



# Cornucopia Bio – AI-Native Automation Core

Natural Language, Experiment-Ready Code, Robot Execution

## 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

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.

## Cornucopia: The Automation Core

Cornucopia transforms natural-language protocols into executable robot code.

### 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

### Current Support

ELISA on Opentrons Flex  
qPCR on Opentrons Flex  
Multiomics prep modules

### What We're Looking For

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

### Expanding Now

Tecan (Fluent/EVO)  
Hamilton (STAR/Vantage)  
We can integrate any new machine with 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

- Modern AI-native interface layer
- Differentiation in a crowded market
- Increased customer adoption

## Vision

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