

Research Notebook (2022)

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Compiled on: February 20, 2023

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Summary of packages and methods for bioinformatics

Genome evolution + genome architecture

PerSVade :“PerSVade: personalized structural variant detection in any species of interest.”

- PerSVade - package for detecting structural variants using short read data
- Git: <https://github.com/Gabalardonlab/perSVade>

Genetic Structure and population dynamics

STRUCTURE“Inference of population structure using multilocus genotype data.”

- Utilizes an iterative Bayesian algorithm to examine distribution of genetic variants between "populations" and assigns samples to groups based on patterns of variation.
- Derivatives : fastSTRUCTURE etc

AMOVA“Analysis of molecular variance inferred from metric distances among DNA haplotypes: application to human mitochondrial DNA restriction data.”

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ECODIST“The ecodist Package for Dissimilarity-based Analysis of Ecological Data”

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BA3-SNPsv“BA3-SNPs: Contemporary migration reconfigured in BayesAss for next-generation sequence data”

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Evidente-a“Evidente-a visual analytics tool for data enrichment in SNP-based phylogenetic trees.”

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