

Samuël Sluijs

Neuromics Support Facility
VIB-UAntwerp Center for Molecular Neurology
University of Antwerp, Belgium

Education

Professional BSc Biochemistry, P.H.I.S. Kronenburg Instituut, Antwerp

Position

Since 1997: Department of Molecular Genetics, Manic Affective Disorders & Personality,
Prof. Dr. C. Van Broeckhoven

Since 2005: Genomic Service Facility

Since 2011: Prevention Advisor Level III

Since 2013: First Aid Care

1997-2005: Technician

2005-2008: Senior Technician

2008-2012: Expert Technician

2012-2017: Staff Technician

2017-... : Operational Technologist

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Keywords:

Sanger Sequencing, Fragment Analysis, Next Gen Sequencing, Genomic Service Facility, Automatization, High Throughput, Cell Culture, Biobank, Safety, Wellbeing

Expertise:

- Genomic:
 - o Fragment Analysis for VIB-CMN and external companies
 - o Sanger Sequencing for VIB-CMN and external companies
 - o Customer care and quality control for external companies
 - o All tasks concerning Genomic Service Facility (monthly invoicing, ...)
 - o Lab automation: Biomek FX & NX (Big Dye Removal, CosMCprep, ...)
 - o Sequenom MassSpec
 - o Basic knowledge Fluidigm
 - o NGS on Roche 454 Ti, ABI 5500XL + Wildfire, Illumina Miseq and NextSeq500
 - o Measuring equipment: Qubit, BioAnalyzer, Labchip GX, Fragment Analyzer, Nanodrop, Dropsense
- Cell Culture:
 - o EBV transformations, maintaining B95-8 cell lines
 - o Cryopreservation
 - o Whole blood DNA extraction
 - o Mouse tail DNA extraction
 - o Isolating lymphocytes/plasma/serum
- Infrastructural:
 - o CO₂ installation building V and Vannex follow up
 - o O₂ monitoring system building V and Vannex follow up
 - o Xiltrix monitoring system administrator
 - o Liquid N₂ and -80°C freezers system knowledge and follow up
 - o Biowaste Treatment CMN + contactperson between UA - CMN

- Invoicing and budgetting Sanger Service
- Weekly meetings GSF
- Monthly meetings with Finance Officer
- Guided tours for visitors and Community Controls
- Member of the Safety and Wellbeing Group UA
- Member of the Safety and Wellbeing Group VIB
- Building V and Va representative
- Lab equipment representative
- Central stock follow up and ordering

Science:

I joined in 1997 the group of Molecular Genetics as a lab technician in the Manic Affective Disorder Research group. After 3 years, we started to centralize all high tech equipment to one single group of dedicated users. This was the base of the Core Facility which expanded very fast into a Service Facility, first for the Center, later on for almost every University in Belgium and some industrial companies abroad.

Our focus is mainly delivering high throughput Sanger sequencing and genotyping services for human and agricultural applications.

All processes in the Service Facility are highly automated by the use of robotic platforms and a Laboratory Information Management System.

Since the beginning of 2015, I'm responsible for the daily operations of the Genomic Service Facility. I manage the Sanger Sequencing Service for the Center and third parties.

As a building representative, I am in direct conjunction with the Technical Office of the UA and our Center concerning maintenance of general equipment, malfunctioning of any kind

As a Prevention Advisor III, I am in direct conjunction with the Prevention Office of the UA, VIB and our Center concerning safety regulations and well-being.

Followed Courses and Trainings:

Different kinds of trainings about Safety and Wellbeing:

- Lunch & Learn and `Milieu en Veiligheidsdagen` (University of Antwerp)

Training Sequenom (2005 – Hamburg, Germany)

Training NGS 454 Roche (2008 – Luik, Belgium)

Training NGS 5500XL ABI (2011 – Darmstadt, Germany)

Training Miseq Illumina (2012 – Wilrijk, Belgium)

Training Biomek Robotic Platform Programming (2013 – Nyon, Switzerland)

Training EHBO (2013 – Wilrijk, België)

Training EHBO by Chemische brandwonden (2014 – Wilrijk, België)

Training `Assertief Communiceren` (2015 – Wilrijk, België)

Presentations :

2000, 29 june : 14^{de} Moleculaire Genetica Meeting, Edegem

Power Point Presentatie : "*Denaturing High Performance Liquid Chromatography, DHPLC*"

2008, 20 october : 1ste Dutch Next-Generation Sequencing Users Meeting, Utrecht

Power Point Presentatie : "*454 Machine Operation: Not only theory*"

2016, 10 november: Laborama Academy: "*Automatization of the VIB Genomic Service Facility*"