



IMPRESS GENOMICS AND BIOINFORMATICS WORKSHOP 2015

**27-30 October 2015
Leiden, The Netherlands**



Dear Marie Curie fellows and other interested scientists,

It is a great pleasure to announce the IMPRESS Genomics and Bioinformatics Workshop to be held in Leiden, The Netherlands, from 27 till 30 October 2015.

Aim: Open workshop for Marie Curie fellows and other interested scientists who wish to learn more about the field of genomics and bioinformatics, including sequencing and bioinformatics tools, genomics, transcriptomics and hands-on practice.

Program: A four-day workshop with keynote lectures and hands-on sections on processing of Nextgen sequencing data. A detailed preliminary program is shown on the reverse side.

Accommodation: The venue of the meeting will be the Auditorium and Foyer of the Biopartner 1 building at the Bioscience Park in Leiden. Address: J.H. Oortweg 21, 2333 CH Leiden, The Netherlands. Several excellent hotels are located in close vicinity to the Leiden Bioscience Park. Check e.g. www.booking.com for an up-to-date overview and to make your reservation.

Costs: Registration fee is € 450,00 for IMPRESS Marie Curie fellows and € 600,00 for external participants. The registration fee includes the costs of lunches and coffee/tea breaks (accommodation and dinner are not included).

Registration: The deadline for registration is: 1 October 2015. The capacity for external participants is limited to 15 people. Selection will be on "first come, first served" basis. Please register via e-mail: workshop2015@zfscreens.com

Looking forward to your participation in the IMPRESS Genomics and Bioinformatics Workshop.

Kind regards,

The organizers:

- Ron Dirks (ZF-screens BV / Leiden University, Leiden, The Netherlands; dirks@zfscreens.com)
- Hans Jansen (ZF-screens BV, Leiden, The Netherlands; jansen@zfscreens.com)



www.impress-itn.eu



Preliminary program of the IMPRESS Genomics and Bioinformatics Workshop 2015

Tuesday 27 October 2015			
Timeslot	Topic	Description	Speaker
8.45 - 9.00 h	arrival with coffee/tea		
9.00 - 10.00 h	Sequencing tools (lecture)	From eel blood to genome sequence: past and present strategies (part 1)	Dr. Hans Jansen ZF-screens BV, Leiden
10.00 - 11.00 h	Sequencing tools (lecture)	From eel blood to genome sequence: past and present strategies (part 2)	Dr. Hans Jansen ZF-screens BV, Leiden
11.00 - 11.30 h	coffee/tea break		
11.30 - 12.30 h	Bioinformatics tools (lecture)	Software tools for genome assembly	Dr. Christiaan Henkel Leiden University
12.30 - 13.30 h	lunch break		
13.30 - 17.00 h	Hands-on practice	European eel gene annotations CLC-Bio Main Workbench	Dr. Ron Dirks ZF-screens BV, Leiden

Wednesday 28 October 2015			
Timeslot	Topic	Description	Speaker
8.45 - 9.00 h	arrival with coffee/tea		
9.00 - 10.00 h	Sequencing tools (lecture)	From eel fin clip to FASTQ file: Tissue sampling and storage, RNA isolation, library preps and runs	Dr. Hans Jansen ZF-screens BV, Leiden
10.00 - 11.00 h	Sequencing tools (lecture)	From eel fin clip to transcriptome: Variations of RNAseq: low input RNA, microRNAs, nanoCage	Dr. Hans Jansen ZF-screens BV, Leiden
11.00 - 11.30 h	coffee/tea break		
11.30 - 12.30 h	Bioinformatics tools (lecture)	RNAseq data processing: Filtering, alignment against reference genome, statistical analysis	Dr. Hans Jansen ZF-screens BV, Leiden
12.30 - 13.30 h	lunch break		
13.30 - 16.00 h	Hands-on practice	From eel fin clip FASTQ file to Excel file with differentially expressed genes	Dr. Hans Jansen ZF-screens BV, Leiden
16.00 - 17.00 h	Bioinformatics tools (demo)	Creating a de novo transcriptome reference file for non-model organisms	Dr. Iris Kolder Leiden University

Thursday 29 October 2015			
Timeslot	Topic	Description	Speaker
8.45 - 9.00 h	arrival with coffee/tea		
9.00 - 10.00 h	Bioinformatics tools (lecture)	Advanced analysis of transcriptomes: alternative splicing (DEXSeq), whole transcript sequencing (MinION)	Dr. Hans Jansen ZF-screens BV, Leiden
10.00 - 11.00 h	Genomics tools (lecture)	Verification of RNAseq data: advanced qPCR tools	Dr. Han Zendman NYtor BV, Nijmegen
11.00 - 11.30 h	coffee/tea break		
11.30 - 12.30 h	Genomics tools (lecture)	Visualization of genomics results	Dr. Walter Pirovano BaseClear BV, Leiden
12.30 - 13.30 h	lunch break		
13.30 - 14.30 h	Genomics tools (lecture)	Advanced analysis of eel fin clip RNAseq data	Dr. Peter Racz ZF-screens BV, Leiden
14.30 - 17.00 h	Hands-on practice	publishing RNAseq results: Venn diagrams, heat maps, pathway analysis	Dr. Peter Racz ZF-screens BV, Leiden

Friday 30 October 2015			
Timeslot	Topic	Description	Speaker
8.45 - 9.00 h	arrival with coffee/tea		
9.00 - 10.00 h	Genomics tools (lecture)	Genome evolution	Dr. Christiaan Henkel Leiden University
10.00 - 11.00 h	Genomics tools (lecture)	Selective fish breeding	to be confirmed
11.00 - 11.30 h	coffee/tea break		
11.30 - 12.30 h	Genomics tools (lecture)	Creating superscaffolds using Irys systems from Bionano Genomics	Dr. Gabino Sanchez Perez Wageningen University
12.30 - 13.30 h	lunch break		
13.30 - 14.30 h	Transcriptomics (lecture)	Applications of RNAseq in aquaculture research	Dr. Arjan Palstra IMARES, Yerseke
14.30 - 16.00 h	Hands-on practice	Submitting RNAseq data to GEO/SRA database	Dr. Ron Dirks ZF-screens BV, Leiden
16.00 - 18.00 h	closure of the workshop drinks and snacks		

Registration: The deadline for registration is: 1 October 2015.

Please register via e-mail: workshop2015@zfscreens.com

The organizers:

- Ron Dirks (ZF-screens BV / Leiden University, Leiden, The Netherlands; dirks@zfscreens.com)
- Hans Jansen (ZF-screens BV, Leiden, The Netherlands; jansen@zfscreens.com)