Oded — Enable Medicine (petabyte-scale spatial biology platform)

Yue — EM / Pathos / Tempus AI (foundation models, 1000 H200s)

Backed by Y Combinator

Our Vision

We build the **missing data layer** for the next generation of medicine — transforming sparse experimental data into complete predictions through computational biology.

What we can do for Modularity Bio

In Silico Screening

- **Receptor–ligand prediction** — screen 300+ receptors computationally before mouse studies
- **Signaling pathway modeling** — predict JAK2 outputs from receptor configurations
- **Expression optimization** — model protein ratios for multi-gene constructs

Infrastructure & Optimization

- **Inference optimization** — we took CZI's VariantFormer from ~$93 to $1.50/sample
  63x faster · zero accuracy loss
- **GPU infrastructure** — deep expertise running large-scale molecular ML workloads
  H200s · B200s

The Problem We Solve

Without Strand

- Test 300 receptors → 300 mouse experiments
- Months of iteration
- High cost per candidate

With Strand

- Train on your existing paired data
- Screen computationally, validate top hits in vivo
- 10–100x fewer animal experiments

How It Works

1. **You share paired data** — receptor sequences + measured signaling outputs
2. **We build a predictive model** — trained on your proprietary data
3. **Screen in silico** — rank your 300 receptors by predicted efficacy
4. **Validate top candidates** — only run mouse studies on the best hits

Your data stays yours. Models can run in your infrastructure.