revvity

Nucleic acid extraction automation

Leveraging the chemagic™ 360 instrument and explorer™ G3 workstation to scale throughput and minimize manual intervention.

Why automate?

- **Increase throughput:** integrate multiple chemagic™ 360 instruments
- **Increase hands-off time:** scalable walk-away capacity
- **Reduce errors:** by decreasing human touchpoints
- **Increase reproducibility:** with equal sample treatment through automating critical steps
- **Add additional functions:** concentration measurements, normalization, NGS library preparation, (q)PCR, transfection

Why automate with Revvity?

- **Application expertise:** with our broad product portfolio we support your application from sample extraction to endpoint analysis
- **One point-of-contact:** we offer complete solutions including 3rd party devices and serve as your first contact for all requests
- **Dedicated team:** built over 25 years to support labs across the world

Where to start?

Identify your goals:

- increase throughput
- decrease hands-on time
- add additional functionalities

Identify workflows that will benefit most from automation:

- Which workflow creates the biggest bottleneck?
- Which workflow puts the largest strain on staff?
- Where do you have the highest risk for human error?
- Where do you need to reduce contamination risks?

Identify your requirements:

- **Functionality:** pre- and post-extraction sample processing requirements
- **Samples:** type, volume, number, container
- **Throughput:** requirements for throughput and hands-off time
- **Containment and contamination:** sample and/or operator protection
- **Data:** LIMS/ELN integration and data analysis
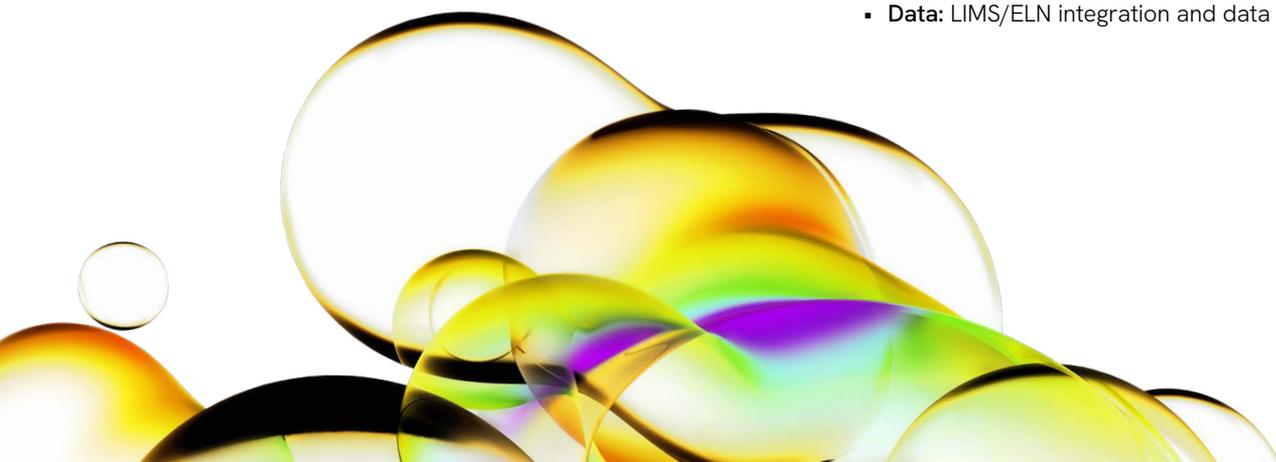
Application examples

Extraction from DBS, NGS library prep and biobanking

- **DNA extraction:** extract DNA from dried blood spots
- **Normalization and quality:** measure DNA concentration and fragment size, normalize samples
- **NGS:** automate NGS library preparation on liquid handler
- **Biobanking:** store DNA in sealed plates or tubes

Liquid biopsy

- **Tube handling:** sort, decap and scan sample tubes
- **Sample preparation:** tube-to-plate transfer and reagent addition
- **cfDNA extraction:** extract from 0.5 - 8 ml of plasma, urine or cerebral spinal fluid (CFS)
- **Sample analysis:** automate concentration measurement, fragment analysis, dPCR/qPCR, and NGS library preparation

Pathogen detection

- **Sample preparation:** tube-to-plate transfer and reagent addition
- **Nucleic acid extraction:** extract from a variety of microorganisms and sample materials
- **Sample analysis:** automate concentration measurement, fragment analysis, dPCR/qPCR, and NGS library preparation

Demos available!

We also support remote demos. Contact us to schedule an appointment!

Nucleic acid purification

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Integrated lab automation

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