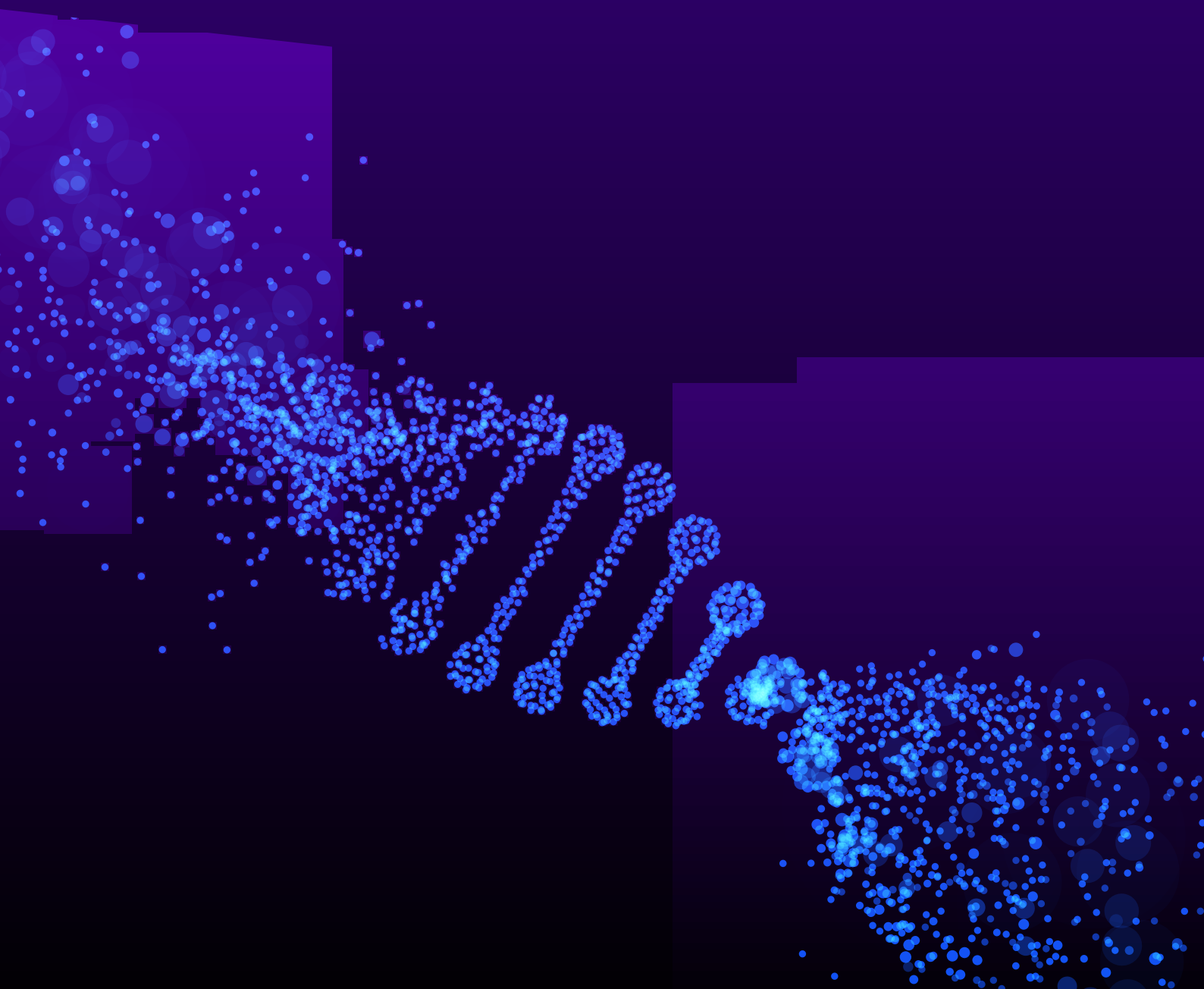


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CASE STUDY

Bioinformatics pipeline development



Objective

- Develop and implement robust pipelines tailored to each data-type for comprehensive analysis
- Additionally, provide essential bioinformatics support to enhance the capabilities of the Computational Oncology department in conducting cutting-edge research.

Challenges

- Data complexity: Managing diverse biological data formats and structures.
- Algorithm selection: Choosing suitable tools and algorithms for analysis tasks.
- Performance optimization: Ensuring efficiency in speed, resource usage, and scalability.
- Integration challenges: Integrating multiple tools and modules while maintaining compatibility.

Workflow (overall)

- Data complexity: Managing diverse biological data formats and structures.



Input

Data types

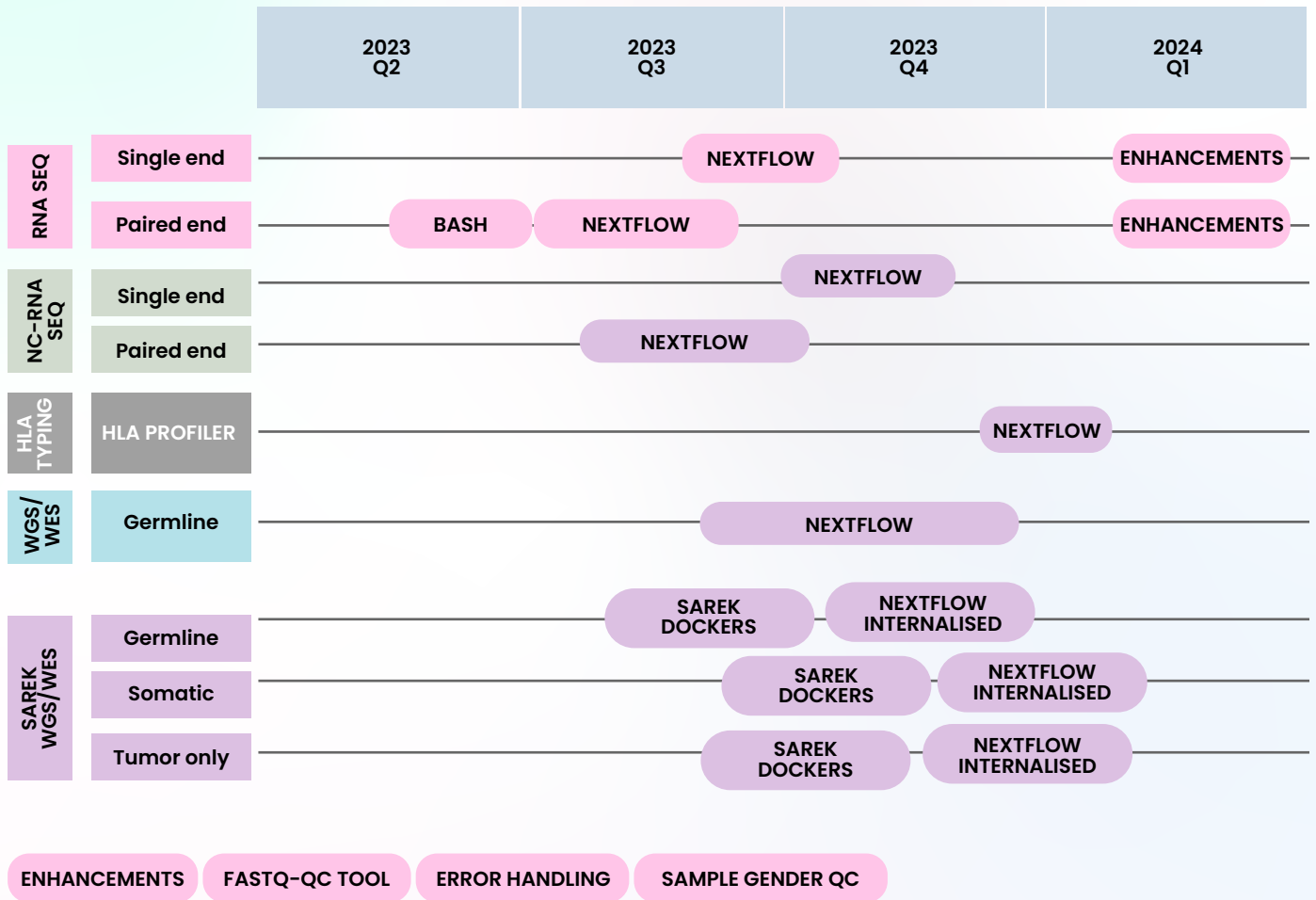
1. RNA-Seq
2. scRNA-Seq
3. WGS
4. WES

Deliverables

Production ready pipelines:

1. RNA-Seq pipeline (Single and paired-end)
2. scRNA-Seq pipeline (single end and paired end)
3. HLA typing pipeline
4. Germline WGS/WES pipeline
5. SAREK pipeline (Germline, somatic and Tumor)

Results





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