



LEIDEN UNIVERSITY MEDICAL CENTER

# Introduction to NGS data analysis

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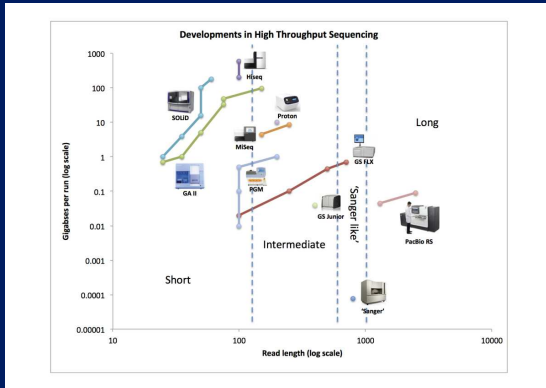
**Center for Human and Clinical Genetics**



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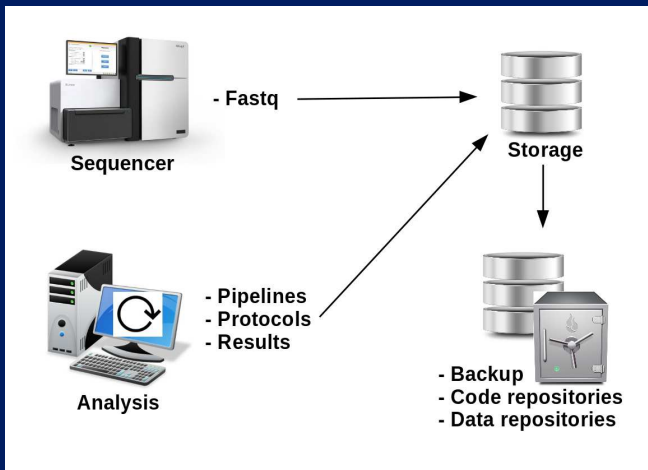
## *Introduction to NGS*

An introduction into NGS will be handled in the other lectures. However, ask us any questions you still may have.



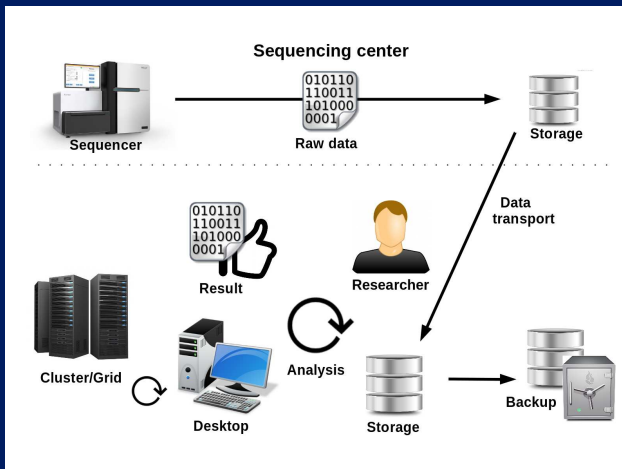
# Introduction to NGS data analysis

## *Introduction to data*



# Introduction to NGS data analysis

## *Introduction to analysis*



### *NGS activities in the LUMC*

LGTC, SASC, ServiceXS

- Data production and management
- Development and maintenance of analysis pipelines

Wide range of different approaches and applications towards multiple purposes:

- Fundamental research and clinical applications
- Various technologies: HiSeq, MiSeq, Pacbio, Proton, etc.
- Numerous techniques: DNA, RNA, capture, etc.
- Diverse input: Humans, other animals, bacteria, etc.

## *The focus of this course*

We will introduce you into the following areas:

- Operating systems (Linux)
- Installing and maintaining your software
- Starting NGS analysis
- Using (remote) computer resources
- Analysis pipelines

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