Curriculum Vitae

Personal information

Sharon Murphy

Work experience

1. Employer: Health Products Regulatory Authority
   - Start date: 072019
   - End date:
   - Position: Pharmaceutical Assessor
   - Activities: Quality pharmaceutical assessor in HPAR department. Assessment of new marketing authorisation applications, variations, renewals etc. for human medicinal products
   - Country: Ireland
2. Employer: Pfizer Grange Castle
   - Start date: 012017
   - End date: 072019
   - Position: Characterisation Scientist
   - Activities: Part of MSAT analytical sciences department. My work was principally in characterisation and analysis of biotherapeutic proteins and vaccines via LC_MS/MS, HPLC_UV, HPLC_RI, HPLC_FD, GC_FID.
   - Country: Ireland
3. Employer: HIV Pharmacology Research Group University of Liverpool
   - Start date: 112014
   - End date: 102016
   - Position: Postdoctoral Researcher
   - Activities: EPSRC funded research concerning pharmacokinetic experiments and analysis of novel antiretroviral nanomedicines.
   - Country: United Kingdom
4. Employer: School of Pharmacy University of Manchester
   - Start date: 042012
   - End date: 102014
   - Position: Postdoctoral Researcher
   - Activities: Wellcome Trust funded research concerning lipidiomic analysis of skin and blister fluid from clinical nutritional intervention studies. Also involved in the analysis of biological samples from various animal models. Use of LC_MS/MS and GC_FID.
   - Country: United Kingdom

Education and training

1. Subject: Dublin City University
   - Start date: 092007
   - End date: 032012
   - Qualification: PhD
   - Organisation: Analytical/Organic Chemistry
   - Country: Ireland
2. Subject: Dublin City University
   - Start date: 092003
   - End date: 052007
   - Qualification: B.Sc in Chemical and Pharmaceutical Sciences
   - Organisation: Formulation and Regulation, Advanced Medicinal Chemistry, Advanced Organic Chemistry, Advanced Spectroscopy, Separation Techniques and corresponding laboratory based modules
   - Country: Ireland

Additional information

Publications

1. N J Hawkshaw, S. M. Pilkington, S. A Murphy, et al. UV radiation recruits CD4+GATA3+ and CD8+GATA3+ Tcells while altering the lipid microenvironment following inflammatory resolution in human skin in vivo Clin. Transl. Immunology 2020 (9) 1104, 1_11. 2. A. Kendall, S. M. Pilkington, S.A. Murphy Dynamics of the human skin mediator lipidome in response to dietary ω - 3 fatty acid supplementation FASEB 2019;33(11): 13014_13027 3. C.H. Hulme, A. Nicolaou, S.A. Murphy et al. The effect of high glucose on lipid metabolism in the human placenta. 2019 Sci Rep 9, 14114 4. S. M. Pilkington, S. A. Murphy, S. Kudva, A. Nicolaou, L. E. Rhodes, "COX inhibition during the sunburn response reduces the vasodilator PGE2 consequently increasing levels of the LOX produced chemoattractant 12_HETE in human skin" Experimental Dermatology, 2015, 24(10),790_791. 5. W. Jenner, M. Motwani, K. Veighey, J. Newson, T. Audzevich, A. Nicolaou, S. A. Murphy, R. Macallister, D.W. Gilroy, "Characterisation of leukocytes in a human skin blister model of acute inflammation and resolution" PLoS One, 2014, 9(3), e89375. 6. S.A. Murphy, A. Nicolaou, Lipidomics Applications in Health, Disease and Nutrition Research Mol Nutr Food Res. 2013;57(8):1336_46. 7. S.A. Murphy, K. Nolan, Photocatalytic activity of a porphyrin/TiO2 composite in the degradation of pharmaceuticals Applied Catalysis B: Environmental, 2012, 119–120, 156–165 8. J. Albarelli, D.T. Santos, S.A. Murphy, M. Oelgemoeller Use of Ca_Alginate as a Novel Support for TiO2 Immobilization in Methylene Blue Decolorisation, Water Science and Technology 2009, 60, 1081_1087 Book Chapter S. A. Murphy, N. M. I. Al_Aaswad, A. Nicolaou "Enzymatic Oxidation of Polyunsaturated Fatty Acids" Issue: Lipid Oxidation in Health and Disease. Publisher: Taylor and Francis (Oxidative Stress Series). 2015 pp. 45_66.

Projects

3 year SFI funded grant (Ireland) for PhD research programme supervised by Dr. Kieran Nolan investigating the photocatalytic degradation of pharmaceuticals.

2 year Wellcome Trust funded grant (UK) for the clinical nutritional intervention studies with omega-3 fish oils investigating patients propensity to sunburn, with subsequent lipidomic analysis of skin, plasma and capsule fish oil.

3 year EPSRC funded grant (UK) on the investigation of the biodistribution of nanomedicine components in vivo.

Memberships

Other Relevant Information