Quick Start — Experimenter (v3.0)

BlindKit v3.0 — Quick Start (Experimenter, **blinded**)

*You operate **only** inside the EXPERIMENTER root. Do not touch the blinder repo.*

Setup

```
python -m venv venv && source venv/bin/activate
pip install pillow qrcode
```

Your repo (layout)

• `study_X_experimenter/`
• `media/photos///...` — optional photos taken before injection
• `receipts/*.json` — append-only injection receipts
• `configs/anatomy_blinded_manifest.json` — blinded anatomy manifest
• `provenance/*.json` — edit lineage (optional)
• `audit/actions.jsonl` + `audit/actions.log` — your audit trail

Day■to■day injections

Receive a syringe/aliquot with a blinded label (and QR). Photograph it, then log a receipt.

Behavior (4 sessions per animal)

```
python blindkit_v3_0.py inject-scan \
   --experimenter-root ./study_X_experimenter \
   --animal-id RAT001 \
   --stage BEHAVIOR \
   --session 1 \
   --photo /path/to/RAT001_beh_s1.jpg
```

Physiology (single terminal)

```
python blindkit_v3_0.py inject-scan \
   --experimenter-root ./study_X_experimenter \
   --animal-id RAT001 \
   --stage PHYSIOLOGY \
   --photo /path/to/RAT001_phys.jpg
```

Viral aliquot (single per animal)

```
python blindkit_v3_0.py inject-scan \
   --experimenter-root ./study_X_experimenter \
   --animal-id RAT001 \
   --stage VIRAL \
   --photo /path/to/RAT001_viral.jpg
```

Anatomy (blinded analysis)

Verify the blinded set before analysis.
```
python blindkit_v3_0.py verify-anatomy-blinded \
   --experimenter-root ./study_X_experimenter
```

Record legitimate edits (optional provenance)

```
python blindkit_v3_0.py record-derivative \
   --experimenter-root ./study_X_experimenter \
   --parent /path/to/anatomy_blinded/ANA-XXXXXX/IDX_003-007.tif \
   --child  /path/to/anatomy_working/ANA-XXXXXX/IDX_003-007_adj.tif \
   --note "contrast +12%"
```

Post■hoc verification (after unblinding package is handed over)

```
python blindkit_v3_0.py verify-posthoc \
   --bundle ./study_X_unblinding_bundle.zip \
   --experimenter-root ./study_X_experimenter
```

Audit log queries

```
# Last 20 actions you performed
python blindkit_v3_0.py audit-show --root ./study_X_experimenter --tail 20

# Only injection receipts for RAT001
python blindkit_v3_0.py audit-show --root ./study_X_experimenter --action inject-scan --animal RAT001

# Entries mentioning PHYSIOLOGY
python blindkit_v3_0.py audit-show --root ./study_X_experimenter --grep PHYSIOLOGY
```

Tips

• Keep your repository under version control (separate from the blinder repo).
• Never create or modify files under `labels/` — those live in the blinder repo only.
• If a verify step fails, stop and contact the blinder for reconciliation.