



BRIGHAM
AND
WOMEN'S
HOSPITAL



HARVARD
MEDICAL
SCHOOL

Post-doctoral Fellowship – Human T cell Immunity

Brigham and Women's Hospital
Harvard Medical School, Boston, MA, USA

D. Branch Moody's laboratory offers NIH-supported Research Fellowship for training in basic and translational methods of human T cell immunology in human disease. Successful applicants with an PhD or MD degree will join a collaborative, discovery-focused team working in a modern scientific laboratory. Fellows receive appointments at the Brigham and Women's Hospital and Harvard Medical School, and we offer high quality training in cell biology, immunology, chemical biology, disease pathogenesis and scientific communication.

Research projects will emphasize newly discovered fundamental mechanisms involving Langerhans cells, dendritic cells, CD1 and T cell response in human autoimmune diseases carried out in the Division of Rheumatology, Inflammation and Immunity as well as infectious disease, focusing on tuberculosis. Existing NIH grants support the Fellowship with full time salary, competitive benefits and visa application support.

Please apply by writing to bmoody@bwh.harvard.edu with a statement of interest, CV and list of three references. Interested applicants can learn more about the research by reading papers listed below.

Recent Relevant Publications

- Rossjohn J, de Jong, A., Ogg, G.S., Moody D.B. 2026. Emerging Roles of CD1 and Lipids in Human Health and Disease. *Annual Reviews in Immunology* 44
- Cheng TY, Praveena T, Govindarajan S, Almeida CF, Pellicci DG, Arkins WC, Van Rhijn I, Venken K, Elewaut D, Godfrey DI, Rossjohn J, Moody DB. 2024. Lipidomic scanning of self-lipids identifies headless antigens for natural killer T cells. *PNAS* 121: e2321686121
- Huang S, Shahine A, Cheng TY, Chen YL, Ng SW, Balaji GR, Farquhar R, Gras S, Hardman CS, Altman JD, Tahiri N, Minnaard AJ, Ogg GS, Mayfield JA, Rossjohn J, Moody DB. 2023. CD1 lipidomes reveal lipid-binding motifs and antigen-display mechanisms. *Cell* 186: 4583-96 e13
- Wegrecki M, Ocampo TA, Gunasinghe SD, von Borstel A, Tin SY, Reijneveld JF, Cao TP, Gully BS, Le Nours J, Moody DB, Van Rhijn I, Rossjohn J. 2022. Atypical sideways recognition of CD1a by autoreactive gammadelta T cell receptors. *Nat Commun* 13: 3872
- Cotton RN, Cheng TY, Wegrecki M, Le Nours J, Orgill DP, Pomahac B, Talbot SG, Willis RA, Altman JD, de Jong A, Ogg G, Van Rhijn I, Rossjohn J, Clark RA, Moody DB. 2021. Human skin is colonized by T cells that recognize CD1a independently of lipid. *J Clin Invest* 131: e140706
- Cotton RN, Wegrecki M, Cheng TY, Chen YL, Veerapen N, Le Nours J, Orgill DP, Pomahac B, Talbot SG, Willis R, Altman JD, de Jong A, Van Rhijn I, Clark RA, Besra GS, Ogg G, Rossjohn J, Moody DB. 2021. CD1a selectively captures endogenous cellular lipids that broadly block T cell response. *J Exp Med* 218: e20202699