



OSLO

Norway

10th INTERNATIONAL
NICE EPITA
workshop

19-21
June 2022

#ESOT_EPITA

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FINAL PROGRAMME

WELCOME

Dear all participants, faculty, ESOT members and colleagues.

On behalf of the Nordic Islet Network and EPITA board I will thank you all for taking the time to visit Norway's capital Oslo. We will spend time on an exiting scientific program and work on developing the future for beta cell replacement therapy. We hope the Workshop program will reflect how complex type 1 diabetes are for the patient and their families.

Our capital lies adjacent to the beautiful Oslo fjord and we are excited to display this scenery by hosting the gala dinner in the new magnificent Opera House right at the edge of the water for a networking evening.

Warm welcome
Hanne Scholz

Biorep is committed to defeating diabetes by designing, developing, and manufacturing biomedical instruments to support medical researchers in their quest to find the biological cure for the diabetic patient.



GENERAL INFORMATION

Venue

University of Oslo
Domus Medica - Round Auditorium
Sognsvannsveien 9, Gaustad
Oslo

How to get to the venue from the city centre

To arrive at the NICE EPITA venue please take tram #17 or #18 towards Rikshospitalet. – get off at the last stop: Rikshospitalet. You will find the entrance to Domus Medica on the left hand side of the stop.

Oslo public transport tickets are available under the Mobile App called: Ruter alternatively you can also buy them in the Oslo Visitor Centre, at Ruter's customer service centre, and in Narvesen as well as 7-Eleven shops.

Accreditation

NICE EPITA Islet Isolation and Beta Cell Replacement Workshop has been granted 13 European CME credits (ECMEC®s) by the European Accreditation Council for Continuing Medical Education (EACCME®).

Preparation for sessions

This meeting is a workshop so our speakers and moderators would like to interact with the participants as much as possible. We encourage you especially to prepare for the following sessions:

Practical training using the IsletNet & IsletSwipe for standardized counting

This part of the programme will be chaired by Dr David Habart (Prague) and co-chaired by Dr Valéry Gmyr (Lille) with the following aims:

1. demonstrate and practice the use of each platform
2. discuss questionable or problematic images
3. discuss requests and future development



Diabetes Research &
Wellness Foundation



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GENERAL INFORMATION

To make the most of the session please:

- Bring in laptops, which will be connected to WiFi in order to practice IsletNet

- Download IsletSwipe from AppStore or GooglePlay (free). Sharing images, however, will require a personal invitation by email. It will save valuable time, if the interested participants contact David (david.habart@ikem.cz) directly in advance to receive the invitation before the Workshop

- Share images directly with David (david.habart@ikem.cz), who will upload them anonymously to IsletSwipe platform, so that also other participant can see them and voice their opinions regarding the microscopic quality and the islet contours, while correcting them by editing. Please express your willingness to submit images and you will receive further instructions from David on how to share images while keeping all privacy.

- If you have already informal questions or discussion points, please share with David before the Workshop

Autologous isolation for benign and malignant pathologies

This session held on Tuesday will host case-based discussion moderated by Hanne Scholz and Julie Kerr-Conte. For this session we encourage you to prepare one slide case study that can be discussed.

The discussion will cover:

- Pancreas; fatty, calcified, bloody
- Cannulating hugely dilated duct
- Contaminated pancreas
- Previous surgical drainage – how do we isolate?

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COMMITTEES

Scientific Organiser

Hanne Scholz, Oslo University Hospital
University of Oslo, Oslo, Norway

EPITA Board

Steve White, Newcastle, United Kingdom - EPITA Chair

Julie Kerr-Conte, Nantes, France - EPITA Vice-Chair

Claudia Bosmuller, Innsbruck, Austria

Joana Ferrer, Barcelona, Spain

Michiel Nijhoff, Leiden, The Netherlands

Valeria Sordi, Milan, Italy

Fabio Vistoli, Pisa, Italy

Eelco De Koning, Leiden, The Netherlands



SCIENTIFIC PROGRAMME

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

SCIENTIFIC PROGRAMME

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

SCIENTIFIC PROGRAMME

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

SCIENTIFIC PROGRAMME

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

Topic 1 3D bioprinting of cell-laden scaffolds

Shadab Abadpour | Oslo, Norway

Essi Niemi | Oslo, Norway

15:15 – 16:15 Group 1

BREAK

16.45 – 17:45 Group 2

17.45 – 18.45 Group 3

Topic 2 Engineering organ-on-chip platforms

Mathias Busek | Oslo, Norway

15:15 – 16:15 Group 3

BREAK

16.45 – 17:45 Group 1

17.45 – 18.45 Group 2

Topic 3 Generation spheroids and organoids

Ekaterine Berishvili | Geneva, Switzerland

Aleksandra Aizenshtadt | Oslo, Norway

Chencheng Wang | Oslo, Norway

15:15 – 16:15 Group 2

BREAK

16.45 – 17:45 Group 3

17.45 – 18.45 Group 1

SCIENTIFIC PROGRAMME

15:15 – 18:45 Parallel Session:

Clinical aspects

Beta cell replacement therapy programs in Europe

15:15 – 16:15 Pancreas procurement and machine perfusion

With panellists:

Morten Hagness | Oslo, Norway

Volkert Huurman | Leiden, The Netherlands

Joana Ferrer | Barcelona, Spain

16:15 – 16:45 COFFEE BREAK

16:30 – 17:30 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

17:30 – 18:30 Patient recruitment (allogeneic islet transplantation and autotransplantation)

With panellists: Trond G. Jenssen | Oslo, Norway

Eelco de Koning | Leiden, The Netherlands

Lorenzo Piemonti | Milan, Italy

Steve White | Newcastle, United Kingdom

SCIENTIFIC PROGRAMME

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

SCIENTIFIC PROGRAMME

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



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