

## 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**    **Mastering islet isolation to transplant and standard care**

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    Quality assessment of human islets -what should be  
the current standard?

Julie Kerr-Conte | Lille, France

15:30 – 15:45    Quality assessment of stem cell derived beta cells

Valeria Sordi | Milan, Italy

15:45 – 16:00    From research to standard of care

Francois Pattou | Lille, France

16:00 – 16:30    COFFEE BREAK

**16:30 – 18:00**    **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 – 19:30**    **Networking Reception  
including: *Virtual GMP facility tour & Islet Isolation Procedure (18:30 – 19:00) –  
presented by Hanne Scholz***

## Day 2: 20 June 2022 | Monday

### 08:30 – 09:00 Introduction to PRISM and counting

Chair: Eelco de Koning | Leiden, The Netherlands

08:30 – 08:45 Introduction

Eelco de Koning | Leiden,  
The Netherlands

08:45 – 09:00 *Group Division & day explanation*

### 09:00 – 11:00 PRISM and counting Group 1: PRISM demonstration Group 2: Counting

09:00 – 11:00 Demonstration of the PRISM machine at the operating theatre [Institute for Surgical Research]

Marten Engelse and Jason  
B Doppenberg | Leiden,  
The Netherlands

09:00 – 11:00 Practical training using the IsletNet & IsletSwipe for standardized counting; open discussion on future of IsletNet & IsletSwipe

David Habart | Prague,  
Czech Republic and  
Valery Gmyr | Lille, France

11:00 – 12:00 LUNCH BREAK

### 12:00 – 14:00 PRISM and counting Group 1: Counting Group 2: PRISM demonstration

12:00 – 14:00 Demonstration of the PRISM machine at the operating theatre [Institute for Surgical Research]

Marten Engelse and Jason  
B Doppenberg | Leiden,  
The Netherlands

12:00 – 14:00 Practical training using the IsletNet & IsletSwipe for standardized counting; open discussion on future of IsletNet & IsletSwipe

David Habart | Prague,  
Czech Republic and  
Valery Gmyr | Lille, France

14:00 – 14:15 BREAK

**14:15 – 15:15 Enabling technologies for beta cell transplantation**

Chair: Hanne Scholz | Oslo, Norway

14:15 – 14:35	Introduction to 3D Bioprinting	Shadab Abadpour   Oslo, Norway
14:35 – 14:55	Introduction to islet organoids	Ekaterine Berishvili   Geneva, Switzerland
14:55 – 15:15	Introduction to Metabolism on Chip (Organ on chip)	Stefan Krauss   Oslo, Norway

**15:15 – 18:45 Parallel Session:  
Basic science session | WET LAB**

<b>Topic 1</b>	<b>3D bioprinting of cell-laden scaffolds</b>	Shadab Abadpour   Oslo, Norway Essi Niemi   Oslo, Norway
	15:15 – 16:15 Group 1	
	<i>BREAK</i> 16.45 – 17:45 Group 2 17.45 – 18.45 Group 3	
<b>Topic 2</b>	<b>Engineering organ-on-chip platforms</b>	Mathias Busek   Oslo, Norway
	15:15 – 16:15 Group 3	
	<i>BREAK</i> 16.45 – 17:45 Group 1 17.45 – 18.45 Group 2	
<b>Topic 3</b>	<b>Generation spheroids and organoids</b>	Ekaterine Berishvili   Geneva, Switzerland Aleksandra Aizenshtadt   Oslo, Norway Chencheng Wang   Oslo, Norway
	15:15 – 16:15 Group 2	
	<i>BREAK</i> 16.45 – 17:45 Group 3 17.45 – 18.45 Group 1	

**15:15 – 18:45 Parallel Session:  
 Clinical aspects  
 Beta cell replacement therapy programs in Europe**

15:15 – 16:15 Pancreas procurement and machine perfusion  
 Joana Ferrer |  
 Barcelona, Spain  
 With panellists: Morten Hagness | Oslo, Norway  
 Volkert Huurman | Leiden, The Netherlands

16:15 – 16:45 COFFEE BREAK

16:30 – 17:30 Techniques for Islet transplantation (challenges and  
 solutions to minimize risk)  
 Torbjørn Lundgren |  
 Stockholm, Sweden

With panellists: Thierry Berney | Geneva, Switzerland  
 Michiel Nijhoff | Leiden, The Netherlands

17:30 – 18:30 Patient recruitment (allogeneic islet transplantation and  
 autotransplantation)  
 Steve White |  
 Newcastle, United  
 Kingdom

With panellists: Trond G. Jenssen | Oslo, Norway  
 Eelco de Koning | Leiden, The Netherlands,  
 Lorenzo Piemonti,  
 | Milan, Italy

### Day 3: 21 June 2022 | Tuesday

#### 09:00 – 11:00 Autologous isolation for benign and malignant pathologies

Chairs: Lorenzo Piemonti, | Milan, Italy

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
09:40 – 11:00	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 Differentiation from stem cells: room for improvement

Chairs: Valeria Sordi | Milan, Italy

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 – 12:30	Manufacturing ATMPs- Laboratory workflow and clinical translation	Hanne Scholz   Oslo, Norway
12:30 – 12:50	GMP compliant stem cell derived islets: How and where to transplant them?	Eelco de Koning   Leiden, The Netherlands
12:50 – 13:00	Q&A	

13:00 – 13:15 CLOSING