

C. GENERAL REPORT

2. INDIVIDUAL TRAINING REQUEST

Responsibility: Trainee
Destination: Participants and Co-ordination

FELLOW	Name	Karen Meaney
	Address	National Centre for Medical Genetics, Dublin, Ireland
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Description of the requested training and motivation for such training: (max. 20 lines)

Support for attendance at the course "[Introduction to Statistical Analysis of Laboratory Data](#)" to be held in Berlin 18-19 October, 2007. As we in genetics labs generate more and more of our data in the form of quantitative measurements (fluorescence intensities, areas under peaks, SNP assays, MLPA data etc.) instead of looking at bands on gels, we need to learn from those experienced in working with such data (e.g. Clinical Chemists) how to use statistics to monitor the quality of our data. I have previously suggested this as a topic for an EUGT workshop. Karen has agreed to write a report on this course for publication in the EUGT newsletter, and would also give a presentation at a workshop if required.

Course topics include:

- Basic statistical terminology needed to effectively communicate and understand your data results
- Concepts of accuracy and precision in measurement analysis to ensure appropriate conclusions in experimental results
- Discussion of statistical techniques to compare experimental approaches with respect to specificity, sensitivity and linearity
- Analysis of robustness and ruggedness
- Method comparison using more accurate alternatives to correlate analysis and other pair-wise comparisons
- Outliers, limit of detection and limit of quantitation
- Statistical quality control for process stability and capability

Number of person-months (days) requested:

Three days (course plus travel time)

Requested timing:

17-20 October, 2007

Educational level (predoc, postdoc, experienced, ...)

Completing part-time MSc, completed A-Grade training as Clinical Scientist in UK, experienced with MLPA data analysis

Actual position and Qualifications of trainee (academic, nurses, technicians, industrial, ...)

BSc 2001; currently Clinical Scientist in Molecular Genetics

Facilities requested (equipment, housing, ...)

Only travel, accommodation and course fee

Financial possibilities

No other funding available (see attached letter). This fellowship could be funded from the 2007 EUGT budget of UCD

Preferential EuroGentest hosts

Not applicable