

Curriculum Vitae

Personal information **Richard Carroll**

Work experience

1. Employer: **Health Products Regulatory Authority**
 - Start date: 02/2022
 - End date:
 - Position: Pharmaceutical Assessor
 - Activities: Irish alternate on the Committee for Advanced Therapies (CAT), assessment of biological applications and clinical trials
 - Country: Ireland
2. Employer: **Royal College of Surgeons in Ireland**
 - Start date: 05/2018
 - End date: 02/2022
 - Position: Postdoctoral Researcher
 - Activities:
 - Country: Ireland
3. Employer: **GSK**
 - Start date: 01/2016
 - End date: 01/2017
 - Position: Postdoctoral Researcher
 - Activities:
 - Country: United Kingdom
4. Employer: **Trinity College Dublin**
 - Start date: 11/2014
 - End date: 04/2018
 - Position: Postdoctoral Researcher
 - Activities:
 - Country: Ireland

Education and training

1. **Subject: Trinity College Dublin**
 - Start date: 10/2010
 - End date: 10/2014
 - Qualification: PhD
 - Organisation:
 - Country: Ireland

Additional information

Publications

- Cox, S.L., O'Siorain, J.R., He, Y., ...Carroll, R.G., Curtis, A.M. (2023) Circadian disruption in lung fibroblasts enhances NF- κ B activity to exacerbate neutrophil recruitment. **FASEB Journal** 37(2) e22753
- Cervantes-Silva, M.P.*, Carroll, R.G.*, Wilk, M.M., ...Mills, K.H.G., Curtis, A.M. (2022) The circadian clock influences T cell responses to vaccination by regulating dendritic cell antigen processing. **Nature Communications** 13(1) 7217
- Cox, S.L., O'Siorain, J.R., Fagan, L.E., Curtis, A.M., Carroll, R.G. (2022) Intertwining roles of circadian and metabolic regulation of the innate immune response. **Seminars In Immunopathology** 44(2) pp.225-237
- Curtis, A.M., Carroll, R.G. (2022) Aging alters rhythms in immunity. **Nature Immunology** 23(2) pp.153-154
- Zaslona, Z., Flis, E., Wilk, M. M., Carroll, R. G., Palsson-McDermott, E. M., Hughes, M. M., . . . O'Neill, L. A. J. (2020). Caspase-11 promotes allergic airway inflammation. **Nature Communications**, 11(1). doi:10.1038/s41467-020-14945-2
- Galván-Peña, S., Carroll, R. G., Newman, C., Hinchey, E. C., Palsson-McDermott, E., Robinson, E. K., . . . O'Neill, L. A. (2019). Malonylation of GAPDH is an inflammatory signal in macrophages. **Nature Communications**, 10(1). doi:10.1038/s41467-018-08187-6
- Carroll, R. G., Timmons, G. A., Cervantes-Silva, M. P., Kennedy, O. D., & Curtis, A. M. (2019). Immunometabolism around the Clock. **Trends in Molecular Medicine**, 25(7), 612-625. doi:10.1016/j.molmed.2019.04.013
- Early, J. O., Menon, D., Wyse, C. A., Cervantes-Silva, M. P., Zaslona, Z., Carroll, R. G., . . . Curtis, A. M. (2018). Circadian clock protein BMAL1 regulates IL-1 β in macrophages via NRF2 antioxidant defense pathway. **PNAS** doi:10.1073/pnas.1800431115
- Mills, E. L., Ryan, D. G., Prag, H. A., Dikovskaya, D., Menon, D., Zaslona, Z., . . . O'Neill, L. A. (2018). Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. **Nature**, 556(7699), 113-117. doi:10.1038/nature25986
- Carroll, R. G., Zaslona, Z., Galván-Peña, S., Koppe, E. L., Sévin, D. C., Angiari, S., . . . O'Neill, L. A. (2018). An unexpected link between fatty acid synthase and cholesterol synthesis in proinflammatory macrophage activation.

Journal of Biological Chemistry, 293(15), 5509-5521. doi:10.1074/jbc.RA118.001921

Patel, M. N., Carroll, R. G., Galván-Peña, S., Mills, E. L., Olden, R., Triantafilou, M., . . . Masters, S. L. (2017). Inflammasome Priming in Sterile Inflammatory Disease. **Trends in Molecular Medicine**, 23(2), 165-180. doi:10.1016/j.molmed.2016.12.007

Hollville, E., Carroll, R. G., Cullen, S. P., & Martin, S. J. (2014). Bcl-2 family proteins participate in mitochondrial quality control by regulating parkin/PINK1-dependent mitophagy. **Molecular Cell**, 55(3), 451-466. doi:10.1016/j.molcel.2014.06.001

Carroll, R. G., Hollville, E., & Martin, S. J. (2014). Parkin Sensitizes toward Apoptosis Induced by Mitochondrial Depolarization through Promoting Degradation of Mcl-1. **Cell Reports**, 9(4), 1538-1553. doi:10.1016/j.celrep.2014.10.046

Carroll, R. G., & Martin, S. J. (2013). Autophagy in multiple myeloma: What makes you stronger can also kill you. **Cancer Cell**, 23(4), 425-426. doi:10.1016/j.ccr.2013.04.001

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