

**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

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| 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

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| 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

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| 09:00 – 09:15 | Introduction  | Eelco de Koning   Leiden,<br>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,<br>The Netherlands |
| 11:30 – 12:00 | Practical training using the IsletNet & IsletSwipe for standardized counting                  | David Habart   Prague,<br>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

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

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

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| <b>Topic 1</b> | <b>3D bioprinting of cell-laden scaffolds</b><br>15:00 – 15:45 Group 1<br>16:00 – 16:45 Group 2<br>17:00 – 17.45 Group 3 | Shadab Abadpour   Oslo, Norway<br>Essi Niemi   Oslo, Norway  |
| <b>Topic 2</b> | <b>Engineering organ-on-chip platforms</b><br>15:00 – 15:45 Group 3<br>16:00 – 16:45 Group 1<br>17:00 – 17.45 Group 2    | Mathias Busek   Oslo, Norway   |
| <b>Topic 3</b> | <b>Generation spheroids and organoids</b><br>15:00 – 15:45 Group 2<br>16:00 – 16:45 Group 3<br>17:00 – 17.45 Group 1     | Ekaterine Berishvili   Geneva, Switzerland<br>Aleksandra Aizenshtadt   Oslo, Norway<br>Chencheng Wang   Oslo, Norway |

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

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|---------------|---|--|
| 15:00 – 16:00 | Pancreas procurement and machine perfusion<br><br>With panellists: Morten Hagness   Oslo, Norway<br>Volkert Huurman   Leiden, The Netherlands   | Joana Ferrer  <br>Barcelona, Spain   |
| 16:00 – 17:00 | Techniques for Islet transplantation (challenges and solutions to minimize risk)<br><br>With panellists: Thierry Berney   Geneva, Switzerland<br>Michiel Nijhoff   Leiden, The Netherlands  | Torbjørn Lundgren  <br>Stockholm, Sweden<br>Francois Pattou   Lille,<br>France |
| 17:00 – 18:00 | Patient recruitment (allogeneic islet transplantation and autotransplantation)<br><br>With panellists: Trond G. Jenssen   Oslo, Norway<br>Eelco de Koning   Leiden, The Netherlands<br>Melena D Bellin   Minneapolis, USA<br>Lorenzo Piemonti,   Milan, Italy | Steve White   Newcastle,<br>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<br>- Pancreas; fatty, calcified, bloody<br>- Cannulating hugely dilated duct<br>- Contaminated pancreas<br>- Previous surgical drainage – how do we isolate? | Moderated by:<br>Julie Kerr-Conte   Lille, France<br>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**