



20th Transgenic Technology Meeting

Leiden, The Netherlands
15 - 18 September 2026



Long Read Sequencing for Validation of Engineered Alleles

Pre-conference Workshop Agenda

Instructors: Skevoulla Christou-Smith, Fabien Delerue and Lydia Teboul

1. Introduction

- Why choose long read sequencing over Sanger?
- Overview of LRS platforms and their relevance to allele validation

2. Targeted Sequencing Approaches

- Comparison of sequencing modalities
- Choosing the right method for your allele and material

3. Experimental Workflows

- Sample preparation and library construction
- Platform-specific considerations (e.g., ONT, PacBio)

4. Sequencing Protocols

- Step-by-step breakdown of current methods
- Tips for optimizing data quality

5. Data Analysis & Interpretation

- Core principles of LRS data analysis
- Overview of available software tools
- Practical session: hands-on analysis of example datasets

6. Deep Dive into Alignment Files (.bam)

- Navigating and interpreting .bam files
- Case studies: in-house and outsourced sequencing
- Platform comparisons and practical tips

Please note that registrations for the pre-conference workshop are separate (additional fees apply)