



Co-funded by the European Union
Grant Agreement n° 874719

Thermo Fisher Scientific 1-Day NGS (Lot1)
(Lead: Thermo Fisher Scientific Life Technologies GmbH)

ThermoFisher
S C I E N T I F I C

Project abstract

With the 1-Day NGS project Thermo Fisher Scientific and its academic partners strive to further speed up the sample to result time in clinical NGS sequencing on the Genexus platform. The project will be centered around three core modules: 1) Improvement and expansion of automated nucleic acid extraction using the Genexus Purification system, with special focus on quality and quantity of DNA and RNA molecules extracted simultaneously from a single FFPE sample. 2) Enhancing the flexibility of the Thermo Fisher Genexus sequencing platform by providing a solution to mix-and-match concurrent analyses of different targeted NGS panels on Genexus. 3) Providing specific targeted Ampliseq panels for the tumor entities at focus in NGS4P including pharmacogenomics analyses and testing of a novel Y-adapter based fragment library preparation workflow. All these activities will strive to incorporate quality controls and checks according to the relevant ISO standards and final protocols and kits will be comprehensively validated to allow use in ISO15189 accredited laboratories and under IVDR.