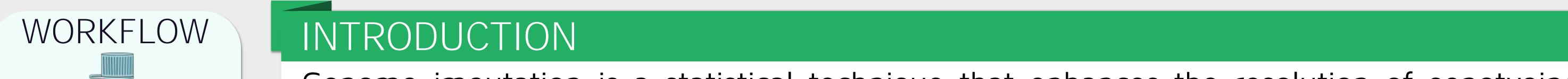


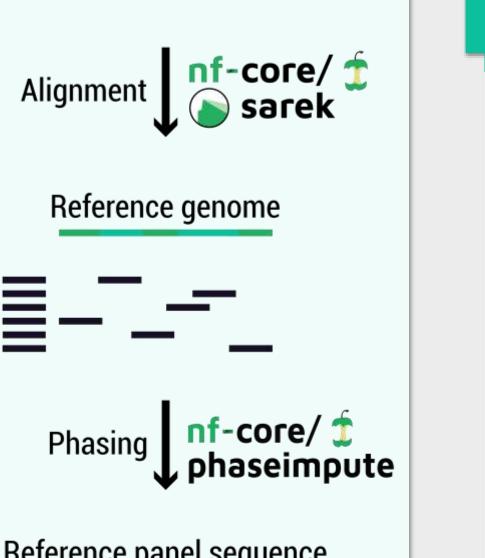
¹ Université de Rennes, CNRS, Institut de Génétique & Développement de Rennes, UMR 6290 CNRS - Rennes, France

² ZS Discovery, Argentina



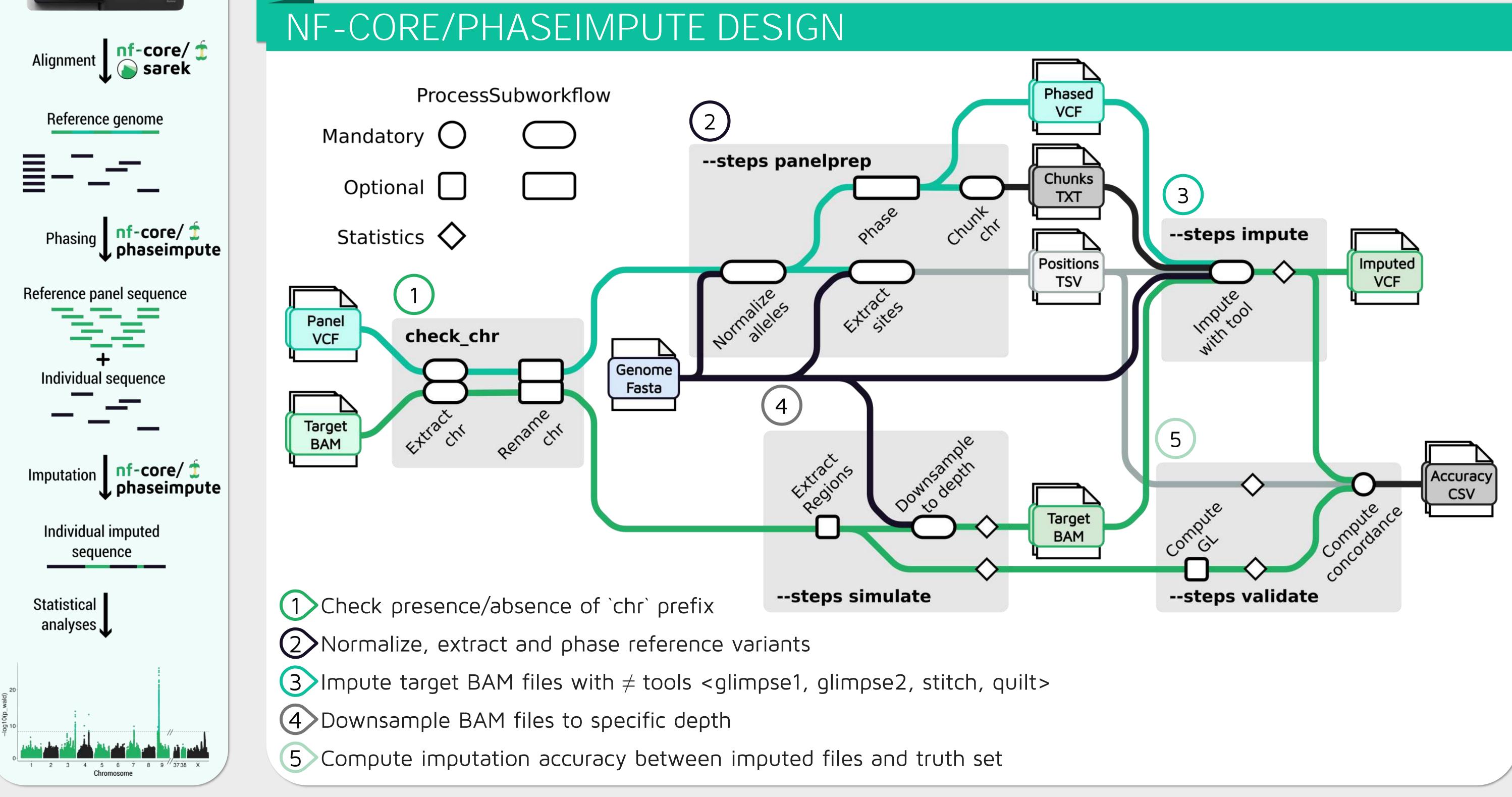
DNA Sequencing





Genome imputation is a statistical technique that enhances the resolution of genotyping arrays and low-pass sequencing (<1x) by filling missing data with information from reference panels. While existing pipelines primarily focus on the imputation step and in the human species, crucial steps such as panel preparation, phasing, and imputation assessment are often overlooked.

To address this gap, we introduce **nf-core/phaseimpute**, a comprehensive pipeline to perform panel preparation, genomic data simulation, imputation, and tool assessment.



DEVELOPMENT

Back and forth with **nf-core**/

FUTURE PERSPECTIVES

• Handling of SNP chip data

ACKNOWLEDGMENTS

nf-core community



nf-tests for every module, function and subworkflow

CI/CD with GitHub actions for **different use cases**





- Allow **batch** imputation
- Imputation of **chrX**

#phaseimpute

- Add new imputation tools
- Cost and environment impact

JOIN THE DISCUSSION!

with nf-CO2footprint

• With the financial support of the ACGAO and the Visio fundation





Université de Rennes

