

COMET MODULE

TWIN4PHARMA – DIGITAL AND GREEN (TWIN) TRANSITION OF PHARMACEUTICAL PRODUCT AND PROCESS DEVELOPMENT

Main location: Graz (Styria)

Other locations: none

Thematic area: Life Sciences

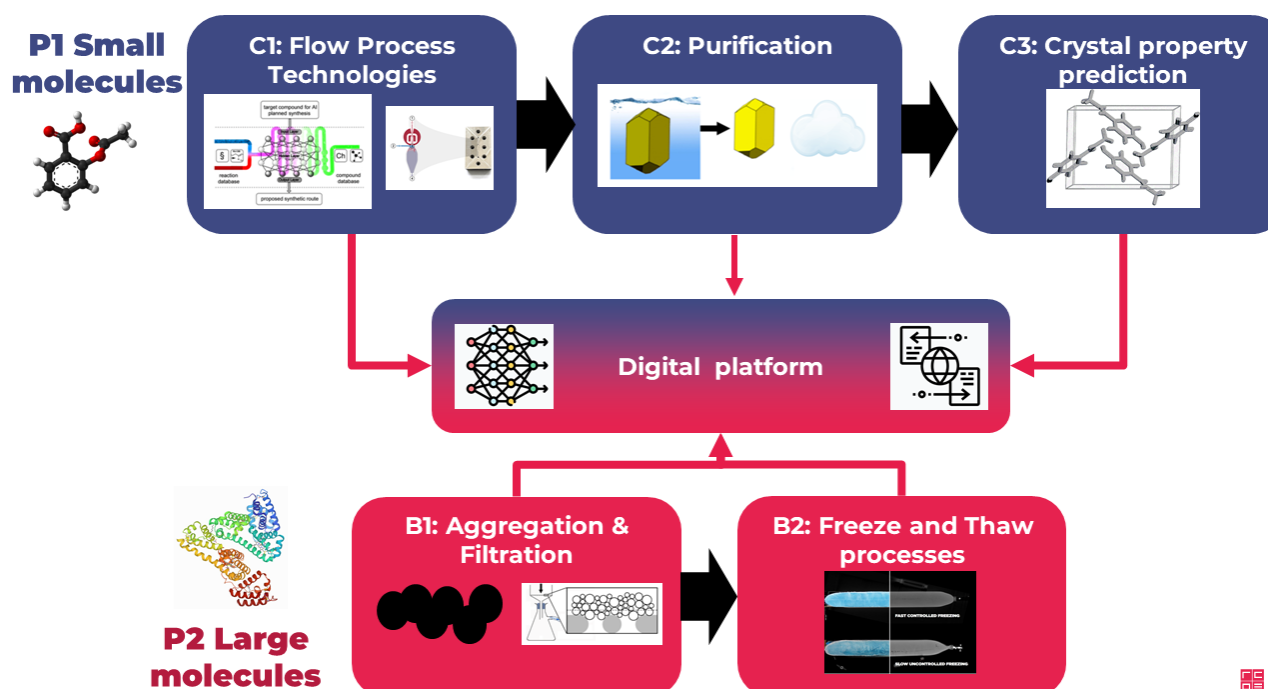


Thematic focuses

- Hybrid models through combination of mechanistic and data-driven models
- Sustainable and efficient production of medicines
- Digital platform for pharmaceutical production

Planned realisation and outcomes

In *Twin4Pharma*, we will develop a **holistic digital platform** that goes way beyond current state-of-the-art prediction, data handling and analytics to drive forward the twin transition (digital and green). For any given, but also new molecules, the platform will design a (bio-)synthesis process, the formulation pathway, the entire process (manufacturing route) with the aim to make it efficient, resource-optimized, and green. By doing so, tedious experiments and dead ends can be avoided, thus massively accelerating the process of bringing critical medicines to patients.



COMET FACTSHEET

Selected company partners (max. 10):

1. Takeda Manufacturing Austria AG
2. Zeta GmbH
3. HOS Technik GmbH
4. Sanochemia Pharmazeutika GmbH
5. Microinnova Engineering GmbH
6. FDX Fluid Dynamix GmbH
7. LoconIQ R&D GmbH
8. Phyllon GmbH
9. SimVantage GmbH
10. BearingPoint GmbH

Selected scientific partners (max. 5):

1. Graz University of Technology
2. University of Graz
3. University of Vienna
4. University of Zagreb
5. Josip Juraj Strossmayer University of Osijek

Selected international¹ partners (max. 5):

1. InSilico Trials Ltd
2. Ascalia Ltd

Duration: 01.07.2024 bis 30.06.2028 (4 years)

Staff employment: 8 FTE, thereof 8 scientists

Management: Dr. Sarah Stryeck, Scientific Director
Ass. Prof. Dr. Mario Lovric, Deputy Scientific Director

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www.ffg.at/comet

¹ Partners with headquarters outside Austria