

# Introduction to Next Generation Sequencing

Are you a biologist, a medical doctor or a bio-engineer interested in learning the basic sequencing techniques that will open the door to design your own sequencing experiment? The Genomics Core Leuven organizes its second workshop of the year on the basics of NGS.

Wednesday 9/10, 2019, KU Leuven, Campus Gasthuisberg.

Morning Session: GA1 in O&N1. Afternoon Session: auditorium ON4 in O&N4.

## Morning: Library Prep and Sequencing

8:30-9:00	Registration	
9:00-9:30	Introduction	<i>Wouter Bossuyt</i>
9:30-10:30	Overview of NGS sequencing methods and technologies	<i>Céline Helsmoortel</i>
10:30-11:00	Coffee break	
11:00-12:00	Library prep protocols: WGS, RNA-Seq, targeted sequencing	<i>Céline Helsmoortel</i>

## Afternoon: NGS Bioinformatics

13:00-13:15	Why NGS bioinformatics	<i>Álvaro Cortés Calabuig</i>
13:15-14:00	Understanding NGS raw data: Fastq format, quality checking	<i>Erika Souche</i>
14:00-15:00	Read mapping and variant calling	<i>Luc Dehaspe</i>
15:00-15:30	Break	
15:30-16:00	Visualization on IGV	<i>Erika Souche</i>
16:00-16:45	Other NGS applications: CNV, structural variation, RNA-Seq	<i>Erika Souche</i> <i>Álvaro Cortés Calabuig</i>
16:45-17:15	Ask the team: What you ever wanted to know about sequencing	<i>Genomics Core Leuven</i>