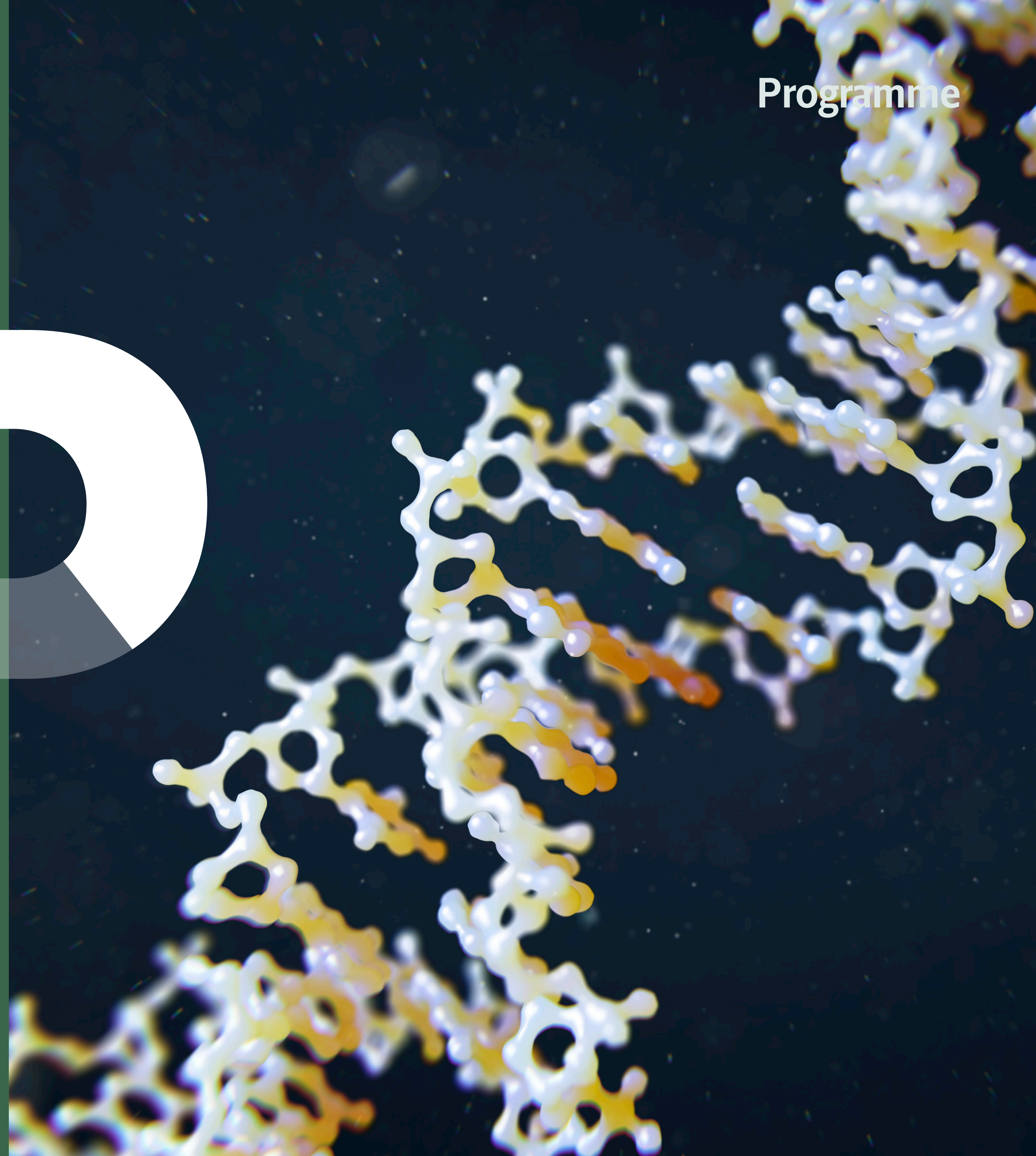


20-21 June 2024

Genome Editing: from basic principles to applied science

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Programme overview



20 June 2024

Venue: The Novo Nordisk Foundation, Tuborg Havnevej 19, 2900 Hellerup

Time		Speaker	Title
08.30	Arrival and breakfast		
09.00	Welcome by Thomas Bentin & Eric Paul Bennet	Chair: Thomas Bentin	
	Keynote Speaker	Maria Jasin	Genetic and genomic loss from Cas9 double-strand breaks: application of Flo-LOH
10.00	Break		
10.30	Editing & Repair	Chair: Eric Paul Bennett	
		Niels Mailand	Illuminating key dimensions in genome maintenance with genome editing screening technology
		Jacob Corn	Better human genome editing by listening to the cells
		Short talk: Emil Hertz	Identifying genetic determinants of micronuclei formation by genome-wide optical pooled screens
12.00	Lunch		
13.00	Immunity & Evolution	Chair: Morten Sommer	
		Virginijus Siksnys	Harnessing key cellular pathways for antiviral defense in bacteria
		Xu Peng	Viruses fight back: how to escape CRISPR immunity?
		Anna Cereseto	Unlocking the natural reservoir of genome editing tools through a directed evolution approach
14.45	Break		
15.15	Round Table Discussions		
16.15	Screening & Diseases	Chair: Jan Zylicz	
		Short talk: Jakob Nilsson	Proteome-wide base editor screens to access functionality of protein interaction motifs at scale.
		Benedetta Artegiani	CRISPR editing for disease modelling in human organoid systems
		Short talk: Svenja Hansson	Exercise regulated skeletal muscle enhancers and their potential role in the muscle-brain crosstalk
17.30	Bus to Dinner venue		
18.00	Dinner at Restaurant Vækst		
20.15	Thanks for today!		

Programme overview



21 June 2024

Venue: The Novo Nordisk Foundation, Tuborg Havnevej 19, 2900 Hellerup

Time		Speaker	Title
08.30	Arrival and breakfast	Arrival and Breakfast	
09.00	Gene Editing Modalities	Chair: Thomas Bentin	
		Guillermo Montoya	Redesigning the type V-K CRISPR-associated transposon system for genome editing
		Morten Sommer	CRISPR enabled medicines for modulating the microbiome
		Short talk: Kyler Roy	Unlocking Multiplexed CRISPR Potential: A Novel Non-Repetitive CRISPR Toolkit for Advanced Genome Manipulation
10.30	Break		
11.00	On- & Off-Targets	Chair: Mani Arumugam	
		Jan Gorodkin	Computational strategies for CRISPR/Cas gRNA design
		Toni Cathomen	Revelations in Precision: Learning from On- & Off-Target Effects of Gene Editing Tools
		Short talk: Ying Sun	Enhanced CRISPR base editing design from data generation and deep learning
12.30	Lunch		
13.30	Discovery & Therapeutics	Chair: Guillermo Montoya	
		Rasmus Bak	Genetic and transcriptional engineering of hematopoietic stem cells
		Short talk: Kristoffer Haurum Johansen	Antigen-scaffold-mediated expansion of CRISPR-Cas9 knockin CAR- and TCR-T cells generates highly enriched, efficacious T-cell products
		Angelo Lombardo	Programming gene expression by targeted epigenetic editing
		Concluding remarks	
15.00	Farewell drinks		
16.00	Thanks for today!		