

## **DISTANCE LEARNING COURSE: TRAINING IN THE USE OF THE FISH & CHIPS TOOL**

**DATE:** AVAILABLE FROM DEC 2019 **LOCATION:** ONLINE

**FREE  
TRAINING COURSE**



### **COURSE DESCRIPTION**

How do you improve analysis and functional interpretation of transcriptomic data? Training in the use of the FISH & CHIPS tool can help! FISH & CHIPS is a database containing public transcriptomic data related to fish species in various physiological conditions. The bioinformatic tool can be used to extract genes which would have similar expression patterns and thus could be characteristic of fish biological responses. By comparing data obtained in your experiment with data sets of microarrays or RNAseq obtained in various fish species, we can find a common transcriptional signature. Information given by samples of each experiment with a common signature is a powerful way to explore functional roles associated with these signatures. This training course presents the FISH & CHIPS tool and explains how to carry out such meta-analysis and interpret your set of genomic data.

### **COURSE CONTENT**

This course will teach participants how to develop a meta-analysis of transcriptomic data and how to use the FISH & CHIPS tool to do so. The course also provides the opportunity to practice on a case study. Following this training, users should be able to develop analyses of their own data sets.

**MODULE 1: WHAT IS METADATA ANALYSIS?**

**MODULE 2: UNDERSTAND MATHEMATICAL MODELLING AS A TOOL**

**MODULE 3: HOW TO USE THE FISH & CHIPS TOOL**

**MODULE 4: A CASE STUDY**

### **TARGET AUDIENCE**

This course is designed for people who want to improve analysis and functional interpretation of their transcriptomic data obtained in fish. This includes postgraduate students, PhD students, post-doctoral researchers and researchers with a basic knowledge on genomic and gene expression.

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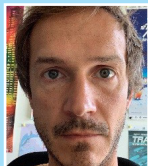
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### **COURSE ORGANISER**

INRA, Laboratory of Fish Physiology and Genomic, Campus de Beaulieu, France

### **COURSE TUTORS**



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### **PRACTICAL INFORMATION**

#### **Location:**

Online Course. Full details on how to access will be provided after registration.

#### **Format:**

This training course will make use of a blend of delivery methodologies; the 4 modules will be visually and orally presented, guided through PowerPoint. The course includes a practical exercise in the form of a case study through which participants can practice their newly acquired knowledge of the FISH & CHIPS tool. Course tutors can be approached by email for any questions regarding the course or material and an online message board will give all participants the chance to interact and discuss FAQs.

#### **Date & Time:**

The course will be available online from December 2019 until September 2020.

#### **Language of instruction & material:**

English

#### **Fees:**

Course registration and attendance is free, thanks to European Commission Horizon 2020 funding. There are no further fees.

### **REGISTRATION**

E-mail your registration request to [aquaexcel@aquatt.ie](mailto:aquaexcel@aquatt.ie), using the official registration form that can be downloaded from the **AQUAEXCEL<sup>2020</sup>** website: [aquaexcel2020.eu/training-courses/upcoming-training-courses-apply-now](http://aquaexcel2020.eu/training-courses/upcoming-training-courses-apply-now)

Please indicate the following in the subject: **AQUAEXCEL2020/DL\_INRA\_CHIP**. A separate GDPR Consent Form is also provided on the project website. The GDPR Consent Form must be completed by individuals applying for any **AQUAEXCEL<sup>2020</sup>** training course and should be attached to the training course registration.