# 04\_03 PeakScanner Capillar Electrophoresis

#### MITTWOCH, 22.9.2021

#### **Goal-Setting**

Analysing data from capillary electrophoresis

#### **Terms / abbreviations**

- CE = Capillar electrophoresis
- PS = PeakScanner (Analyzing program for CE data)
- SQ = Sample quality

#### **Risk areas**

None

# Required materials and / or information

• Data from CE, .zip file

#### Templates, devices, software

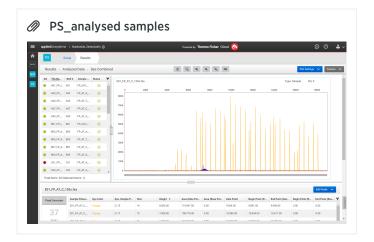
Access to the thermofisher cloud: Cloud Dashboard (thermofisher.com)

# **Preliminary work**

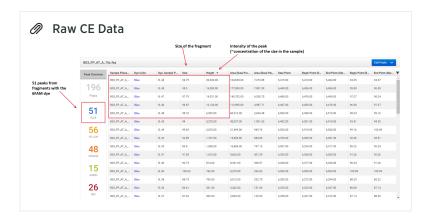
- Order primer with a fluorescent modification (e.g. 6FAM)
- Hand samples to IME
- Download the samples.zip file to the PC

#### **Operation**

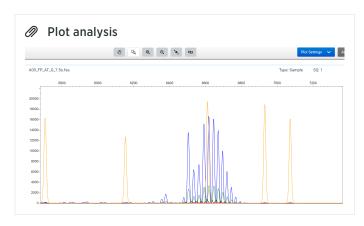
- Open the ThermoFisher Cloud in the browser
- Click in the dashboard to create a new project (top right)
- Import the .fsa files (data to analyze) to the project
- Click on the left to PS
  - o PS-program opens up and all unanalysed samples can be seen
- Select the 600LIZ Size marker
- Click on analyse
  - o Samples are getting analysed
- Click on results (top left)



- Tip: click in the left table on "file name" to order the sample alphabetically
- The SQ should be green to get good data
  - o If SQ is not green, the samples had a bad quality
- Click in the lower table on "Blue"
  - Now there are only the peaks from fragments with the 6FAM modification



- Usually the peaks are ordered by height
- Plot analysis
  - The button to the right of the small hand can be used to select a part from the plot to analyse the length spectrum in the plot



# **Troubleshooting**

• For more information, contact an employee from the IME

- If bad SQ:
  - o Order primer in HPLY purification
  - o Purify the samples with a cleanup kit
  - $\circ$  Try different sample concentrations (done at the IME)

# Follow-up work

• Statistical analysis and evaluation