Activities						Methods					
Mandatory	Core Competency	Management	Job-specific	Reward	Individual	Face-to-face	Online	Learning nuggets	Group-based	On the-job	Deployment

Causality in (Cancer) Epidemiology – 6-8 November 2017

3 days		David Forman, Senior Visiting Scientist at IARC	Language	English
			Participants	20

Organised by	ETR
Venue (optional)	Sasakawa B
Target audience	Students, post-docs and junior scientific staff with epidemiology background
Type of learning activity	Recommended Job-specific programme
Learning approaches	Lectures, questions and discussions, practical exercises
Aims	To provide an introduction to evidence evaluation and causal thinking in epidemiology in order to enable judgements to be made regarding causality between exposures and disease. To provide an outline of the IARC Monograph process and how Working Groups reach evaluations on the human carcinogenicity of specific exposures.
Learning objectives	At the end of the course, participants will be able to understand: • Current debates in epidemiology as to the nature of causation and different types of causes; • Benefits and limitations of using causal criteria in epidemiology; • The nature of evidence in epidemiology, the concept of hierarchies of evidence and the role of systematic reviews and meta-analyses; • Basic principles of causal modelling; • Strengths and limitations of using Directed Acyclic Graphs (DAGs) in epidemiology; • New methods for addressing causality including triangulation and Mendelian randomization; • The evaluative processes and determinations of causality within the IARC Monograph Programme; • Challenges to and future developments of the IARC Monograph Programme.
Main topics	• Causation and association, causal "pies" and "webs" • "Criteria" for causality, Bradford Hill's "aids to thought" • Conducting evidence reviews • Effect estimation and significance testing • Causality: an historical glimpse • IARC Monographs: procedures, scientific review and evaluation • Hazard vs risk & risk assessment paradigms • Other systematic evaluation methodologies • Causation, variation and statistical modelling • Directed Acyclic Graphs, triangulation & Mendelian randomization
Prerequisite	Applicants should have understanding of basic epidemiological concepts and, if from a laboratory (or non-epidemiological) background, should have undertaken "Epidemiology for non-epidemiologists" (application open until 10 October) short course or IARC Summer School Module on "Cancer Epidemiology".

Application procedure	Prior to completing the online application form, make sure that you have your supervisor's agreement to attend this training. You will have to attach an email of agreement from your supervisor to the application form. This email should mention: your name, dates and title of the course, that it is understood that you will attend the course for its entire duration.
	Should you encounter any problem in filling out and/or submitting the form, please contact us at learning@iarc.fr
	Please note that by applying for the course, you undertake to attend every lecture and practical session. Certificates will only be issued if this requirement is met. **Click on the following link to register:** **http://www.surveygizmo.com/s3/3875912/2017-11-IARC-Causality-in-Cancer-Epidemiology-Application-form** **Deadline for application is 26 October 2017**