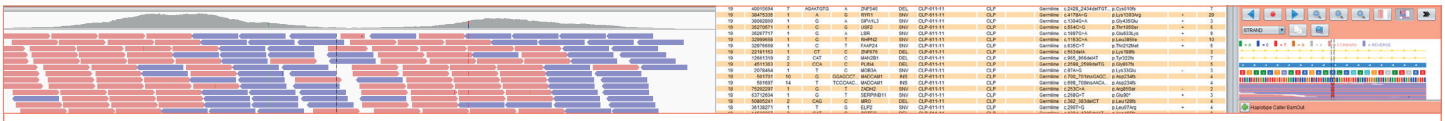




PGEN : Genomics platform

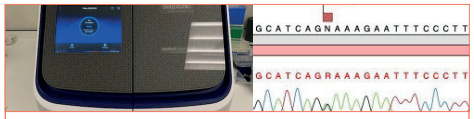
WHAT WE OFFER : services and expertise

- **Support and access to Next Generation Sequencing (NGS), variant calling and search for mutations**
- **Bioinformatics support and services for NGS**



Bioinformatics

- HPC Cluster access for data analysis and storage
- Full bioinformatics pipeline to analyze most NGS data (WES, WGS, targeted panels, shallow WGS, RNAseq)
- Pipelines include alignment, variant calling (including structural variants) and quality control
- Users can analyze produced data by themselves using our in-house developed software, Highlander: an integrated user-friendly system for NGS data variant annotation and analysis (Highlander: https://sites.uclouvain.be/highlander/)



Main equipment and support

- Illumina MiSeq sequencer for Targeted NGS
- Applied Biosystems SeqStudio for Sanger sequencing and sample/ cell-line authentication
- Affymetrix GCS3000 scanner (for e.g. molecular karyotyping with Cytoscan 750K Arrays)
- Agilent TapeStation for sample quality assessment (RIN, DIN) and quantification

Consulting services

- Advice for exome [WES], genome [WGS], targeted panels and transcriptome [RNAseq] sequencing (sample preparation, QC interpretation, outsourcing).
- Software (Highlander) and expertise in NGS data analysis: WES, WGS, Targeted panel

CONTACT

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Picture credits: PGEN & Hugues Depasse

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(1) SeqStudio sequencer – (2) Affymetrix scanner and Fluidics – (3) MiSeq – (4) Cluster – (5) Dr Raphaël Helaers (left) and Pr Miikka Vikkula (right)

UCLouvain
Genomics platform

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Soutenu par
Le Brabant wallon

Avec le soutien de la Wallonie