

Automated Workflow for Error-Reduction, Time Efficiency, and Labor Minimization in Sample Management Using Echo 650 and Robotic Integration

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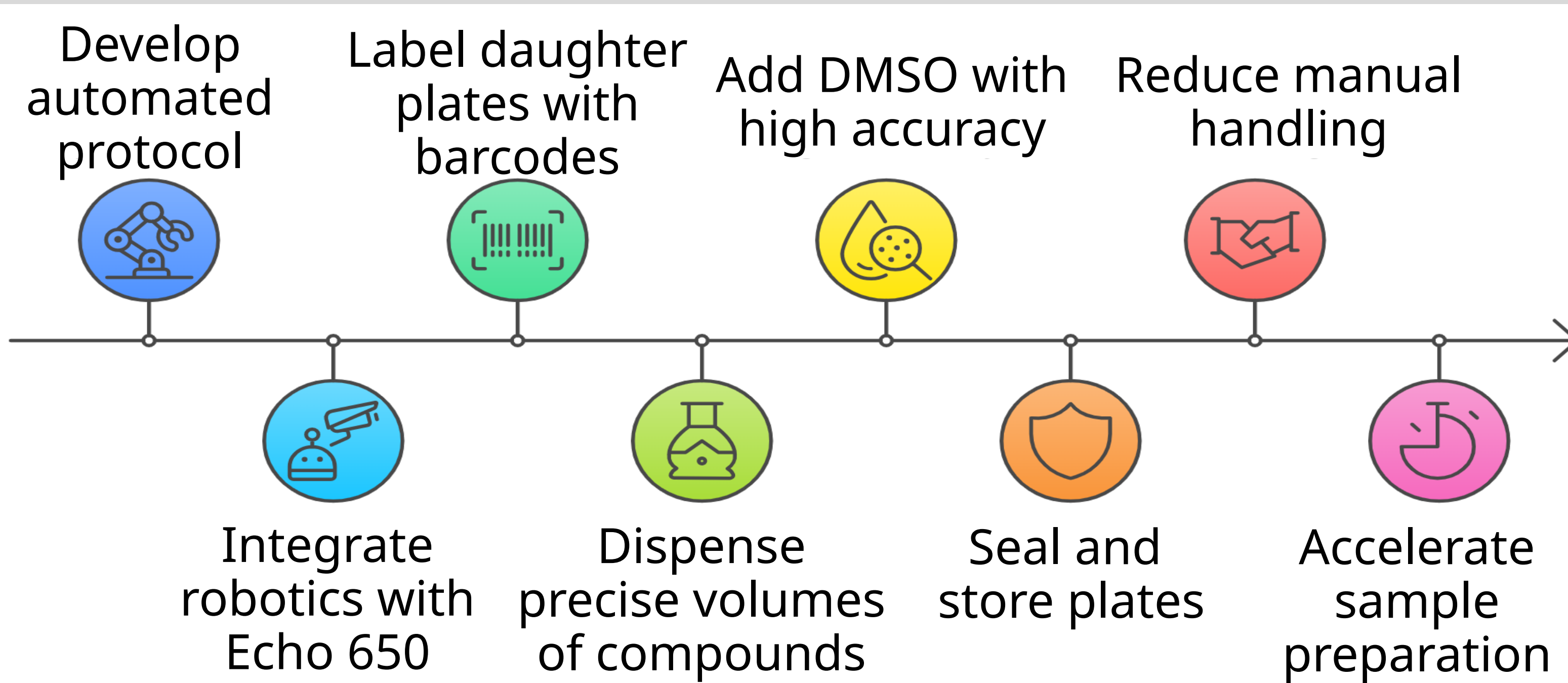
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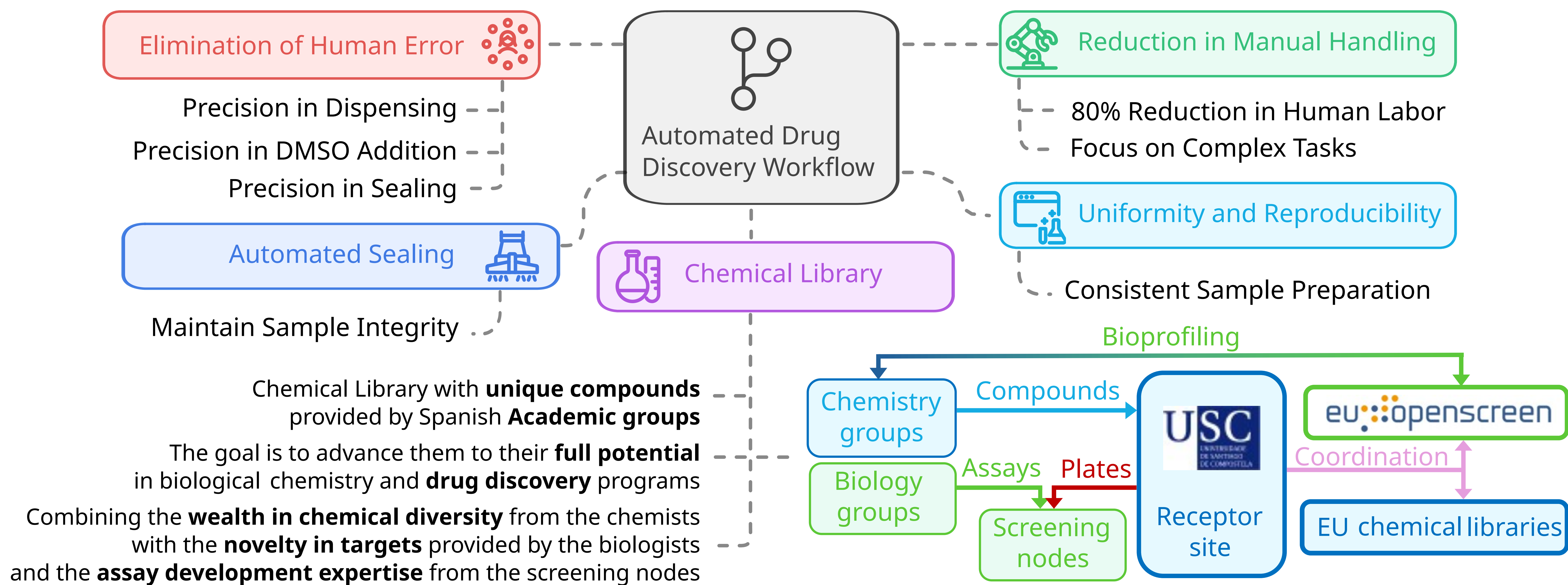
Introduction

In high-throughput screening and sample management, ensuring accuracy, reducing human error, and minimizing manual labor are essential for reliable experimental outcomes. To address these challenges, we have developed a fully automated protocol that integrates advanced robotics with the Echo 650 system. This workflow efficiently manages the entire sample preparation process, from labeling daughter plates with barcodes for identification to dispensing precise volumes of compound stock solutions and adding DMSO with high accuracy. By streamlining tasks such as sealing and storing plates, the automation significantly reduces manual handling, accelerates sample preparation, and enhances overall reliability in high-precision environments.

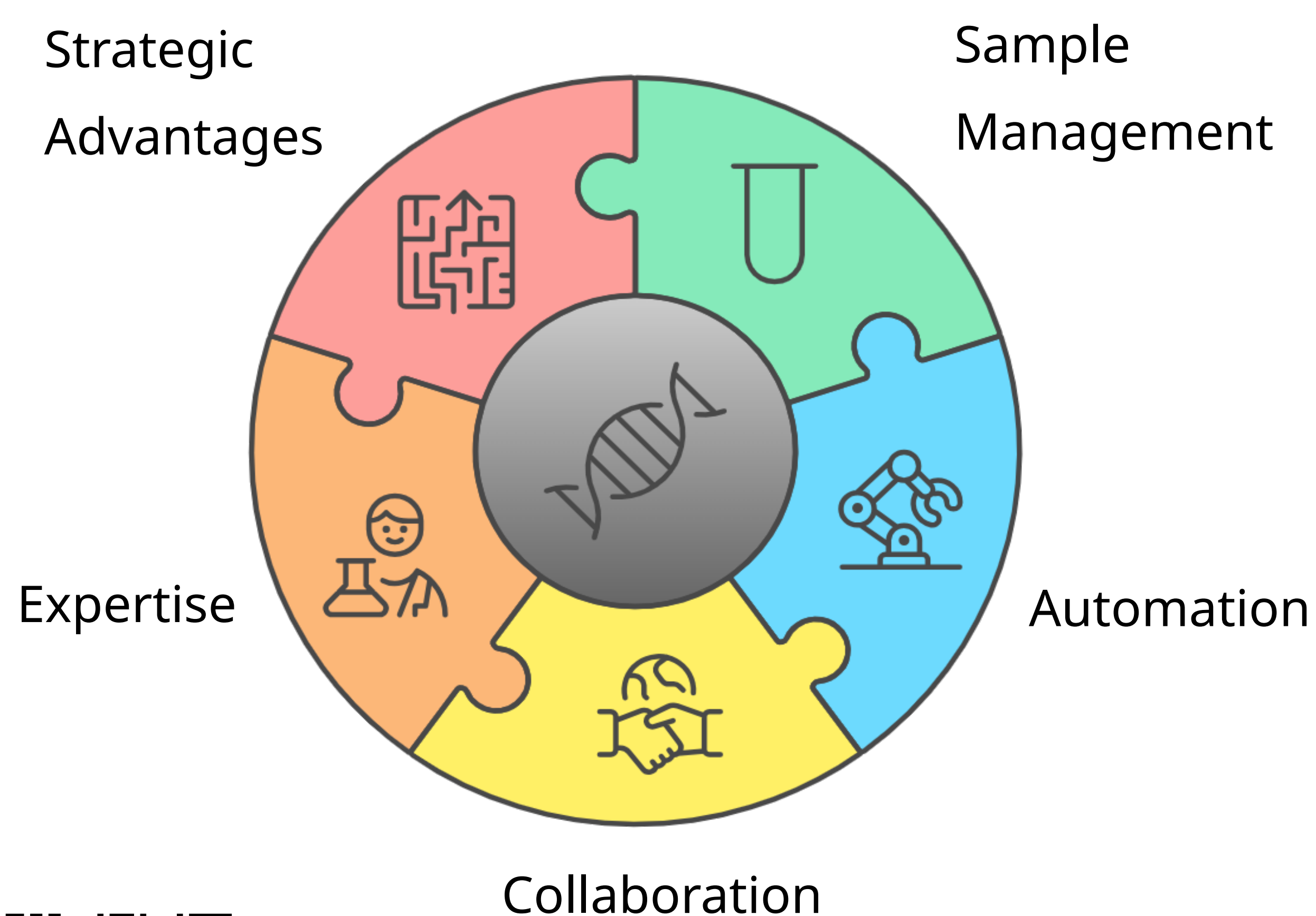
Methods



Results



Discussion



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Conclusions

- Precision, efficiency, and expert management are essential for achieving successful outcomes.
- Cutting-edge automated platforms designed to minimize errors, optimize workflows, and accelerate discovery are crucial.
- Integration with public and private chemical libraries will speed up the drug delivery process.
- At Innopharma, we have this integrated compound management fully operative, allowing to advance novel therapies from discovery to development with greater speed and cost effectiveness.

Acknowledgments

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