Mnova Gears

The Mnova automation engine

Mestrelab Research

chemistry software solutions

Are you spending precious time conducting routine tasks?

Has the volume of analytical data become a bottleneck?

Do you struggle to integrate and hence leverage scientific data arising from different instruments in several global sites?

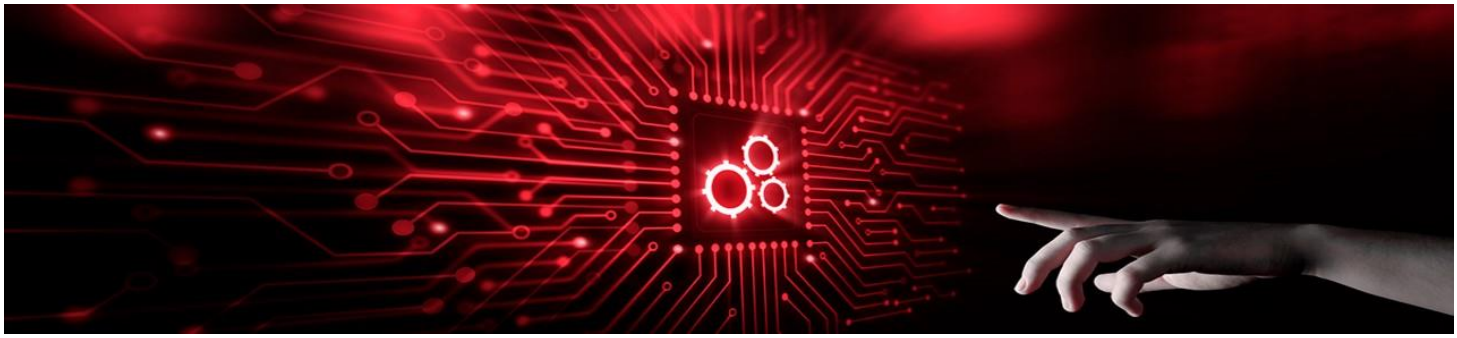
Do you need to generate homogeneous and consistent reports of your analysis and database your raw and processed results?

Have you considered automating part of your lab's data flow, but lack the tools & know-how?

Got it!

Automate your data analysis workflows, from processing to reporting and databasing, with Mnova Gears!

Mnova Gears is a software suite that allows you to build automation workflows for your analytical data, including NMR, chromatography, MS, etc. Using Mnova's features and the advanced plugins we call "bricks", you can **replicate Standard Operating Procedures or run those boring, repetitive tasks we humans hate so much!**



A new generation of automated solutions

Mnova Gears makes automation simpler and faster while giving you full control over the design and testing of your workflows

- ✓ Multi-technique and multi-vendor analytical data workflows (including NMR, MS, etc.)
- ✓ Automated data pick-up and ingestion by batches (from disks of DBs) or in continuous mode (Real Time)
- ✓ Hugely customizable tool - build your own bricks with scripting
- ✓ Robust implementation and replication of SOPs at different locations (reusable and transferable methods)
- ✓ At-a-glance results review, and review by exception
- ✓ Effortless update of reports with no need for manual transcription
- ✓ Real-time databasing of experimental results
- ✓ Multiple outputs, from thorough CSV, PDF, HTML, and Mnova reports to simple Pass/Fail answers
- ✓ Fully automated machine-to-machine workflows
- ✓ Multiple applications for single-sample or batch workflows
- ✓ Fast product support and development, with all your automation analyses in a single software suite

Five-steps setup

Free up your valuable time by letting Mnova do the routine work in the background

Mnova Gears UI has been split into five well-defined sections mimicking the five-step setup used to automate entire workflows.

Open your data with a single click
- Collect data from different instrument folders on disks or DBs
- Import your data as it is acquired in Real time mode

Customize processing, let Mgears do the boring tasks
- Create your own processing templates, use our 'Advised processing', or contact us to help you implement ad hoc processing
- Automate Baseline correction, Apodization, Zero filling, Phase Correction, Referencing, etc

Create your analysis method and save it for re-use
- Pick & choose analysis bricks according to your needs and implement methods following your SOPs
- Custom create your own bricks with simple scripts

Customize results report to fit corporate standards
- Use Mnova layout templates to produce a final report that looks the way you want
- Add spectra, tables, summaries, etc. to your reports

Configure the analysis output and forget about manual archiving
- Export results as PDFs and Mnova documents
- Create automatic workflows to archive input data and results on your disks or DBs harmonizing formats across years and sites

Limitless Automations

Create your own custom routine analyses with one or more bricks, and take advantage of the scripting to write your own bricks

Modular

The number of bricks you can use is unlimited, you can start with easy workflows and build complexity

Flexible

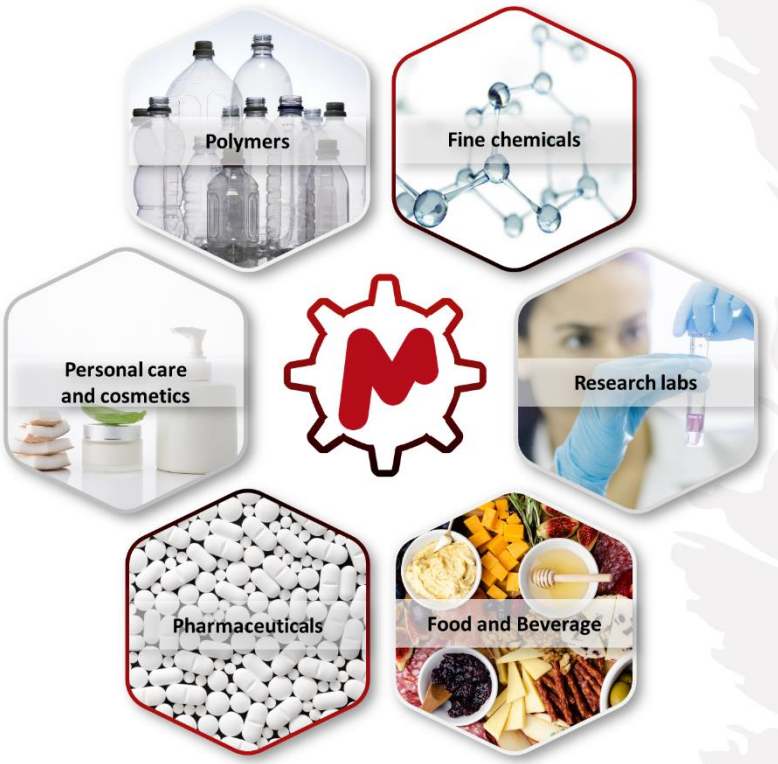
Every step of workflow automation can be adapted to your specific needs. You can also use your own scripts!

Scalable

Solutions for simple automations and more complex Enterprise level workflows

Not sure how Mnova Gears could be useful to you?

Here are a few examples to get some ideas flowing:



- Quality Control (NMR, MS, etc)
- Natural Product Dereplication by NMR
- Reaction Monitoring by NMR
- Quantitative NMR
- Targeted mixtures analysis by NMR
- Multi-technique reporting
- Protein-ligand Interactions
- Product ID confirmation
- Structure verification
- DNA Profiling by LCMS
- Ligand-based drug screenings
- Reaction Optimization (HTE)
- Determination of solubility, lipophilicity
- System Suitability testing (NMR, LCMS)
- Compound purification workflows

A number of these applications are already supported through the bricks we've already released: Peak Report, Multiplet Report, Purity, Concentration, SMA, IUPAC Name, QC Profiling, MS Scan, DB Search, SQA, MPublish.

Not only this, but many others are also available as BETA versions: Chrom Reaction Optimization, Chrom Best Method, Fraction Analysis, Chrom Quality Control, Chrom SST, Affinity Screen, Solubility, LogP, etc.

You can read more about Mnova Gears and its applications here.

Contact us:

info@mestrelab.com for general queries
sales@mestrelab.com for sales queries

We look forward to hearing about your own automations!

Mestrelab Research
chemistry software solutions