

Curriculum Vitae - David H L Wilson

Relevant Experience

September 2019 – Present: PhD Researcher, Wellcome Trust Tissue Repair Programme, The University of Edinburgh

May 2014 – August 2019: Research Assistant and Lab Manager, Dr. Luke Boulter, MRC Human Genetics Unit, MRC IGMM, The University of Edinburgh

Direct support and supervision for ongoing projects and experiments with members of the group. Independent management of personal projects. Particular expertise in murine modelling of Liver injury, immunohistochemical and immunofluorescent analysis and associated molecular biology. I established and refined a unique protocol for the extraction of biliary ducts and their subsequent culture in the form of organoids. Area Supervisor responsibilities for the building floor including lab management, communal stock and equipment management, health & safety, risk assessment responsibilities. I am also a first aider and fire steward.

June 2011 – April 2014: Research Assistant, Dr. Michael Rudnicki, Sprott Centre for Stem Cell Research, Ottawa Hospital Research Institute, Canada

Providing specialist histological, immunohistochemical and immunofluorescent support and associated analysis, general lab support work for all analytical and experimental tasks, equipment maintenance and lab management.

April 2007 – June 2011: Biomedical Scientist, Department of Pathology, Edinburgh Royal Infirmary

Personal Projects: IBMS Certificate of Competence Portfolio including case studies of renal allograft rejection and bilateral pheochromocytoma.

August 2002 - September 2002: Wellcome Trust Vacation Scholarship, Prof. I. Mhari McCrae and Dr. Hilary Carswell, The University of Glasgow, Dept. of Clinical Neuroscience.

Qualifications

January 2017: MScR with Distinction, Genetics and Molecular Medicine, The University of Edinburgh; Research Title: The functional role of Vangl2 in bile duct injury.

June 2009: Institute of Biomedical Science Certificate of Competence

June 2008: Graduate Certificate in Biomedical Science, The University of Ulster

July 2006: Post Graduate Diploma in Biomedical Science, Napier University

July 2004: BSc Hons Developmental Biology 2(II), The University of Edinburgh

Manuscripts in Preparation

Wilson DH, Mellin RP, Younger N, Jarman E, Raven A, Chen P, Dean C, Henderson D, Kendall T, Boulter L: Non-canonical Wnt signalling initiates scarring in biliary disease. Manuscript under revision at *Nature Communications*, bioRxiv 276196

Publications

Kendall TJ, Duff CM, Boulter L, **Wilson DH**, Freyer E, Aitken S, Forbes SJ, Iredale JP, Hastie ND: Embryonic mesothelial-derived hepatic lineage of quiescent and heterogenous scar-orchestrating cells defined but suppressed by WT1. *Nature Communications*. 2019;10(1):4688.

Lukjanenko L, Jung MJ, Hegde N, Perruisseau-Carrier C, Migliavacca E, Rozo M, Karaz S, Jacot G, Schmidt M, Li L, Metairon S, Raymond F, Lee U, Sizzano F, **Wilson DH**, Dumont NA, Palini A, Fässler R, Steiner P, Descombes P, Rudnicki MA, Fan CM, von Maltzahn J, Feige JN, Bentzinger CF: Loss of fibronectin from the aged stem cell niche affects the regenerative capacity of skeletal muscle in mice. *Nature Medicine* 2016: 22(8):897-905

Boulter L, Guest R, Kendall T, **Wilson DH**, Wojtacha D, Robson A, Samuel K, van Rooijen N, Barry S, Wigmore S, Sansom O, Forbes SJ: Wnt signalling drives Cholangiocarcinoma growth and can be therapeutically targeted. *Journal of Clinical Investigation* 2015: 125(3):1269-85

Price FD, von Maltzahn J, Bentzinger CF, Dumont NA, Yin H, Chang NC, **Wilson DH**, Frenette J, Rudnicki MA: Inhibition of JAK/STAT signaling stimulates adult satellite cell function. *Nature Medicine* 2014: 20;1174-81

Presentations

Wilson DH, Boulter L: The non-canonical Wnt receptor, Vangl2, modulates fibrogenesis during hepatic bile duct injury. Poster Presented at BSCB/BSDB Spring Meeting 2016

Wilson DH, Rudnicki MA: Histological and Immunofluorescent Analysis of Skeletal Muscle and the Satellite Cell. Poster Presented at OHRI Research Day 2012

Competitive Funding & Awards

Joint BSPGHAN / Children's Liver Disease Foundation Start-up Research Grant: £10,000 Using single cell sequencing to determine how bile ducts form: understanding the mechanisms to fight Biliary Atresia, Co-investigator, 2019

BSCB Honor Fell Travel award, 2016

#Edinburgh University College of Medicine and Vet Medicine Staff Scholarship, 2015

Stem Cell Network Travel Award and Bursary, 2013

Wellcome Trust Vacation Scholarship, 2002

Memberships, Conferences and Training Courses

AMMF – The Cholangiocarcinoma Charity Conference 2018

Institute of Occupational Safety and Health (IOSH) Managing Safely Course 2017

First Aid at Work Course 2016

British Society for Cell Biology / British Society for Developmental Biology Spring Meeting 2016

British Society for Cell Biology Member 2016

Home Office Personal Animal Licence 2014

University of British Columbia Flow Course 2013

Ottawa Hospital Research Institute Research Day 2011, 2012, 2013