Geert Joris

Neuromics Support Facility
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Education
Professional BSc in Medical Laboratory Technology, Karel de Grote Hogeschool, 2007

Position
2007 Laboratory technologist NBD group
2011 Senior Technician GSF

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Keywords
High throughput sequencing - NGS – MASTR assays – Highly automated workflow - SNP Genotyping - Service Facility - LIMS system - Molecular Genetics - Library preparation - Illumina - Oxford Nanopore

Technology
After 5 years working as a technician in the Neurodegenerative Brain Diseases group of professor Christine van Broeckhoven I joined the Genomic Service Facility in the autumn of 2011. After being part of the Sanger platform for 2 years I was involved into the next generation sequencing experiments where I have built up my expertise during the last years.

Currently my primary focus lies on processing the Next Generation experiments on high throughput instruments such as the Illumina MiSEQ and NextSEQ500, being part of the Illumina platform and providing service for the different research groups in the VIB-DMG department. These include purifying plates with the AMPure system of Biomek and the MASTR assays developed by Multiplicom on the MISEQ platforms and WES (Whole Exome Sequencing) and RNA sequencing experiments on the NEXTSEQ500.
From 2018 on we are operating both minION and promethION 3rd generation sequencing platforms (ONT). The work on these platforms include sample extraction and QC, library preparations and QC'ing and loading the run on the instruments.

In processing these experiments I use a highly automated workflow, using an array of protocols on the Beckman Coulter Nx and FxP robotic platforms and QC of the provided samples on the Advanced Analytical Fragment Analyzer.

Expertise

- NGS Illumina (MiSEQ and NextSEQ500)
- NGS Oxford Nanopore (Minion and Promethion)
- Library preps
- MASTR assays
- WES (whole exome sequencing)
- RNA sequencing
- Robotic platform use (Beckman Coulter Fx(P), Nx)
- Sample preparations and measurements (Cosmid prep, gel purification, Qubit, Fragment Analyzer, Dropsense, Blue Pippin)
- Sanger Sequencing
- Genotyping (Loading service)
- LIMS system

Publications
http://www.ncbi.nlm.nih.gov/pubmed/?term=Geert+Joris