



Cornucopia Bio

AI-Native Automation Core

Cornucopia transforms natural-language protocols into executable robot code.



The Problem

Biologists and chemists run structured workflows – ELISA, qPCR, sample prep, multiomics, amide formation, yet almost none of these SOPs can be easily executed directly on a robot.

1. Every vendor speaks a different programming language
2. SOPs exist in natural language, not machine language
3. Robotics experts are rare and expensive
4. Most labs want automation but can't adopt it
5. As a result, **95% of scientists still pipette manually.**



The Opportunity

Across biotech and chemistry, workflows boil down to repeatable building blocks:

- Biologists repeat the same ELISA / qPCR patterns
- Chemists rely on 20-50 canonical reaction types across an entire career

If scientists can simply describe the protocol and run it on any robot, **automation becomes universal.**



The Vision

A world where scientists describe experiments in plain language and execute them on any robot, anywhere.

What We Do

- NLP → validated, production-ready robot code
- Vendor-agnostic automation core
- Domain-aware code gen for biology and chemistry
- Error handling, tip tracking, volume validation



What we're looking for



- Early biotech & chemistry partners
- Access to new robotics platforms
- SOP contributors (assays + reactions)
- Strategic partnerships

Current Support

- ELISA on Opentrons Flex
- qPCR on Opentrons Flex
- Multi-omic prep modules



Expanding Now



- Tecan Fluent/EVO
- Hamilton STAR/Vantage
- We can integrate any new machine provided hardware access

Why It Matters

Biotech

- 10-100x faster protocol development
- Reproducible assays
- Lower variability

Chemistry

- Automated reaction setup
- Standardized templates
- Faster iteration in med chem

Vendors

- Automated reaction setup
- Standardized templates
- Faster iteration in med chem