



## **PhD and postdoc training school on CHIP-seq (wet-lab) and basic functional animal genome analysis**

**What?** An opportunity for PhD students and Postdocs to perform wet lab experiments (hands on) and to use data set for functional annotation of genomes

**When?** 24<sup>th</sup>- 28<sup>th</sup> June 2019

**Where?** Wageningen University & Research, Wageningen , The Netherlands

### **Preliminary Program**

#### **Monday 24<sup>th</sup> June: 'intro group and wet-lab'**

Start: 09:30 hour

9h30 – 10h30: Outline of the week

Introduction of trainee's

10h30-11h30: technical presentation about CHIP and organization of the practicals

Afternoon: Chromatin preparation - duration: ~ 3h30

and Start Immunoprecipitation – duration ~ 30-45 min

#### **Tuesday 25<sup>th</sup> June: 'start up analysis'**

Morning:

9h – 10h30 : Group 1: CHIP (washes, elution and start cross-link reversion)

Group 2: Analysis: Intro Linux and data sets

10h45 – 12h15 : Group 2: CHIP (washes, elution and start cross-link reversion)

Group 1: Analysis: Intro Linux and data sets

Afternoon session:

Seminar:

4 speakers: national and international specialists connected to the topic

*Evening: network dinner*

**Wednesday 26<sup>th</sup> June: 'data quality'**

*Morning:*

*DNA purification (1 h) + Qubit quantification + qPCR (2-3 h) ;*

*during qPCR – talk: Tools to decode Epigenetics – Jerome Kroonen*

*Afternoon session:*

Analysis: data quality, trimming, aligning RNA seq, Chip-seq and methylation

**Thursday 27<sup>th</sup> June: 'start up analysis'**

*Morning:*

Wet-lab: *qPCR analysis*

Analysis: peak calling, gene expression calling, methylation calling

*Afternoon session:*

Computer practical: Biosamples and data submission FAANG by EBI, UK

Pizza evening

**Friday 28<sup>th</sup> June: 'integration of data'**

Wet-lab: discuss results and wrap-up

Analysis: Integration of data and wrap-up.

End: 13:00 hour



**Trainers:** Ole Madsen, Sylvain Foissac, Bert Dibbits and Richard Crooijmans.

**Cost:** The course will be 575 € of charge for accepted trainees: up to a maximum of 30 people, participants from EU-COST-FAANG countries will be reimbursed on average 650 € for travel, accommodation and meals.

**How to apply:** Fill out this application form by the 15<sup>st</sup> May:

Go to: <https://www.wur.nl/en/Education-Programmes/PhD-Programme/Graduate-Schools/Wageningen-Institute-of-Animal-Sciences/Show-1/PhD-and-postdoc-training-school-on-ChIP-seq-wet-lab-and-basic-functional-animal-genome-analysis-24-28-June-2019.htm>

Successful applicants will be informed by the 16<sup>th</sup> May.

## Practical information

### Training course venue

Wageningen University & Research, ORION education building

Rooms: C4030, P5009 and P5010, PC3031 and C1040

Wageningen University & a Research is located in Wageningen and can be reached from Amsterdam Schiphol airport by train (train station: s Wageningen /Ede) and bus (take bus 88 to Wageningen and take of at campus Wageningen. Amsterdam Schiphol airport has direct flights to many countries in the world.

From Wageningen Bus station city centre take bus 88 to campus Wageningen University & Research (10 min)

**Accommodation**

Hotel arrangement connected to the summer school can be booked at <https://www.wicc.nl/>

**Contacts:**

Scientific program: Richard Crooijmans

Local organizers: Richard Crooijmans at [richard.crooijmans@wur.nl](mailto:richard.crooijmans@wur.nl) and Ole Madsen at [ole.madsen@wur.nl](mailto:ole.madsen@wur.nl)

For other practical local questions: Lisette Bourquin at [Lisette.bourquin@wur.nl](mailto:Lisette.bourquin@wur.nl)