

Denis ROUSSEAU was PhD graduated at Grenoble University at the “Commissariat à l’Energie Atomique” and at the French National Institute of Health in 1992 where he worked on cell cycle regulations and cancer. With a post-doctoral position in Nahum Sonenberg laboratory at McGill University, he specialized on cancer research, translational regulations and virology.

As assistant-professor he worked few years on HCV and HIV research and in cancer research. As associate-professor he worked then for several years on a vital mitochondrial ATPase, ATAD3, involved in several pathologies like cancers and diabetes using genetically modified mouse model, focusing on muscular, metabolic and brain diseases associated to ATAD3 loss of function.

He is today working on biomedical engineering purposes at the french National Polytechnic Institute in Grenoble.

His skills are of experimental bio-medicine and biotechnology with specializations in molecular and cellular biology, cancer research, virology and metabolic diseases.

**COURSE TITLE: Western blot and Genomic / RT-PCR**

Different technics are used today, in research and medical diagnosis, to quantify and detect proteins, RNA and DNA. These technics are rapid and reliable and allows a better understanding of cellular physiology and a better characterization of diseases.

The purpose of the course will be to explain how Western blot and Genomic/RT-PCR can be powerful, in term of quantification and characterization, in both diagnosis and biological research.