

**Title of Project:** London Genetics

**Principal Investigator(s):** The Steering Group/Board is chaired by Professor Steve Smith, Principal of Imperial College. Dr James Mackay is the University College London representative on that group and the liaison person. The clinical director and CEO have not yet been appointed.

**Aim(s) of Project:** To bring genetic services into clinical trial activity within a commercial framework across several disease areas.

**Please provide a summary of the project proposal (max 1 page):**

See summary to follow

**Please list 3 deliverables that the project will contribute to the UK and/or international cancer informatics community**

1. It will start to gather standardised clinical data on outcomes, including toxicity profile and efficacy from both trial and non-trial patients
2. It will develop standardised patient information sheets and consent forms on cancer pharmaco-genetics for use both in clinical trials, and for cancer patients treated out-with a clinical trial
3. It will start to pioneer the analysis and integration of clinical outcome data, tumour biological data, and inherited genetic variation in the same patient, and then analysis of similarities and differences across patients.

**Please describe how the project will incorporate and/or re-use existing informatics infrastructure and/or resources. If the project will not use any existing infrastructure or resources (e.g. data standards or ontologies) please explain why this is the case**

This project will start by building on an existing electronic chemotherapy prescribing system, Clinisys. We will also build on pilot work performed by the Clinical e-Sciences Framework (Clef) team, which will be further developed in the Clef services project, which seeks to use anonymised routinely collected clinical data for bona fide research teams to analyse. We will need to further adapt the Clinisys system to record differential toxicity data and efficacy data in a more effective and user-friendly fashion. We will use already developed standards for tumour biology data, and hope to be able to use a standard system for storing inherited genetic data if the informatics task force manages to come up with one.

**Please describe the plans for the sharing of data and dissemination of knowledge that arise from the project:** Once the data has been analysed and published, it is assumed that the steering group would be happy for it to be made available to appropriate groups. No decision has been made about making it all freely available without restriction, as some of it may well be commercially sensitive.

**Contact details for liaison persons should further information be required:**  
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