

4 credits

30.0 h

Q1

Teacher(s)	Bindels Laure ;de Timary Philippe ;Debier Cathy ;Delzenne Nathalie coordinator ;Everard Amandine ;Smets Françoise ;
Language :	French
Place of the course	Bruxelles Woluwe
Main themes	The lectures illustrate the biological mechanisms (at the molecular, cellular and systemic levels) of toxicological risk associated with food, drinks and dietary habits
Aims	<i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Evaluation methods	The evaluation is made on a written exam taking into account questions from all professors. The students must also prepare a written document describing and criticizing the biological events and risk management policy related to a question of health and nutrition recently addressed by the media or by authorities. All instructions are put on Moodle. The written document is evaluated together with an oral presentation. All parts (written exam, written document and oral presentation) are integrated in the final evaluation.
Content	The first part covers the basis of hazard and risk evaluation (definitions and calculation of the No Observed Adverse Effect Level (NOAEL), acceptable dietary intake (ADI)....). It presents the diversity of toxicants present in food and evaluates the contribution of host and microbial metabolism in the toxicity linked to food intake (nutrients-xenobiotics interactions) (N. Delzenne, Laure Bindels). Example of environmental toxicants on metabolic disorders are given to illustrate i.e. 1) how pollutants act on adipose tissue (C. Debier), 2) microbiological risks linked to food habits and interactions between gut microbiota and xenobiotics in nutritional toxicology (Laure Bindels, Amandine Everard) 3) food allergy (F Smets), 4) addiction and risky behaviors (Ph De Timary).
Inline resources	All power points and related articles are posted on moodle.
Faculty or entity in charge	FASB

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Master [120] in Biomedicine	<a href="#">SBIM2M</a>	4		