

Digital PCR (ddPCR), 26-27 March 2019, Strasbourg, France

The aim of this training course is to provide attendees with the principles and applications of droplet digital PCR (ddPCR). The program will describe ddPCR best practices so that each participant will be able to plan, perform and use the technology whatever the scientific and / or biomedical applications of his project. The speakers will highlight the benefits, but also limitations of the technology, and will illustrate them through applications in functional genomics in rodents.

Objectives

- To prepare and design your experiments using ddPCR
- To understand the advantages and limitations of ddPCR
- To use ddPCR technology to detect CNVs (copy number variation)

Audience

Researchers and experienced technicians

Limited number of attendees: 6

Prerequisite

A good knowledge in molecular biology is required including the use of PCR methods.

Understand French (**The course is conducted in French**).

The participation is free while the registration is mandatory.

Program

Course

Introduction, principles and general applications of ddPCR, qPCR vs. ddPCR, applications in functional genomics in rodents, some issues and their corrections (illustrations), perspectives: "multiplexing method".

Practical session

Design of primers, quantification of samples, quantification of copy number of murine gene modified by CRISPR-Cas9 technology, analysis of ddPCR data and discussions.

Speakers:

Guillaume PAVLOVIC and Loic LINDNER (PHENOMIN-ICS, France)

Martial SAUMIER (Bio-Rad France) and Alessandro Martino (Bio-Rad Europe)

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