

Day 1: 19 June 2022 | Sunday

14:00 – 14:15 **Opening: Official Welcome to the NICE EPITA**

Hanne Scholz | Oslo, Norway
Steve White | Newcastle, United Kingdom
Julie Kerr-Conte | Lille, France

14:15 – 16:00 **Session 1: Mastering islet isolation to transplant**

Chair: Fabio Vistoli | Pisa, Italy

14:15 – 14:45	Deceased Donor selection, procurement and management for islet isolation	Steve White Newcastle, United Kingdom
14:45 – 15:15	Tailoring enzymes for pancreas digestion	Paul Johnson Oxford, United Kingdom
15:15 – 15:30	Presentation of IsletNet & IsletSwipe for standardized counting	David Habart Prague, Czech Republic
15:30 – 15:45	Quality assessment of human islets -what should be the current standard?	Julie Kerr-Conte Lille, France
15:45 – 16:00	Quality assessment of stem cell derived beta cells	Valeria Sordi Milan, Italy
16:00 – 16:30	COFFEE BREAK	

16:30 – 18:00 **Session 2: Modernizing isolation Update on replacing the COBE in Europe**

Chair: Julie Kerr-Conte | Lille, France

16:30 – 16:45	Islet purification with COBE processing is there a future in Europe?	Olle Korsgren Uppsala, Sweden
16:45 – 17:15	Introduction to the novel human islet isolation device PRISM	Marten Engelse and Jason B Doppenberg Leiden, The Netherlands
17:15 – 18:00	Discussion panel: Keeping the COBE alive and moving to other devices	

18:00 – 20:00 **Oslo University Hospital- Cell Therapy GMP Facility tour**

Hanne Scholz and Ragnhild Fjukstad | Oslo, Norway

Day 2: 20 June 2022 | Monday

09:00 – 12:00 PRISM and counting

Chair: Eelco de Koning | Leiden, The Netherlands

09:00 – 09:15	Introduction	Eelco de Koning Leiden, The Netherlands
09:15 – 11:30	Demonstration of the PRISM machine at the operating theatre [Institute for Surgical Research]	Marten Engelse and Jason B Doppenberg Leiden, The Netherlands
11:30 – 12:00	Practical training using the IsletNet & IsletSwipe for standardized counting	David Habart Prague, Czech Republic

12:00 – 14:00 LUNCH BREAK

14:00 – 15:00 Session 3: Enabling technologies for beta cell transplantation

Chair: Hanne Scholz | Oslo, Norway

14:00 – 14:20	Introduction to 3D Bioprinting	Shadab Abadpour Oslo, Norway
14:20 – 14:40	Introduction to islet organoids	Ekaterine Berishvili Geneva, Switzerland
14:40 – 15:00	Introduction to Metabolism on Chip (Organ on chip)	Stefan Krauss Oslo, Norway

15:00 – 18:00 **Parallel Session 4:**
Basic science session | WET LAB

Topic 1	3D bioprinting of cell-laden scaffolds 15:00 – 15:45 Group 1 16.00 – 16:45 Group 2 17.00 – 17.45 Group 3	Shadab Abadpour Oslo, Norway Essi Niemi Oslo, Norway
Topic 2	Engineering organ-on-chip platforms 15:00 – 15:45 Group 3 16.00 – 16:45 Group 1 17.00 – 17.45 Group 2	Mathias Busek Oslo, Norway
Topic 3	Generation spheroids and organoids 15:00 – 15:45 Group 2 16.00 – 16:45 Group 3 17.00 – 17.45 Group 1	Ekaterine Berishvili Geneva, Switzerland Aleksandra Aizenshtadt Oslo, Norway Chencheng Wang Oslo, Norway

15:00 – 18:00 **Parallel Session 4:**
Clinical aspects
Beta cell replacement therapy programs in Europe

15:00 – 16:00	Pancreas procurement and machine perfusion With panellists: Morten Hagness Oslo, Norway Volkert Huurman Leiden, The Netherlands	Joana Ferrer Barcelona, Spain
16:00 – 17:00	Techniques for Islet transplantation (challenges and solutions to minimize risk) With panellists: Thierry Berney Geneva, Switzerland Michiel Nijhoff Leiden, The Netherlands	Torbjørn Lundgren Stockholm, Sweden Francois Pattou Lille, France
17:00 – 18:00	Patient recruitment (allogeneic islet transplantation and autotransplantation) With panellists: Trond G. Jenssen Oslo, Norway Eelco de Koning Leiden, The Netherlands Melena D Bellin Minneapolis, USA Lorenzo Piemonti, Milan, Italy	Steve White Newcastle, United Kingdom

Day 3: 21 June 2022 | Tuesday

09:00 – 11:00 **Session 5: Autologous isolation for benign and malignant pathologies**

Chairs: Julie Kerr-Conte | Lille, France
Lorenzo Piemonti, | Milan, Italy

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| 09:00 – 09:20 | A single-center prospective randomised Clinical Trial: TPIAT as a Superior Alternative to Pancreatoduodenectomy in Patients at Very High-risk of Complications of the Pancreatic Anastomosis | Lorenzo Piemonti, Milan, Italy |
| 09:20 – 09:40 | Isolation techniques: Autologous islets from chronic pancreatitis patients vs Allogenic islets from DBD/DCD | Marten Engelse Leiden, The Netherlands |
| 09:10 – 09:17 | Tips and tricks. Round table case discussions
- Pancreas; fatty, calcified, bloody
- Cannulating hugely dilated duct
- Contaminated pancreas
- Previous surgical drainage – how do we isolate? | Moderated by:
Julie Kerr-Conte Lille, France
Hanne Scholz Oslo, Norway |

11:00 – 11:30 COFFEE BREAK

11:30 – 13:00 **Session 6: Differentiation from stem cells: room for improvement**

Chairs: Valeria Sordi | Milan, Italy

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| 11:30 – 11:50 | Strategies to obtain pure beta cells | Valeria Sordi Milan, Italy |
| 11:50 – 12:10 | Generation of fully functional stem cell-islets | Timo Otonkoski Helsinki, Finland |
| 12:10 – 12:20 | Manufacturing ATMPs- Laboratory workflow and clinical translation | Hanne Scholz Oslo, Norway |
| 12:20 – 12:40 | GMP compliant stem cell derived islets: How and where to transplant them? | Eelco de Koning Leiden, The Netherlands |
| 12:40 – 13:00 | Discussion Panel | |

13:00 – 13:15 **CLOSING**