Teaching

One of the LBBE's missions is to train experts in evolutionary biology, ecology and human health by providing them with a solid background for developing and using quantitative approaches (bioinformatics, modelling, statistics). This initial training mission is essentially fulfilled by the laboratory's teacher-researchers with the active participation of a large number of CNRS colleagues. The philosophy of the teaching team is to provide teaching with a strong anchorage in current research issues in evolutionary biology/ecology and health.

The teaching team is strongly involved in higher education courses at the Bachelor's (Licence), Master's and doctoral levels. The figure below lists all the courses and establishments in which LBBE members have teaching responsibilities (Licence and Master responsibilities, University Diplomas (DU)).

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BUT Génie Biologique Licence Études de Santé : (Analyses Biologiques et Sciences de la Vie, PAS Biochimiques, Agronomie et UCB Lyon1 LAS Licence Diététique) L3 L3 BioInformatique, Sciences de la Statistique, Modélisation (BISM) **Biodiversité** Master Biodiversité Écologie Évolution, BEE Master Santé Publique **Master Cancer** M2 EEG (Écologie, M2 B3S (Biostat, Biomath, Évolution, Génomique) Master Bioinfo et santé) M2 Oncology 3.0 M2 GE (Génomique M2 PHAME (Pharmacologie, **VETAGROSUP** Master Ingénierie de la Environnementale) Modélisation et Essais santé cliniques) Master Bioinformatique M2 EC (Évaluation M2 One Health Moléculaire : clinique) Méthodes et analyses

Diplôme Universitaire (DU) Biologie de l'Évolution et Médecine Diplôme Universitaire (DU) Interprétation des Essais Cliniques Diplôme Inter Universitaire Formation des Investigateurs aux Essais Cliniques des Médicaments (DIU FIEC) Diplôme Inter Universitaire Formation des Assistants de Recherche Clinique (DIU FARC) The LBBE's involvement in training through research has increased in recent years with our contribution to the Graduate+ project of the PIA4 SFRI (Structuring and Training through Research for Excellence Initiatives) call for proposals. Thus, the LBBE co-leads two initiatives within this establishment project:

- > "Biodiversity and Bioresources", which aims to develop an international and interdisciplinary training, with a strong anchorage in research, on the dynamics, evolution, preservation and management of biodiversity and bioresources, including the quality/health of organisms and ecosystems and the production of food resources.
- > "DigitBiomed" is an interdisciplinary initiative, at the interface between mathematics and computer science on the one hand, and biology and health on the other, aiming to develop training through research and turned towards the international arena, around the issues linked to the digital revolution and AI in life sciences and health.

Finally, the LBBE, in association with VetAgroSup and Lyon2, is pleased to lead a graduate school (Ecole Universitaire de Recherche) on Emerging Infectious Diseases, the EUR EID@Lyon.

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