**Bachelor-after-bachelor bioinformatics**

Development of a pipeline for single-cell RNA-seq analysis

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## Abstract

*Through the constant innovations in the field of genomics, new technologies are made available in the industry. Single-cell RNA-sequencing is a recent technique that can provide a lot more insights into diseases such as cancer.*

*Single-cell gene expression studies promise to show rare cell types and cryptic states, but the high variability of single-cell RNA-sequencing measurements inhibits attempts to test transcriptional differences between cells.*

*The intention is to write a pipeline into which the other insights of single-cell RNA-sequencing are interpreted and reported with the relevant types of tools. This pipeline is written to be used on the High Performance Computer (HPC) of the Flemish Supercomputer Center (VSC).*



Afbeelding 1: Tools that can be used for analysis