Curriculum Vitae

Dr Rachel Cavill
Department of Toxicogenomics
University Maastricht
PO Box 616
6200 MD Maastricht
Tel. +31 43 38881092
Fax. + 31 43 3884146
Email. rachel.cavill@maastrichtuniversity.nl

Dr Rachel Cavill graduated in 2002 from the University of York with a first class Masters degree (MMATH) in Mathematics and Computer Science. After receiving a PhD in Electronics from the same institution in 2007 by working within the Intelligent Systems research group, she decided to make the leap to applying her skills to biological problems, working as a bioinformatician. Firstly, from within a Computer Science department in Aberdeen, she collaborated with biologists from Glaxo-Smith-Klein and then after 6 months, she moved to Imperial College London to work in the Department of Biomolecular Medicine. At Imperial, she was part of the EU FP6 CarcinoGENOMICS consortium, and started to specialise in integrating different data types. In 2009 she spent a month as a visiting researcher at the Max Planck Institute in Berlin and on a later return visit by Antanas Kamburov, one of the researchers in Berlin, the metabolomics-transcriptomics pathway data-integration web application ImPaLA was created; http://impala.molgen.mpg.de/

In 2011, she moved again from Imperial to Maastricht University to work in the Department of Toxicogenomics, although she retains an Honory Research Fellowship at Imperial College London. Her current research focuses on integrating transcriptomics data with parrallel datasets from high-throughput screening assays for chemicals in order to develop non-animal-based tests for genotoxicity and carcinogenicity. She regularly teaches on many short courses for international scientists including the Imperial College Metabolic Profiling Course, Microarray Analysis using R and Bioconductor arranged by the European Bioinformatics Institute through DIXA, the Postgraduate Education in Toxicology course in Toxicogenomics in Maastricht, and of course the Molecular Epidemiology Course organised by M2E2.