

CURRICULUM VITAE

NAME: David Cameron Wraith

CURRENT POST: Professor of Immunology and Institute Director, Institute of Immunology and Immunotherapy, University of Birmingham (HEFC)
01/06/2016–

DATE OF BIRTH: 09.01.56

BSc: Physiology and Biochemistry, University of Newcastle Upon Tyne

Ph.D: Biochemistry, University of London, Kings College.

POSTS HELD:

1981 - 1986: Laboratory of Dr. B.A. Askonas, Division of Immunology, National Institute for Medical Research, Mill Hill, London.

1986 - 1989: Laboratory of Prof. H.O. McDevitt, Department of Microbiology and Immunology, Stanford University School of Medicine, Stanford, California.

1989-1995: Wellcome Trust Senior Research Fellow, Department of Pathology, Cambridge University

1995-2004: Professor of Experimental Pathology and Head of Department, Department of Pathology and Microbiology, University of Bristol

2005-2008: Wellcome Trust Research Leave Fellow, Department of Cellular and Molecular Medicine, University of Bristol

2008-2016: Professor of Experimental Pathology, Department of Cellular and Molecular Medicine, University of Bristol

2002- : Founder and CSO of Apitope Technology (Bristol) Ltd & Apitope International NV

AWARDS:

1986 - 1987: Travelling Fellowship from the Medical Research Council, U.K.

1987 - 1989: Senior Research Fellowship from the National Multiple Sclerosis Society, U.S.A.

1989 - 1995: Senior Research Fellowship in Basic Biomedical Science from the Wellcome Trust, U.K.

1991- 1995: Stanley-Elmore Senior Research Fellow in Medical Sciences, Sidney Sussex College, Cambridge.

2005 - 2008: University Research Leave Fellowship from the Wellcome Trust, U.K.

RECENT PUBLICATIONS (2016-2019)

- 1) Wraith, D.C. Antigen-specific immunotherapy. *Nature* (2016) 530: 422-423
- 2) Gessner, B.D., Wraith, D.C. & Finn, A. CNS infection safety signal of RTS,S/AS01 and possible association with rabies vaccine. *Lancet* (2016) 387: 1376
- 3) White, A.M. and Wraith, D.C. Tr1-Like T Cells – An Enigmatic Regulatory T Cell Lineage. *Front. Immunol.* (2016) 7:355. doi: 10.3389/fimmu.2016.00355

- 4) Selli, M., Wick, G., Wraith, D. and Newby, A. Autoimmunity to HSP60 during diet induced obesity in mice. *Int. J. Obesity* (2016) 348: 348-351
- 5) Britton, G.J., Ambler, R., Clark, D.J., Hill, E.V., Tunbridge, H.M., McNally, K.E., Burton, B.R., Butterweck, P., Sabatos-Peyton, C., Hampton-O'Neil, L.A., Verkade, P., Wuelfing, C. and Wraith, D.C. PKC θ links proximal T cell and Notch signaling through localized regulation of the actin cytoskeleton. *eLIFE* (2017) 10.7554/eLife.20003
- 6) Wegner, A., Verhagen, J. and Wraith, D.C. Myeloid-derived suppressor cells mediate tolerance induction in autoimmune disease. *Immunology* (2017) 151: 26-42
- 7) Britton, G.J., Mitchell, R.E., Burton, B.R. and Wraith, D.C. Protein Kinase C theta is required for efficient induction of IL-10-secreting T cells. *PLoS ONE* (2017) 12, 2, e0171547
- 8) Selli, M.E., Thomas, A.C., Wraith, D.C. and Newby, A.C. A humanized HLA-DR4 mouse model of autoimmune myocarditis. *Journal of Molecular and Cellular Cardiology* 107 (2017) 22–26
- 9) Mitchell, R.E., Hassan, M., Burton, B.R., Britton, G., Hill, E.V., Verhagen, J. and Wraith, D.C. IL-4 enhances IL-10 production in Th1 cells: implications for Th1 and Th2 regulation. *Scientific Reports* (2017) 7:11315
- 10) Kishore, M., Cheung, K.C.P., Fu, H., Bonacina, F., Wang, G., Coe, D., Ward, E.J., Colamatteo, A., Jangani, M., Baragetti, A., Matarese, G., Smith, D.M., Haas, R., Mauro, C., Wraith, D.C., Okkenhaug, K., Catapano, A.L., De Rosa, V., Norata, G.D., and Marelli-Berg, F.M. Regulatory T Cell Migration Is Dependent on Glucokinase-Mediated Glycolysis. *Immunity* (2017) 47: 875-889
- 11) Wraith, D.C. The future of immunotherapy: a 20-year perspective. *Front. Immunol.* (2017) 8:1688
- 12) Wraith, D.C. Designing antigens for the prevention and treatment of autoimmune diseases. *Current Opinion in Chemical Engineering* (2018) 19: 35-42
- 13) Chataway, J., Martin, K., Barrell, K., Sharrack, B., Stolt, P. & Wraith, D.C. Effects of ATX-MS-1467 immunotherapy over 16 weeks in relapsing multiple sclerosis. *Neurology* (2018) 90, e955-e962
- 14) Burton, B.R., Tennant, R.K., Love, J., Titball, R.W., Wraith, D.C., & White, H.N. Variant proteins stimulate more IgM+ GC B-cells revealing a mechanism of cross-reactive recognition by antibody memory. *eLife* (2018) 7:e26832
- 15) Jansson, L., Vrolix, K., Jahraus, A., Martin, K.F. & Wraith, D.C. Immunotherapy with apitopes blocks the immune response to thyroid stimulating hormone receptor in HLA-DR transgenic mice. *Endocrinology* (2018) 159, 3446-3457
- 16) Pearce, S.H., Dayan, C., Wraith, D.C., Barrell, K., Olive, N., Jansson, L. Walker-Smith, T., Carnegie, C., Martin, K.F., Boelaert, K., Gilbert, J., Higham, C.E., Muller, I., Murray, R.D., Perros, P., Razvi, S., Vaidya, B., Wernig, F. & Kahaly, G.J. Antigen-specific immunotherapy with thyrotropin receptor peptides in Graves' hyperthyroidism: a phase 1 study. *Thyroid* (2019) DOI: 10.1089/thy.2019.0036