



# BIRD

Bioinformatics, Research & Data  
Bioinformatique, Recherche &  
Données

Practical bioinformatics, data analysis, research data organization, training, and reproducible workflow support for laboratories, research teams, and life sciences projects.



## Contact BIRD

Website: [bird-bioinfo.github.io](https://bird-bioinfo.github.io)

Email: [bird.bioinfo@gmail.com](mailto:bird.bioinfo@gmail.com)

Montreal, Quebec

Services in English and French

# Bioinformatics support for your research

From study design to reproducible analysis.

Bioinformatics consultation, workflow development, training, troubleshooting, documentation, and scientific mentorship.

## Free 30-minute initial consultation available for new projects.

Use this meeting to discuss your project goals, data type, timeline, current challenges, and possible next steps. Detailed study design, data analysis, troubleshooting, code review, and technical support are available as separate services.

## How BIRD can support your team

Practical support for research teams working with life sciences, biological, omics, sequencing, and research data.

01

### Study Design & Bioinformatics Consultation

Planning support for sample structure, metadata, replicates, comparisons, and analysis strategy.

02

### Omics & Sequencing Data Analysis

End-to-end support for omics and sequencing projects, from QC to clear figures, tables, and reports.

03

### Pipelines, Data Organization & Troubleshooting

Python, R, and Bash workflows, HPC/Slurm support, automation, and reproducible project structure.

04

### Training for Scientists & Research Teams

Practical training adapted to the learner's background, data, and project needs.

05

### Mentorship & Scientific Guidance

Project planning, code review, interpretation, workflow documentation, and knowledge transfer.

06

### Research Data Management

Metadata, documentation, access-controlled files, and project organization for reproducible handover.

## Flexible formats:

- free initial consultation
- fixed-price packages
- one-on-one training
- hourly support
- customized workshops
- monthly lab support

**Professional note:** Services are provided independently through BIRD and can be tailored to each laboratory's needs, budget, and timeline. Institutional logos, confidential information, and unpublished project details are not used without prior authorization.

# BIRD Services

Services can be adapted to each project's scope, data volume, timeline, and required deliverables.

## Core Service Areas

<b>Study design consultation</b>	Bioinformatics guidance at the planning stage, including sample and metadata structure, replicate strategy, comparison design, and analysis strategy.
<b>Omics and sequencing analysis</b>	Quality control, exploratory analysis, WGS, WES, RNA-seq, scRNA-seq, ChIP-seq, amplicon-seq, small RNA-seq, methyl-seq, ATAC-seq, PhIP-seq, metagenomics, metabarcoding, and resistome analysis, with interpretation and preparation of clear figures, tables, and reports.
<b>Pipelines, data organization and troubleshooting</b>	Development, optimization, and troubleshooting of Python, R, and Bash workflows, with support for HPC and job-scheduler environments, including Slurm/Torque, automation, and reproducible project structure.
<b>Training</b>	Practical training in Python, R, Bash, bioinformatics and data-analysis fundamentals, sequencing basics, biological databases, file formats, research data organization, HPC, and Alliance cluster basics, adapted to the learner's background and project needs.
<b>Mentorship and scientific guidance</b>	Scientific and technical guidance for students, trainees, and research teams, including project planning, code review, data interpretation, workflow documentation, and knowledge transfer.
<b>Research data management</b>	Support for organizing research data, metadata, documentation, access-controlled files, and project structure to improve clarity, reproducibility, and workflow handover.

## Specialized Expertise Includes

PhIP-seq

RNA-seq

scRNA-seq

WGS/WES

GWAS/CNV

Metagenomics

10X Genomics

HPC/Slurm

Biological databases

Workflow documentation

## Service Formats

<b>Free initial consultation</b>	30-minute orientation meeting to discuss project goals, data type, timeline, current challenges, and possible next steps.
<b>Hourly support</b>	Focused support for troubleshooting, technical questions, code review, short-term project needs, and practical bioinformatics guidance.
<b>Fixed-price packages</b>	Structured support for defined analysis projects, workflow audits, study design consultations, documentation, or training sessions.
<b>Customized workshops</b>	Practical workshops tailored to a team, course, research group, or specific dataset.
<b>One-on-one training</b>	Personalized training adapted to the learner's project, background, and skill level.
<b>Monthly lab support</b>	Ongoing collaboration for teams that need regular bioinformatics guidance, troubleshooting, training, and workflow continuity across their research projects.

**Contact us for a free 30-minute initial consultation.**

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Prices depend on project complexity, data volume, timeline, and required deliverables. Services can be offered as hourly support, fixed-price packages, customized workshops, one-on-one training, or monthly support plans. Contact BIRD for a customized estimate.