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Laurence completed her thesis in molecular and cellular toxicology in the INSERM U620 laboratory, under the direction of Dominique Lagadic-Gossmann, on the regulation of intracellular pH during apoptosis induced by benzo [a] pyrene, a polycyclic aromatic hydrocarbon, in liver cells. She then worked as a postdoctoral fellow at Oxford University on intracellular pH in heart cells, and then at Imperial College London in the Experimental Medicine and Toxicology laboratory on apoptosis induced by anticancer agents. In October 2008, she was recruited to develop molecular and cellular studies in food toxicology. Since then, she has worked on the mitochondrial stress induced by bisphenol A, on the study of cell death and detoxication of 4-hydroxynonenal in normal and pre-cancerous colonic cells according to a process of Darwinian carcinogenesis.

Since the creation of COMICS team, she works on the metabolic reprogramming upon food exposure by polycyclic aromatic hydrocarbones and dioxins, related to chronic diseases, such as cancer (INCa METAhCOL project). She coordinates a project for alternative in vivo models with zebrafish (funding from Canceropole Grand Sud Ouest (Toxinzebra)). She carries out studies related to mitochondria-targeted fungicides, like succinate deshydrogenase inhibitors (SDHi). In order to set up an activity of conceptual toxicology, she is a [master 2](#) student in logic, philosophy of sciences and philosophy of knowledge ([LOPHISC](#)) at Sorbonne-University. She is a member of the Institute for Philosophy in Biology and Medicine ([PhilInBioMed](#)) coordinated at the University of Bordeaux.