

## Publications 2019

1. Single Cell Fluorescence Ratio Image Analysis for Studying ESCRT Function in Receptor Trafficking (Book chapter). JM Kazan, GL Lukacs, **PM Apaja\***, A Pause\*. (2019) *The ESCRT Complexes*, Methods Mol Biol. 1998:93-103. \*corresponding authors
2. The Set1 complex is dimeric and acts with Jhd2 demethylation to convey symmetrical H3K4 trimethylation R Choudhury, S Singh, **S Arumugam**, A Roguev, AF Stewart (2019) *Genes & Development* 33 (9-10), 550-564
3. Ordered and Disordered Segments of Amyloid- $\beta$  Drive Sequential Steps of the Toxic Pathway S Maiti, BK Maity, AK Das, S Dey, UK Moorthi, A Kaur, A Dey, D Surendran, R Pandit, M Kallianpur, B Chandra, M Chandrakesan, **Senthil Arumugam** (2019) *The FASEB Journal* 33 (1\_supplement), lb203-lb203.
4. Ordered and Disordered Segments of Amyloid- $\beta$  Drive Sequential Steps of the Toxic Pathway B Maity, AK Das, S Dey, U.K Moorthi, A Kaur, A Dey, D Surendran, R Pandit, M Kallianpur, B Chandra, M Chandrakesan, **S Arumugam\***, Sudipta Maiti\* (2019) *ACS Chemical Neuroscience* 10 (5), 2498-2509.
5. Toolbox of Diverse Linkers for Navigating the Cellular Efficacy Landscape of Stapled Peptides Y Wu, A Kaur, E Fowler, MM Wiedmann, R Young, WRJD Galloway, L Olsen, H Sore, A Chattopadhyay, T. T-L Kwan, W Xu, S.J. Walsh, P. De Andrade, M Janecek, **S Arumugam**, L.S. Itzhaki, Y.H. Lau, D.R. Spring (2019) *ACS Chemical Biology* 14 (3), 526-533.
6. Partial loss of actin nucleator Actin Related Protein 2/3 activity triggers blebbing in primary T lymphocytes P Obeidy, L.A. Ju, S.H. Oehlers, N.S. Zulkhernain, Q Lee, J.L. Galeano Niño, R.Y.Q. Kwan, S Tikoo, L.L. Cavanagh, P. Mrass, A. JL Cook, S.P Jackson, **M Biro**, B Roediger, M Sixt, W Weninger (2019) *Immunology & Cell Biology* 1–21.
7. Flotillins promote T cell receptor sorting through a fast Rab5-Rab11 endocytic recycling axis. G.M.I Redpath, M Ecker, N Kapoor-Kaushik, H Vartoukian, M Carnell, D Kempe, **M Biro**, N Ariotti, J Rossy (2019) *Nature Communications* 10(1):4392.
8. Tropomyosin concentration but not formin nucleators mDia1 and mDia3 determines the level of tropomyosin incorporation into actin filaments. J Meiring, N Bryce, Niño J.L Galeano, A Gabriel, S. S. Tay, E Hardeman, **M Biro**, P Gunning. (2019) *Scientific Reports* 9(1):6504.
9. Tropomyosin Tpm 2.1 loss induces glioblastoma spreading in soft brain-like environments. CB Mitchell, B Black, F Sun, W Chrzanowski, J Cooper-White, B Maisonneuve, B Stringer, B Day, **M Biro**, GM O'Neill. (2019) *Journal of Neuro-Oncology* 141(2):303-313.
10. IgM in human immunity to Plasmodium falciparum malaria. **MJ Boyle**, JA Chan, I Handayuni, L Reiling, G Feng, A Hilton, L Kurtovic, D Oyong, KA Piera, BE Barber, T William, DP Eisen, G Mingo, C Langer, DR Drew, R.F de Labastida, FH Amante, TN William, DL Doolan, C Engwerda, FJI Fowkes, MJ Grigg, I Mueller, J McCarthy, NM Anstey, JG Beeson. (2019) *Science Advances* 5(9).
11. Challenges and strategies for developing highly efficacious and long-lasting malaria vaccines. JG Beeson, L Kurtovic, C Dobano, DH Opi, JA Chan, G Feng, MF Good, L Reiling, **MJ Boyle**. (2019) *Science Translational Medicine* 11 (474).
12. Loss of complement regulatory proteins on red blood cells in mild malarial anaemia and in Plasmodium falciparum induced blood-stage infection. D.A Oyong, J.R. Loughland, A SheelaNair, D Andrew, F. DL Rivera,

- K.A. Piera, T. William, M.J. Grigg, B.E. Barber, A. Haque, C.R. Engwerda, J.S. McCarthy, N.M. Anstey, **M.J. Boyle** (2019) *Malaria Journal* volume 18, Article number: 312.
13. Induction and Kinetics of Complement-Fixing Antibodies Against Plasmodium vivax Merozoite Surface Protein 3 $\alpha$  and Relationship with Immunoglobulin G Subclasses and Immunoglobulin M. D. Oyong, D. Wilson, B. Barber, T. William, J. Jiang, M. Galinski, F. J. I. Fowkes, M.J. Grigg, J.G. Beeson, N.M. Anstey, **M.J. Boyle**. (2019) *The Journal of Infectious Diseases* 220 (12).
  14. The regulation of CD4+ T cells during malaria. R. Kumar, J.R. Loughland, S.S. Ng, **M.J. Boyle**, C.R. Engwerda *Immunological reviews*.
  15. Antiphosphatidylserine immunoglobulin M and immunoglobulin G antibodies are higher in vivax than falciparum malaria, and associated with early Anemia in both species. B.E. Barber, M.J. Grigg, K. Piera, F.H. Amante, T. William, **M.J. Boyle**, G. Minigo, A.M. Dondorp, J.S. McCarthy, N.M. Anstey (2019). *The Journal of Infectious Diseases* 220 (9), 1435-1443.
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  20. Antibody Targets on the Surface of Plasmodium falciparum–Infected Erythrocytes That Are Associated With Immunity to Severe Malaria in Young Children. J.A. Chan, **M.J. Boyle**, K.A. Moore, L. Reiling, Z. Lin, W. Hasang, M. Avril, L. Manning, I. Mueller, M. Laman, T. Davis, J.D. Smith, S.J. Rogerson, J.A. Simpson, F. J. I. Fowkes, J.G. Beeson (2019) *The Journal of Infectious Diseases* 219 (5), 819-828.
  21. Targets of complement-fixing antibodies in protective immunity against malaria in children. L. Reiling, **M.J. Boyle**, M.T. White, D.W. Wilson, G. Feng, R. Weaver, D. Herbert Opi, K. E.M. Persson, J.S. Richards, P.M. Siba, F. J. I. Fowkes, E. Takashima, T. Tsuboi, I. Mueller, J.G. Beeson (2019) *Nature Communications* 10 (1), 1-13.
  22. Plasmodium falciparum Activates CD16+ Dendritic Cells to Produce Tumor Necrosis Factor and Interleukin-10 in Subpatent Malaria. J.R. Loughland, T. Woodberry, **M.J. Boyle**, P.E. Tipping, K.A. Piera, F.H. Amante, E. Kenangalem, R.N. Price, C.R. Engwerda, N.M. Anstey, J.S. McCarthy, G. Minigo (2019) *The Journal of Infectious Diseases* 219 (4), 660-671.
  23. Low levels of human antibodies to gametocyte-infected erythrocytes contrasts the PfEMP1-dominant response to asexual stages in P. falciparum malaria. J.A. Chan, D.R. Drew, L. Reiling, A. Lisboa-Pinto, B. Dinko, C.J. Sutherland, A.E. Dent, K. Chelimo, J.W. Kazura, **M.J. Boyle**, J.G. Beeson (2019) *Frontiers in Immunology* 9, 3126.
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  25. Anti-phosphatidylserine IgM and IgG antibodies are higher in vivax than falciparum malaria, and associated with early anemia in both species. B.E. Barber, M.J. Grigg, K. Piera, F.H. Amante, T. William, **M.J. Boyle** (2019) *J Infect Dis* 10.
  26. Malaria vaccine candidates displayed on novel virus-like particles are immunogenic and induce transmission-blocking activity. J.A. Chan, D. Wetzel, L. Reiling, K. Miura, D.R. Drew, P.R. Gilson, D.A. Anderson, J.S. Richards, C.A. Long, M. Suckow, V. Jenzelewski, T. Tsuboi, **M.J. Boyle**, M. Piontek, J.G. Beeson (2019) *PloS One* 14 (9).

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31. The Diiron Monooxygenase CmlA from Chloramphenicol Biosynthesis Allows Reconstitution of  $\beta$ -Hydroxylation during Glycopeptide Antibiotic Biosynthesis. M Kaniusaite, RJA Goode, RB Schittenhelm, TM Makris, **MJ Cryle**. (2019) *ACS Chem Biol*. Dec 20;14(12):2932-2941.
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