

### UE 3.3. Technological skills for conducting a research project in Biology and Health Science

3 ECTS

#### Teaching unit shared by the following tracks:

- Cellular, Integrative and Translational Neurosciences
- Diabetes and cardiovascular diseases
- Fundamental and clinical oncology, towards precision medicine
- Immunity, Inflammation et Infection

#### EC7 - Invertebrate models

Contact: [pierre.dourlen@pasteur-lille.fr](mailto:pierre.dourlen@pasteur-lille.fr)

Màj 09/06/2022

The objective of this class is to allow students to master concepts associated with invertebrate models in fundamental and applied research. Invertebrate models are at the basis of our current knowledge in biology, as proven by the 8 Nobel prizes rewarding 15 scientists working with the fruit fly *Drosophila melanogaster* and the worm *Caenorhabditis elegans*. In addition, these models are usually closer to mammals and Humans in terms of cell biology and even physiology than initially thought based on their morphological appearance.

Based on these two models, this class intends to offer scientists and health professionals essential knowledge about invertebrate models, especially their advantages and drawbacks and to give them the basics required to understand current publications using these models.