by HLA-A1*. Tissue Antigens, 2015. **85**(6): p. 492-496 Category: Cell Biology **Impact Factor: 2.137** Ranking: 136/184 [BCH]
88. Giardina, G., P. Brunotti, A. Fiascarelli, A. Cicalini, M.G. Costa, **A.M. Buckle**, M.L. di Salvo, A. Giorgi, M. Marani, A. Paone, S. Rinaldo, A. Paiardini, R. Contestabile and F. Cutruzzola, *How pyridoxal 5'-phosphate differentially regulates human cytosolic and mitochondrial serine hydroxymethyltransferase oligomeric state*. FEBS J, 2015. **282**(7): p. 1225-1241 Category: Biochemistry & Molecular Biology **Impact Factor: 4.001** Ranking: 77/289 [BCH]
89. Gilan, O., J. Diesch, M. Amalia, K. Jastrzebski, A. Chueh, N.M. Verrills, **R.B. Pearson**, J.M. Mariadason, E. Tulchinsky, **R.D. Hannan** and A.S. Dhillon, *PR55{alpha}-containing protein phosphatase 2A complexes promote cancer cell migration and invasion through regulation of AP-1 transcriptional activity*. Oncogene, 2015. **34**(10): p. 1333-1339 Category: Oncology **Impact Factor: 8.459** Ranking: 13/211 [BCH]

90. **Giousoh, A.**, R. Vaz, R.J. Bryson-Richardson, **J.C. Whisstock**, H. Verkade and **P.I. Bird**, *Bone morphogenetic protein/retinoic acid inducible neural-specific protein (brinp) expression during Danio rerio development*. Gene Expr Patterns, 2015. **18**(1-2): p. 37-43 Category: Genetics & Heredity **Impact Factor: 1.872** Ranking: 137/167 **[BCH]**
91. Godfrey, D.I., A.P. Uldrich, J. McCluskey, **J. Rossjohn** and D.B. Moody, *REVIEW: The burgeoning family of unconventional T cells*. Nat Immunol, 2015. **16**(11): p. 1114-1123 Category: Immunology **Impact Factor: 20.004** Ranking: 4/148 **[BCH]**
92. Gold, M.J., M.R. Hughes, F. Antignano, J.A. Hirota, **C. Zaph** and K.M. McNagny, *Lineage-specific regulation of allergic airway inflammation by the lipid phosphatase Src homology 2 domain-containing inositol 5-phosphatase (SHIP-1)*. J Allergy Clin Immunol, 2015. **136**(3): p. 725-736 e2 Category: Immunology **Impact Factor: 11.476** Ranking: 6/148 **[BCH]**
93. **Gong, L.**, **S.C. Lai**, **P. Treerat**, **M. Prescott**, **B. Adler**, **J.D. Boyce** and **R.J. Devenish**, *Burkholderia pseudomallei type III secretion system cluster 3 ATPase BsaS: a chemotherapeutic target for small molecule ATPase inhibitors*. Infect Immun, 2015. **83**(4): p. 1276-1285 Category: Infectious Diseases **Impact Factor: 3.731** Ranking: 23/78 **[BCH,MICRO]**
94. **Gopalan, R.D.**, **M.P. Del Borgo**, A.I. Mechler, P. Perlmutter and **M.I. Aguilar**, *MINI REVIEW: Geometrically Precise Building Blocks: the Self-Assembly of beta-Peptides*. Chem Biol, 2015. **22**(11): p. 1417-1423 Category: Biochemistry & Molecular Biology **Impact Factor: 6.645** Ranking: 30/290 **[BCH]**
95. Gorasia, D.G., **N.L. Dudek**, P.D. Veith, R. Shankar, H. Safavi-Hemami, N.A. Williamson, E.C. Reynolds, M.J. Hubbard and **A.W. Purcell**, *Pancreatic beta cells are highly susceptible to oxidative and ER stresses during the development of diabetes*. J Proteome Res, 2015. **14**(2): p. 688-699 Category: Biochemical Research Methods **Impact Factor: 4.245** Ranking: 14/79 **[BCH]**
96. Gu, R., L.L. Santos, D. Ngo, H. Fan, P.P. Singh, G. Fingerle-Rowson, R. Bucala, J. Xu, **J.M. Quinn** and E.F. Morand, *Macrophage migration inhibitory factor is essential for osteoclastogenic mechanisms in vitro and in vivo mouse model of arthritis*. Cytokine, 2015. **72**(2): p. 135-145 Category: Biochemistry & Molecular Biology **Impact Factor: 2.664** Ranking: 146/289 **[BCH]**
97. **Gunzburg, M.J.**, **A. Sivakumaran**, **N.R. Pardini**, J.H. Yoon, M. Gorospe, **M.C. Wilce** and **J.A. Wilce**, *Cooperative interplay of let-7 mimic and HuR with MYC RNA*. Cell Cycle, 2015. **14**(17): p. 2729-2733 Category: Cell Biology **Impact Factor: 4.565** Ranking: 57/184 **[BCH]**

98. Hadsell, D.L., L.A. Hadsell, W. Olea, M. Rijnkels, C.J. Creighton, **I.M. Smyth, K.M. Short**, L.L. Cox and T.C. Cox, *In-silico QTL mapping of postpubertal mammary ductal development in the mouse uncovers potential human breast cancer risk loci*. *Mamm Genome*, 2015. **26**(1-2): p. 57-79 Category: Biochemistry & Molecular Biology **Impact Factor: 3.068** Ranking: 120/289 **[BCH]**
99. Halls, M.L., D.P. Poole, **A.M. Ellisdon**, C.J. Nowell and M. Canals, *Detection and Quantification of Intracellular Signaling Using FRET-Based Biosensors and High Content Imaging*, in *Methods Mol Biol*, M. Filizola, Editor. 2015, Humana Press: USA. p. 131-161 **Book Chapter [BCH]**
100. Hardy, M.Y., J.A. Tye-Din, J.A. Stewart, F. Schmitz, **N.L. Dudek, I. Hanchapola, A.W. Purcell** and R.P. Anderson, *Ingestion of oats and barley in patients with celiac disease mobilizes cross-reactive T cells activated by avenin peptides and immuno-dominant hordein peptides*. *J Autoimmun*, 2015. **56**: p. 56-65 Category: Immunology **Impact Factor: 8.410** Ranking: 10/148 **[BCH]**
101. **Hare, L.M.**, Q. Schwarz, S. Wiszniak, **R. Gurung**, K.G. Montgomery, **C.A. Mitchell** and **W.A. Phillips**, *Heterozygous expression of the oncogenic *Pik3ca* mutation during murine development results in fatal embryonic and extraembryonic defects*. *Dev Biol*, 2015. **404**(1): p. 14-26 Category: Developmental Biology **Impact Factor: 3.547** Ranking: 9/41 **[BCH]**
102. **Harrison, P.F., D.R. Powell**, J.L. Clancy, T. Preiss, **P.R. Boag, A. Traven, T. Seemann** and **T.H. Beilharz**, *PAT-seq: a method to study the integration of 3'-UTR dynamics with gene expression in the eukaryotic transcriptome*. *RNA*, 2015. **21**(8): p. 1502-1510 Category: Biochemistry & Molecular Biology **Impact Factor: 4.936** Ranking: 53/289 **[MICRO,BCH]**
103. Hasan, M.M., Y. Zhou, X. Lu, J. Li, **J. Song** and Z. Zhang, *Computational Identification of Protein Pupylation Sites by Using Profile-Based Composition of k-Spaced Amino Acid Pairs*. *PLoS One*, 2015. **10**(6): p. e0129635.1-20 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[BCH]**
104. Hassan, C., E. Chabrol, L. Jahn, M.G. Kester, A.H. de Ru, J.W. Drijfhout, **J. Rossjohn**, J.H. Falkenburg, M.H. Heemskerk, **S. Gras** and P.A. van Veelen, *Naturally Processed Non-canonical HLA-A\*02:01 Presented Peptides*. *J Biol Chem*, 2015. **290**(5): p. 2593-2603 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/289 **[BCH]**
105. Haupt, S., D. Buckley, J.M. Pang, J. Panimaya, P.J. Paul, C. Gamell, E.A. Takano, Y. Ying Lee, S. Hiddingh, T.M. Rogers, A.F. Teunisse, M.J. Herold, J.C. Marine, S.B. Fox, A. Jochemsen and **Y. Haupt**, *Targeting *Mdmx* to treat breast cancers with wild-type *p53**. *Cell Death Dis*, 2015. **6**(e1821): p. 1-11 Category: Cell Biology **Impact Factor: 5.014** Ranking: 50/184 **[BCH]**

106. Haupt, S., D. Raghu and **Y. Haupt**, *GENERAL COMMENTARY: p53 Calls upon CIA (Calcium Induced Apoptosis) to Counter Stress*. *Front Oncol*, 2015. **5**(57): p. 1-3 [**BCH**]
107. Headey, S.J., **A. Sivakumaran, V. Adams, D. Lyras, J.I. Rood**, M.J. Scanlon and **M.C. Wilce**, *Solution structure and DNA binding of the catalytic domain of the large serine resolvase TnpX*. *J Mol Recognit*, 2015. **28**(5): p. 316-324 Category: Biochemistry & Molecular Biology **Impact Factor: 2.151** Ranking: 193/289 [**BCH,MICRO**]
108. Heinrich, F., S. Chakravarthy, H. Nanda, **A. Papa**, P.P. Pandolfi, A.H. Ross, R.K. Harishchandra, A. Gericke and M. Losche, *The PTEN Tumor Suppressor Forms Homodimers in Solution*. *Structure*, 2015. **23**(10): p. 1952-1957 Category: Biochemistry & Molecular Biology **Impact Factor: 5.618** Ranking: 42/290 [**BCH**]
109. **Heinz, E., J. Selkrig, M. Belousoff** and **T. Lithgow**, *Evolution of the Translocation and Assembly Module (TAM)*. *Genome Biol Evol*, 2015. **7**(6): p. 1628-1643 Category: Genetics & Heredity **Impact Factor: 4.229** Ranking: 37/167 [**MICRO,BCH**]
110. **Heng, S.**, K. Dynon, Y. Li, T. Edgell, K. Walton, L.J. Rombauts, B. Vollenhoven and G. Nie, *Development of a high-throughput assay for human proprotein convertase 5/6 for detecting uterine receptivity*. *Anal Biochem*, 2015. **475**: p. 14-21 Category: Chemistry, Analytical **Impact Factor: 2.219** Ranking: 32/74 [**BCH**]
111. **Hirst, D.J., T.H. Lee, L.K. Pattenden**, W.G. Thomas and **M.I. Aguilar**, *Helix 8 of the angiotensin- II type 1A receptor interacts with phosphatidylinositol phosphates and modulates membrane insertion*. *Sci Rep*, 2015. **5**: p. 9972.1-14 [**BCH**]
112. **Hobbs, R.M., H.M. La, J.A. Makela**, T. Kobayashi, T. Noda and P.P. Pandolfi, *Distinct germline progenitor subsets defined through Tsc2-mTORC1 signaling*. *EMBO Rep*, 2015. **16**(4): p. 467-480 Category: Biochemistry & Molecular Biology **Impact Factor: 9.055** Ranking: 22/289 [**ARMI,BCH**]
113. Horvatovich, P., E.K. Lundberg, Y.J. Chen, T.Y. Sung, F. He, **E.C. Nice, R.J. Goode, S. Yu, S. Ranganathan, M.S. Baker, G.B. Domont, E. Velasquez, D. Li, S. Liu, Q. Wang, Q.Y. He, R. Menon, Y. Guan, F.J. Corrales, V. Segura, J.I. Casal, A. Pascual-Montano, J.P. Albar, M. Fuentes, M. Gonzalez-Gonzalez, P. Diez, N. Ibarrola, R.M. Degano, Y. Mohammed, C.H. Borchers, A. Urbani, A. Soggiu, T. Yamamoto, G.H. Salekdeh, A. Archakov, E. Ponomarenko, A. Lisitsa, C.F. Lichti, E. Mostovenko, R.A. Kroes, M. Rezeli, A. Vegvari, T.E. Fehniger, R. Bischoff, J.A. Vizcaino, E.W. Deutsch, L. Lane, C.L. Nilsson, G. Marko-Varga, G.S. Omenn, S.K. Jeong, J.S. Lim, Y.K. Paik and W.S. Hancock**, *Quest for Missing Proteins: Update 2015 on Chromosome-Centric Human Proteome Project*. *J Proteome Res*, 2015. **14**(9): p. 3415-3431 Category: Biochemical Research Methods **Impact Factor: 4.245** Ranking: 14/79 [**BCH**]



114. Hossain, M.I., A. Hoque, G. Lessene, M. Aizuddin Kamaruddin, P.W. Chu, **I.H.W. Ng**, S. Irtegun, D.C. Ng, M.A. Bogoyevitch, A.W. Burgess, A.F. Hill and H.C. Cheng, *Dual role of Src kinase in governing neuronal survival*. *Brain Res*, 2015. **1594**: p. 1-14 Category: Neurosciences **Impact Factor: 2.843** Ranking: 122/252 [BCH]
115. Hou, L., J. Cooley, R. Swanson, **P.C. Ong**, **R.N. Pike**, M. Bogyo, S.T. Olson and E. Remold-O'Donnell, *SHORT COMMUNICATION: The protease cathepsin L regulates Th17 cell differentiation*. *J Autoimmun*, 2015. **65**: p. 56-63 Category: Immunology **Impact Factor: 8.410** Ranking: 10/148 [BCH]
116. Huang, T., L. Chen, M. Zheng and **J. Song**, *EDITORIAL: Integrated analysis of multiscale large-scale biological data for investigating human disease*. *Biomed Res Int*, 2015. **2015(2015)**: p. 760765.1-2 Category: Biotechnology & Applied Microbiology **Impact Factor: 1.579** Ranking: 106/162 [BCH]
117. Huesgen, P.F., P.F. Lange, L.D. Rogers, N. Solis, U. Eckhard, **O. Kleifeld**, T. Goulas, F.X. Gomis-Ruth and C.M. Overall, *BRIEF COMMUNICATIONS: LysargiNase mirrors trypsin for protein C-terminal and methylation-site identification*. *Nat Methods*, 2015. **12(1)**: p. 55-58 Category: Biochemical Research Methods **Impact Factor: 32.072** Ranking: 1/79 [BCH]
118. Hughes, M.L., B. Liu, M.L. Halls, **K.M. Wagstaff**, R. Patil, T. Velkov, **D.A. Jans**, N.W. Bunnett, M.J. Scanlon and C.J. Porter, *Fatty Acid Binding Proteins 1 and 2 Differentially Modulate the Activation of Peroxisome Proliferator-Activated Receptor alpha in a Ligand-Selective Manner*. *J Biol Chem*, 2015. **290(22)**: p. 13895-13906 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/289 [BCH]
119. Itman, C., A. Bielanowicz, **H. Goh**, **Q. Lee**, A.J. Fulcher, **S.C. Moody**, J.C. Doery, J. Martin, S. Eyre, M.P. Hedger and **K.L. Loveland**, *Murine Inhibin alpha-Subunit Haploinsufficiency Causes Transient Abnormalities in Prepubertal Testis Development Followed by Adult Testicular Decline*. *Endocrinology*, 2015. **156(6)**: p. 2254-2268 Category: Endocrinology & Metabolism **Impact Factor: 4.503** Ranking: 28/128 [ANT,BCH]
120. Jagdeo, J.M., A. Dufour, G. Fung, H. Luo, **O. Kleifeld**, C.M. Overall and E. Jan, *Heterogeneous nuclear ribonucleoprotein M facilitates enterovirus infection*. *J Virol*, 2015. **89(14)**: p. 7064-7068 Category: Virology **Impact Factor: 4.439** Ranking: 7/33 [BCH]
121. Jensen, L.M., E.J. Walker, **D.A. Jans** and R. Ghildyal, *Proteases of human rhinovirus: role in infection*, in *Methods Mol Biol*, D. Jans and R. Ghildyal, Editors. 2015, Humana Press [part of Springer]: USA. p. 129-141 [BCH]
122. Jiang, J., K. Wang, **E.C. Nice**, T. Zhang and C. Huang, *REVIEW: High-throughput screening of cellular redox sensors using modern redox proteomics approaches*. *Expert Rev Proteomics*, 2015. **12(5)**: p. 543-555 Category: Biochemical Research Methods **Impact Factor: 2.896** Ranking: 30/79 [BCH]

123. **Johnson, T.K., M.A. Henstridge, A. Herr, K.A. Moore, J.C. Whisstock** and C.G. Warr, *Torso-like mediates extracellular accumulation of Furin-cleaved Trunk to pattern the Drosophila embryo termini*. Nat Commun, 2015. **6**(Article #8759): p. 1-6 Category: Multidisciplinary Sciences **Impact Factor: 11.470** Ranking: 3/57 **[BCH]**
124. Johnston, A.J., K.T. Murphy, L. Jenkinson, D. Laine, K. Emmrich, P. Faou, R. Weston, K.M. Jayatilleke, J. Schloegel, G. Talbo, J.L. Casey, V. Levina, W.W. Wong, H. Dillon, T. Sahay, J. Hoogenraad, H. Anderton, C. Hall, P. Schneider, M. Tanzer, M. Foley, A.M. Scott, **P. Gregorevic**, S.Y. Liu, L.C. Burkly, G.S. Lynch, J. Silke and N.J. Hoogenraad, *Targeting of Fn14 Prevents Cancer-Induced Cachexia and Prolongs Survival*. Cell, 2015. **162**(6): p. 1365-78 Category: Biochemistry & Molecular Biology **Impact Factor: 32.242** Ranking: 1/290 **[BCH]**
125. **Jones, E.S., Y. Wang, M. Del Borgo, K. Denton, M.-I. Aguilar** and **R.E. Widdop**, *Angiotensin-Based Peptides as AT2R agonists*, in *The Protective Arm of the Renin-Angiotensin System*, K. Unger, U.M. Steckelings, and R.A.S.d. Santos, Editors. 2015, Academic Press: UK. p. 141-147 **Book Chapter [PHARM,PHY,BCH]**
126. **Josephs, T.M.**, M.E. Hibbs, L. Ong, I.M. Morison and E.C. Ledgerwood, *Interspecies Variation in the Functional Consequences of Mutation of Cytochrome c*. PLoS One, 2015. **10**(6): p. e0130292.1-13 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[BCH]**
127. Kipper, S., S. Hamad, **L. Caly**, D. Avrahami, E. Bacharach, **D.A. Jans**, D. Gerber and M. Bajorek, *New host factors important for Respiratory Syncytial Virus replication revealed by a novel microfluidics screen for interactors of Matrix protein*. Mol Cell Proteomics, 2015. **14**: p. 532-543 Category: Biochemical Research Methods **Impact Factor: 6.564** Ranking: 5/79 **[BCH]**
128. Koning, F., R. Thomas, **J. Rossjohn** and R.E. Toes, *Coeliac disease and rheumatoid arthritis: similar mechanisms, different antigens*. Nat Rev Rheumatol, 2015. **11**(8): p. 450-461 Category: Rheumatology **Impact Factor: 9.845** Ranking: 2/32 **[BCH]**
129. Kretzschmar, K., **D.L. Cottle**, P.J. Schweiger and F.M. Watt, *The Androgen Receptor Antagonizes Wnt/beta-Catenin Signaling in Epidermal Stem Cells*. J Invest Dermatol, 2015. **135**(11): p. 2753-2763 Category: Dermatology **Impact Factor: 7.216** Ranking: 1/62 **[BCH]**
130. Kusnadi, E.P., **K.M. Hannan**, R.J. Hicks, R.D. Hannan, **R.B. Pearson** and J. Kang, *REVIEW: Regulation of rDNA transcription in response to growth factors, nutrients and energy*. Gene, 2015. **556**(1): p. 27-34 Category: Genetics & Heredity **Impact Factor: 2.138** Ranking: 107/167 **[BCH]**
131. **Kuusisto, H.V.** and **D.A. Jans**, *Hyper-dependence of breast cancer cell types on the nuclear transporter Importin beta1*. Biochim Biophys Acta, 2015. **1850**(8): p. 1870-1878 **[BCH]**

132. Lai, S.-C. and **R.J. Devenish**, *REVIEW: Peering into the 'black box' of pathogen recognition by cellular autophagy systems*. *Microbial Cell*, 2015. **2**(9): p. 322-328 [**BCH**]
133. Lamberton, T.O., J. Lefevre, **K.M. Short**, **I.M. Smyth** and N.A. Hamilton, *Comparing and distinguishing the structure of biological branching*. *J Theor Biol*, 2015. **365C**: p. 226-237 Category: Biology **Impact Factor: 2.116** Ranking: 23/85 [**BCH,ANT**]
134. Lammers, G.A., C.C. Mc, D. Jordan, M.S. Ayton, S. Morris, **E.I. Patterson**, M.P. Ward and J. Heller, *Synchronization of E. coli O157 shedding in a grass-fed beef herd: a longitudinal study*. *Epidemiol Infect*, 2015. **143**(15): p. 3244-3255 Category: Public, Environmental & Occupational Health **Impact Factor: 2.535** Ranking: 47/165 [**BCH**]
135. **Lawen, A.**, *REVIEW: Biosynthesis of cyclosporins and other natural peptidyl prolyl cis/trans isomerase inhibitors*. *Biochim Biophys Acta*, 2015. **1850**(10): p. 2111-2120 Category: Biochemistry & Molecular Biology **Impact Factor: 4.381** Ranking: 68/289 [**BCH**]
136. **Lawen, A.**, *EDITORIAL: Is erythroferrone finally the long sought-after systemic erythroid regulator of iron?* *World J Biol Chem*, 2015. **6**(3): p. 78-82 [**BCH**]
137. **Lazarou, M.**, *REVIEW: Keeping the immune system in check: a role for mitophagy*. *Immunol Cell Biol*, 2015. **93**(1): p. 3-10 Category: Immunology **Impact Factor: 4.147** Ranking: 35/148 [**BCH**]
138. **Lazarou, M.**, D.A. Sliter, L.A. Kane, S.A. Sarraf, C. Wang, J.L. Burman, D.P. Sideris, A.I. Fogel and R.J. Youle, *The ubiquitin kinase PINK1 recruits autophagy receptors to induce mitophagy*. *Nature*, 2015. **524**(7565): p. 309-314 Category: Multidisciplinary Sciences **Impact Factor: 41.456** Ranking: 1/57 [**BCH**]
139. **Le, S.N.**, **B.T. Porebski**, **J. McCoey**, **J. Fodor**, **B. Riley**, M. Godlewska, M. Gora, B. Czarnocka, J.P. Banga, **D.E. Hoke**, **I. Kass** and **A.M. Buckle**, *Modelling of Thyroid Peroxidase Reveals Insights into Its Enzyme Function and Autoantigenicity*. *PLoS One*, 2015. **10**(12): p. e0142615.1-16 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 9/57 [**BCH**]
140. Lee, B.Y., P. Timpson, L.G. Horvath and **R.J. Daly**, *REVIEW: FAK Signaling in Human Cancer as a Target for Therapeutics*. *Pharmacol Ther*, 2015. **146C**: p. 132-149 Category: Pharmacology & Pharmacy **Impact Factor: 9.723** Ranking: 6/254 [**BCH**]
141. **Lee, T.H.**, **D.J. Hirst** and **M.I. Aguilar**, *REVIEW: New insights into the molecular mechanisms of biomembrane structural changes and interactions by optical biosensor technology*. *Biochim Biophys Acta*, 2015. **1848**(9): p. 1868-1885 Category: Biophysics **Impact Factor: 3.836** Ranking: 18/73 [**BCH**]

142. Lei, Y., K. Wang, L. Deng, Y. Chen, **E.C. Nice** and C. Huang, *Redox Regulation of Inflammation: Old Elements, a New Story*. *Med Res Rev*, 2015. **35**(2): p. 306-340 Category: Chemistry, Medicinal **Impact Factor: 8.431** Ranking: 2/59 **[BCH]**
143. **Li, C.**, X.F. Wang, Z. Chen, Z. Zhang and **J. Song**, *Computational characterization of parallel dimeric and trimeric coiled-coils using effective amino acid indices*. *Mol Biosyst*, 2015. **11**(2): p. 354-360 **[BCH]**
144. Li, F., C. Li, M. Wang, G.I. Webb, Y. Zhang, **J.C. Whisstock** and **J. Song**, *GlycoMine: a machine learning-based approach for predicting N-, C- and O-linked glycosylation in the human proteome*. *Bioinformatics*, 2015. **31**(9): p. 1411-1419 Category: Biotechnology & Applied Microbiology **Impact Factor: 4.981** Ranking: 19/162 **[BCH]**
145. Li, Y., W. Wang, L. Tang, X. He, X. Yan, X. Zhang, Y. Zhu, J. Sun, Y. Shi, X. Ma, **I.R. Mackay**, M.E. Gershwin, Y. Han and J. Hou, *Chemokine (C-X-C motif) ligand 13 promotes intrahepatic chemokine (C-X-C motif) receptor 5+ lymphocyte homing and aberrant B-cell immune responses in primary biliary cirrhosis*. *Hepatology*, 2015. **61**(6): p. 1998-2007 Category: Gastroenterology & K Hepatology **Impact Factor: 11.055** Ranking: 5/76 **[BCH]**
146. **Lim, S.L.**, Z.P. Qu, R.D. Kortschak, D.M. Lawrence, J. Geoghegan, **A.L. Hempfling**, M. Bergmann, C.C. Goodnow, C.J. Ormandy, **L. Wong**, J. Mann, H.S. Scott, **D. Jamsai**, D.L. Adelson and **M.K. O'Bryan**, *HENMT1 and piRNA Stability Are Required for Adult Male Germ Cell Transposon Repression and to Define the Spermatogenic Program in the Mouse*. *PLoS Genet*, 2015. **11**(10): p. e1005620.1-30 Category: Genetics & Heredity **Impact Factor: 7.528** Ranking: 14/167 **[ANT,BCH]**
147. Liu, Q., J. Ren, **J. Song** and J. Li, *Co-Occurring Atomic Contacts for the Characterization of Protein Binding Hot Spots*. *PLoS One*, 2015. **10**(12): p. e0144486.1-18 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 9/57 **[BCH]**
148. Liu, R., S. Huang, Y. Lei, T. Zhang, K. Wang, B. Liu, **E.C. Nice**, R. Xiang, K. Xie, J. Li and C. Huang, *FGF8 promotes colorectal cancer growth and metastasis by activating YAP1*. *Oncotarget*, 2015. **6**(2): p. 935-952 Category: Cell Biology **Impact Factor: 6.359** Ranking: 34/184 **[BCH]**
149. **Liu, Y.**, **K. DeBoer**, **D.M. de Kretser**, **L. O'Donnell**, **A.E. O'Connor**, **D.J. Merriner**, **H. Okuda**, B. Whittle, **D.A. Jans**, **A. Efthymiadis**, R.I. McLachlan, C.J. Ormandy, C.C. Goodnow, **D. Jamsai** and **M.K. O'Bryan**, *LRGUK-1 Is Required for Basal Body and Manchette Function during Spermatogenesis and Male Fertility*. *PLoS Genet*, 2015. **11**(3): p. e1005090.1-20 Category: Genetics & Heredity **Impact Factor: 7.528** Ranking: 14/167 **[ANT,BCH]**

150. **Liu, Y.C., M.A. Machuca, S.A. Beckham, M.J. Gunzburg and A. Roujeinikova**, *Structural basis for amino-acid recognition and transmembrane signalling by tandem Per-Arnt-Sim (tandem PAS) chemoreceptor sensory domains*. *Acta Crystallogr D Biol Crystallogr*, 2015. **71**(Pt 10): p. 2127-2136 Category: Crystallography **Impact Factor: 2.680** Ranking: 5/23 [MICRO,BCH]
151. **Liu, Y.C. and A. Roujeinikova**, *Expression, refolding, purification and crystallization of the sensory domain of the TlpC chemoreceptor from Helicobacter pylori for structural studies*. *Protein Expr Purif*, 2015. **107**: p. 29-34 Category: Biochemistry & Molecular Biology **Impact Factor: 1.695** Ranking: 227/289 [MICRO,BCH]
152. **Loveland, K.L.** and M.P. Hedger, *Activins and inhibins in Sertoli cell biology: implications for testis development and function*, in *Sertoli Cell Biology*, M.D. Griswold, Editor. 2015, Elsevier: The Netherlands. p. 201-232 **Book Chapter** [BCH,ANT]
153. **Loveland, K.L., A.T. Major, R. Butler, J.C. Young, D.A. Jans and Y. Miyamoto**, *INVITED REVIEW: Putting things in place for fertilization: discovering roles for importin proteins in cell fate and spermatogenesis*. *Asian J Androl*, 2015. **17**(4): p. 537-544 Category: Andrology **Impact Factor: 2.596** Ranking: 2/7 [BCH,ANT]
154. **Lu, J., A.P. Le Brun, S.H. Chow, T. Shiota, B. Wang, T.W. Lin, G.S. Liu and H.H. Shen**, *Defining the structural characteristics of annexin V binding to a mimetic apoptotic membrane*. *Eur Biophys J*, 2015. **44**(8): p. 697-708 Category: Biophysics **Impact Factor: 2.219** Ranking: 45/73 [MICRO,BCH,ANT]
155. **Lu, W., T. Tamura, J. Song and T. Akutsu**, *Computing smallest intervention strategies for multiple metabolic networks in a boolean model*. *J Comput Biol*, 2015. **22**(2): p. 85-110 Category: Statistics & Probability **Impact Factor: 1.737** Ranking: 18/122 [BCH]
156. **Lucato, C.M., M.L. Halls, L.M. Ooms, H.J. Liu, C.A. Mitchell, J.C. Whisstock and A.M. Ellisdon**, *The Phosphatidylinositol (3,4,5)-trisphosphate-dependent Rac Exchanger 1: Ras-related C3 Botulinum Toxin Substrate 1 (P-Rex1:Rac1) Complex Reveals the Basis of Rac1 Activation in Breast Cancer Cells*. *J Biol Chem*, 2015. **290**(34): p. 20827-20840 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/289 [BCH]
157. **Ludeman, J.P., M. Nazari-Robati, B.L. Wilkinson, C. Huang, R.J. Payne and M.J. Stone**, *Phosphate modulates receptor sulfotyrosine recognition by the chemokine monocyte chemoattractant protein-1 (MCP-1/CCL2)*. *Org Biomol Chem*, 2015. **13**(7): p. 2162-2169 Category: Chemistry, Organic **Impact Factor: 3.562** Ranking: 11/57 [BCH]

158. Lukoyanova, N., **S.C. Kondos, I. Farabella, R.H. Law, C.F. Reboul, T.T. Caradoc-Davies, B.A. Spicer, O. Kleifeld, D.A. Traore, S.M. Ekkel**, I. Voskoboinik, J.A. Trapani, **T. Hatfaludi**, K. Oliver, E.M. Hotze, R.K. Tweten, **J.C. Whisstock**, M. Topf, H.R. Saibil and **M.A. Dunstone**, *Conformational Changes during Pore Formation by the Perforin-Related Protein Pleurotolysin*. PLoS Biol, 2015. **13**(2): p. e1002049.1-15 Category: Biochemistry & Molecular Biology **Impact Factor: 9.343** Ranking: 17/289 [**BCH**]
159. **Lupton, C.J., D.L. Steer**, P.L. Wintrode, **S.P. Bottomley, V.A. Hughes** and **A.M. Ellisdon**, *Enhanced Molecular Mobility of Ordinarily Structured Regions Drives Polyglutamine Disease*. J Biol Chem, 2015. **290**(40): p. 24190-24200 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/289 [**BCH**]
160. Ma, Y., H. Yang, X. Chen, B. Sun, G. Du, Z. Zhou, **J. Song**, Y. Fan and S. W., *Significantly improving the yield of recombinant proteins in Bacillus subtilis by a novel powerful mutagenesis tool (ARTP): Alkaline  $\alpha$ -amylase as a case study*. Protein Expr Purif, 2015. **114**: p. 82-88 Category: Biotechnology & Applied Microbiology **Impact Factor: 1.695** Ranking: 99/162 [**BCH**]
161. **Machuca, M.A., Y.C. Liu, S.A. Beckham** and **A. Roujeinikova**, *Cloning, refolding, purification and preliminary crystallographic analysis of the sensory domain of the Campylobacter chemoreceptor for multiple ligands (CcmL)*. Acta Crystallogr F Struct Biol Commun, 2015. **71**(Pt 2): p. 211-216 Category: Crystallography **Impact Factor: 0.527** Ranking: 17/23 [**MICRO,BCH**]
162. **Machuca, M.A., Y.C. Liu** and **A. Roujeinikova**, *Cloning, expression, refolding, purification and preliminary crystallographic analysis of the sensory domain of the Campylobacter chemoreceptor for aspartate A (CcaA)*. Acta Crystallogr F Struct Biol Commun, 2015. **71**(Pt 1): p. 110-113 Category: Crystallography **Impact Factor: 0.527** Ranking: 17/23 [**MICRO,BCH**]
163. Magalhaes, I., K. Pingris, C. Poitou, S. Bessoles, N. Venteclef, B. Kiaf, L. Beaudoin, J. Da Silva, O. Allatif, **J. Rossjohn**, L. Kjer-Nielsen, J. McCluskey, S. Ledoux, L. Genser, A. Torcivia, C. Soudais, O. Lantz, C. Boitard, J. Aron-Wisnewsky, E. Larger, K. Clement and A. Lehuen, *Mucosal-associated invariant T cell alterations in obese and type 2 diabetic patients*. J Clin Invest, 2015. **125**(4): p. 1752-1762 Category: Medicine, Research & Experimental **Impact Factor: 13.215** Ranking: 3/123 [**BCH**]
164. Mahboob, S., S.B. Ahn, H.R. Cheruku, D. Cantor, E. Rennel, S. Fredriksson, G. Edfeldt, E.J. Breen, A. Khan, A. Mohamedali, M.G. Muktedir, S. Ranganathan, S.H. Tan, **E.C. Nice** and M.S. Baker, *A novel multiplexed immunoassay identifies CEA, IL-8 and prolactin as prospective markers for Dukes' stages A-D colorectal cancers*. Clin Proteomics, 2015. **12**(1): p. 10.1-25 [**BCH**]



165. Mahboob, S., A. Mohamedali, S.B. Ahn, P. Schulz-Knappe, **E.C. Nice** and M.S. Baker, *REVIEW: Is isolation of comprehensive human plasma peptidomes an achievable quest?* J Proteomics, 2015. **127**(Part B): p. 300-309 Category: Biochemical Research Methods **Impact Factor: 3.888** Ranking: 16/79 [BCH]
166. Mahon, K.L., H.M. Lin, L. Castillo, B.Y. Lee, M. Lee-Ng, M.D. Chatfield, K. Chiam, S.N. Breit, D.A. Brown, M.P. Molloy, G.M. Marx, N. Pavlakis, M.J. Boyer, M.R. Stockler, **R.J. Daly**, S.M. Henshall and L.G. Horvath, *Cytokine profiling of docetaxel-resistant castration-resistant prostate cancer*. Br J Cancer, 2015. **112**(8): p. 1340-1348 Category: Oncology **Impact Factor: 4.836** Ranking: 34/211 [BCH]
167. **Major, A.T., C.A. Hogarth, Y. Miyamoto**, M.A. Sarraj, C.L. Smith, **P. Koopman**, Y. Kurihara, **D.A. Jans** and **K.L. Loveland**, *Specific interaction with the nuclear transporter importin alpha 2 can modulate paraspeckle protein 1 delivery to nuclear paraspeckles*. Mol Biol Cell, 2015. **E-pub**: p. 1-36 Category: Cell Biology **Impact Factor: 4.466** Ranking: 60/184 [BCH,ANT]
168. Malins, L.R., N.J. Mitchell, **S. McGowan** and R.J. Payne, *Oxidative Deselenization of Selenocysteine: Applications for Programmed Ligation at Serine*. Angew Chem Int Ed Engl, 2015. **54**(43): p. 12716-12721 Category: Chemistry, Multidisciplinary **Impact Factor: 11.261** Ranking: 13/157 [BCH]
169. Mansour, W., M.A. Nakasone, M. von Delbrueck, Z. Yu, D. Krutauz, N. Reis, **O. Kleifeld**, T. Sommer, D. Fushman and M.H. Glickman, *Disassembly of Lys11- and mixed-linkage polyubiquitin conjugates provide insights into function of proteasomal deubiquitinases Rpn11 and Ubp6*. J Biol Chem, 2015. **290**(8): p. 4688-4704 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/289 [BCH]
170. McCloy, R., B.L. Parker, S. Rogers, R. Chaudhuri, V. Gayevskiy, N.J. Hoffman, N. Ali, D.N. Watkins, **R.J. Daly**, D.E. James, T. Lorca, A. Castro and **A. Burgess**, *Global phosphoproteomic mapping of early mitotic exit in human cells identifies novel substrate dephosphorylation motifs*. Mol Cell Proteomics, 2015. **14**(8): p. 2194-2212 Category: Biochemical Research Methods **Impact Factor: 6.564** Ranking: 5/79 [BCH]
171. McWilliam, H.E., **R.W. Birkinshaw**, J.A. Villadangos, J. McCluskey and **J. Rossjohn**, *MR1 presentation of vitamin B-based metabolite ligands*. Curr Opin Immunol, 2015. **34C**: p. 28-34 Category: Immunology **Impact Factor: 7.478** Ranking: 31/148 [BCH]
172. **Meex, R.C., A.J. Hoy, A. Morris, R.D. Brown, J.C. Lo**, M. Burke, **R.J. Goode**, B.A. Kingwell, M.J. Kraakman, M.A. Febbraio, J.W. Greve, S.S. Rensen, M.P. Molloy, G.I. Lancaster, **C.R. Bruce** and **M.J. Watt**, *Fetuin B Is a Secreted Hepatocyte Factor Linking Steatosis to Impaired Glucose Metabolism*. Cell Metab, 2015. **22**(6): p. 1078-1089 Category: Cell Biology **Impact Factor: 17.565** Ranking: 7/184 [PHY,BCH]

173. **Mendes, T.K., S. Novakovic, G. Raymant, S.E. Bertram, R. Esmailie, S. Nadarajan, B. Breugelmans, A. Hofmann, R.B. Gasser, M.P. Colaiacovo and P.R. Boag**, *Investigating the Role of RIO Protein Kinases in Caenorhabditis elegans*. PLoS One, 2015. **10**(2): p. e0117444.1-17 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[BCH]**
174. Miles, J.J., J. McCluskey, **J. Rossjohn** and **S. Gras**, *REVIEW: Understanding the complexity and malleability of T-cell recognition*. Immunol Cell Biol, 2015. **93**(5): p. 433-441 Category: Immunology **Impact Factor: 4.147** Ranking: 35/148 **[BCH]**
175. Mitchell, N.C., E.B. Tchoubrieva, A. Chahal, S. Woods, A. Lee, J.I. Lin, L. Parsons, K. Jastrzebski, G. Poortinga, K.M. Hannan, **R.B. Pearson, R.D. Hannan** and L.M. Quinn, *S6 Kinase is essential for MYC-dependent rDNA transcription in Drosophila*. Cell Signal, 2015. **27**(10): p. 2045-2053 Category: Cell Biology **Impact Factor: 4.315** Ranking: 65/184 **[BCH]**
176. Miyatake, H., A. Sanjoh, S. Unzai, G. Matsuda, Y. Tatsumi, **Y. Miyamoto**, N. Dohmae and Y. Aida, *Crystal Structure of Human Importin-alpha1 (Rch1), Revealing a Potential Autoinhibition Mode Involving Homodimerization*. PLoS One, 2015. **10**(2): p. e0115995.1-14 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[BCH]**
177. **Modak, J.K., Y.C. Liu, M.A. Machuca, C.T. Supuran and A. Roujeinikova**, *Structural Basis for the Inhibition of Helicobacter pylori alpha-Carbonic Anhydrase by Sulfonamides*. PLoS One, 2015. **10**(5): p. e0127149.1-13 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[MICRO,BCH]**
178. **Moradi, S., R. Berry, P. Pymm, C. Hitchen, S.A. Beckham, M.C. Wilce, N.G. Walpole, C.S. Clements, H.H. Reid**, M.A. Perugini, A.G. Brooks, **J. Rossjohn** and **J.P. Vivian**, *The structure of the atypical Killer Cell Immunoglobulin-like Receptor, KIR2DL4*. J Biol Chem, 2015. **290**(16): p. 10460-10471 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/289 **[BCH]**
179. Morales, R.A., C.A. MacRaild, J. Seow, B. Krishnarjuna, **N. Drinkwater**, R. Rouet, R.F. Anders, D. Christ, **S. McGowan** and R.S. Norton, *Structural basis for epitope masking and strain specificity of a conserved epitope in an intrinsically disordered malaria vaccine candidate*. Sci Rep, 2015. **5**(10103): p. 1-10 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/56 **[BCH]**
180. **Naderer, T., J. Heng, E.C. Saunders, J. Kloehn, T.W. Rupasinghe, T.J. Brown** and M.J. McConville, *Intracellular Survival of Leishmania major Depends on Uptake and Degradation of Extracellular Matrix Glycosaminoglycans by Macrophages*. PLoS Pathog, 2015. **11**(9): p. e1005136.1-20 Category: Microbiology **Impact Factor: 7.562** Ranking: 10/119 **[BCH]**

181. **Nastasie, M.S.**, H. Thissen, **D.A. Jans** and **K.M. Wagstaff**, *Enhanced tumour cell nuclear targeting in a tumour progression model*. BMC Cancer, 2015. **15**(76): p. 1-11 Category: Oncology **Impact Factor: 3.362** Ranking: 80/211 [**BCH**]
182. Newton, R.H., Y. Lu, **A. Papa**, G.H. Witcher, Y.J. Kang, C. Yan, P.P. Pandolfi and L.A. Turka, *BRIEF REPORT: Suppression of T-cell lymphomagenesis in mice requires PTEN phosphatase activity*. Blood, 2015. **125**(5): p. 852-855 Category: Hematology **Impact Factor: 10.452** Ranking: 2/68 [**BCH**]
183. Nold-Petry, C.A., C.Y. Lo, I. Rudloff, K.D. Elgass, S. Li, M.P. Gantier, A.S. Lotz-Havla, S.W. Gersting, S.X. Cho, J.C. Lao, **A.M. Ellisdon**, B. Rotter, T. Azam, N.E. Mangan, F.J. Rossello, **J.C. Whisstock**, P. Bufler, C. Garlanda, A. Mantovani, C.A. Dinarello and M.F. Nold, *IL-37 requires the receptors IL-18R $\alpha$  and IL-1R8 (SIGIRR) to carry out its multifaceted anti-inflammatory program upon innate signal transduction*. Nat Immunol, 2015. **16**(4): p. 354-365 Category: Immunology **Impact Factor: 20.004** Ranking: 4/148 [**BCH**]
184. O'Connor, G.M., **J.P. Vivian**, E. Gostick, **P. Pymm**, B.A. Lafont, D.A. Price, **J. Rossjohn**, A.G. Brooks and D.W. McVicar, *Peptide-dependent recognition of HLA-B\*57:01 by KIR3DS1*. J Virol, 2015. **E-pub**: p. 1-29 Category: Virology **Impact Factor: 4.439** Ranking: 7/33 [**BCH**]
185. O'Connor, G.M., **J.P. Vivian**, E. Gostick, **P. Pymm**, B.A. Lafont, D.A. Price, **J. Rossjohn**, A.G. Brooks and D.W. McVicar, *Erratum for O'Connor et al., Peptide-Dependent Recognition of HLA-B\*57:01 by KIR3DS1*. J Virol, 2015. **89**(14): p. 7442.1 Category: Virology **Impact Factor: 4.439** Ranking: 7/33 [**BCH**]
186. Okada, H., **R.B. Schittenhelm**, A. Straessle and E. Hafen, *Multi-functional regulation of 4E-BP gene expression by the Ccr4-Not complex*. PLoS One, 2015. **10**(3): p. e0113902.1-15 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [**BCH**]
187. Okada, S., J.G. Markle, E.K. Deenick, F. Mele, D. Averbuch, M. Lagos, M. Alzahrani, S. Al-Muhsen, R. Halwani, C.S. Ma, N. Wong, C. Soudais, L.A. Henderson, H. Marzouqa, J. Shamma, M. Gonzalez, R. Martinez-Barricarte, C. Okada, D.T. Avery, D. Latorre, C. Deswarte, F. Jabot-Hanin, E. Torrado, J. Fountain, A. Belkadi, Y. Itan, B. Boisson, M. Migaud, C.S. Arlehamn, A. Sette, S. Breton, J. McCluskey, **J. Rossjohn**, J.P. de Villartay, D. Moshous, S. Hambleton, S. Latour, P.D. Arkwright, C. Picard, O. Lantz, D. Engelhard, M. Kobayashi, L. Abel, A.M. Cooper, L.D. Notarangelo, S. Boisson-Dupuis, A. Puel, F. Sallusto, J. Bustamante, S.G. Tangye and J.L. Casanova, *Impairment of immunity to Candida and Mycobacterium in humans with bi-allelic RORC mutations*. Science, 2015. **349**(6248): p. 606-613 Category: Multidisciplinary Sciences **Impact Factor: 33.611** Ranking: 2/56 [**BCH**]
188. Okoduwa, S.I., I.A. Umar, S. Ibrahim, F. Bello and **N. Habila**, *Age-dependent alteration of antioxidant defense system in hypertensive and type-2 diabetes patients*. J Diabetes Metab Disord, 2015. **14**: p. 32.1-9 [**BCH**]

189. **Oksayan, S.**, J. Nikolic, C.T. David, D. Blondel, **D.A. Jans** and G.W. Moseley, *Identification of a role for nucleolin in rabies virus infection*. J Virol, 2015. **89**: p. 1939-1943 Category: Virology **Impact Factor: 4.439** Ranking: 7/33 [BCH]
190. **Ooms, L.M., L.C. Binge, E.M. Davies, P. Rahman, J.R. Conway, R. Gurung, D.T. Ferguson, A. Papa, C.G. Fedele, J.L. Vieusseux, R.C. Chai, F. Koentgen, J.T. Price, T. Tiganis, P. Timpson, C.A. McLean and C.A. Mitchell**, *The Inositol Polyphosphate 5-Phosphatase PIPP Regulates AKT1-Dependent Breast Cancer Growth and Metastasis*. Cancer Cell, 2015. **28(2)**: p. 155-169 Category: Oncology **Impact Factor: 23.523** Ranking: 4/184 [BCH]
191. Paiardini, A., **R.S. Bamert, K. Kannan-Sivaraman, N. Drinkwater**, S.N. Mistry, P.J. Scammells and **S. McGowan**, *Screening the Medicines for Malaria Venture "Malaria Box" against the Plasmodium falciparum Aminopeptidases, M1, M17 and M18*. PLoS One, 2015. **10(2)**: p. e0115859.1-14 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [BCH]
192. Park, J., **H. Elmlund**, P. Erclus, J.M. Yuk, D.T. Limmer, Q. Chen, K. Kim, S.H. Han, D.A. Weitz, A. Zettl and A.P. Alivisatos, *RESEARCH REPORT: Nanoparticle imaging. 3D structure of individual nanocrystals in solution by electron microscopy*. Science, 2015. **349(6245)**: p. 290-295 Category: Multidisciplinary Sciences **Impact Factor: 33.611** Ranking: 2/56 [BCH]
193. Pathan, M., S. Keerthikumar, C.S. Ang, L. Gangoda, C.Y. Quek, N.A. Williamson, D. Mouradov, O.M. Sieber, R.J. Simpson, A. Salim, A. Bacic, A.F. Hill, **D.A. Stroud, M.T. Ryan**, J.I. Agbinya, J.M. Mariadason, A.W. Burgess and S. Mathivanan, *TECHNICAL BRIEF: FunRich: An open access standalone functional enrichment and interaction network analysis tool*. Proteomics, 2015. **15(15)**: p. 2597-2601 Category: Biochemical Research Methods **Impact Factor: 3.807** Ranking: 17/79 [BCH]
194. Pathiraja, V., J.P. Kuehlich, P.D. Campbell, B. Krishnamurthy, T. Loudovaris, P.T. Coates, T.C. Brodnicki, P.J. O'Connell, K. Kedzierska, C. Rodda, P. Bergman, E. Hill, **A.W. Purcell, N.L. Dudek**, H.E. Thomas, T.W. Kay and S.I. Mannering, *Proinsulin specific, HLA-DQ8 and HLA-DQ8 transdimer restricted, CD4+ T cells infiltrate the islets in type 1 diabetes*. Diabetes, 2015. **64(1)**: p. 172-182 Category: Endocrinology & Metabolism **Impact Factor: 8.095** Ranking: 8/128 [BCH]
195. **Petersen, J.**, J. van Bergen, K.L. Loh, Y. Kooy-Winkelaar, D.X. Beringer, A. Thompson, S.F. Bakker, C.J. Mulder, K. Ladell, J.E. McLaren, D.A. Price, **J. Rossjohn, H.H. Reid** and F. Koning, *Determinants of Gliadin-Specific T Cell Selection in Celiac Disease*. J Immunol, 2015. **194(12)**: p. 6112-6122 Category: Immunology **Impact Factor: 4.922** Ranking: 26/148 [BCH]
196. **Plotnikova, O.V.**, S. Seo, **D.L. Cottle, S. Conduit, S. Hakim, J.M. Dyson, C.A. Mitchell** and **I.M. Smyth**, *INPP5E interacts with AURKA, linking phosphoinositide signalling to primary cilium stability*. J Cell Sci, 2015. **128(2)**: p. 364-372 Category: Cell Biology **Impact Factor: 5.432** Ranking: 41/184 [BCH,ANT]

197. Poortinga, G., L.M. Quinn and **R.D. Hannan**, *Targeting RNA polymerase I to treat MYC-driven cancer*. *Oncogene*, 2015. **E-pub**: p. 1-10 Category: Oncology **Impact Factor: 8.459** Ranking: 13/211 [**BCH**]
198. **Porebski, B.T.**, A.A. Nickson, **D.E. Hoke**, M.R. Hunter, L. Zhu, S. **McGowan**, G.I. Webb and **A.M. Buckle**, *Structural and dynamic properties that govern the stability of an engineered fibronectin type III domain*. *Protein Eng Des Sel*, 2015. **28**(3): p. 67-78 Category: Biotechnology & Applied Microbiology **Impact Factor: 2.537** Ranking: 56/162 [**BCH**]
199. **Preston, S.J.**, T. Beddoe, S. Walkden-Brown, **E. Meeusen** and **D. Piedrafita**, *Galectin-11: A novel host mediator targeting specific stages of the gastrointestinal nematode parasite, Haemonchus contortus*. *Int J Parasitol*, 2015. **45**(12): p. 791-796 Category: Parasitology **Impact Factor: 3.872** Ranking: 6/36 [**BCH**]
200. Rack, J.G., R. Morra, E. Barkauskaite, R. Kraehenbuehl, A. Ariza, **Y. Qu**, M. Ortmayer, O. Leidecker, D.R. Cameron, I. Matic, **A.Y. Peleg**, D. Leys, **A. Traven** and I. Ahel, *Identification of a Class of Protein ADP-Ribosylating Sirtuins in Microbial Pathogens*. *Mol Cell*, 2015. **59**: p. 1-12 Category: Biochemistry & Molecular Biology **Impact Factor: 14.018** Ranking: 6/289 [**MICRO,BCH**]
201. Rahim, M.M., P. Chen, A.N. Mottashed, A.B. Mahmoud, M.J. Thomas, Q. Zhu, C.G. Brooks, V. Kartsogiannis, **M.T. Gillespie**, J.R. Carlyle and A.P. Makrigiannis, *The mouse NKR-P1B:Clr-b recognition system is a negative regulator of innate immune responses*. *Blood*, 2015. **125**(4): p. 2217-2227 Category: Hematology **Impact Factor: 10.452** Ranking: 2/68 [**BCH**]
202. Rahimpour, A., H.F. Koay, A. Enders, R. Clanchy, S.B. Eckle, B. Meehan, Z. Chen, B. Whittle, L. Liu, D.P. Fairlie, C.C. Goodnow, J. McCluskey, **J. Rossjohn**, A.P. Uldrich, D.G. Pellicci and D.I. Godfrey, *Identification of phenotypically and functionally heterogeneous mouse mucosal-associated invariant T cells using MR1 tetramers*. *J Exp Med*, 2015. **212**(7): p. 1095-108 Category: Immunology **Impact Factor: 12.515** Ranking: 5/148 [**BCH**]
203. **Rees, M.A.**, **O. Kleifeld**, **P.K. Crellin**, **B. Ho**, **T.P. Stinear**, **A.I. Smith** and **R.L. Coppel**, *Proteomic Characterization of a Natural Host-Pathogen Interaction: Repertoire of in vivo Expressed Bacterial and Host Surface Associated Proteins*. *J Proteome Res*, 2015. **14**(1): p. 120-132 Category: Biochemical Research Methods **Impact Factor: 4.245** Ranking: 14/79 [**MICRO,BCH**]
204. **Rees, M.A.**, T.P. Stinear, **R.J. Goode**, **R.L. Coppel**, **A.I. Smith** and **O. Kleifeld**, *Changes in protein abundance are observed in bacterial isolates from a natural host*. *Front Cell Infect Microbiol*, 2015. **5**(Article #71): p. 1-15 Category: Microbiology **Impact Factor: 3.719** Ranking: 28/119 [**MICRO,BCH**]

205. Regev-Rudzki, N., **K. Gabriel** and D. Bursac, *The evolution and function of co-chaperones in mitochondria*, in *Subcell Biochem*, G.L. Blatch and A.L. Edkins, Editors. 2015, Springer Science + Business Media: UK. p. 201-217 **Book Chapter [BCH]**
206. Ren, F., K. Wang, T. Zhang, J. Jiang, **E.C. Nice** and C. Huang, *REVIEW: New insights into redox regulation of stem cell self-renewal and differentiation*. *Biochim Biophys Acta*, 2015. **1850**(8): p. 1518-1526 **[BCH]**
207. Richter, V., A.P. Singh, M. Kvensakul, **M.T. Ryan** and **L.D. Osellame**, *REVIEW: Splitting up the powerhouse: structural insights into the mechanism of mitochondrial fission*. *Cell Mol Life Sci*, 2015. **72**(19): p. 3695-3707 Category: Biochemistry & Molecular Biology **Impact Factor: 5.808** Ranking: 37/289 **[BCH]**
208. Rijal, S., S. Fleming, N. Cummings, N.K. Rynkiewicz, **L.M. Ooms**, N.Y. Nguyen, T.C. Teh, S. Avery, J.F. McManus, A.T. Papenfuss, C. McLean, M.A. Guthridge, **C.A. Mitchell** and A.H. Wei, *Inositol polyphosphate 4-phosphatase II (INPP4B) is associated with chemoresistance and poor outcome in AML*. *Blood*, 2015. **125**(18): p. 2815-2824 Category: Hematology **Impact Factor: 10.452** Ranking: 2/68 **[BCH]**
209. **Riley, B.T., S.S. Broendum, C.F. Reboul**, N.P. Cowieson, M.G. Costa, **I. Kass**, C. Jackson, D. Perahia, **A.M. Buckle** and **S. McGowan**, *Dynamic Motion and Communication in the Streptococcal C1 Phage Lysin, PlyC*. *PLoS One*, 2015. **10**(10): p. e0140219.1-17 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 9/57 **[BCH,MICRO]**
210. Rist, M.J., **K.M. Hibbert, N.P. Croft**, C. Smith, M.A. Neller, J.M. Burrows, J.J. Miles, **A.W. Purcell, J. Rossjohn, S. Gras** and S.R. Burrows, *T Cell Cross-Reactivity between a Highly Immunogenic EBV Epitope and a Self-Peptide Naturally Presented by HLA-B\*18:01+ Cells*. *J Immunol*, 2015. **194**(10): p. 4668-4675 Category: Immunology **Impact Factor: 4.922** Ranking: 26/148 **[BCH]**
211. Robinson, S.D., Q. Li, P.K. Bandyopadhyay, J. Gajewiak, M. Yandell, A.T. Papenfuss, **A.W. Purcell**, R.S. Norton and H. Safavi-Hemami, *Hormone-like peptides in the venoms of marine cone snails*. *Gen Comp Endocrinol*, 2015. **E-pub**: p. 1-8 Category: Endocrinology & Metabolism **Impact Factor: 2.470** Ranking: 74/128 **[BCH]**
212. Robinson, S.D., H. Safavi-Hemami, S. Raghuraman, J.S. Imperial, A.T. Papenfuss, R.W. Teichert, **A.W. Purcell**, B.M. Olivera and R.S. Norton, *Discovery by proteogenomics and characterization of an RF-amide neuropeptide from cone snail venom*. *J Proteomics*, 2015. **114C**: p. 38-47 Category: Biochemical Research Methods **Impact Factor: 3.888** Ranking: 16/79 **[BCH]**



213. Rogers, S., R.A. McCloy, B.L. Parker, R. Chaudhuri, V. Gayevskiy, N.J. Hoffman, D.N. Watkins, **R.J. Daly**, D.E. James and A. Burgess, *DATA ARTICLE: Dataset from the global phosphoproteomic mapping of early mitotic exit in human cells*. Data Brief, 2015. **5**: p. 45-52 [BCH]
214. **Rossjohn, J., S. Gras**, J.J. Miles, S.J. Turner, D.I. Godfrey and J. McCluskey, *T Cell Antigen Receptor Recognition of Antigen-Presenting Molecules*. Ann Rev Immunol, 2015. **33**(7): p. 1-32 Category: Immunology **Impact Factor: 39.327** Ranking: 1/148 [BCH]
215. **Rowley, M.J.** and **S.F. Whittingham**, *REVIEW: The role of pathogenic autoantibodies in autoimmunity* Antibodies, 2015. **4**(4): p. 314-353 [BCH]
216. Ruggeri, C., **N. Drinkwater**, **K.K. Sivaraman**, **R.S. Bamert**, **S. McGowan** and A. Paiardini, *Identification and Validation of a Potent Dual Inhibitor of the P. falciparum M1 and M17 Aminopeptidases Using Virtual Screening*. PLoS One, 2015. **10**(9): p. e0138957.1-16 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 9/57 [BCH,MICRO]
217. **Rynkiewicz, N.K.**, **C.G. Fedele**, K. Chiam, R. Gupta, J.G. Kench, **L.M. Ooms**, C.A. McLean, G.G. Giles, L.G. Horvath and **C.A. Mitchell**, *INPP4B is highly expressed in prostate intermediate cells and its loss of expression in prostate carcinoma predicts for recurrence and poor long term survival*. Prostate, 2015. **75**(1): p. 92-102 Category: Urology & Nephrology **Impact Factor: 3.565** Ranking: 12/76 [BCH]
218. **Safavi-Hemami, H.**, **J. Gajewiak**, **S. Karanth**, **S.D. Robinson**, **B. Ueberheide**, **A.D. Douglass**, **A. Schlegel**, **J.S. Imperial**, **M. Watkins**, **P.K. Bandyopadhyay**, **M. Yandell**, **Q. Li**, **A.W. Purcell**, **R.S. Norton**, **L. Ellgaard** and **B.M. Olivera**, *Specialized insulin is used for chemical warfare by fish-hunting cone snails*. Proc Natl Acad Sci U S A, 2015. **112**(6): p. 1743-1748 Category: Multidisciplinary Sciences **Impact Factor: 9.674** Ranking: 4/56 [BCH]
219. Saif, Z., N.A. Hodyl, M.J. Stark, P.J. Fuller, **T.J. Cole**, N. Lu and V.L. Clifton, *Expression of eight glucocorticoid receptor isoforms in the human preterm placenta vary with fetal sex and birthweight*. Placenta, 2015. **36**(7): p. 723-730 Category: Obstetrics & Gynecology **Impact Factor: 2.710** Ranking: 16/79 [BCH]
220. Sakala, I.G., L. Kjer-Nielsen, C.S. Eickhoff, X. Wang, A. Blazevic, L. Liu, D.P. Fairlie, **J. Rossjohn**, J. McCluskey, D.H. Fremont, T.H. Hansen and D.F. Hoft, *Functional Heterogeneity and Antimycobacterial Effects of Mouse Mucosal-Associated Invariant T Cells Specific for Riboflavin Metabolites*. J Immunol, 2015. **195**(2): p. 587-601 Category: Immunology **Impact Factor: 4.922** Ranking: 26/148 [BCH]
221. **Sakthivel, D.**, **D. Littler**, **A. Shahine**, **S. Troy**, **M. Johnson**, **J. Rossjohn**, D. Piedrafita and T. Beddoe, *Cloning, expression, purification and crystallographic studies of galectin-11 from domestic sheep (Ovis aries)*. Acta Crystallogr F Struct Biol Commun, 2015. **71**(Pt 8): p. 993-997 Category: Crystallography **Impact Factor: 0.527** Ranking: 17/23 [BCH]

222. Salaemae, W., **M.Y. Yap**, K.L. Wegener, G.W. Booker, **M.C. Wilce** and S.W. Polyak, *Nucleotide triphosphate promiscuity in Mycobacterium tuberculosis dethiobiotin synthetase*. Tuberculosis (Edinb), 2015. **95**(3): p. 259-266 Category: Microbiology **Impact Factor: 2.711** Ranking: 53/119 **[BCH]**
223. Salmena, L., P. Shaw, I. Fans, McLaughlin, B. Rosen, H. Risch, **C.A. Mitchell**, P. Sun, S.A. Narod and J. Kotsopoulos, *Prognostic value of INPP4B protein immunohistochemistry in ovarian cancer*. Eur J Gynaecol Oncol, 2015. **36**(3): p. 260-267 Category: Oncology **Impact Factor: 0.611** Ranking: 202/211 **[BCH]**
224. **Samarawickrema, N.**, S. Tabrizi, E. Young, P. Gunawardena and S. Garland, *Prevalence of Trichomonas vaginalis, Chlamydia trachomatis, Neisseria gonorrhoeae and human papillomavirus in a sexual health clinic setting in urban Sri Lanka*. Int J STD AIDS, 2015. **26**(10): p. 733-739 Category: Immunology **Impact Factor: 1.054** Ranking: 134/148 **[BCH]**
225. Sanchez, D., **M. Boudes**, H. van Tilbeurgh, D. Durand and S. Quevillon-Cheruel, *Modeling the ComD/ComE/comcde interaction network using small angle X-ray scattering*. FEBS J, 2015. **282**(8): p. 1538-1553 Category: Biochemistry & Molecular Biology **Impact Factor: 4.001** Ranking: 77/289 **[BCH]**
226. Sani, M.A., **T.H. Lee**, **M.I. Aguilar** and F. Separovic, *Proline-15 creates an amphipathic wedge in maculatin 1.1 peptides that drives lipid membrane disruption*. Biochim Biophys Acta, 2015. **1848**(10-Part A): p. 2277-2289 **[BCH]**
227. Sanij, E., J. Diesch, A. Lesmana, G. Poortinga, G. Lidgerwood, N. Hein, D.P. Cameron, J. Ellul, G.J. Goodall, **L.H. Wong**, A.S. Dhillon, N. Hamdane, L.I. Rothblum, **R.B. Pearson**, I. Haviv, T. Moss and **R.D. Hannan**, *A novel role for the Pol I transcription factor UBTF in maintaining genome stability through the regulation of highly transcribed Pol II genes*. Genome Res, 2015. **25**(2): p. 201-212 Category: Biochemistry & Molecular Biology **Impact Factor: 14.630** Ranking: 4/289 **[BCH]**
228. Saunders, P.M., **J.P. Vivian**, N. Baschuk, **T. Beddoe**, J. Widjaja, G.M. O'Connor, C. Hitchen, P. Pymm, D.M. Andrews, **S. Gras**, D.W. McVicar, **J. Rossjohn** and A.G. Brooks, *The Interaction of KIR3DL1\*001 with HLA Class I Molecules Is Dependent upon Molecular Microarchitecture within the Bw4 Epitope*. J Immunol, 2015. **194**(2): p. 781-789 Category: Immunology **Impact Factor: 4.922** Ranking: 26/148 **[BCH]**
229. Saunders, P.M., **J.P. Vivian**, G.M. O'Connor, L.C. Sullivan, **P. Pymm**, **J. Rossjohn** and A.G. Brooks, *A bird's eye view of NK cell receptor interactions with their MHC class I ligands*. Immunol Rev, 2015. **267**(1): p. 148-166 Category: Immunology **Impact Factor: 10.120** Ranking: 8/148 **[BCH]**

230. **Schittenhelm, R.B., T.C. Lim Kam Sian, P.G. Wilmann, N.L. Dudek and A.W. Purcell**, *Revisiting the arthritogenic peptide theory: Quantitative not qualitative changes in the peptide repertoire of HLA-B27 allotypes*. *Arthritis Rheumatol*, 2015. **67**(3): p. 702-713 [BCH]
231. **Selkrig, J., M.J. Belousoff, S.J. Headey, E. Heinz, T. Shiota, H.H. Shen, S.A. Beckham, R.S. Bamert, M.D. Phan, M.A. Schembri, M.C. Wilce, M.J. Scanlon, R.A. Strugnell and T. Lithgow**, *Conserved features in TamA enable interaction with TamB to drive the activity of the translocation and assembly module*. *Sci Rep*, 2015. **5**(12905): p. 1-12 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/56 [MICRO,BCH]
232. Seoudi, R.S., **M.P. Del Borgo**, K. Kulkarni, P. Perlmutter, **M.I. Aguilar** and A. Mechler, *Supramolecular self-assembly of 14-helical nanorods with tunable linear and dendritic hierarchical morphologies*. *New J Chemistry*, 2015. **39**(5): p. 3280-3287 Category: Chemistry, Multidisciplinary **Impact Factor: 3.086** Ranking: 41/157 [BCH]
233. Seoudi, R.S., A. Dowd, **M. Del Borgo, K. Kulkarni, P. Perlmutter, M.-I. Aguilar** and A. Mechler, *Amino acid sequence controls the self-assembled superstructure morphology of N-acetylated tri-β3-peptides*. *Pure Applied Chemistry*, 2015. **87**(9-10): p. 1021-1028 Category: Chemistry, Multidisciplinary **Impact Factor: 2.492** Ranking: 52/157 [BCH]
234. **Sepulveda, P.V.**, S. Lamon, A. Hagg, R.E. Thomson, C.E. Winbanks, H. Qian, C.R. Bruce, A.P. Russell and **P. Gregorevic**, *Evaluation of follistatin as a therapeutic in models of skeletal muscle atrophy associated with denervation and tenotomy*. *Sci Rep*, 2015. **5**: p. 17535.1-11 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/57 [PHY,BCH]
235. Serrano-Candelas, E., G. Aleman-Muench, S. Sole-Sanchez, A. Aubareda, S. Martinez-Hoyer, J. Adan, A. Aranguren-Ibanez, **M.A. Pritchard**, G. Soldevila and M. Perez-Riba, *RCAN 1 and 3 proteins regulate thymic positive selection*. *Biochem Biophys Res Commun*, 2015. **460**(2): p. 295-301 Category: Biochemistry & Molecular Biology **Impact Factor: 2.297** Ranking: 180/289 [BCH]
236. **Shiota, T., A. Traven and T. Lithgow**, *Mitochondrial Biogenesis: Cell-Cycle-Dependent Investment in Making Mitochondria*. *Curr Biol*, 2015. **25**(2): p. R78-80 Category: Biochemistry & Molecular Biology **Impact Factor: 9.571** Ranking: 15/289 [MICRO,BCH]
237. **Short, K.M. and I.M. Smyth**, *A morphological investigation of sexual and lateral dimorphism in the developing metanephric kidney*. *Sci Rep*, 2015. **5**(Article # 15209): p. 1-6 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/57 [BCH,ANT]

238. Skejic, J., **D.L. Steer**, N. Dunstan and **W.C. Hodgson**, *Label-Free (XIC) Quantification of Venom Procoagulant and Neurotoxin Expression in Related Australian Elapid Snakes Gives Insight into Venom Toxicity Evolution*. J Proteome Res, 2015. **14**(11): p. 4896-4906 Category: Biochemical Research Methods **Impact Factor: 4.245** Ranking: 14/79 **[PHARM,BCH]**
239. Smyth, R.P., L. Despons, G. Huili, S. Bernacchi, **M. Hijnen**, **J. Mak**, F. Jossinet, L. Weixi, J.C. Paillart, M. von Kleist and R. Marquet, *Mutational interference mapping experiment (MIME) for studying RNA structure and function*. Nat Methods, 2015. **12**(9): p. 866-872 Category: Biochemical Research Methods **Impact Factor: 32.072** Ranking: 1/79 **[BCH]**
240. Soares da Costa, T.P., J.B. Christensen, S. Desbois, S.E. Gordon, R. Gupta, C.J. Hogan, T.G. Nelson, M.T. Downton, C.K. Gardhi, B.M. Abbott, J. Wagner, **S. Panjekar** and M.A. Perugini, *Quaternary Structure Analyses of an Essential Oligomeric Enzyme*, in *Methods Enzymol*, J. Abelson, et al., Editors. 2015, Academic Press: UK. p. 205-223 **Book Chapter [BCH]**
241. **Speed, C.J.**, **A. Kleiner** and **J.O. Macaulay**, *Broadening Student Learning Experiences via a Novel Cross-Disciplinary Art and Anatomy Education Program - A Case Study*. Int J Higher Educ, 2015. **4**(1): p. 86-91 **[BCH,ANT]**
242. Stanley, W.J., S.A. Litwak, H.S. Quah, S.M. Tan, T.W. Kay, **T. Tiganis**, J.B. de Haan, H.E. Thomas and E.N. Gurzov, *Inactivation of protein tyrosine phosphatases enhances interferon signaling in pancreatic islets*. Diabetes, 2015. **64**(7): p. 2489-2496 Category: Endocrinology & Metabolism **Impact Factor: 8.095** Ranking: 8/128 **[BCH]**
243. **Stewart, S.E.**, **C.H. Bird**, R.F. Tabor, **M.E. D'Angelo**, S. Piantavigna, **J.C. Whisstock**, J.A. Trapani, L.L. Martin and **P.I. Bird**, *Analysis of Perforin Assembly by Quartz Crystal Microbalance Reveals a Role for Cholesterol and Calcium Independent Membrane Binding*. J Biol Chem, 2015. **290**(52): p. 31101-31112 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/290 **[BCH]**
244. **Stewart, S.E.**, **M.E. D'Angelo**, S. Piantavigna, R.F. Tabor, L.L. Martin and **P.I. Bird**, *Assembly of Streptolysin O Pores Assessed by Quartz Crystal Microbalance and Atomic Force Microscopy Provides Evidence for the Formation of Anchored but Incomplete Oligomers*. Biochim Biophys Acta, 2015. **1848**(1): p. 115-126 **[BCH]**
245. **Stone, M.J.** and R.J. Payne, *Homogeneous Sulfopeptides and Sulfopeptides: Synthetic Approaches and Applications To Characterize the Effects of Tyrosine Sulfation on Biochemical Function*. Acc Chem Res, 2015. **48**(8): p. 2251-2261 Category: Chemistry, Multidisciplinary **Impact Factor: 22.323** Ranking: 4/157 **[BCH]**

246. Stroehlein, A.J., N.D. Young, A.R. Jex, P.W. Sternberg, P. Tan, **P.R. Boag**, A. Hofmann and R.B. Gasser, *Defining the Schistosoma haematobium kinome enables the prediction of essential kinases as anti-schistosome drug targets*. Sci Rep, 2015. **5**(Article # 17759): p. 1-15 Category: Multidisciplinary Sciences **Impact Factor: 5.578** Ranking: 5/57 **[BCH]**
247. **Stroud, D.A.**, M.J. Maher, C. Lindau, F.N. Vogtle, A.E. Frazier, **E. Surgenor**, H. Mountford, A.P. Singh, M. Bonas, S. Oeljeklaus, B. Warscheid, C. Meisinger, D.R. Thorburn and **M.T. Ryan**, *COA6 is a mitochondrial complex IV assembly factor critical for biogenesis of mtDNA-encoded COX2*. Hum Mol Genet, 2015. **24**(19): p. 5404-5415 Category: Biochemistry & Molecular Biology **Impact Factor: 6.393** Ranking: 32/289 **[BCH]**
248. **Su, S.P.**, X. Song, D. Xavier and J.A. Aquilina, *Age-related cleavages of crystallins in human lens cortical fiber cells generate a plethora of endogenous peptides and high molecular weight complexes*. Proteins: Struct Func Bioinform, 2015. **83**(10): p. 1876-1886 Category: Biochemistry & Molecular Biology **Impact Factor: 2.627** Ranking: 148/290 **[BCH]**
249. **Sun, Y.B., X. Qu, V. Howard, L. Dai, X. Jiang, Y. Ren, P. Fu, V.G. Puelles, D.J. Nikolic-Paterson, G. Caruana, J.F. Bertram, M.W. Sleeman and J. Li**, *Smad3 deficiency protects mice from obesity-induced podocyte injury that precedes insulin resistance*. Kidney Int, 2015. **88**(2): p. 286-298 Category: Urology & Nephrology **Impact Factor: 8.563** Ranking: 4/76 **[ANT,BCH,PHY]**
250. Sztal, T.E., M. Zhao, C. Williams, V. Oorschot, A.C. Parslow, **A. Giousoh**, M. Yuen, T.E. Hall, A. Costin, **G. Ramm, P.I. Bird**, E.M. Busch-Nentwich, D.L. Stemple, **P.D. Currie**, S.T. Cooper, N.G. Laing, K.J. Nowak and R.J. Bryson-Richardson, *Zebrafish models for nemaline myopathy reveal a spectrum of nemaline bodies contributing to reduced muscle function*. Acta Neuropathol, 2015. **E-pub**: p. 1-18 Category: Neurosciences **Impact Factor: 10.762** Ranking: 9/252 **[BCH,ARMI]**
251. **Tactacan, C.M., Y.W. Phua, L. Liu, L. Zhang**, E.S. Humphrey, M. Cowley, M. Pinese, A.V. Biankin and **R.J. Daly**, *The pseudokinase Sgk223 promotes invasion of pancreatic ductal epithelial cells through JAK1/Stat3 signaling*. Mol Cancer, 2015. **14**(1): p. 139.1-11 Category: Oncology **Impact Factor: 4.257** Ranking: 48/211 **[BCH]**
252. **Tafreshi, M., N. Zwickel, R.J. Gorrell and T. Kwok**, *Preservation of Helicobacter pylori CagA Translocation and Host Cell Proinflammatory Responses in the Face of CagL Hypervariability at Amino Acid Residues 58/59*. PLoS One, 2015. **10**(7): p. e0133531.1-10 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 **[BCH,MICRO]**
253. Tang, M.C., S.A. Jacobs, D.M. Mattiske, Y.M. Soh, A.N. Graham, A. Tran, **S.L. Lim**, D.F. Hudson, P. Kalitsis, **M.K. O'Bryan, L.H. Wong** and J.R. Mann, *Contribution of the two genes encoding histone variant h3.3 to viability and fertility in mice*. PLoS Genet, 2015. **11**(2): p. e1004964.1-23 Category: Genetics & Heredity **Impact Factor: 7.528** Ranking: 14/167 **[ANT,BCH]**

254. Tessema, S.K., **S.L. Monk**, M.B. Schultz, L. Tavul, J.C. Reeder, P.M. Siba, I. Mueller and A.E. Barry, *Phylogeography of var gene repertoires reveals fine-scale geospatial clustering of Plasmodium falciparum populations in a highly endemic area*. Mol Ecol, 2015. **24**(2): p. 484-497 Category: Biochemistry & Molecular Biology **Impact Factor: 6.494** Ranking: 31/289 [**BCH**]
255. Tham, W.H., N.T. Lim, G.E. Weiss, S. Lopaticki, B.R. Ansell, **M. Bird**, **I. Lucet**, D. Dorin-Semlat, **C. Doerig**, P.R. Gilson, B.S. Crabb and A.F. Cowman, *Plasmodium falciparum Adhesins Play an Essential Role in Signalling and Activation of Invasion into Human Erythrocytes*. PLoS Pathog, 2015. **11**(12): p. e1005343.1-22 Category: Microbiology **Impact Factor: 7.562** Ranking: 10/119 [**MICRO,BCH**]
256. Then, W.L., **M.I. Aguilar** and G. Garnier, *Quantitative blood group typing using surface plasmon resonance*. Biosens Bioelectron, 2015. **73**: p. 79-84 Category: Biotechnology & Applied Microbiology **Impact Factor: 6.409** Ranking: 11/162 [**BCH**]
257. **Thorburn, A.N., C.I. McKenzie, S. Shen, D. Stanley, L. Macia, L.J. Mason, L.K. Roberts, C.H. Wong, R. Shim, R. Robert, N. Chevalier, J.K. Tan, E. Marino, R.J. Moore, L. Wong, M.J. McConville, D.L. Tull, L.G. Wood, V.E. Murphy, J. Mattes, P.G. Gibson and C.R. Mackay**, *Evidence that asthma is a developmental origin disease influenced by maternal diet and bacterial metabolites*. Nat Commun, 2015. **6**(7320): p. 1-13 Category: Multidisciplinary Sciences **Impact Factor: 11.470** Ranking: 3/56 [**IMM-C,MICRO,BCH**]
258. Tieu, W., S.W. Polyak, A.S. Paparella, **M.Y. Yap**, T.P. Soares da Costa, B. Ng, G. Wang, R. Lumb, J.M. Bell, J.D. Turnidge, **M.C.J. Wilce**, G.W. Booker and A.D. Abell, *Improved Synthesis of Biotinyl-5'-AMP: Implications for Antibacterial Discovery*. ACS Med Chem Lett, 2015. **6**(2): p. 216-220 Category: Chemistry, Medicinal **Impact Factor: 3.120** Ranking: 14/59 [**BCH**]
259. **To, S.Q., K.C. Knowler, V. Cheung, E.R. Simpson and C.D. Clyne**, *REVIEW: Transcriptional control of local estrogen formation by aromatase in the breast*. J Steroid Biochem Mol Biol, 2015. **145**: p. 179-186 Category: Endocrinology & Metabolism **Impact Factor: 3.628** Ranking: 45/128 [**BCH**]
260. **Treerat, P., P. Alwis, T. D'Cruze, M. Cullinane, J. Vadivelu, R.J. Devenish, M. Prescott, B. Adler and J.D. Boyce**, *The Burkholderia pseudomallei Proteins BapA and BapC Are Secreted TTSS3 Effectors and BapB Levels Modulate Expression of BopE*. PLoS One, 2015. **10**(12): p. e0143916.1-19 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 9/57 [**MICRO,BCH**]
261. **Tscharke, D.C., N.P. Croft, P.C. Doherty and N.L. La Gruta**, *REVIEW: Sizing up the key determinants of the CD8 T cell response*. Nat Rev Immunol, 2015. **15**(11): p. 705-716 Category: Immunology **Impact Factor: 34.985** Ranking: 2/148 [**BCH**]



262. **Ud-Din, A.I., Y.C. Liu and A. Roujeinikova**, *Crystal Structure of Helicobacter pylori Pseudaminic Acid Biosynthesis N-Acetyltransferase PseH: Implications for Substrate Specificity and Catalysis*. PLoS One, 2015. **10**(3): p. e0115634.1-14 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [**MICRO,BCH**]
263. **Udugama, M., F.T. Chang, F.L. Chan, M.C. Tang, H.A. Pickett, J.D. McGhie, L. Mayne, P. Collas, J.R. Mann and L.H. Wong**, *Histone variant H3.3 provides the heterochromatic H3 lysine 9 tri-methylation mark at telomeres*. Nucleic Acids Res, 2015. **43**(21): p. 10227-10237 Category: Biochemistry & Molecular Biology **Impact Factor: 9.112** Ranking: 20/289 [**BCH**]
264. **Van Rhijn, I., D.I. Godfrey, J. Rossjohn and D.B. Moody**, *REVIEW: Lipid and small-molecule display by CD1 and MR1*. Nat Rev Immunol, 2015. **15**(10): p. 643-654 Category: Immunology **Impact Factor: 34.985** Ranking: 2/148 [**BCH**]
265. **Varusai, T.M., W. Kolch, B.N. Kholodenko and L.K. Nguyen**, *Protein-protein interactions generate hidden feedback and feed-forward loops to trigger bistable switches, oscillations and biphasic dose-responses*. Mol Biosyst, 2015. **11**(10): p. 2750-2762 Category: Biochemistry & Molecular Biology **Impact Factor: 3.210** Ranking: 110/290 [**BCH**]
266. **Verma-Gaur, J., Y. Qu, P.F. Harrison, T.L. Lo, T. Quenault, M.J. Dagley, M. Bellousoff, D.R. Powell, T.H. Beilharz and A. Traven**, *Integration of Posttranscriptional Gene Networks into Metabolic Adaptation and Biofilm Maturation in Candida albicans*. PLoS Genet, 2015. **11**(10): p. e1005590.1-28 Category: Genetics & Heredity **Impact Factor: 7.528** Ranking: 14/167 [**BCH,MICRO**]
267. **Vijayakumaran, R., K.H. Tan, P.J. Miranda, S. Haupt and Y. Haupt**, *MINI REVIEW: Regulation of Mutant p53 Protein Expression*. Front Oncol, 2015. **5**(Article #284): p. 1-8 [**BCH**]
268. **Vives-Adrian, L., D. Garriga, M. Buxaderas, J.S. Fraga, P.J. Barbosa Pereira, S. Macedo-Ribeiro and N. Verdaguer**, *Structural Basis for Host Membrane Remodeling Induced by Protein 2B of Hepatitis A Virus*. J Virol, 2015. **89**(7): p. 3648-3658 Category: Virology **Impact Factor: 4.439** Ranking: 7/33 [**BCH**]
269. **von Budingen, H.C., F. Mei, A. Greenfield, S. Jahn, Y.A. Shen, H.H. Reid, D.D. McKemy and J.R. Chan**, *The myelin oligodendrocyte glycoprotein directly binds nerve growth factor to modulate central axon circuitry*. J Cell Biol, 2015. **210**(6): p. 891-898 Category: Cell Biology **Impact Factor: 9.834** Ranking: 18/184 [**BCH**]
270. **Voskoboinik, I., J.C. Whisstock and J.A. Trapani**, *REVIEWS: Perforin and granzymes: function, dysfunction and human pathology*. Nat Rev Immunol, 2015. **15**: p. 388-400 Category: Immunology **Impact Factor: 34.985** Ranking: 2/148 [**BCH**]

271. **Vuchkova, J.** and W.D. Comper, *Inhibition of the metabolic degradation of filtered albumin is a major determinant of albuminuria*. PLoS One, 2015. **10**(5): p. e0127853.1-19 Category: Multidisciplinary Sciences **Impact Factor: 3.234** Ranking: 8/56 [**BCH**]
272. **Wang, X., M.M. Docanto, H. Sasano, C. Kathleen Cuninghame Foundation Consortium for Research into Familial Breast, C. Lo, E.R. Simpson and K.A. Brown,** *Prostaglandin E2 Inhibits p53 in Human Breast Adipose Stromal Cells: A Novel Mechanism for the Regulation of Aromatase in Obesity and Breast Cancer*. Cancer Res, 2015. **75**(4): p. 645-655 Category: Oncology **Impact Factor: 9.329** Ranking: 11/211 [**PHY,BCH**]
273. **Wang, X., E.R. Simpson and K.A. Brown,** *REVIEW: Aromatase overexpression in dysfunctional adipose tissue links obesity to postmenopausal breast cancer*. J Steroid Biochem Mol Biol, 2015. **153**: p. 35-44 Category: Biochemistry & Molecular Biology **Impact Factor: 3.628** Ranking: 90/289 [**PHY,BCH**]
274. **Wang, X., E.R. Simpson and K.A. Brown,** *p53: Protection against Tumor Growth beyond Effects on Cell Cycle and Apoptosis*. Cancer Res, 2015. **75**(23): p. 5001-5007 Category: Oncology **Impact Factor: 9.329** Ranking: 11/211 [**BCH,PHY**]
275. **Watson, G.M., M.J. Gunzburg, N.D. Ambaye, W.A. Lucas, D.A. Traore, K. Kulkarni, K.M. Cergol, R.J. Payne, S. Panjekar, S.C. Pero, P. Perlmutter, M.C. Wilce and J.A. Wilce,** *Cyclic Peptides Incorporating Phosphotyrosine Mimetics as Potent and Specific Inhibitors of the Grb7 Breast Cancer Target*. J Med Chem, 2015. **58**(19): p. 7707-7718 Category: Chemistry, Medicinal **Impact Factor: 5.447** Ranking: 3/59 [**BCH**]
276. **Watt, K.I., B.J. Turner, A. Hagg, X. Zhang, J.R. Davey, H. Qian, C. Beyer, C.E. Winbanks, K.F. Harvey and P. Gregorevic,** *The Hippo pathway effector YAP is a critical regulator of skeletal muscle fibre size*. Nat Commun, 2015. **6**(Article # 6048): p. 1-13 Category: Multidisciplinary Sciences **Impact Factor: 11.470** Ranking: 3/56 [**BCH**]
277. **White, R., R. Khor, M. Bressel, G. Duchesne, S. Williams, P. Bowden, K. Tai and F. Foroudi,** *Efficacy of High-dose Palliative Radiotherapy for Localised, Castration-resistant Prostate Cancer*. Clin Oncol (R Coll Radiol), 2015. **27**(1): p. 16-21 Category: Oncology **Impact Factor: 3.398** Ranking: 79/211 [**RAD,BCH**]
278. **Wilson, R.P., M.L. Ives, G. Rao, A. Lau, K. Payne, M. Kobayashi, P.D. Arkwright, J. Peake, M. Wong, S. Adelstein, J.M. Smart, M.A. French, D.A. Fulcher, C. Picard, J. Bustamante, S. Boisson-Dupuis, P. Gray, P. Stepensky, K. Warnatz, A.F. Freeman, J. Rossjohn, J. McCluskey, S.M. Holland, J.L. Casanova, G. Uzel, C.S. Ma, S.G. Tangye and E.K. Deenick,** *BRIEF DEFINITIVE REPORT: STAT3 is a critical cell-intrinsic regulator of human unconventional T cell numbers and function*. J Exp Med, 2015. **212**(6): p. 855-864 Category: Immunology **Impact Factor: 12.515** Ranking: 5/148 [**BCH**]

279. Wolf, B.J., R.V. Tatituri, C.F. Almeida, **J. Le Nours**, V. Bhowruth, D. Johnson, A.P. Uldrich, F.F. Hsu, M. Brigl, G.S. Besra, **J. Rossjohn**, D.I. Godfrey and M.B. Brenner, *Identification of a Potent Microbial Lipid Antigen for Diverse NKT Cells*. *J Immunol*, 2015. **195**(6): p. 2540-2551 Category: Immunology **Impact Factor: 4.922** Ranking: 26/148 **[BCH]**
280. Woods, S.J., K.M. Hannan, **R.B. Pearson** and **R.D. Hannan**, *REVIEW: The nucleolus as a fundamental regulator of the p53 response and a new target for cancer therapy*. *Biochim Biophys Acta*, 2015. **1849**(7): p. 821-829 **[BCH]**
281. Xia, L., H. Lin, A. Staniek, **S. Panjikar**, M. Ruppert, P. Hilgers, J. Williardt, C. Rajendran, M. Wang, H. Warzecha, V. Jager and J. Stockigt, *Ligand structures of synthetic deoxypyranosylamines with raucaffricine and strictosidine glucosidases provide structural insights into their binding and inhibitory behaviours*. *J Enzyme Inhib Med Chem*, 2015. **E-pub**: p. 1-7 Category: Biochemistry & Molecular Biology **Impact Factor: 2.332** Ranking: 176/289 **[BCH]**
282. Yagi, H., **P.J. Conroy**, E.W. Leung, **R.H. Law**, J.A. Trapani, I. Voskoboinik, **J.C. Whisstock** and R.S. Norton, *Structural Basis for Ca<sup>2+</sup>-mediated Interaction of the Perforin C2 Domain with Lipid Membranes*. *J Biol Chem*, 2015. **E-pub**: p. 1-34 Category: Biochemistry & Molecular Biology **Impact Factor: 4.573** Ranking: 61/289 **[BCH]**
283. Yang, S., X. Zhang, L. Diao, F. Guo, D. Wang, Z. Liu, H. Li, J. Zheng, J. Pan, **E.C. Nice**, D. Li and F. He, *CAPER 3.0: A Scalable Cloud-Based System for Data-Intensive Analysis of Chromosome-Centric Human Proteome Project Data Sets*. *J Proteome Res*, 2015. **14**(9): p. 3720-3728 Category: Biochemical Research Methods **Impact Factor: 4.245** Ranking: 14/79 **[BCH]**
284. **Young, J.C.**, S. Wakitani and **K.L. Loveland**, *REVIEW: TGF- $\beta$  superfamily signaling in testis formation and early male germline development*. *Semin Cell Dev Biol*, 2015. **45**: p. 94-103 Category: Developmental Biology **Impact Factor: 6.265** Ranking: 5/41 **[BCH]**
285. Yu, Z., N. Livnat-Levanon, **O. Kleifeld**, W. Mansour, M.A. Nakasone, C.A. Castaneda, E.K. Dixon, D. Fushman, N. Reis, E. Pick and M.H. Glickman, *Base-CP proteasome can serve as a platform for stepwise lid formation*. *Biosci Rep*, 2015. **35**(3): p. 1-14 Category: Cell Biology **Impact Factor: 2.637** Ranking: 118/184 **[BCH]**
286. Yuan, K., Y. Liu, L. Zhang, J. Lan, W. Gao, Q. Dou, **E.C. Nice** and C. Huang, *Thiol-based redox proteomics in cancer research*. *Proteomics*, 2015. **15**(2): p. 287-299 Category: Biochemical Research Methods **Impact Factor: 3.807** Ranking: 17/79 **[BCH]**
287. Zhang, L., K. Wang, Y. Lei, Q. Li, **E.C. Nice** and C. Huang, *REVIEW: Redox signaling: Potential arbitrator of autophagy and apoptosis in therapeutic response*. *Free Radic Biol Med*, 2015. **89**: p. 452-465 Category: Biochemistry & Molecular Biology **Impact Factor: 5.736** Ranking: 40/290 **[BCH]**

288. Zhang, Z.Y., G.T. Dodd and **T. Tiganis**, *REVIEW: Protein Tyrosine Phosphatases in Hypothalamic Insulin and Leptin Signaling*. Trends Pharmacol Sci, 2015. **36**(10): p. 661-674 Category: Pharmacology & Pharmacy **Impact Factor: 11.539** Ranking: 5/255 [**BCH**]
289. Zhao, L., G. Bao, B. Geng, **J. Song** and Y. Li, *Draft Genome Sequence of Lysinibacillus fusiformis Strain SW-B9, a Novel Strain for Biotransformation of Isoeugenol to Vanillin*. Genome Announc, 2015. **3**(2): p. 1-2 [**BCH**]
290. Zhou, Z., S. Zhao, S. Wang, X. Li, L. Su, Y. Ma, J. Li and **J. Song**, *Extracellular overexpression of chitosanase from Bacillus sp. TS in Escherichia coli*. Appl Biochem Biotechnol, 2015. **175**(7): p. 3271-3286 Category: Biochemistry & Molecular Biology **Impact Factor: 1.735** Ranking: 224/289 [**BCH**]
291. Zhu, X.Q., P.K. Korhonen, H.B.G.I. Cai, N.D. Young, P. Nejsum, G. von Samson-Himmelstjerna, **P.R. Boag**, P. Tan, Q. Li, J. Min, Y. Yang, X. Wang, X. Fang, R.S. Hall, A. Hofmann, P.W. Sternberg, A.R. Jex and R.B. Gasser, *Genetic blueprint of the zoonotic pathogen Toxocara canis*. Nat Commun, 2015. **6**(6145): p. 1-8 Category: Multidisciplinary Sciences **Impact Factor: 11.470** Ranking: 3/56 [**BCH**]
292. Zubkov, V.S., A.N. Combes, **K.M. Short**, J. Lefevre, N.A. Hamilton, **I.M. Smyth**, M.H. Little and H.M. Byrne, *A spatially-averaged mathematical model of kidney branching morphogenesis*. J Theor Biol, 2015. **379**: p. 24-37 Category: Biology **Impact Factor: 2.116** Ranking: 23/85 [**ANT,BCH**]