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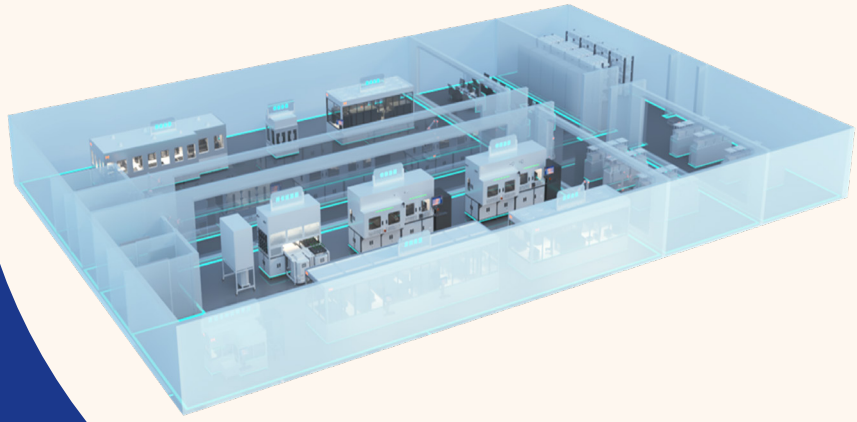

The Galaxy Custom Lab

Automation Built Around Your Science

PORTFOLIO INTRODUCTION

No two labs work the same way. Your science, your instruments, your data systems, and your goals. Rigid, one-size-fits-all automation asks you to change your workflow to fit a specific platform.

With the Galaxy Custom Lab, we tailor the solution to your workflow, not the other way around.

Galatek designs and builds customized systems in-house and with our partner network, building a range of solutions – from a single work cell to a multi-room facility. The result is automation that:

- **Aligns** precisely with your scientific and operational workflows
- **Integrates** seamlessly into your existing lab infrastructure
- **Evolves** as research, scale, and regulatory needs change

Start Where You Are

We know you have legacy instruments, and we don't expect you to start from scratch. Every Galaxy Custom Lab begins with a deep look at your workflow, your instruments, and your goals, and then takes one of three paths:

- **Build on what you have.** Connect and orchestrate the instruments already in your lab
- **Build with Galatek.** Design a fully customized system using Galatek-sourced instruments
- **Combine both.** Integrate your legacy instruments with Galatek systems, adding only what your workflow needs

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BUILDING YOUR GALAXY CUSTOM LAB

Scalable automation

Separate stations, each built around a specific part of your workflow come together as one connected lab, with Automated Guided Vehicles (AGVs) moving samples between modules. Start with the workflow that matters most, then reconfigure and expand as your needs grow.

Connected automation rooms

For high-throughput, end-to-end workflows, automation rooms are custom-engineered and integrated, with samples, reagents, and consumables managed as one continuous process. Our automated antibody discovery platform (see page 3) shows what this looks like at scale.

Custom Labs, Built Around Your Requirements

The Galaxy Custom Lab is designed to support a range of life sciences applications. We work with you to understand your requirements and determine what's feasible for your lab. Example applications include:

- Pharma QC
- 2D cell culture
- 3D cell and organoid culture
- Synthetic biology
- Multi-omics
- High-throughput drug discovery

ONE WORKFLOW. ONE ORCHESTRATION LAYER.

Veda Connects Everything

Veda, Galatek's orchestration software, unites your instruments and unit operations into a single managed workflow, with real-time scheduling, instrument control, and end-to-end process visibility. Process parameters, equipment status, and sample identifiers are captured automatically at every stage. When something shifts, the system flags it early. Every step leaves a traceable data record.

Open By Design

Galatek systems have native connectivity across approximately 250 third-party devices, and that list continues to grow.

Cell imaging instruments
HPLC, GC-MS & LC-MS
Colony picking systems
Centrifuges
Incubators
Flow cytometers
Cell counters
Fragment analyzers
Liquid dispensers
Liquid handlers
Film sealers & peelers
Microplate readers
Microplate washers
Nucleic acid extractors
Thermal cyclers & qPCR systems

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Researcher-Led, AI-Supported

AI-enabled software can be incorporated at the level that fits your lab, from assistive tools that respond to your prompts, to workflows that carry out defined steps within the guardrails you set. Researchers remain in control of experimental decisions.

The dry & wet lab loop links computational design and automated experimentation in one connected workflow. **Design** informs **build**, build and **test** generate data, and researchers use those results to **learn** and refine what comes next.

Design AI and computational modeling drive virtual screening, sequence analysis, and antibody candidate optimization *in silico*		**Build** Integrated ELN/LIMS and workflow orchestration translate digital designs into expressed antibody candidates
Learn Experimental data feeds back into ML models to refine candidates and inform toxicology and clinical translation		**Test** 24/7 automated assays screen antibody binding, specificity, and functional activity at scale

PROOF IN PRACTICE



Automated Antibody Discovery and Production

A leading antibody discovery CRO was constrained by manual pipetting, technician capacity, batch variability, and legacy automation that couldn't flex. Galatek designed a fully integrated, scalable platform with custom-engineered unit operations for each step, from plasmid production through mammalian expression and purification. AGVs move samples between them, and orchestration software runs the whole workflow as one.

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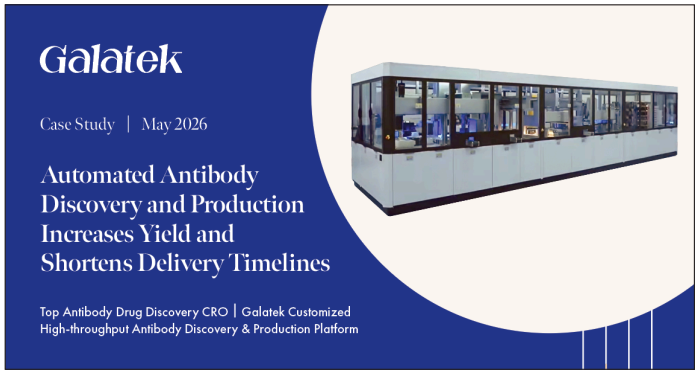
Real Outcomes

Metric	Result	Impact
Delivery Time	2 weeks –> 1 week	Halved customer turnaround timeline
Batch Capacity	2,000 expressions/batch	Single-batch antibody protein expressions
Productivity	2× increase	Reduced costs, expanded profit margins
Data Scale	100× capacity	Consistent, structured, high-quality data assets
Automation Coverage	90% of workflow	30+ proprietary systems across 5 expression formats

With the workflow automated, the CRO can expand into adjacent biologics programs without rebuilding its infrastructure, and its scientists can focus on biology instead of process variability.

Read the full case study, **Automated Antibody Discovery and Production Increases Yield and Shortens Delivery Timelines**:



SCAN HERE

Your Lab. Your Next Step.

Tell us where you are today, and where you want to go. We'll build the lab around it.

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