Education

- **2007–2011 PhD**: Cell Biology, Genes and Development at Université Paul Sabatier Toulouse III, France.
- **2003–2007 Bsc. Biochemistry with French,** University of Manchester, England.

Research Experience

- **2016–2019: Postdoctoral Research Associate**
  Institut Génétique Moléculaire de Montpellier, France (Dr Urszula Hibner)
  In vivo analysis of paracrine signalling between HCV-infected and non-infected hepatocytes in hepatocellular carcinoma.
- **2011–2016: Postdoctoral Research Associate**
  Institute for Cell and Molecular Biosciences, Newcastle University, England (Pr Neil Perkins)
  The role of *in vivo* RelA Thr505 phosphorylation in NF-κB function and cancer.
- **2007–2011: PhD Cell Biology, Genes and Development**
  Marie Curie Research Training Network "MyEuropia", INSERM U563, CHU Purpan, Toulouse, France (Pr Patrick Calvas/Pr François Malecaze)
  Project 1: Mouse model of corneal wound healing.
  Project 2: Human high myopia GWAS.

Scientific Publications

- **J Butterworth**, D Gregoire, M Peter, A Suarez, G Desandré, Y Simonin, A Virzì, AZ El Aabidine, M Guivarch, JC Andrau, E Bertrand, E Assenat, J Lupberger and U Hibner. GOLT1B Activation in Hepatitis C Virus-Infected Hepatocytes Links ER Trafficking and Viral Replication. Pathogens (2022) https://doi.org/10.3390/pathogens11010046
- JE Hunter, **J Butterworth**, H Sellier, S Luli, A Floudas, AJ Moore, HD Thomas, KJ Campbell, NS Kenneth, RT Chiremba, D Tiniakos, AM Knight, BE Gewurz, F Oakley, MD Garret, I Collins and ND Perkins. Regulation of checkpoint kinase signalling and tumorigenesis by the NF-κB regulated gene, CLSPN (2018). Biorxiv pre-print.
- **J Butterworth**, A Moles, A Sanchez, JE Hunter, J Leslie, H Sellier, D Tiniakos, SJ Cockell, DA Mann, F Oakley and ND Perkins. A single Thr505 phospho-site mutation reveals an important role for the RelA NF-κB subunit in liver regeneration and cancer. Oncogene (2016) 1;35(35): 4623-32.
- JE Hunter, **J Butterworth**, R Crossland, B Zhao, H Sellier, KJ Campbell, HD Thomas, CM Bacon, T Mainou-Fowler, V Rand, MD Garrett, I Collins, BE Gewurz and ND Perkins. The NF-κB subunit c-Rel regulates Bach2 tumour suppressor expression in B-cell lymphoma. Oncogene (2016) 30; 35(26): 3476-84.
- JE Hunter, **J Butterworth**, ND Perkins, M Bateson and CA Richardson. Using body temperature, food and water consumption as biomarkers of disease progression in mice with Eμ-myc lymphoma. British Journal of Cancer (2014) 110, 928–34.
- D Massoudi, F Malecaze, V Soler, **J Butterworth**, A Erraud, P Fournié, M Koch and SD Galiacy. NC1 long and NC3 short splice variants of type XII collagen are overexpressed during corneal scarring. Invest Ophthalmol Vis Sci (2012) 11, 7246-56.
- W Meng, **J Butterworth**, DT Bradley, AE Hughes, V Soler, P Calvas and F Malecaze. A genome-wide association study provides evidence for association of chromosome 8p23 (MYP10) and 10q21.1 (MYP15) with high myopia in the French Population. Invest Ophthalmol Vis Sci (2012) 13, 7983-8.
- W Meng, **J Butterworth**, F Malecaze and P Calvas. Axial length: an underestimated endophenotype of myopia. Med Hypotheses (2009) 74 (2): 252-253.
- W Meng, **J Butterworth**, F Malecaze and P Calvas. Axial Length of Myopia: a Review of Current Research. Ophthalmologica (2010) 225(3):127-134.

Conference Talks

- 2017: ANRS Annual meeting in Paris: *In vivo* Analysis of HCV-infected Hepatocyte Paracrine Signalling Pathways.
- 2015: Research Institute Away, Newcastle: *In vivo* Analysis of NF-κB Functions.
- 2015: North of England Cell Biology Meeting: The Role of *in vivo* RelA Thr505 Phosphorylation in NF-κB Tumour Suppressor Functions.
- 2008: London St Thomas Hospital Twin Research and Genetic Epidemiology Unit: Visual Eye Disorders; From Genetics to Cell Biology.

Posters

- The NF-κB System in Health and Disease 2014, Keystone, USA: The *in vivo* Role of RelA Thr505 Phosphorylation.
- Genes and Cancer 2012, Warwick, England (Prize): The *in vivo* Role of RelA Thr505 Phosphorylation.

References

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