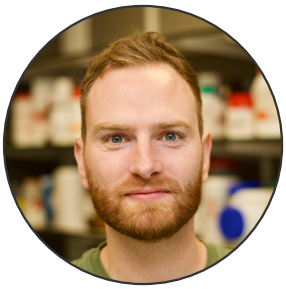

Conor M. **Finlay**

Senior Research Fellow

Trinity Translational Medicine Institute, Trinity College Dublin

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Cellular Immunologist and bioinformatician combining molecular, in vivo and translational research.

Senior Research Fellow, Trinity College Dublin (2022-present)

- SFI-Pathways Programme Fellow (PI, starting August 2024)
- TCD Omics - Single cell RNA-sequencing core service (founder and scientific director), since 2021
- HEALED consortium - molecular biology and sequencing lead (with Aideen Long), since August 2023
- COVID-19 SFI-funded strategic partnership - transnational immunology ,up to mid-2023
- Trinity Kidney Centre - lab management, student supervision(with Mark Little), up to mid-2023
- Multi-modal clinical data analysis (with Mark Little), up to mid-2023
- Co-supervising longitudinal immune cell phenotyping study, PARADISE project, (with Mark Little), 2022-present

Honorary Research Fellow, University of Manchester (2021-present)

- Collaboration on *MRC* programme grant with Prof. Judith Allen.

Past roles & Education

2021-2022	Research Fellow, Supervisor: Prof Mark Little	*Trinity*
2020	Informatics Training Scheme (Wellcome Trust TPA),Programming and Computational Approaches to Biology Modules	*University of Manchester*
2017-2021	Research Associate, Supervisor: Prof Judith Allen.	*University of Manchester*
2016-2017	Lecturer (teaching relief post), School of Biochemistry and Immunology	*Trinity*
2013-2016	Post-doctoral Researcher, Supervisor: Prof Kingston HG Mills.	*Trinity*
2013	PhD in Immunology, Immune modulation by the helminth Parasite Fasciola hepatica	*Trinity*
2007	BA(Mod) in Natural Sciences, Major: Biochemisty with Immunology, Grade: 1:1	*Trinity*

Funding

I have received a total funding of 684,106 Euro in funding to my lab in Trinity. In the UK I co-wrote a programme grant (as Research Co-Investigator) on which I now collaborate.

SFI-Pathways Programme — *Science Foundation Ireland*

457K, PI — *2024-2028*

- Macrophage Activation and Transition in the Autoimmune Kidney (MacATAK): uncovering functional outcomes of macrophage differentiation in the inflamed kidney

Trinity Doctorate Award 2024-2025, PI-led application — *Trinity Doctorate Award*

122K, PI — *2024-2028*

- Mapping Macrophage Cell State Transition in Inflammation and Infection at Single Cell Resolution

The Meath Foundation 2024 — *The Meath Foundation*

70K, Co-I (35K to my group) — *2024-2026*

- 'Characterisation and Inhibition of Monocyte-Driven Inflammation in AAV (CIMDIA)'

Higher Education Research Equipment Grant — *Higher Education Authority*

30.2K, PI — *2024-2025*

- Cell counting solution to support TCD Omics

Dean's Research Initiatives Fund — *Faculty of Health Sciences, TCD*

20K, PI — *2024*

- Mapping human macrophage anti-microbial function in pleural infection

Enterprise Ireland-funded Industry collaboration — *Legend Biotech*

93K — *2024*

- Title withheld, scRNA-sequencing of blood cancer

Building Engagements in Health Research Scheme — *Internal TCD*

10K Eur, Co-PI — *2023*

- Understanding mast cells and their progenitors in Telangiectasia Macularis Eruptiva Perstans (TMEP)'

MR/V011235/1 Programme Grant *Medical Research Council*

2.26 Million GBP, Research Co-Investigator *2021*

- "Macrophages in type 2 immunity: unravelling susceptibility and resistance to tissue nematode infection". I co-wrote grant and provided scientific design and preliminary data. Awarded an honorary position at UoM to facilitate ongoing collaboration after leaving Manchester

Building Engagements in Health Research Scheme *Internal TCD*

10K Eur, Co-PI *2021*

- 'Nanoparticle modulation of neutrophil and monocyte responses to ANCA'

Presentations, Awards & contributions

Presentations

- 4 invited speaker presentations
- 13 conference oral presentations, selected from abstract, * 8 conference poster presentations

Awards and media

- Commentry in *Immunity*: "Macrophages show up in style when Th2 lymphocytes organize their homecoming"
- Paper featured on The Immunology Podcast - Episode 51
- Immunity paper featured on August 2023 edition of *Journal of Allergy and Clinical Immunology* News Beyond Our Pages.

Discipline Contributions

- Reviewed articles for 6 journals.
- Reviewed grants for 4 funding bodies
- Sat on 3 researcher interview panels
- Co-Inventor on a patent for Trinity Spin-out (Parvalis Tx)

Research leadership and collaborations

Student projects 16 projects designed and supervised across Trinity (12-15 weeks) and Manchester (6 months). Currently co-suppervise a IRC-funded PhD student.

TCD Omics Core facility. I have established formal pipelines for a single cell RNA-sequencing core service 'TCD Omics'.

16 active collaborations, with groups in NIH, Leiden, Manchester, RCSI, Trinity college Dublin, St James' hospital.

Selected publications (last 3 years)

1. Ridge, K., Moran, B., Alvarado-Vazquez, P. A., Hallgren, J., Little, M. A., Irvine, A. D., O'Farrelly, C., Dunne, J., Finlay (co-senior), C. M., & Conlon (co-senior, N. (2024). Lin − CD117 + CD34 + FceRI + progenitor cells are increased in chronic spontaneous urticaria and predict clinical responsiveness to anti- IgE therapy. *Allergy*. https://doi.org/10.1111/all.16127
2. Han, J., Gallerand, A., Erlich, E. C., Helmink, B. A., Mair, I., Li, X., Eckhouse, S. R., Dimou, F. M., Shakhsheer, B. A., Phelps, H. M., Chan, M. M., Mintz, R. L., Lee, D. D., Schilling, J. D., Finlay, C. M., Allen, J. E., Jakubzick, C. V., Else, K. J., Onufer, E. J., … Randolph, G. J. (2024). Human serous cavity macrophages and dendritic cells possess counterparts in the mouse with a distinct distribution between species. *Nature Immunology*, *25*(1), 155–165. https://doi.org/10.1038/s41590-023-01688-7
3. Tachó-Piñot, R., Stamper, C. T., King, J. I., Matei-Rascu, V., Richardson, E., Li, Z., Roberts, L. B., Bassett, J. W., Melo-Gonzalez, F., Fiancette, R., Lin, I.-H., Dent, A., Harada, Y., Finlay, C., Mjösberg, J., Withers, D. R., & Hepworth, M. R. (2023). Bcl6 is a subset-defining transcription factor of lymphoid tissue inducer-like ILC3. *Cell Reports*, *42*(11), 113425. https://doi.org/10.1016/j.celrep.2023.113425
4. Finlay, C. M., Parkinson, J. E., Zhang, L., Chan, B. H. K., Ajendra, J., Chenery, A., Morrison, A., Kaymak, I., Houlder, E. L., Murtuza Baker, S., Dickie, B. R., Boon, L., Konkel, J. E., Hepworth, M. R., MacDonald, A. S., Randolph, G. J., Rückerl, D., & Allen, J. E. (2023). T helper 2 cells control monocyte to tissue-resident macrophage differentiation during nematode infection of the pleural cavity. *Immunity*, *56*(5), 1064–1081.e10. https://doi.org/10.1016/j.immuni.2023.02.016
5. McEntee, C. P., Houston, S., Finlay, C. M., Rossi, S., Liu, G., Shaw, T. N., Casulli, J., Fife, M., Smedley, C., Griffith, T. S., Pepper, M., Hussell, T., Hansbro, P. M., Schwartz, J.-M., Paidassi, H., & Travis, M. A. (2023). A subset of CD4+ effector memory T cells limit immunity to pulmonary viral infection and prevent tissue pathology via activation of latent TGFβ. *bioRxiv*, 2023.03.02.527395. https://doi.org/10.1101/2023.03.02.527395
6. Fiancette, R., Finlay, C. M., Willis, C., Bevington, S. L., Soley, J., Ng, S. T. H., Baker, S. M., Andrews, S., Hepworth, M. R., & Withers, D. R. (2021). Reciprocal transcription factor networks govern tissue-resident ILC3 subset function and identity. *Nature Immunology*, *22*(10), 1245–1255. https://doi.org/10.1038/s41590-021-01024-x
7. Cunningham, K. T., Finlay, C. M., & Mills, K. H. G. (2021). Helminth Imprinting of Hematopoietic Stem Cells Sustains Anti-Inflammatory Trained Innate Immunity That Attenuates Autoimmune Disease. *Journal of Immunology (Baltimore, Md. : 1950)*, *206*(7), 1618–1630. https://doi.org/10.4049/jimmunol.2001225

8. Finlay, C. M., Cunningham, K. T., Doyle, B., & Mills, K. H. G. (2020). IL-33-Stimulated Murine Mast Cells Polarize Alternatively Activated Macrophages, Which Suppress T Cells That Mediate Experimental Autoimmune Encephalomyelitis. *Journal of Immunology (Baltimore, Md. : 1950)*, *205*(7), 1909–1919. https://doi.org/10.4049/jimmunol.1901321
9. Finlay, C. M., & Allen, J. E. (2020). The immune response of inbred laboratory mice to Litomosoides sigmodontis: A route to discovery in myeloid cell biology. *Parasite Immunology*, *42*(7), e12708. https://doi.org/10.1111/pim.12708

Referee

Prof Judi Allen, Professor of Immunobiology; Lydia Becker Institute University of Manchester

Up to date long-form CV availible on GitHub (here)