



## **DoReMi training course on data interpretation and uncertainty analysis for the combined low dose radiation research disciplines**

PHE and Oxford Brookes University Course – St Anne's college, Oxford, UK  
1<sup>st</sup> – 5<sup>th</sup> September 2014

### Background

Uncertainties have been identified as a priority area across the different research disciplines in the MELODI SRA. In low dose radiation research in general, there is a need to fully understand sources of uncertainty and how to characterise them before it will be possible to reduce uncertainties. There is a lack of formal training in this area in some disciplines and often a lack of sharing techniques across disciplines, yet data analysis could (should?) be the 'backbone' of multidisciplinary research. What's more, high quality research should always include decent data analysis!

### Aims of the course

- To provide a solid background in uncertainty analysis techniques for the low dose research disciplines:
  - Basic radiation biology (dose response, survival, sensitivity, hereditary effects, radiation quality, etc);
  - Physical and biological dosimetry (EPR, OSL, cytogenetic techniques, etc);
  - Epidemiology;
  - Modelling (Monte carlo, Systems biology, Bayesian techniques);

Lecturers: Experts from Brookes and PHE as well as many other EU centres;

- To provide 'real life' examples of uncertainty analysis methods employed in current DoReMi research projects, e.g. Recent developments in Bayesian uncertainty analysis for cytogenetic biodosimetry;
- To provide practice in the form of practical exercises and assessments in the main research areas. Up to 5 practical sessions will be offered and certificates will be provided for participants for each practical completed.

### Who is the course for?

This training course is aimed at 'young investigators' in the low dose radiation research disciplines, including advanced MSc students and PhD students. Training will be offered for approximately 12 students on a first come first serve basis for those who:

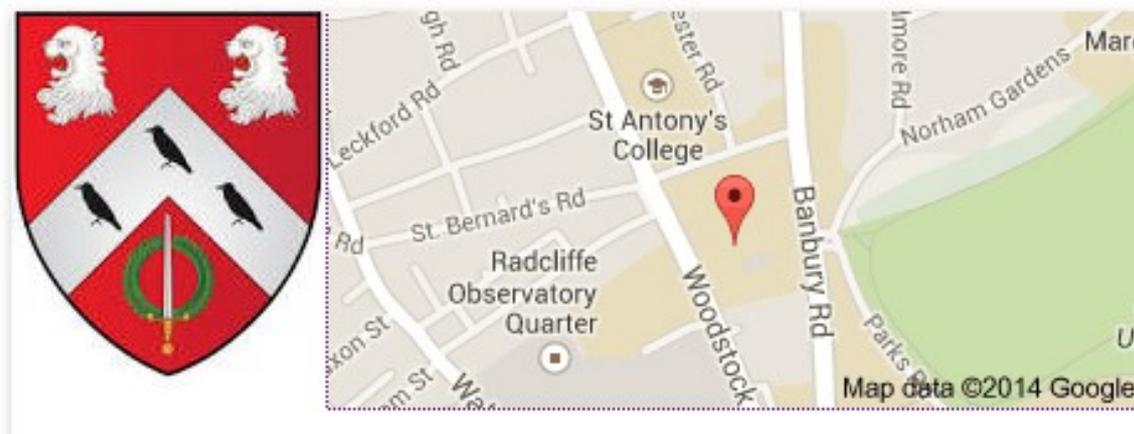
- Are members of institutions which are currently involved in the DoReMi project;
- Can demonstrate the necessary background i.e., a BSc level degree in a related discipline or at least 3 years of experience in the field;
- Who are currently active in European low dose radiation research.

### Course fees

This course will be provided free of charge to up to 12 students who fit the criteria listed in the scope section, with places funded by the DoReMi Training and Education initiative. Accommodation for 4 nights (Monday – Thursday) and breakfast and lunch for the 5 days of the course will also be included. Students will just need to pay for their travel to Oxford and for evening meals throughout the week, with the exception of the course dinner which will take place on the evening of the 4<sup>th</sup>. Accommodation will also be available on the Sunday evening for those who wish to pay for it.

### Location and dates

The course will be held at St Annes College, 56 Woodstock Rd, Oxford OX2 6HS. The course will take place over one full week from the 1st – 5th September 2014, inclusive.



### Contact for further information

Liz Ainsbury - [liz.ainsbury@phe.gov.uk](mailto:liz.ainsbury@phe.gov.uk); Telephone: +44 1235 825105

### Course registration

Students should email the below information, together with a recent CV (no more than 2 pages), to: [liz.ainsbury@phe.gov.uk](mailto:liz.ainsbury@phe.gov.uk), by the 12<sup>th</sup> August 2014 at the latest. Places will be confirmed by email the following week.

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Name:

Institution:

Address including postcode:

Country:

Highest level of education attained to date:

Are you currently studying? If so, what course (e.g. MSc, PhD, other)?

Short description of current research interests:

Why are you interested in attending this course?