

Module 216 Minor A: Exposure Assessment

Module : 216	Exposure Assessment
UE coordinator	Philippe Glorennec EHESP
Dates	November 7 th to 10 th 2016
Credits/ECTS	3 ECTS
Duration	Number of days: 4
UE description	Main general objective is to identify keypoints of an exposure assessment. After theoretical overview of current knowledge and practice, a large part of time will be dedicated to examples, exercises, lab visit and an integrative case study.
Prerequisites	Main core course on biomarkers
Course learning objectives	<p>To understand the concept of exposome; To identify methods of exposure assessment; To choose relevant information and elaborate rough protocol in a given situation; To analyze and integrate information on exposure associated to an agent.</p> <p><u>Globally, Minor 216 contributes to the following general competencies acquisition objectives :</u></p> <p>Describe the direct and indirect human, ecological and safety effects of major environmental and occupational agents. Specify current environmental health risk assessment methods. Specify approaches for assessing, preventing and controlling environmental hazards that pose risks to human health and safety.</p>
UE Structure (details of sessions title/speaker/date/duration)	<ul style="list-style-type: none"> • The exposome concept, methods in exposure science • Environmental fate of pollutants • Pollutants measurement • Exposure modeling • Geographical tools • Aggregating exposures and handling variability • Case study : exposure assessment protocol (all week long)
Course requirement	
Grading and assessment	Group presentation of a protocol of exposure assessment.
Location	George Sand EHESP Campus
Readings	<p>Liroy, P. J., & Rappaport, S. M. (2011). Exposure science and the exposome: an opportunity for coherence in the environmental health sciences. <i>Environmental health perspectives</i>, 119(11), A466.</p> <p>Liroy, P. J. (2010). Exposure science: a view of the past and milestones for the future. <i>Environmental health perspectives</i>, 1081-1090.</p>