Julia Watson

29/10/2000

Phone : +33 6 40 05 34 09

@ : julia.watson@univ-lyon1.fr

128 Boulevard du 11 novembre 1918, 69100 Villeurbanne

2023-2026: Ph.D. in ecophysiology – University of Claude Bernard Lyon 1 and INRAE Recover Aix-Marseille, Characterizing the physiological adaptations of fish in the context of global warming and additional warming by power plant heat rejection. Supervisors: Loïc Teulier (University of Claude Bernard Lyon 1) and Martin Daufresne (INRAE Recover Aix-Marseille)

Education:

2022 – 2023: 2nd year of MSc, Environmental and muscle physiology - University of Claude Bernard Lyon 1 (2/17)

2021 - 2022: 1st year of MSc, Integrative biology and physiology - University of Claude Bernard Lyon 1 (5/39)

2020 – 2021: 3rd year degree in animal physiology – University of Claude Bernard Lyon 1 (9/151)

2018-2020: 1st and 2nd year degree in biology and ecology – University of Savoie Mont Blanc (1st year: 8/43, 2nd year: 14/67)

2017: BAC S, European English section - Lycée Lamartine Mâcon

Professional experiences:

December 2022 - June 2023: Placement at the LEHNA (Lyon), in collaboration with the University of Glasgow: Mechanisms linking chronic stress, energetics and ageing in Japanese quails selected for high or low emotivity levels

Tutor: Antoine Stier. Techniques: DNA and RNA extractions, telomere length measurements with TRF (telomere restriction fragment) and qPCR, mitochondrial DNA content measurements with qPCR, oxidative stress dosages (OXY, ROMs, 8-OHdG), gene expression with RT-qPCR, metabolite dosages

January/Febrary 2022: Placement at the LEHNA (Lyon): Scaling glycolytic and oxidative enzymes in 3 bird tissues; skeletal muscle, heart and liver

Tutors: Jessica Barbe and Damien Roussel. Techniques: dosage of mitochondrial proteins, citrate synthase and lactate dehydrogenase enzyme activities, activity of complexes I and II, mitochondrial respiration on Oroboros machines

June 2021: Internship at CARMEN (Pierre Bénite, Lyon): immunohistochemistry on mouse adipocytes and liver

Tutor: Assia El Jafaari. Techniques: histology and marking of macrophages in adipose tissue and liver in mice.

Skills:

RStudio, Excel, Word

Languages :

French, English (bilingual), German (learnt at school for 7 years, “A2”)

Publications:

The allometry of mitochondrial efficiency is tissue-dependent: A comparison between skeletal and cardiac muscles of birds., Jessica Barbe, Julia Watson, Damien Roussel, and Yann Voituron (currently under review, *Journal of Experimental Biology*)

Adipokines in obesity and metabolic-related-diseases Julien Pestel, Ferdinand Blangero, Julia Watson, Luciano Pirola, Assia Eljaafari, *Biochimie*, 2023

Adipose tissue-derived mesenchymal stem cells mediate PD-L1 overexpression in white adipose tissues of obese individuals, resulting in T-cell dysfunction: A link between severe COVID-19 and obesity?, Assia Eljaafari, Julien Pestel, Brigitte Le Magueresse-Battistoni, Stephanie Chanon, Julia Watson, Maud Robert, Emmanuel Disse and Hubert Vidal, *Cells*, 2021