

A day in the life of a scientist. with and without version control



Manage engineered biology with complete traceability and reproducibility using CellRepo

ACT 1
09:02 AM

"Can you repeat this experiment?"

You ask for the details.

WITHOUT VERSION CONTROL

The hunt begins.

- Which promoter variant was this?
- Why is this antibiotic used?
- Which sequencing file is right?
- Who constructed this again?
- Email the former PhD student...

I'm sure I wrote it down somewhere.

WITH VERSION CONTROL (CELLREPO)

Find it in minutes.

Everything is connected and easy to find.

- ✓ Strain lineage
- ✓ Linked plasmid
- ✓ Sequencing data
- ✓ Exact conditions
- ✓ Notes and decisions

Three minutes. Done.

CellRepo

Strain Repository

Lineage

- v2.1 Validated expression strain Apr 20, 2024 - Alex
- v2.0 Promoter library screen Apr 3, 2024 - Alex
- v1.1 Constructed + sequence verified Mar 18, 2024 - Priya
- v1.0 Initial construct Feb 12, 2024 - Jamie

COFFEE + DATA

ACT 2
11:17 AM

A new student joins the lab.

How do you bring them up to speed?

WITHOUT VERSION CONTROL

Tribal knowledge transfer.

Files on a USB stick.
Half the context is in people's heads.

Sarah knew how this worked.

Ask Sarah

GOOD LUCK!

WITH VERSION CONTROL (CELLREPO)

Onboard in hours, not weeks.

Everything they need is already in the repository.

- ✓ Protocols
- ✓ Data
- ✓ Lineage
- ✓ Decisions
- ✓ Templates

I can actually be productive on day one.

CellRepo

Project: Expression Optimisation

Repositories

- Strain Repository ✓
- Plasmid Repository ✓
- Growth Curves ✓
- RNA-seq Analysis ✓
- Induction Optimization ✓

ACT 3
02:42 PM

The experiment works!

Time to record what you did.

WITHOUT VERSION CONTROL

Capture the result? Or just the panic?

Which version was this?
What changed?
Where's the data?
Hope you remember.

Was this Strain 7 or Strain 9?!

WITH VERSION CONTROL (CELLREPO)

Capture the moment.

Create a commit that records the result and the context.

- ✓ Protocol update
- ✓ Plate image
- ✓ Growth curve
- ✓ Sequencing files
- ✓ Your decisions
- ✓ Reproducible record

Milestone captured.

CellRepo

Commit: Improved expression after induction optimisation

Files

- to Plate image
- Growth curve.png
- Seq_data.fasta

Notes

- Increased inducer to 0.2%
- Switched antibiotic to Kanamycin

ACT 4
04:03 PM

Sharing with collaborators.

How do you send what they need?

WITHOUT VERSION CONTROL

Email ping pong.

"Could you send me everything?"

"What exactly do you need?"

"Actually, can you check this too..."

From: Alex To: Jamie Subject: experimental details?

From: Jamie To: Alex Subject: Re: experimental details?

From: Alex To: Jamie Subject: Re: Re: experimental details?

WITH VERSION CONTROL (CELLREPO)

Share with confidence.

Share the repository. Not just the files.

- ✓ Access controlled
- ✓ Complete history
- ✓ Always up to date
- ✓ Proper attribution
- ✓ No information lost

Here's the link to the repository.

Shared with:

- Jamie (Read)
- Priya (Write)
- Ben (Read)

Get started in CellRepo...

- Access [CellRepo](#) and read the [documentation](#)
- [Book a demonstration](#) with our team
- Email us at support@cellrepo.com

