

MGEARS: Mnova General Enterprise Automation Rapid Solution

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The ability to integrate, quickly modificate and speed the workflows up in an automated manner has been achieved thanks to Mgears. For this automated analysis, the general and common workflows followed in Mgears are:

1. Import data from data location
2. Process data
3. Generate report
4. Save data
5. Store results

In this work, we present our latest efforts towards developing a modular very flexible environment designed to increase the level of automation currently possible in analytics (concept, architecture, etc.) and this has enabled the development of automation solutions for:

- Natural Product Dereplication by NMR
- Reaction Monitoring/Product ID confirmation
- MS QC
- DNA Profiling and QC
- affinity interaction understanding tool
- Screening tool
- etc

The overall architecture of the application, as well as illustrative examples, will be shown in this work.