

NGSchool

Department of molecular biology,
Faculty of Natural Sciences,
Comenius University in Bratislava

Dávid Smolák 2 biology





- Non invasive prenatal diagnostic (Trisomy test)
- Sequencing and analyses of metagenomic data
- Creating bioinformatical tools

Pipeline (not only) for metagenomics data

Data
(Raw data from
Institute of Virology)

Quality control
(fastqc, trimming)

Subtraction of host-
related reads (if host
genome is available)

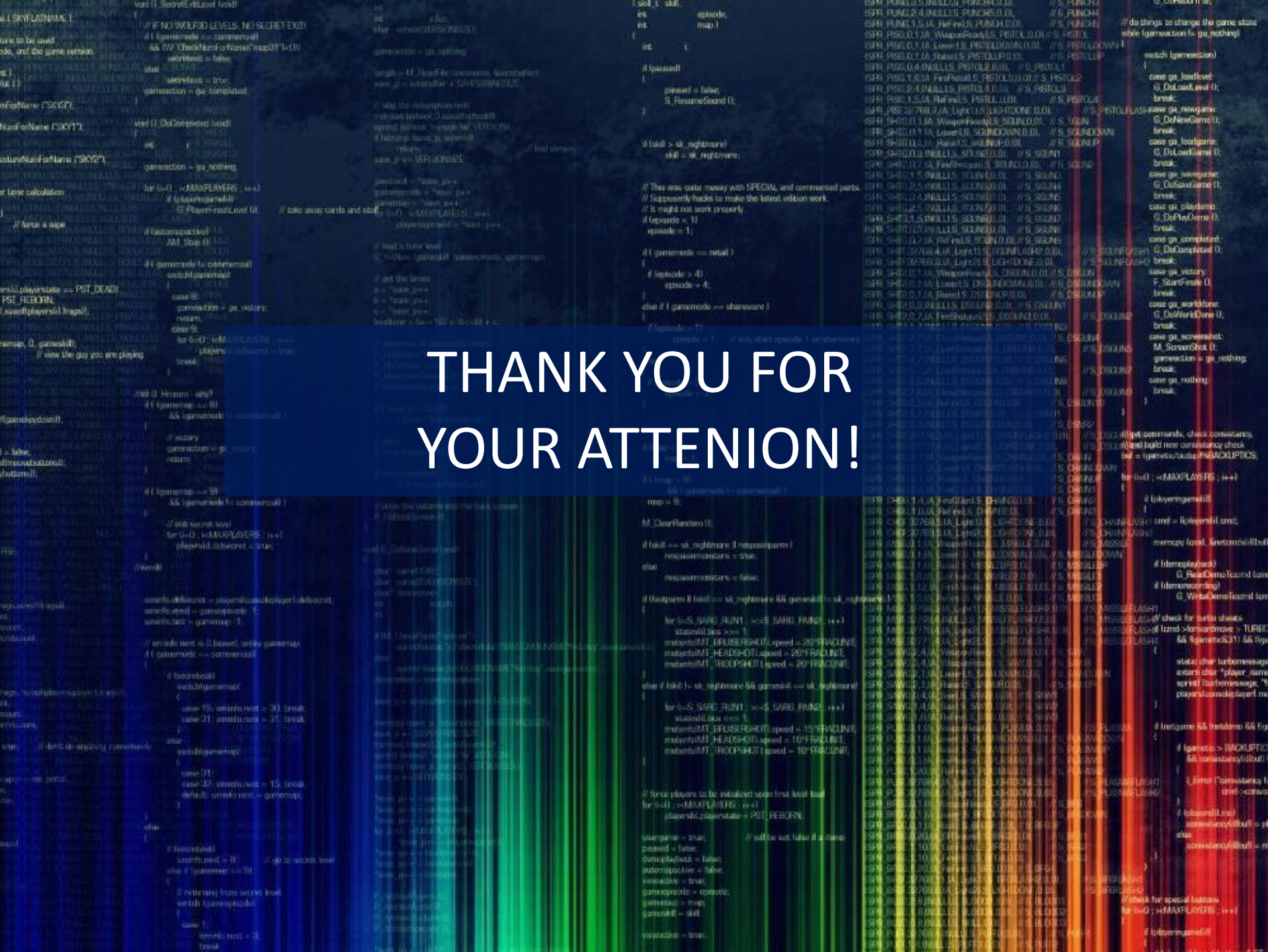
Amino acid
alignment

Nucleotide
alignment (ViPR)

Subtraction of Bacteria
(against bacteria
databases)

Resulting data: de novo assembly,
phylogenetic analysis





THANK YOU FOR
YOUR ATTENTION!