	Workshop "Advancing Green Chemistry Technologies"	
AIM	To discuss the green technologies of biobased fine chemicals and APIs.	
	To facilitate proactive engagement and collaboration among industrial and academic partners.	
	To foster interactive information exchange, raise awareness, and showcase successful applications of green chemistry methodologies.	
	To map developments with a focus on sustainability, circularity, and carbon footprint reduction.	
	WHEN?WHERE?11 December 2024Ghent – Rozier 1 & 3	
	WHO SHOULD ATTEND? THIS WORKSHOP WILL BE OF INTEREST TO ACADEMIC AND INDUSTRY PERSONNEL	
_	WORKING IN ALL GREEN TECHNOLOGIES APPLICATIONS, INCLUDING:	
	SYNTHESIS - FORMULATION - BENIGN BY DESIGN - ANALYSIS	
	Registration & Welcome Coffee	
	Introduction Greening pharmaceutical synthesis – more sustainable methodology	
GRAMME	Lunch	
RAN	Benign by Design	
PROG	Artificial Intelligence	
PR	Coffee Break Production / scale-up plants	
	Network Reception	
	Catering + registration: Boekentoren at Rozier 3, 9000 Ghent Workshop: Auditorium Vandenhove at Rozier 1, 9000 Ghent	
	Registration link: https://event.ugent.be/registration/workshopgreenchemistry	
Organised by:		
	TRANS PHARM Global green chemistry network	
	This project has received funding from the	

TRANS PHARM

GREEN CHEM Global green chemistry network

European Union's Horizon Europe research and innovation programme under grant agreement No 101057816

Workshop "Advancing Green Chemistry Technologies"

09:00 - 09:30	Registration & Welcome Coffee	
09:30 - 09:45	Introduction	
	Greening pharmaceutical synthesis – more sustainable methodology	
	State-of-the art and challenges of (Electro)chemical flow synthesis – interactive	
09:45 - 10:35	session Christian Stevens (Ghent University) & Renzo Luisi (University of Bari) & Aigars Jirgensons (LIOS)	
10:35 – 11:10	State-of-the art and challenges of mechanochemistry – interactive session Christophe Len (PSL University)	
11:10 - 11:35	Hydrothermal Methods: Advancing Green Polymer Chemistry Katrien Bernaerts (Maastricht University)	
Lunch at Rozier 3		
	Benign by Design	
13:00 - 13:40	Redesigning API's with low ecological risk: why (or why not) and how? interactive session Karel De Schamphelaere (Ghent University)	
13:40 - 14:05	To identify greener and more potentially sustainable alternatives to APIs Klaus Kümmerer (Leuphana University of Lüneburg)	
Artificial Intelligence		
14:05 - 14:30	AI-Driven Compound Screening and Reaction Planning for Greener Organic Synthesis Maarten Dobbelaere (Ghent University)	
Coffee Break at Rozier 3		
	Production/ scale-up plants	
15:15 -15:40	Mapping and Reducing Scope 3 CO ₂ Emissions: Strategies for a Sustainable Future in Pharmaceutical CDMO Operations Dries De Clercq (Ajinomoto OmniChem)	
15:40 - 16:05	Betulin containing birch outer bark extractives: research, development, scale-up and potential application possibilities Jānis Rižikovs (State Institute of Wood Chemistry (LSIWC))	
16:05 - 16:30	Chemistry for a Greener World – Online presentation Brian Kelly (KelAda Pharmachem)	
16:30 - 16:50	Industrial Technological Hall at Tarbes (France) " <u>AGROMAT</u> " - Video Plateforme AGROMAT - LAB CONNECT (univ-toulouse.fr)	
	Network reception at Rozier 3	

Registration link: <u>https://event.ugent.be/registration/workshopgreenchemistry</u>

TRANS

PHARM

GREEN CHEM

Global green chemistry network



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101057816

Workshop "Advancing Green Chemistry Technologies"

Speakers

Greening pharmaceutical synthesis – more sustainable methodology

1. State-of-the art and challenges of (Electro)chemical flow synthesis - interactive session



Christian Stevens (Ghent University)



<u>Renzo Luisi</u> (University of Bari)



Aigars Jirgensons (LIOS)

2. State-of-the art and challenges of mechanochemistry - interactive session



Christophe Len

3. Hydrothermal Methods: Advancing Green **Polymer Chemistry**



Katrien Bernaerts (Maastricht University)



(Chimie Paris Tech, PSL University, CNRS)

Benign by Design

4. Redesigning APIs with low ecological risk: why (or why not) and how? -- interactive session



Karel De Schamphelaere (Ghent University)



5. To identify greener and more potentially

sustainable alternatives to APIs

Klaus Kümmerer (Leuphana University of Lüneburg)



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101057816

GREEN CHEM Global green chemistry network PHARM

Workshop "Advancing Green Chemistry Technologies"

Speakers

Artificial Intelligence

6. AI-Driven Compound Screening and Reaction Planning for Greener Organic Synthesis



<u>Maarten Dobbelaere</u> <u>(Ghent University)</u>

Production/ scale-up plants

7. Mapping and Reducing Scope 3 CO₂ Emissions: Strategies for a Sustainable Future in Pharmaceutical CDMO Operations 8. Betulin containing birch outer bark extractives: research, development, scale-up and potential application possibilities



Dries De Clercq (Ajinomoto OmniChem)

9. Chemistry for a Greener World – Online

presentation



<u>Jānis Rižikovs</u> (Latvian State Institute of Wood Chemistry (LSIWC))

10. Industrial Technological Hall at Tarbes (France) "<u>AGROMAT</u>" - Video <u>Plateforme AGROMAT - LAB CONNECT</u>



Philippe Evon (INPT-ENSIACET)



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101057816

Brian Kelly

(KelAda Pharmachem)

ope research



