

Liz AINSBURY



Dr Elizabeth (Liz) Ainsbury is a Ph. D. physics graduate with 12 years of experience as a Radiation Protection Scientist at PHE's Centre for Radiation, Chemical and Environmental Effects. As head of the Cytogenetics Group and the Chromosome Dosimetry Service, Liz's main field of research is radiation biodosimetry - using the cytogenetic (cellular and chromosomal) effects of ionising radiation to estimate individual doses. Liz also has an interest in statistical methods to support radiobiological research and development as well as wider radiation protection research, particularly whole-body radiation effects and radiation cataractogenesis.

Liz has participated in many national and international collaborative research projects including leading/co-leading recent projects developing statistical analysis methods for biodosimetry (EU FP7 [MULTIBIODOSE](#) WP6

lead, Royal Society IJP080153), advancing EU biodosimetry techniques and networking for provision of emergency response capabilities ([MULTIBIODOSE](#), [RENEB](#), [WHO BioDoseNet](#), as well as [EURADOS](#) WG10). Liz was co-PI for the recent NIH funded CMCR "RTGene" project focused on development of biomarkers for radiotherapy patients and the [NIHR HPRU project](#) "Chemical and Radiation Threats and Hazards" in collaboration with Newcastle University. Liz is currently PI for the EU CONCERT funded project '[LDlensRad](#)' investigating mechanisms of radiation induced cataracts. Liz has presented at numerous scientific conferences and meetings, including giving invited talks, and has contributed to over 80 peer-reviewed publications, including around 20 as the first named author. She is a contributing editor for several high profile international peer-review journals within the fields of radiation protection research.

Liz has supervised a number of successful Ph. D. projects and regularly lectures on a number of courses at UK and EU Universities, including the Oxford University Radiation Oncology & Biology M. Sc. in Radiation Biology. Liz's current committee memberships include ISO Working Groups 18 and 23 (2014 - current) and US National Council on Radiation Protection and Measurements Subcommittee 1-23: Guidance on Radiation Dose Limits for the Lens of the Eye (2013 - current). Liz is a Member of the [Institute of Physics \(MInstPhys\)](#), the [Society for Radiation Protection](#) and the [Association for Radiation Research](#).

In 2019, Liz was awarded the International Commission on Radiological Protection's Bo Lindell Medal for Promotion of Radiological Protection. In 2014, Liz received the [MELODI](#) Young Researcher Award for multidisciplinary EU low dose radiation research and in 2007 Liz received the inaugural Institute of Physics Very Early Career Woman Physicist of the Year Award for research and outreach activities encouraging young people to study physics.