

# $Programme \ \, \hbox{$($subject to $changes)$}$



### Monday 11 March 2024

16:00 - 17:00	Scientific Committee meeting (members only)
17:15	Transportation to Favrholm from Hotel Hillerød
17:15 - 17:45	Poster Hang up
17:45 - 19:00	Dinner at Favrholm
19:00 - 19:15	Official opening by Claus Felby, Senior Vice President, Biotech, Novo Nordisk Foundation
19:15 - 20:30	SESSION 1: Future of cell factory design
	Welcome by committee chair: Lars Keld Nielsen
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## Tuesday 12 March 2024

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13:30 - 14:45	SESSION 4: Automation of science
	INVITED SPEAKER: Ross D King, Chalmers University of Technology, Sweden The automation of science
	INVITED SPEAKER: Huimin Zhao, University of Illinois at Urbana-Champaign, United States BioAutomata: A self-driving biofoundry for biosystems design
	SHORT TALK: Paul Jensen, University of Michigan, United States  Learning mechanistic metabolic models from a blank slate with a robot scientist
	CHAIR: Darren Platt, Montage Bio, United States
14:45 - 16:30	POSTER SESSION
16:30 - 17:45	SESSION 5: Robotics
	INVITED SPEAKER: Michelle Lee, Medra Inc, United States Leveraging Al for fully autonomous labs
	INVITED SPEAKER: Will Serber, Ginkgo Bioworks, United States  The unexpected benefits and challenges of a highly modular automation platform
	SHORT TALK: Julia Tenhaef, Forschungszentrum Jülich GmbH, Germany AutoBioTech - High-throughput transformation of the Gram-positive platform organism Corynebacterium glutamicum
	CHAIR: Lachlan Munro, Technical University of Denmark, Biosustainability, Denmark
17:45 - 20:00	Dinner
20:00 - 22:00	PI Pub / Editors' Corner

#### Wednesday 13 March 2024

09:00 - 10:35	SESSION 6: The unconference
	INVITED SPEAKER: Daniel Goodwin, Homeworld Collective, United States  Mapping the Bioeconomy with Al and TEAs
	PITCH ROUND 1
	ROUND 1
	CHAIR: Darren Platt, Montage Bio, United States
10:35 - 11:05	Coffee break
11:05 - 12:15	SESSION 7: The unconference
	PITCH ROUND 2
	ROUND 2
	CHAIR: Darren Platt, Montage Bio, United States
12:15 - 12:30	Group photo
12:30 - 13:30	Lunch
13:30 - 15:00	POSTER SESSION
15:00 - 16:15	SESSION 8: The unconference
	PITCH ROUND 3
	ROUND 3
	CHAIR: Darren Platt, Montage Bio, United States
16:30 - 17:30	Transport to social outing
17:30 - 19:30	Social outing
19:30 - 22:00	Dinner
22:00 - 22:30	Transport to Favrholm

#### Thursday 14 March 2024

09:00 - 10:30	SESSION 9: Biofoundries
	INVITED SPEAKER: Chueh Loo Poh, National University of Singapore, Singapore  Towards predictive biodesign for engineering biology
	INVITED SPEAKER: Nathan Jeremy Hillson, Lawrence Berkeley National Laboratory, United States Progress in automating microbial transformation through omics sample preparation
	SHORT TALK: Dominique Aubert Skovlund, Production Strain Technology, Novonesis, Denmark Our journey towards a full DBTL cycle for Recombinant Production Strain Development and Optimisation
	SHORT TALK: Shannara Taylor Parkins, Technical University of Denmark, Denmark  Computational tools for effective metabolic engineering of microbial cell factories
	CHAIR: Jochen Förster, The Novo Nordisk Foundation Center for Biosustainability, Denmark
10:30 - 11:00	Coffee break
11:00 - 12:00	SESSION 10: Social impact
	INVITED SPEAKER: Barbara Ribeiro, SKEMA Business School, France The digitalisation paradox of everyday scientific labour: How mundane knowledge work is amplified and diversified in the biosciences.
	SHORT TALK: Tessa Alexanian, International Biosecurity and Biosafety Initiative for Science, United States  Developing biosecurity guidance for Al-enabled automated labs
	SHORT TALK: Rick Johnson, OECD Global Forum on Technology, iGEM Foundation, BioMADE, Stanford BioBricks Foundation, EBRC, United States  Emerging Responsible Innovation and Governance Issues in the Era of the Automated Scientist
	CHAIR: Lars Keld Nielsen, The Novo Nordisk Foundation Center for Biosustainability, Denmark
12:00 - 13:00	Lunch
<b> 3:00 - 14:30</b>	SESSION 11: Mining knowledge
	INVITED SPEAKER: Bernhard Palsson, University of California San Diego, United States  Toward interoperability of multiple knowledge-enriched databases
	INVITED SPEAKER: Hyun Uk Kim, Korea Advanced Institute of Science and Technology (KAIST), South Korea (Republic of Korea Efficient mining of public omics data and literature using computational models
	SHORT TALK: Laura Marie Helleckes, Forschungszentrum Jülich, Germany Bayesian optimisation meets robotic workflows: Towards data-efficient microbial phenotyping
	SHORT TALK: Erin Wilson, LanzaTech, United States Limits and opportunities for deep learning approaches in C1 metabolism
	CHAIR: Lea Mette Madsen Sommer, Novonesis, Denmark
4:30 - 15:00	Coffee break
15:00 - 16:30	SESSION 12: Perspectives
	INVITED SPEAKER: Isabel Rocha, NOVA University Lisbon, Portugal  Large-scale Computer-Aided Design of for the production of high-added value compounds from the Shikimate pathway within Shikifactory100
	INVITED SPEAKER: Evelyn Travnik, University of California San Diego, United States  Lifelike – an Al and graph-powered knowledge mining platform
	INVITED SPEAKER: Darren Platt, Montage Bio, United States 15 years of automating microbial cell factory engineering
	CHAIR: Lars Keld Nielsen, The Novo Nordisk Foundation Center for Biosustainability, Denmark
16:30 - 16:45	Closing remarks by Lars Keld Nielsen, Chair of the Scientific Committee
16:45 - 19:00	Transportation Favrholm → Hotel Hillerød → Favrholm
19:15	Welcome drinks at Favrholm
13.13	

## Friday 15 March 2024

09:00	Check-out from hotels
09:00	Bus departure from Hotel Hillerød $\rightarrow$ Favrholm Campus $\rightarrow$ City centre $\rightarrow$ Copenhagen airport