

# Protocol Library

## Welcome

This site hosts the standardised protocol library for the lab, including buffers, mouse and human workflows, flow panels, and general methods. All documents follow a common Quarto template and are versioned.

Use the navigation bar on the left to browse by category or search for a protocol by name.

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## How to use this library

- **Browse by category** using the sidebar:
    - *Buffers* – all stock and working solutions.
    - *Mouse* – mouse tissue processing and functional assays.
    - *Human* – human PBMC and cell line protocols.
    - *General* – cross-cutting methods (e.g. flow staining, nucleofection).
  - **Download as PDF**  
Each protocol page includes a PDF version suitable for printing or attaching to experiment documentation.
  - **Search**  
Use the search box in the sidebar to find protocols by keyword (e.g. “liver digestion”, “PBMC”, “ACK lysis”).
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## Naming and versioning conventions

Protocols and buffers follow a consistent naming scheme:

- **Buffers:** buf\_<target>\_vX.Y, e.g. buf\_liver\_digestion\_v1.0
- **Mouse protocols:** prot\_mus\_<tissue\_or\_process>\_vX.Y
- **Human protocols:** prot\_hum\_<tissue\_or\_process>\_vX.Y
- **General protocols:** prot\_gen\_<process>\_vX.Y

Version numbers are incremented when the procedure changes in a way that could affect results (reagent changes, timings, etc.).

The **title** and **version** in each protocol's YAML header define what appears on the website and in the PDF.

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## Document structure

Most protocols follow a common structure:

1. **Purpose and scope** – what the protocol is for and when to use it.
2. **Reagents and materials** – linked to buffer entries where applicable.
3. **Equipment** – key instruments and settings.
4. **Procedure** – stepwise instructions.
5. **Notes and troubleshooting** – optional recommendations, pitfalls, or variants.

Buffers have a simplified structure focusing on:

- Composition (final concentrations)
  - Preparation steps
  - Storage and stability
  - Safety considerations
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