

Experiences in Delivery of e-Infrastructures for Post-Genomic Biomedical Research

The post-genomic biomedical community have many challenges that must be addressed by e-Infrastructures to tackle the data deluge; the computational demands, and importantly the need for fine-grained access control. This latter point in particular is essential for all translational research endeavours which deal with real patient, real genetic information and go beyond the hypothesis-driven nature of many e-Science efforts (e.g. those dealing with representative data sets or running representative simulations). This talk will cover the experiences in the development and delivery of such infrastructures built over an extended time period by the author whilst at the National e-Science Centre at the University of Glasgow and the new challenges and opportunities that exist at the University of Melbourne and the life science focus of the Parkville Precinct. The talk will describe experiences in running large-scale clinical trials; establishing of biobanking capabilities and the practical experiences of deploying software solutions that meet all of the demands of data providers and associated stakeholders.

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