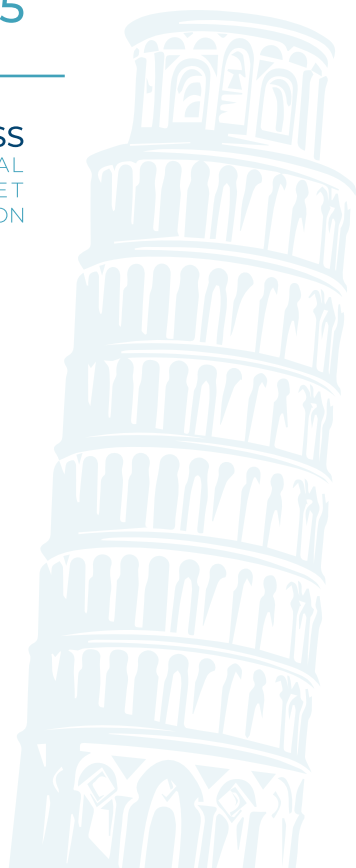


IPITA2025

Pisa, Italy, 15 - 18 June 2025

20th | WORLD CONGRESS
OF THE INTERNATIONAL
PANCREAS AND ISLET
TRANSPLANT ASSOCIATION



IPITA 2025

20th

WORLD CONGRESS
OF THE INTERNATIONAL
PANCREAS AND ISLET
TRANSPLANT ASSOCIATION

WELCOME MESSAGE

4

COMMITTEES

5

PROGRAMME OVERVIEW

8

SCIENTIFIC PROGRAMME

12

ORAL PRESENTATIONS

32

POSTERS

66

SOCIAL EVENTS

70

GENERAL INFORMATION

72

SPONSORS

76

MAPS

78

WELCOME MESSAGE

Dear Colleagues and Friends,

On behalf of the organizing committee, it is our great pleasure to welcome you to the 2025 World Congress of the International Pancreas and Islet Transplant Association (IPITA) in the enchanting city of Pisa, Italy. This year's congress, held in the heart of Tuscany, brings together experts from around the world to explore and discuss the latest breakthroughs in pancreas and islet transplantation, beta-cell replacement therapies, and the innovative approaches shaping the future of diabetes treatment.

The program promises to be a truly exciting and thought-provoking experience, with cutting-edge topics such as chemical reprogramming for cell fate manipulation, advancements in pancreas transplantation, personalized immunoprofiling, and the potential of stem cell-derived insulin-producing cells. These discussions will push the boundaries of our understanding and offer new perspectives on the evolving field of diabetes care.

As part of our commitment to enhancing scientific dialogue, we will also address critical issues such as immunosuppression, ethical considerations in gene editing, and the global need for more equitable access to advanced therapies. We will dive into debates on xeno-islets versus human stem cell approaches and explore the exciting world of pancreas bioengineering and biofabrication.

We believe this congress is not only an opportunity for intellectual exchange but also for forging meaningful connections. As we gather in one of Italy's most culturally rich regions, we hope that you will enjoy the beauty of Tuscany, renowned for its art, history, and world-class cuisine. A variety of social events will allow us to connect in a more relaxed atmosphere, celebrating the collaboration that makes progress in this field possible. Together, we will not only advance our scientific and clinical practices but also build lasting professional relationships in a truly unique setting. We are confident that this event will be inspiring, productive, and a memorable journey both professionally and socially.

Thank you for being part of this important congress. We hope your time in Tuscany will be both rewarding and unforgettable.

Warmest Regards,



Ugo Boggi

Full Professor of Surgery Division of General Surgery and Transplantation University of Pisa



Lorenzo Piemonti

Chief of the Department of Regenerative Medicine and Transplantation San Raffaele Scientific Institute, Milan



Fabio Vistoli

Full Professor of Surgery Division of General Surgery and Transplantation University of L'Aquila

COMMITTEES

Host Committee

- Ugo **Boggi**, *Pisa* [ITA]
- Lorenzo **Piemonti**, *Milan* [ITA]
- Fabio **Vistoli**, *L'Aquila* [ITA]

Scientific Committee

- Lorenzo **Piemonti**, *Milan* [ITA] (Chair)
- Shadab **Abadpour**, *Oslo* [NOR]
- Tadej **Batellino**, *Ljubljana* [SVN]
- Melena **Bellin**, *Minneapolis* [USA]
- Ekaterine **Berishvili**, *Geneva* [CH]
- Ugo **Boggi**, *Pisa* [ITA]
- Antonio **Citro**, *Milan* [ITA]
- Emanuele **Cozzi**, *Padua* [ITA]
- Daniel T. **Doherty**, *Manchester* [UK]
- Shareen **Forbes**, *Edinburgh* [UK]
- Elena **Frattolin**, *Udine* [ITA]
- Jonathan **Fridell**, *Indianapolis* [USA]
- Giuseppe **Grandaliano**, *Rome* [ITA]
- Paul **Johnson**, *Oxford* [UK]
- Raja **Kandaswamy**, *Minneapolis* [USA]
- Thomas **Kay**, *Melbourne* [AUS]
- Piero **Marchetti**, *Pisa* [ITA]
- Braulio **Marfil-Garza**, *Monterrey* [MEX]
- Steven **Paraskevas**, *Montreal* [CAN]
- Michael R. **Rickels**, *Philadelphia* [USA]
- Natasha **Rogers**, *Sydney* [AUS]
- Hanne **Scholz**, *Oslo* [NOR]
- Peter **Senior**, *Edmonton* [CAN]
- Valeria **Sordi**, *Milan* [ITA]
- Tim **Swaab**, *Groningen* [NLD]
- Qizhi **Tang**, *San Francisco* [USA]
- Marie-Christine **Vantghem**, *Lille* [FRA]
- Fabio **Vistoli**, *L'Aquila* [ITA]
- Giovanni **Vozzi**, *Pisa* [ITA]



Novo Nordisk
Aspiring to write the future of
cell therapy, together.



PROGRAMME OVERVIEW

TO
A
N
O
N

Time schedule		Sunday June 15, 2025	Monday June 16, 2025
		Daily Program	Daily Program
07:30	08:00		Meet the expert Hall A, Hall B
08:00	08:30		
08:30	09:00		
09:00	10:00		Plenary session <i>Towards a Personalised approach for immunoprofiling and immunosuppressive therapy following beta cell replacement</i> Hall A
10:00	10:30		Richard Lillehei lecture Hall A
10:30	11:00		Break
11:00	11:30		
11:30	12:00		Oral communications Hall A, Hall B, Hall C, Hall D
12:00	12:30		
12:30	13:00	IPITA PANCREAS TRANSPLANT INTEREST GROUP PRE-CONGRESS SYMPOSIUM Hall A	Break Medtronic Symposium Hall C1
13:00	13:30		Magistral lecture <i>A 3D atlas of the human developing pancreas to explore progenitor proliferation and differentiation</i> Hall A
13:30	14:00		
14:00	14:30		Parallel sessions Hall A, Hall B, Hall C
14:30	15:00		
15:00	15:30	EPITA - IPITA 2025 ISLET ISOLATION SYMPOSIUM Hall B	Break
15:30	16:00		
16:00	16:30		Oral communications Hall A, Hall B, Hall C, Hall D
16:30	17:00		
17:00	17:30		
17:30	18:00	OPENING CEREMONY Teatro Verdi	YIC session Hall A
18:00	18:30		
18:30	19:00		
19:00	19:30		
19:30	20:00		

Time schedule		Tuesday June 17, 2025	Wednesday June 18, 2025
		Daily Program	Daily Program
07:30	08:00	Meet the expert Hall A, Hall B, Hall C	Meet the expert Hall A, Hall B
08:00	08:30		
08:30	09:00	Plenary session <i>From Research to Reality: Ethical and Societal Pathways for Global Adoption of Beta-Cell Therapies</i> Hall A	Parallel sessions Hall A, Hall B
09:00	10:00		
		Presidential Address Hall A	Paul Lacy Lecture Hall A
10:00	10:30		
10:30	11:00	Break	Break
11:00	11:30		
11:30	12:00	Oral communications Hall A, Hall B, Hall C, Hall D	Parallel sessions Hall A, Hall B
12:00	12:30		
12:30	13:00	Break	Break
13:00	13:30		
		Honoring the Legacy of David Sutherland: Contributions, Impact and Memories Hall A	Magistral lecture <i>Will we prevent type 1 diabetes?</i> Hall A
13:30	14:00		
14:00	14:30	Parallel sessions Hall A, Hall B, Hall C	Plenary session <i>Update on Relevant Clinical Trials in Beta-Cell Replacement</i> Hall A
14:30	15:00		
15:00	15:30		
15:30	16:00	Break	
16:00	16:30	Oral communications Hall A, Hall B, Hall C, Hall D	Plenary session <i>What is the future in</i> Hall A
16:30	17:00		
17:00	17:30	IPITA Business meeting Hall C	Conclusion
17:30	18:00		
18:00	18:30		
18:30	19:00		
19:00	19:30		
19:30	20:00		



SCIENTIFIC PROGRAMME

SUNDAY 15 JUNE 2025

12:00 – 17:00

Hall A

IPITA PANCREAS TRANSPLANT INTEREST GROUP PRE-CONGRESS SYMPOSIUM

Definitions and Listing Guidelines for Pancreas Transplantation in Type 2 Diabetes Mellitus:

Don't Hype the Type!

Chair: **Jonathan Fridell (USA)**

- 12:00 Introduction
Jonathan Fridell (USA)
- 12:10 Diabetes Endotyping and Pancreas Transplantation
Richard Oram (UK)
- 12:50 Defining "Type 2" Diabetes for Publication, Research, Registries, and Monitoring
Jon Odorico (USA)
- 13:30 Typical Listing Criteria for Pancreas Transplantation in Patients with "Type 2" Diabetes
Ty Dunn (USA)
- 14:10 BREAK
- 15:00 Outcomes for Kidney Transplant Alone in "Type 2" Diabetes without Pancreas Transplantation
Archana Sadhu (USA)
- 15:40 Outcomes for Pancreas Transplantation in Patients with "Type 2" Diabetes at the Extremes:
Beyond the Usual Listing Criteria
Mario Spaggiari (USA)
- 16:20 Conclusion

SUNDAY 15 JUNE 2025

12:00 – 17:00

Hall B

EPITA - IPITA 2025 ISLET ISOLATION SYMPOSIUM

Allo-Islet Assessment and Islet Release Criteria: Towards a Consensus (DRAFT)

- 12:00 Welcome and Defining the Aims
Paul Johnson (UK), Julie Kerr-Conte (FRA)
- ISLET COUNTING
Chairs: **Hanne Scholtz (NOR), Rebecca Spiers (UK)**
- 12:15 IEQ as a Method of Islet Counting
Paul Johnson (UK)
- 12:35 Estimation of IEQ Based on Islet Pellet Volume and Purity
Marten Engelse (NDL)
- 12:55 Automated Islet Counting
David Habat (CZH)
- 13:15 Panel Discussion
- ISLET PURITY AND STERILITY
Chair: **Ekaterine Berishvili (CH), Lora Irvine (UK)**
- 13:45 Impact of Lower Islet Purity on Islet Graft Function
Julie Kerr-Conte (FRA)
- 14:05 Towards consensus on islet sterility testing
Barbara Ludwig (GER)
- 14:25 Panel Discussion
- 15:00 BREAK
- ISLET VIABILITY AND FUNCTION
Chair: **Julie Kerr-Conte (FRA), Greg Szot (USA)**
- 15:30 Nuclear Exclusion Staining and Oxygen Consumption Rate
Klearchos Papas (USA)

SUNDAY 15 JUNE 2025

- 15:50 GSIS as a Pre-release Functional Test
Greg Szot (USA)
- 16:10 Semi-automated Assessment of Islet Viability
Shane Grey (AUS)
- 16:30 Panel Discussion and Closing Remarks

17:30 – 20:00

Teatro Verdi

OPENING CEREMONY

MAGISTRAL LECTURE

Chemical Reprogramming for Cell Fate Manipulation: Methods, Applications and Perspectives

Chair: **Ugo Boggi (ITA)**, **Thomas Kay (AUS)**, **Lorenzo Piemonti (ITA)**, **Fabio Vistoli (ITA)**

Speaker: **Hongkui Deng (CHN)**

MONDAY 16 JUNE 2025

07:30 – 08:30

Hall A

MEET THE EXPERT

Technical Pearls for Whole Organ Pancreas Transplant: Insights from Leading Centers

Chair: **Marcelo Perosa (BRA)**

Speakers: **Jonathan Fridell (USA)**, **Marcelo Perosa (BRA)**, **Raja Kandaswamy (USA)**,
Fabio Vistoli (ITA)

07:30 – 08:30

Hall B

MEET THE EXPERT

Diabetes and Weight Control Before and After Transplantation: Strategies for Patients on Dialysis and Beyond

Chair: **Marie-Christine Vantyghem (FRA)**

Speaker: **Giuseppe Grandaliano (ITA)**

08:30 – 10:00

Hall A

PLENARY SESSION

Towards a Personalised Approach for Immunoprofiling and Immunosuppressive Therapy Following Beta Cell Replacement

Chairs: **Thomas Kay (AUS)**, **Shareen Forbes (UK)**

- 08:30 Immune Mechanisms of Graft Loss and Autoimmunity Recurrence
Paolo Monti (ITA)
- 08:52 Standardising Immune Monitoring in Beta Cell Replacement
Karen Sherwood (CAN)
- 09:14 Diagnosis and Treatment of Allograft Rejection in Islet Transplantation
Marie-Christine Vantyghem (FRA)
- 09:36 Diagnosis and Treatment of Allograft Rejection in Pancreas Transplantation
Peter Stock (USA)

MONDAY 16 JUNE 2025

10:00 – 10:30

Hall A

RICHARD LILLEHEI LECTURE

Chair: **Paul Johnson (UK)**

Speaker: **Peter Friend (UK)**

10:30 – 11:00

COFFEE BREAK

11:00 – 12:30

Hall A, B, C, D

ORAL COMMUNICATIONS

See page 32

12:30 – 13:30

LUNCH BREAK

MONDAY 16 JUNE 2025

12:30 – 13:30

Hall C1

MEDTRONIC LUNCH SYMPOSIUM

The Role of Artificial Pancreas in Surgical and Transplant Department: A New Clinical Pathway

Chairs: **Ohad Cohen (ISR)**, **Lorenzo Piemonti (ITA)**

Introduction

Ohad Cohen (ISR)

AID Devices Supporting Cell Therapy: Synergies and Not Antagonism

Lorenzo Piemonti (ITA)

Post-Transplantation Diabetes: The Role of AID

Tadej Battelino (SLO)

AID System Service in the Surgical and Transplant Department: Post-Pancreatectomy Case-Study

Andrea Laurenzi (ITA)

13:30 – 14:00

Hall A

MAGISTRAL LECTURE

A 3D Atlas of the Human Developing Pancreas to Explore Progenitor Proliferation and Differentiation

Chairs: **Hanne Scholz (NOR)**, **Michael R. Rickels (USA)**

Speaker: **Raphaël Scharfmann (FRA)**

MONDAY 16 JUNE 2025

14:00 – 15:30

Hall A

PARRALEL SESSION

CGM Definition of Success and Failure in Beta Cell Replacement Strategy

Chairs: Tadej Battelino (SLO), Marie-Christine Vantyghem (FRA)

- 14:00 Defining CGM Metrics for Eligibility in Beta-Cell Replacement Programs
Michael R. Rickels (USA)
- 14:22 Establishing CGM Metrics for Transplantation Success and Failure
Peter Senior (CAN)
- 14:44 Integrating CGM Data into Clinical Practice and Exploring Future Research Directions
Federico Bertuzzi (ITA)
- 15:06 IGLS Score: It is Time for an Update?
Cyril Landstra (NDL)

14:00 – 15:30

Hall B

PARRALEL SESSION

Great Debate and Unanswered Question

Chairs: Emanuele Cozzi (ITA), Daniel Doherty (UK), Shadab Abadpour (NOR), Ekaterine Berishvili (CH)

- 14:00 Xeno Islet Side
Wayne Hawthorne (AUS)
- 14:22 Stem Cell Side
Diego Balboa (FIN)
- 14:44 How "Unlimited" will the Supply of SC-Islets be in the Foreseeable Future?
Hanne Scholz (NOR)
- 15:06 Is There One Best Strategy for Preventing Rejection and Autoimmunity Recurrence of SC-Islets, or Will it Depend?
Bernhard Hering (USA)

MONDAY 16 JUNE 2025

14:00 – 15:30

Hall C

PARRALEL SESSION

Pancreas Transplantation: Expanding the Donor Pool and Improving Graft Viability

Chairs: Natasha Rogers (AUS), Matthew Cooper (USA)

- 14:00 DCD Pancreas Grafts: Expanding the Boundaries of Donation
Trevor W. Reichman (CAN)
- 14:22 Ex Situ Perfusion of Pancreas for Whole-Organ Transplantation: Safety and Feasibility
Julien Branchereau (FRA)
- 14:44 Pancreas Machine Perfusion to Increase the Donor Pool for Beta Cell Replacement Therapy
Joana Ferrer-Fàbrega (SPA)
- 15:06 The Role of Pediatric Donors in Pancreas Transplantation
Jon S. Odorico (USA)

15:30 – 16:00

COFFEE BREAK

16:00 – 17:30

Hall A, B, C, D

ORAL COMMUNICATIONS

See page 40

17:30 – 19:00

Hall A

YIC SESSION

Meet the Councilors

Chairs: Antonio Citro (ITA), Shadab Abadpour (NOR), Daniel Doherty (UK)

Speakers

Melena Bellin (USA), Eelko de Koning (NDL), Angelika Gruessner (USA), Marcelo Perosa (BRA), Hanne Scholtz (NOR)

TUESDAY 17 JUNE 2025

07:30 – 08:30

Hall A

MEET THE EXPERT

Production of Stem Cell-Derived Beta Cells: GMP Manufacturing, Scale-Up, and Automation

Chair: **Valeria Sordi (ITA)**

Speaker: **Françoise Carlotti (NDL)**

07:30 – 08:30

Hall B

MEET THE EXPERT

Prospects on Xenotransplantation

Chair: **Paolo De Simone (ITA)**

Speaker: **Emanuele Cozzi (ITA)**

07:30 – 08:30

Hall C

MEET THE EXPERT

Robotic pancreas transplantation

Chair: **Andrea Lauterio (ITA)**

Speakers: **Ugo Boggi (ITA), Mario Spaggiari (USA)**

TUESDAY 17 JUNE 2025

08:30 – 10:00

Hall A

PLENARY SESSION

From Research to Reality: Ethical and Societal Pathways for Global Adoption of Beta-Cell Therapies

Chairs: **Eelko De Koning (NL), Elena Frattolin (ITA)**

- 08:30 Urgency in Innovation: Delivering Therapies to Patients Now
David Baidal (USA)
- 08:42 #Nothingaboutuswithoutus - How Can We Work with People with Type 1 Diabetes to Drive Research, Policy and Advocacy for Cell Therapy?
Sufyan Hussain (UK)
- 08:54 The Patient's Voice: The Cost of Waiting, the Importance of Including the Voice of People with Diabetes in your Team
Cameron Keighron (IRL)
- 09:06 Incorporating Person-Reported Outcomes in Future Clinical Trial Designs
Marjana Marinac (USA)
- 09:18 DICCI (Diabetes Cells Citizens): A Citizen Science Project on Cellular Therapies for Type 1 Diabetes
Valeria Sordi (ITA)
- 09:30 Collaborative Paths to Equitable Access
Ester Latres (USA)
- 09:42 Q&A

TUESDAY 17 JUNE 2025

TUESDAY 17 JUNE 2025

10:00 – 10:30

Hall A

PRESIDENTIAL ADDRESS
Speaker: **Thomas Kay** (AUS)

10:30 – 11:00

COFFEE BREAK

11:00 – 12:30

Hall A, B, C, D

ORAL COMMUNICATIONS
See page 48

12:30 – 13:30

LUNCH BREAK

13:30 – 14:00

Hall A

HONORING THE LEGACY OF DAVID SUTHERLAND: CONTRIBUTIONS, IMPACT, AND MEMORIES
Chairs: **Ugo Boggi** (ITA), **Bernhard Hering** (USA)
Speakers: **Raja Kandaswamy** (USA), **Melena Bellin** (USA), **Rainer W.G. Gruessner** (USA)

TUESDAY 17 JUNE 2025

14:00 – 15:30

Hall A

PARRALEL SESSION
Advances and Challenges in Pancreas Transplantation: Indications, Techniques, and Outcomes
Chairs: **Lucrezia Furian** (ITA), **Tim Swaab** (NL)

- 14:00 Modern Indication and Contraindication to Pancreas Transplantation
Jonathan Fridell (USA)
- 14:22 Generating Strategies for a Comeback in Pancreas Transplantation
Matthew Cooper (USA)
- 14:44 Robotic-Assisted Simultaneous Pancreas-Kidney Transplants: Exploring Clinical Utility
Mario Spaggiari (USA)
- 15:06 Donor Time to Death and Simultaneous Pancreas-Kidney Transplantation Outcome
Steve White (UK)

14:00 – 15:30

Hall B

PARRALEL SESSION
Application of Stem Cell-Derived Insulin-Producing Cells
Chairs: **Valeria Sordi** (ITA), **Ekaterine Berishvili** (CH)

- 14:00 Can we Make Insulin in Non- β Cells?
Marta Perez-Frances (CH)
- 14:22 Engineered Stem Cell Islet for Advanced Diabetes Therapies
Nicole Rogers (GER)
- 14:44 Strategies to Prevent or Manage Potential Complications with ESC and Ipsc-Derived Islet Products
Jon Odorico (USA)
- 15:06 Phase 1/1B Study to Evaluate the Safety Of OZTX-410, Allogenic IPS Cell Derived Islet Cell Sheet in Individuals with T1D: The OASIS-1 Study Protocol
Takaya Anazawa (JPN)

TUESDAY 17 JUNE 2025

14:00 – 15:30

Hall C

PARRALEL SESSION

Type 1 Diabetes Disease-Modifying Therapies and Drugs for Beta Cell Allo-Rejection – Are they Interchangeable?

Chairs: **Piotr Trzonkowski (POL)**, **Paolo Monti (ITA)**

- 14:00 Targeting Cytokines and Non-CNI Regimens of Immunosuppression
Piotr Witkowski (USA)
- 14:22 T-regs
Piotr Trzonkowski (POL)
- 14:44 Targeting T-cells
Sylvaine You (FRA)
- 15:06 Exploring Heterogeneity in Immunogenicity and Immune Modulation of Stem Cell-Derived Beta Cells
Holger Russ (USA)

15:30 – 16:00

COFFEE BREAK

16:00 – 17:30

Hall A, B, C, D

ORAL COMMUNICATIONS

See page 56

17:30 – 18:00

Hall D

IPITA BUSINESS MEETING

- 2025 Derek Gray Distinguished Traveling Scholarship Award
- 2025 David Sutherland Distinguished Traveling Scholarship Award
- IPITA and TTS Scientific Abstract Travel Awards

WEDNESDAY 18 JUNE 2025

07:30 – 08:30

Hall A

MEET THE EXPERT

Bioartificial Pancreas to Cure Type 1 Diabetes (VANGUARD Project)

Chair: **Alice Tomei (USA)**

Speaker: **Ekaterine Berishvili (CH)**

07:30 – 08:30

Hall B

MEET THE EXPERT

Pancreas Transplant Alone

Chair: **Pablo Uva (ARG)**

Speaker: **Piero Marchetti (ITA)**

08:30 – 10:00

Hall A

PARRALEL SESSION

Innovative Therapies and Technologies in T1D: Cell Therapy, Pancreas Transplant, and Automated Insulin Delivery

Chairs: **Raja Kandaswamy (USA)**, **Fabio Vistoli (ITA)**

- 08:30 Report from the World Consensus Conference on Minimally Invasive Solid Organ Transplantation: Robotic Pancreas Transplantation Alone – An Update and Where Does it Fit in the Era of Technology?
Ugo Boggi (ITA)
- 08:52 What's Next in Automated Insulin Delivery Systems and Bihormonal Pumps – Comparisons with OpenAPS Systems
Tadej Battelino (SLO)
- 09:14 Strategies for Integrated Cell Therapy and Automated Systems in T1D
Thomas Danne (POR)
- 09:36 Optimal Epitope Level Matching in Islet Transplant – Can this Influence Decision to Transplant?
Karen Sherwood (CAN)

WEDNESDAY 18 JUNE 2025

08:30 – 10:00

Hall B

PARRALEL SESSION

Biofabrication of the Pancreas: Advancements in 3D Tissue Engineering and Neo-Engineered Transplants

Chairs: **Antonio Citro (ITA)**, **Giovanni Vozzi (ITA)**

- 08:30 Encapsulation Technology for Endocrine Pancreas Bioengineering
Alice Tomei (USA)
- 08:52 3D Bio-Printing: The Volumetric Approach in Pancreas Engineering
Pere Català Quilis (NDL)
- 09:14 In Situ Bio-Printing: A Novel Clinical Approach for Gastroenterology Approach
Gabriele Maria Fortunato (ITA)
- 09:36 Devices for Beta Cell Replacement: What's Still Lacking?
Klearchos Papas (USA)

10:00 – 10:30

Hall A

PAUL LACY LECTURE

Chair: **Thomas Kay (AUS)**

Speaker: **Thierry Berney (CH)**

10:30 – 11:00

COFFEE BREAK

WEDNESDAY 18 JUNE 2025

11:00 – 12:30

Hall A

PARRALEL SESSION

Current paradigms in total pancreatectomy and islet autotransplantation

Chairs: **Melena Bellin (USA)**, **Piero Marchetti (ITA)**

- 11:00 Technical Advances in Islet Isolation
Balamurugan N. Appakalai (USA)
- 11:22 Patient Selection for TPIAT: When is too Early and When is too Late?
Jaimie Nathan (USA)
- 11:44 Optimizing the Management of Patients After TPIAT: Pain, Diabetes, and Exocrine Insufficiency
Varia Kirchner (USA)
- 12:06 Pancreatic Resection in Tumors and Cancer: When Should we Consider an Islet Autotransplant?
Francois Pattou (FRA)

11:00 – 12:30

Hall B

PARRALEL SESSION

Islet Transplantation: Reemerging Themes, Resurfacing Debates, and Unresolved Issues

Chairs: **Julie Kerr-Conte (FRA)**, **Piotr Witkowski (USA)**

- 11:00 Pro and Cons SIK: Short Term and Long Term
Shareen Forbes (UK)
- 11:22 Practical Management of SIK/ How Would- What do you Need you Proceed
Marten Engelse (NDL)
- 11:44 Human Islet and Stem Cell Derived Beta Cluster Cryopreservation
Joseph Sushil Rao (USA)
- 12:06 Organ Allocation
Thierry Berney (CH)

WEDNESDAY 18 JUNE 2025

12:30 – 13:30

LUNCH BREAK

13:30 – 14:00

Hall A

MAGISTRAL LECTURE

Will we Prevent Type 1 Diabetes?

Chairs: **Thomas Kay** (AUS), **Paul Johnson** (UK)

Speaker: **Ezio Bonifacio** (ITA)

14:00 – 16:00

Hall A

PLENARY SESSION

Update on Relevant Clinical Trials in Beta-Cell Replacement

Chairs: **Jon Odorico** (USA), **Pablo Uva** (ARG)

14:00 Whole Pancreas Transplantation: IPTR Report
Angelica Gruessner (USA)

14:20 Pancreatic Islet Transplantation: CITR
Bernhard Hering (USA)

14:40 EPITR
John J. Casey (UK)

15:00 Forward and Upward Trials
James Markman (USA)

15:20 ChiCTR2300072200
Shusen Wang (CHN)

15:40 UP421 Treatment
Hanne Scholz (NOR)

WEDNESDAY 18 JUNE 2025

16:00 – 17:30

Hall A

PLENARY SESSION

What is the future in ...

Chairs: **Lorenzo Piemonti** (ITA), **Thomas Kay** (AUS)

16:00 What is the Future in... Islet Transplantation
Eelko De Koning (NDL)

16:22 What is the Future in ... Pancreas Transplantation
Raja Kandaswamy (USA)

16:44 What is the Future in ... Stem Cell Derived Insulin Producing Cells
Matthias Hebrock (GER)

17:06 What is the Future in ... Xenoislets
Eckhard Wolf (GER)

17:30 – 18:00

Hall A

CONCLUSION

Chairs: **Ugo Boggi** (ITA), **Lorenzo Piemonti** (ITA), **Fabio Vistoli** (ITA), **Thomas Kay** (AUS)



ORAL PRESENTATIONS

DATA
2025

MONDAY 16 JUNE 2025

11:00 - 12:30

Hall A

Advancements and Challenges in Pancreas and Kidney Transplantation: A Comprehensive Exploration of Outcomes and Strategies

Chairs: **Matthew Cooper (USA)**, **Salvatore Gruttadauria (ITA)**

- 11:00 01-1
10-Year Analysis of the Impact of Normothermic Regional Perfusion In Simultaneous Pancreas and Kidney Transplant
Andrew Sutherland*¹, Ruth Owen², Samuel Tingle², Emily Thompson², Claire Counter³, Lewis Simmonds³, Chris Callaghan⁴, Martin Drage⁴, Ian Currie¹, John Casey¹, Neil Russel⁶, Gavin Pettigrew⁶, Anand Muthusamy⁴, Elker Dork⁷, David Van Dellen⁵, Sanjay Sinha⁸, Colin Wilson², Derek Manas³, Steve White² (¹Edinburgh ~ United Kingdom, ²Newcastle ~ United Kingdom, ³Bristol ~ United Kingdom, ⁴London ~ United Kingdom, ⁵Manchester ~ United Kingdom, ⁶Cambridge ~ United Kingdom, ⁷Cardiff ~ United Kingdom, ⁸Oxford ~ United Kingdom)
- 11:12 01-2
How to Measure Success in Pancreas Transplantation
Angelika Gruessner*, Subodh Saggi, Rainer Gruessner (New York ~ United States Of America)
- 11:24 01-3
Malignant Neoplasms Following Pancreas Transplantation
Joohee Jung*, Younghoon Kim (Seoul ~ Republic Of Korea)
- 11:36 01-4
Development of a Donor-Based Predictive Model for Pancreas Discard in Deceased Donor Transplantation in the U.S.
Christie Rampersad*, Joseph Kim (Toronto ~ Canada)
- 11:48 01-5
Change in BMI after Kidney-Pancreas Transplantation in Patients with Type-1 and Type-2 Diabetes Mellitus
Hosein Shokouh-Amiri*, Rabar Mudhher, Marissa Di Napoli, Zina Agha, Neeraj Singh, Dean Abdehou, Gazi Zibari (Shreveport ~ United States Of America)
- 12:00 01-6
How Old is Old for Pancreas Transplantation
Angelika Gruessner*, Subodh Saggi, Rainer Gruessner (New York ~ United States of America)

MONDAY 16 JUNE 2025

- 12:08 01-7
Impact of Induction Therapy on Pancreas-Kidney Transplant Outcomes
Adriana Rodriguez-Gonzalo¹, **Enrique Montagud-Marrahi***¹, Joan Vidiella Martin¹, Blanca Martin Alvarez², Irving Gaston Ramirez³, Maria José Ramirez-Bajo¹, Joana Ferrer¹, Fritz Diekmann¹, Pedro Ventura-Aguir¹ (¹Barcelona ~ Spain, ²Valladolid ~ Spain, ³Mexico City ~ Mexico)
- 12:16 01-8
Heparin Thromboprophylaxis after Pancreas Transplantation Improves Outcomes: A Single-Center Experience
Georges Aboukasm¹, Juan Quiroz¹, Mahmoud Morsi¹, Ramona Nicolau-Raducu¹, Jose Maria Figueiro², George Burke¹, Rodrigo Vianna¹, **Mariella Ortigosa-Goggins***¹ (¹Miami ~ United States Of America, ²Washington DC ~ United States Of America)

MONDAY 16 JUNE 2025

MONDAY 16 JUNE 2025

11:00 - 12:30

Hall B

Next-Generation Islet Therapies: Advances in Stem Cells, Immune Modulation, and Beta-Cell Engineering

Chairs: Antonio Citro (ITA), Gregory Korbitt (CAN)

- 11:00 02-1
Creation of Non-Human Primate SC-Islets from Primary Islets for Allogeneic Transplantation
Guoping Li¹, Zhihong Yang¹, Yinsheng Xi¹, Hongping Deng¹, Zhenjuan Wang¹,
Qin Yang², James Markmann², Ji Lei^{*2} (¹Boston ~ United States of America, ²Philadelphia ~
United States of America)
- 11:12 02-2
Breaking Immune Evasion: NK Cell Surveillance of Hypoimmunogenic iPSC-Derived
Pancreatic Islets During Viral Infections
Gabriel Siracusano*, Raniero Chimienti, Carlotta Tacconi, Federica Deambrogio, Valeria Sordi,
Mauro Malnati, Marco De Giovanni, Lorenzo Piemonti (Milan ~ Italy)
- 11:24 02-3
Beta-Cell Differentiation and Proliferation of Adult Islet Progenitor Cells Mediated
by Exosomes Containing MicroRNA Released from Stressed Islets
Carly Darden, Jayachandra Kuncha, J Sebastian Danobeitia, Michael C Lawrence,
Bashoo Naziruddin* (Dallas ~ United States of America)
- 11:36 02-4
Diverse Hypoxia Resistance in Human Primary Islets and Stem Cell-Derived Islet Cells
Hiroyuki Kato¹, Kuang-Ming Shang², Tomoharu Suzuki³, Hiroaki Mitsugashira^{*1}, Meiri
geng Qi⁴, Taro Toyoda³, Yu-Chong Tai², Fouad Kandeel⁴, Hirotake Komatsu¹ (¹San
Francisco ~ United States of America, ²Pasadena ~ United States of America, ³Kyoto ~
Japan, ⁴Duarte ~ United States of America)
- 11:48 02-5
Deciphering Senescence Dynamics in iPSC-Derived B Cells and Their Functional Implications
Laura Monaco^{*1}, Chiara Ceriani^[1], Valentina Zamarian¹, Manuela Marras¹, Federica
Deambrogio¹, Giorgia Fulgini¹, Cecilia Masiero¹, Kanako Iwasaki², Cristina
Aguayo-Mazzucato², Lorenzo Piemonti¹, Valeria Sordi¹ (¹Milan ~ Italy, ²Boston ~ United States
of America)

MONDAY 16 JUNE 2025

- 12:00 02-6
Generation of Functional Islet Cell Organoids from Adult Multipotent Islet Progenitor Cells
Isolated During Islet Autotransplantation
Jayachandra Kuncha, Carly M Darden, Jeffrey Kirkland, Bashoo Naziruddin*,
Michael C Lawrence (Dallas ~ United States of America)
- 12:08 02-7
A Biologically Relevant Substrate For HPSC-Derived B-Cells and Primary Islets
Chiara Annunziata^{*1}, Noah Fereydouni¹, Evan Lee Graham², Karen Brown², Katie
Payte², Sandra Falci¹, Sam Hobson¹, Malin Kele¹, Therese Kallur² (¹Stockholm ~
Sweden, ²Cambridge ~ United States of America)
- 12:16 02-8
Probeta - A Protocol for Rapid Optimized Beta Cell Generation from Human
Pluripotent Stem Cells
Jessie Barra, Austin Kratz, Andrew Macmillan-Ladd, Alex Baker, Roberto Castro Gutierrez,
Ali Shilleh, Adrienne Widener, Ed Phelps, Holger Russ* (Gainesville ~ United States of America)

MONDAY 16 JUNE 2025

MONDAY 16 JUNE 2025

11:00 - 12:30

Hall C

Bioengineering the Future of Diabetes Therapy: 3D Printing, Organoids, and Immune-Protective Implants

Chairs: Giovanni Vozzi (ITA), Ekaterine Berishvili (CH)

- 11:00 03-1
Human Vascularized Islet Organ (HVIO) as an Extracorporeal Model for the Study of Physio pathology and Drug Screening in Diabetes
Alessia Neroni^{*1}, Cataldo Pignatelli¹, Francesco Campo¹, Ilaria Marzinotto¹, Cristina Olgasi², Antonia Follenzi², Antonio Citro¹ (¹Milan ~ Italy, ²Novara ~ Italy)
- 11:12 03-2
Vascularized Endocrine Pancreas for Type 1 Diabetes
Kevin Bellofatto^{*1}, Fanny Lebreton¹, Antoine Marteyn¹, Reine Hanna¹, Juliette Bignard¹, Victor Galván-Chacón¹, Andrea Peloso¹, Philippe Compagnon¹, Vanguard Consortium¹, Ekaterine Berishvili² (¹Geneva ~ Switzerland, ²Tbilisi ~ Georgia)
- 11:24 03-3
Fresh 3D Printed ECM-Based Scaffolds Support Engraftment of Subcutaneously Transplanted Islets
Andrew Hudson, Patrick Bradley, Samuel Finkel, Katelynn Russ, Fatma Dogan, Hanane Ennajdaoui, Michael Graffeo, **Adam Feinberg**^{*} (Waltham ~ United States of America)
- 11:36 03-4
Engineering of Pancreatic Specific Endothelium for the Treatment of Diabetes
Rebecca Craig-Schapiro^{*}, Kevin Chen, Ge Li, Ryan Schreiner, Jesus Gomez-Salinerio, David Redmond, Shahin Rafii (New York ~ United States of America)
- 11:48 03-5
3D Bioprinting in Transplantology – The Bionic Pancreas as the Future of Medicine
Marta Klak^{*1}, Michal Wszola¹, Andrzej Berman¹, Sylwester Domanski¹, Tomasz Dobrzanski¹, Katarzyna Wozniak¹, Przemysław Wrochna¹, Dominika Ujazdowska¹, Dominika Piatek¹, Dominika Szkopek², Katarzyna Roszkowicz-ostrowska², Urszula Paslawska³, Robert Paslawski³, Kacper Nowak³, Lukasz Kownacki⁴, Jarosław Wolinski², Agnieszka Dobrzyn¹, Artur Kaminski¹, Wojciech Swieszkowski¹ (¹Warsaw ~ Poland, ²Jablonna ~ Poland, ³Wroclaw ~ Poland, ⁴Otwock ~ Poland)

MONDAY 16 JUNE 2025

- 12:00 03-6
Adoshell®, a Non-Fibrotic Encapsulation System for Human Islet Transplantation Without Immunosuppression
Ouardane Jouannot¹, Alexandre Martin¹, Julie Brun¹, Madeleine Frêlon¹, Camille Gautier¹, Guillaume Lefebvre¹, Romain Besnard¹, Clément Cocita¹, Claire Megret¹, Nicolas Laurent¹, **Anne-Lise Gaffuri**^{*1}, Martin Gaudier¹, Rosy Eloy¹, François Pattou², Olivier Soula¹ (¹Lyon ~ France, ²Lille ~ France)
- 12:08 03-7
Cell-Based Implant for Beta Cell Replacement Therapy
Carolin Hermanns^{*1}, Aylin Seedorf¹, Sami Mohammed¹, Timo Rademakers¹, John Nijenhuis¹, Pien Krijgsman¹, Julie Kerr-Conte¹, Aart Van Apeldoorn¹ (¹Maastricht ~ Netherlands, ²Lille ~ France)
- 12:16 03-8
3D Bioprinted Scaffolds Containing Immunomodulatory Human Mesenchymal Stem Cells (HUCMS)
Raffaele Contini^{*}, Giovanni Luca, Giuseppe Basta, Riccardo Calafiore (Perugia ~ Italy)

MONDAY 16 JUNE 2025

11:00 - 12:30

Hall D

Innovations in Islet Transplantation: From Biofabrication to Immunosuppressive Strategies and Clinical Outcomes

Chairs: Julie Kerr-Conte (FR), Hirotake Komatsu (USA)

- 11:00 04-1
Biofabrication of a Xenogenic Vascularized Islet Organ (BIO-VIO) for Type 1 Diabetes
Matteo Monieri^{*1}, Alice Chirichelli¹, Francesco Campo¹, Margherita Fina¹, Sofia Cochi¹, Elisabeth Kemer², Eckhard Wolf², Lorenzo Piemonti¹, Antonio Citro¹
(¹Milan ~ Italy, ²Munich ~ Germany)
- 11:12 04-2
Role of Immunosuppression and TNF-Alpha Inhibition in Outcomes of Islet-Alone and Islet-After-Kidney Transplantation: Report from the Collaborative Islet Transplant Registry
David Baidal^{*1}, Adam Brand², Elizabeth Payne², Cassandra Ballou², Lawrence Hunsicker³, Rodolfo Alejandro¹, Michael Rickels⁴ (¹Miami ~ United States of America, ²Rockville ~ United States of America, ³Iowa City ~ United States of America, ⁴Philadelphia ~ United States of America)
- 11:24 04-3
Tegoprubart as Cd40l Co-Stimulation Blockade in a Non-Toxic Calcineurin Inhibitor-Free Immunosuppression for Beta Cell Replacement Therapy: Preliminary Results from a Pilot Clinical Study
Nicole Wojcik^{*}, Nathan Appelbaum, Alexandra Juszczak, Braden Juengel, Lindsay Basto, Minelly Escobedo, Ling-Jia Wang, Martin Tibudan, Tanya Klein, Rolf Barth, John Fung, Piotr Witkowski (Chicago ~ United States of America)
- 11:36 04-4
The Characteristics of Cultured Porcine Islets
Sakata Naoaki^{*}, Kawakami Ryo, Yoshimatsu Gumpei, Kodama Shohta (Fukuoka ~ Japan)
- 11:48 04-5
Revision of Organ Allocation Policies and Ethical Considerations for the Future of Islet Transplantation Using Cryopreserved Human Stem Cell-Derived Beta Clusters and Isolated Pancreatic Islets
Joseph Sushil Rao^{*}, John C Bischof, Erik B Finger, Susan Wolf, Timothy L Pruett
(Minneapolis ~ United States of America)
- 12:00 04-6
SR-02, a Pancreatic Islet Replacement Therapy Transplanted to the Omentum
William Rust^{*}, Carole Welsch, Rosemary Mazanet (Germantown ~ United States of America)

MONDAY 16 JUNE 2025

- 12:08 04-7
Risk of Procedure-Related Complications in a Single-Centre Cohort of Islet-After-Kidney Transplant Recipients
Roxanna D Hauck^{*}, Michiel F Nijhoff, Laurens H Pierik, Carla SP Van Rijswijk, Arian R Van Erkel, Rutger W Van Der Meer, Eelco JP De Koning, Mark C Burgmans (Leiden ~ Netherlands)
- 12:16 04-8
15 Years of the Scottish Islet Transplant Programme: An Evolving Landscape
Kirsty Duncan^{*1}, Lora Irvine¹, Alan Timpson¹, Debbie Anderson¹, Lewis Simmonds², Victoria Prior¹, Phillips Melanie¹, Adam Stanley¹, David Turner¹, Paul Phelan¹, Shareen Forbes¹, Shareen Forbes¹, Andrew Sutherland¹, John Casey¹
(¹Edinburgh ~ United Kingdom, ²Bristol ~ United Kingdom)

MONDAY 16 JUNE 2025

MONDAY 16 JUNE 2025

16:00 - 17:30

Hall A

Innovations and Risk Management in Pancreas Transplantation:

Toward Safer and More Personalized Care

Chairs: Nicola Guglielmo (ITA), Carmelo Puliatti (ITA)

- 16:00 05-1
No Blood? No Problem: Blood-Free Perfusion Human and Porcine Pancreases – A Feasibility Study
Catherine Parmentier*, Justin Manuel, Hongtao Gu, Herbert Gaisano, Fei Kang, Kun Wang, Heedong Jeon, Francisco Calderon-Novoa, Kenji Nakamura, Sujani Ganesh, Christian Hobeika, Sangeetha Kalimuthu, Samrat Ray, Qing Rui Qu, Emma Mizdrak, Markus Selzner, Trevor Reichman (Toronto ~ Canada)
- 16:12 05-2
Impact of Perfusion with Methylene Blue on Perioperative Bleeding in Simultaneous Pancreas and Kidney Transplantation
Amy Hort, **Swe Phyo***, Paul Robertson, Henry Pleass (Sydney ~ Australia)
- 16:24 05-3
Impact of Donor Substance Use on Outcomes after Pancreas Transplant
Sarah Huber, Richard Mangus, Andrew Lutz, John Powelson, **Jonathan Fridell*** (Indianapolis ~ United States of America)
- 16:36 05-5
Six Years Evaluation of Percutaneous Pancreas Graft Biopsies, Rejection Factors and Allograft Survival
Mariia Bibik*, Jan Kopecky, Terezia Havrdova, Ludek Voska, Barbora Hagerf, Jiri Veleba, Kvetoslav Lipar, Frantisek Saudek, Peter Girman (Prague ~ Czech Republic)
- 16:48 05-6
Optimizing Outcomes in Simultaneous Pancreas-Kidney Transplantation: A Decade of Growth in Simultaneous Pancreas-Kidney Transplantation at a Leading National Pancreas Transplant Center
Sai Praneeth Reddy Perugu*, Ashish Sharma, Devprakash Chaudhary, Deepesh B Kenwar, Sarbpreet Singh, Shiva Kumar S Patil, Arun Panjathia, Karthik Nvkn, Bharat Bamaniya, Amit Sharma, Sanjeev Chauhan, Abhilash Tirkey, Belmin J Winston (Chandigarh ~ India)
- 16:56 05-7
Pregnancy Outcomes Following Pancreas Transplantation: A Single Center Experience
Joohee Jung*, Younghoon Kim (Seoul ~ Republic of Korea)

MONDAY 16 JUNE 2025

- 17:04 05-8
A Preventive Strategy for Thrombotic Graft Failure in Pancreas Transplantation
Byunghyun Choi* (Yongsan ~ Republic of Korea)
- 17:12 14-3
Collection of Human Pancreatic Microvessel Fragments with Islets During Transplant Improved Islet Engraftment and Diabetes Reversal: Crosstalk Signaling Mechanisms that Regulate Intra-Islet Endothelial Cells Survival and Islet Microcirculation
Krishnakumar Samaga¹, Jaimie Nathan¹, **Balamurugan N Appakalai***² (¹Columbus ~ United States of America, ²Louisville ~ United States of America)

MONDAY 16 JUNE 2025

16:00 - 17:30

Hall B

Optimizing Islet Transplantation: Innovations in Isolation, Engraftment, and Alternative Implantation Strategies

Chairs: Emanuele Kauffman (ITA), Ahsen Chaudhry (CAN)

- 16:00 06-1
Alternative Method for Human Islet Purification Using Sepax
Julie Kerr-Conte*, Naziha Menasra, Gianni Pasquetti, Valery Gmyr, Nathalie Delalleau, Valentin Lericque, Anais Coddeville, Pauline Petit, Julien Thevenet, Arnaud Hassen, Eva Gruson, Mikael Chetboun, Marie-Christine Vantyghem, Francois Pattou (Lille ~ France)
- 16:12 06-2
In Vitro Secretory Function of Human Pancreatic Islets from Discarded Organs
Nizar Mourad*, Antoine Buemi (Brussels ~ Belgium)
- 16:24 06-3
First in Human Study of Intra-Cutaneous Islet Transplant into Pre-Vascularised Novosorb® Neodermis: 12 Month Results of the INCEPTR Trial
P Toby Coates*¹, John Greenwood ¹, Colleen Etherton¹, Alice Rickard¹, Thomas Kay², Tom Loudovaris², David Torpy¹, Elizabeth Concannon¹, Daniella Penko¹, Jodie Nitschke¹, Svjetlana Kireta ¹, Julie Johnston ¹, Patrick Coughlan ¹, Shane Grey³, Christopher Drogemuller¹ (¹Adelaide ~ Australia, ²Melbourne ~ Australia, ³Sydney ~ Australia)
- 16:36 06-4
Screening Extrahepatic Implantation Sites for Islets Encapsulated in a Thin-Film Microwell Device in a Preclinical Minipig Model
Rick De Vries¹, Sami Gemal Mohammed¹, Carolin Hermanns¹, Maarten Tol², Thomas Hubert³, **Aart Van Apeldoorn***¹ (¹Maastricht ~ Netherlands, ²Leiden ~ Netherlands, ³Lille ~ France)
- 16:48 06-5
Mesenchymal Stromal Cell-Mediated Vascularization Enhances Islet Engraftment and Function in the Subcutaneous Space
Nerea Cuesta-Gomez*, Purushothaman Kuppan, Arghyadip Bose, Joy Paramor, Jessica Worton, Karen Seeberger, Chelsea Castro, Mandy Rosko, Andrew R Pepper, Gregory S Korbitt (Edmonton ~ Canada)

MONDAY 16 JUNE 2025

- 17:00 06-6
Apoptotic BMSCS Reduce Grafted Islets Apoptosis Through the HOLO-LCN2/SLC22A17/FE3+ AXIS
Lu Cuinan*, Wang Jingwen, Wang Ying, Wang Jiale, Ding Xiaoming (Xi'an ~ China)
- 17:08 06-7
Long-Term Culture of Pancreatic Islets Impairs Metal Ion Gene Signatures Beyond Their Phenotypic Characteristics
Hiroyuki Kato¹, Mona Sheta¹, Tara Sigdel¹, Keiko Omori², Meirigeng Qi², Fouad Kandeel², **Hirotake Komatsu***¹ (¹San Francisco ~ United States of America, ²Duarte ~ United States of America)
- 17:16 06-8
Isolation, Characterization and Distribution of Human Pancreatic Islets for Research
Nizar Mourad, Antoine Buemi* (Brussels ~ Belgium)

MONDAY 16 JUNE 2025

MONDAY 16 JUNE 2025

16:00 - 17:30

Hall C

Immunoengineering for Islet Transplantation: Strategies for Tolerance, Protection, and Graft Survival

Chairs: Niccolò Napoli (ITA), Klearchos Papas (USA)

- 16:00 07-1
Single-Cell Mass Cytometry Reveals Preponderance of EGFR-Expressing Exhausted CD8+ T-Cells in NHPS Made Tolerant to Islet Transplants
Devanjan Dey*, Adam Herman, Anna Tran, Samuel Menge, Ahmed Mourad, Partahsarathy Rangarajan, Shilpi Singh, Magie Steinhoff, Gatikrushna Singh, Melanie Graham, Sabarinathan Ramachandran, Bernard J Hering, Amar Singh (Minneapolis, Minnesota ~ United States of America)
- 16:12 07-2
A Perfusable Encapsulation Device Scaled for Clinically Relevant Therapeutic Islet Doses Shows Rapid Insulin Response In Vitro And Acute Safety In Pig Transplantation Model
Daria Vdovenko*², Saleth Sidharthan², Jonathan Brassard², Jean Ruel³, André Bégin-drolet³, Steven Paraskevas¹, Marco Gasparrini¹, Richard Leask², Timothy J Kieffer⁴, Corinne Hoesli² (¹Montréal ~ Canada, ²Montreal ~ Canada, ³Laval ~ Canada, ⁴Vancouver ~ Canada)
- 16:24 07-3
Anti-Inflammatory Potential of Ex-Vivo Generated Donor Antigen-Specific Immunomodulatory Cells on Pancreatic Islet Transplantation
Masaaki Watanabe*, Agustina Forgioni, Ryoichi Goto, Takuji Ota, Takuya Harada, Tsuyoshi Shimamura, Akinobu Taketomi (Sapporo ~ Japan)
- 16:36 07-4
Advancing Islet and Cell Transplantation: Microporous Annealed Particle (MAP) Gel as a Scaffold for Enhanced Engraftment and Immunomodulation
Mingyang Ma, Preeti Chhabra, Juliana Bates, Donald Griffin, **Kenneth Brayman*** (Charlottesville ~ United States of America)
- 16:48 07-5
Proteogenomic Discovery of Novel Open Reading Frames with HLA Immune Presentation on Human Beta Cells
Kathryn Walters¹, Roberto Castro-Guiterrez², Soumyadeep Sarkar³, Amber Baldwin¹, Alex Baker², Ali Shilleh¹, Amanda Anderson¹, Nakayama Maki¹, Tim Fugman⁴, Ernesto Nakayasu³, Neel Mukherjee¹, Holger Russ^{*2} (¹Aurora ~ United States of America, ²Gainesville ~ United States of America, ³Richland ~ United States of America, ⁴Giessen ~ Germany)

MONDAY 16 JUNE 2025

- 17:00 07-6
Both PD-L1 and Humoral Factors from Dental Pulp Stem Cells Regulate the Immune Response of Human PBMC Against Human Insulin-Producing Cells
Kohei Ishiyama*, Makoto Kato, Shin Tsunekawa, Yuko Miwa, Kenta Iwasaki, Hideki Kamiya, Takaaki Kobayashi (Nagakute, Aichi ~ Japan)
- 17:08 07-7
Investigation of the Efficacy and Optimal Administration Route of Regulatory T Cell Therapy in Subcutaneous Islet Transplantation
Aya Izuwa*, Takayuki Anazawa, Kei Yamane, Norio Emoto, Hang Su, Kouki Kurahashi, Satoshi Ishida, Jialin Cui, Hatano Etsuro (Kyoto ~ Japan)
- 17:16 07-8
Engineering Islets for Tolerance with Protective Genes: Update on a First in Human Safety Study with BABS-AAV2-A20
Shane Grey*¹, John Greenwood², Leszek Lisowski³, Colleen Etherton², Thomas Kay⁴, Thomas Loudovaris⁴, David Torpy², Elizabeth Concannon², Daniella Penko², Jodie Nitschke², Julie Johnston², Chris Drogemuller², Ian Alexander², Toby Coates² (¹Sydney ~ Australia, ²Adelaide ~ Australia, ³Westmead ~ Australia, ⁴Melbourne ~ Australia)

MONDAY 16 JUNE 2025

MONDAY 16 JUNE 2025

16:00 - 17:30

Hall D

Long-Term Outcomes and Insights in Islet Autotransplantation: Clinical, Biological, and Socioeconomic Perspectives

Chairs: **Bashoo Naziruddin** (USA), **Melena Bellin** (USA)

- 16:00 08-1
Most Patients Retain Islet Function >5 Years Post-TPIAT: Data from the Long-Term Islet Function and Impact After TPIAT (LIFT) Study
Karthik Ramanathan, Anne Eaton, Srinath Chinnakotla, David Martin, Emily Scheidecker, Lucas Kozitza, Marie Cook, Peggy Ptacek, Guru Trikudanathan, Martin Freeman, Elissa Downs, Sarah Jane Schwarzenberg, Gregory Beilman, **Melena Bellin***
(Minneapolis ~ United States of America)
- 16:12 08-2
Association of Liver Biopsy Findings Before Total Pancreatectomy and Islet Auto-Transplantation (TPIAT) With Islet Graft Functional Outcomes
Ibrahim Fathi*¹, Elissa Downs², Guru Trikudanathan², Sarah Schwarzenberg², Martin Freeman², Srinath Chinnakotla², David Martin², Karthik Ramanathan², Greg Beilman², Melena Bellin² (¹Alexandria ~ Egypt, ²Minneapolis, MN ~ United States of America)
- 16:24 08-4
The Epidemiology and Genome Bioinformatics Analyses of Hereditary Pancreatitis in Australia
Denghao Wu*, Zuiani James, Colleen Etherton, Chris Drogemuller, De Sousa Sunita, Toby Coates (Adelaide ~ Australia)
- 16:36 08-5
Efficacy of Intramuscular Autologous Islet Transplantation After Extended Pancreatectomy
Mikael Chetboun*¹, Frederique Defrance¹, Valery Gmyr¹, Violeta Raverdy¹, Mehdi Maanaoui¹, Nathalie Delalleau¹, Anais Codeville¹, Julien Thevenet¹, Gianni Pasquetti¹, Aurélie Lobez¹, Thomas Hubert¹, Robert Caiazzo¹, Jean Marc Regimbeau², Michel Scotte³, Alain Sauvanet⁴, Jean Robert Delpero⁵, Julie Kerr-Conte¹, Marie-Christine Vantghem¹, Francois Pattou¹ (¹Lille ~ France, ²Amiens ~ France, ³Rouen ~ France, ⁴Clichy ~ France, ⁵Marseille ~ France)
- 16:48 08-6
Socioeconomic and Racial Disparities in Outcomes Following Total Pancreatectomy with Islet Autotransplantation
Juan Danobeitia*, Carly Darden, Amar Gupta, Seung Hee Lee, Giovanna Saracino, Giuliano Testa, Ernest Beecherl, Bashoo Naziruddin (Dallas ~ United States of America)

MONDAY 16 JUNE 2025

- 16:56 08-7
Impact of Total Pancreatectomy and Islet Auto Transplantation (TPIAT) on South Australian Hospital Admission Rates
Colleen J Etherton*¹, Alice N N Rickard¹, Christopher J Drogemuller¹, Sanjeev Khurana¹, Richard L T Couper¹, John W Chen¹, Thomas Loudovaris², Gorjana Radisic¹, Denghao Wu¹, Sadia Jahan¹, Patrick Toby Coates¹
(¹Adelaide ~ Australia, ²Melbourne ~ Australia)
- 17:04 08-8
Islet Autotransplantation After Total Pancreatectomy for Malignant Disease
Carlo Lombardo*¹, Allegra Ripolli¹, Michael Ginesini¹, Virginia Viti¹, Niccolo Napoli¹, Emanuele Federico Kauffmann¹, Lucrezia Lami¹, Elena Annunziata¹, Francesco Daviddi¹, Roberto Cioni¹, Piero Marchetti¹, Daniela Campani¹, Giandomenico Biancofiore¹, Thierry Berney², Ugo Boggi¹ (¹Pisa ~ Italy, ²Geneva ~ Switzerland)

TUESDAY 17 JUNE 2025

11:00 - 12:30

Hall A

Evolving Frontiers in Pancreas Transplantation: From Molecular Insights to Complex Clinical Scenarios

Chairs: Stefano Partelli (ITA), Massimiliano Veroux (ITA)

- 11:00 09-1
Gene Expression Profile in Pancreas Transplantation
Maria Jose Ramirez-bajo¹, Jordi Rovira¹, Ruben Lopez-aladid¹,
Elisenda Banon-maneus¹, Natalia Hierro-Garcia¹, Miriam Cuatrecasas¹,
M Ángeles García-Criado¹, Enrique Montagud-Marrahi¹, Steve Kleiboeker²,
Alejandro Alvaro-Meca³, Antonio J Amor¹, Joana Ferrer-Fàbrega¹, Fritz Diekmann¹,
Pedro Ventura-Aguilar*¹ (¹Barcelona ~ Spain, ²Framingham ~ United States of America,
³Madrid ~ Spain)
- 11:12 09-2
Graft Pancreatitis After Pancreas Transplantation: Application of the International
Study Group for Pancreatic Surgery (ISGPS) Definition of Post-Pancreatectomy
Acute Pancreatitis
Valentina Andreasi*, Stefano Partelli, Valentina Tomajer, Domenico Tamburrino,
Rossana Caldara, Davide Catarinella, Paolo Rigotti, Lorenzo Piemonti,
Massimo Falconi (Milan ~ Italy)
- 11:24 09-3
Retransplantation of the Pancreas for Recurrence of Autoimmunity
After Kidney-Pancreas Transplantation
George Burke*¹, Francesco Vendrame¹, Mariella Ortigosa-Goggins¹,
Gaetano Ciancio¹, Alberto Pugliese² (¹Miami ~ United States of America,
²Duarte ~ United States of America)
- 11:36 09-4
Belatacept in Pancreas Transplant Patients with Declining Renal Function
Jeanne Chen, Richard Mangus, Muhammad Yaqub, Asif Sharfuddin,
John Powelson, Andrew Lutz, **Jonathan Fridell*** (Indianapolis ~ United States of America)
- 11:48 09-5
Metabolic and Macrovascular Outcomes Following Simultaneous Pancreas-Kidney
and Kidney Transplantation Alone in Recipients with Type I Diabetes Mellitus
Harsham Choksi, Rowan Klein Nulend, Tess Cooper, Eric Au, Henry Pleass,
Natasha Rogers* (Sydney ~ Australia)
- 12:00 09-6
Simultaneous Pancreas and Two-Kidney Transplantation: The First Experience in Korea
Su Hyun Ju*, Byunghyun Choi (Yangsan ~ Republic of Korea)

TUESDAY 17 JUNE 2025

- 12:08 09-7
Early Post-Operative Outcomes in 423 Pancreas Transplantations
Stratified by Donor Age
Emanuele Federico Kauffmann*, Niccolo Napoli, Michael Ginesini,
Virginia Viti, Allegra Ripolli, Elena Annunziata, Ugo Boggi (Pisa ~ Italy)
- 12:16 09-8
Impact of Persistent Opioid Use on Survival Outcomes and Risk Factors
for Opioid Addiction in Pancreas Transplant Recipients
Hyunwook Kwon, **Youngmin Ko*** (Seoul ~ Republic of Korea)

TUESDAY 17 JUNE 2025

11:00 - 12:30

Hall B

Advancing Stem Cell-Derived Beta Cell Therapies: Engineering Function, Protection, and Scalable Solutions

Chairs: Shadab Abadpour (NOR), Alessandro Mattina (ITA)

- 11:00 10-1
Epigenetic Regulation to Improve Regeneration of Glucose-Responsive B-Like Cells
Keith Al-Hasani^{*1}, Safiya Naina Marikar², Harikrishnan Kaipananickal², Scott Maxwell², Jun Okabe², Ishant Khurana², Thomas Karagiannis², Julia J Liang², Lyana Ang², Caroline Frørup², Ram Abou Zaki², Lina Mariana², Thomas Loudovaris², Rebecca Spiers¹, Paul Johnson¹, Thomas Kay², Sam El-Osta² (¹Oxford ~ United Kingdom, ²Melbourne ~ Australia)
- 11:12 10-2
Generating Amyloid Resistant Stem Cell-Derived Beta Cells to Improve Islet Transplant Outcomes in Type 1 Diabetes
Saumadrita Kar^{*}, Paul C Orban, Shugo Sasaki, Derek Dai, Galina Soukhatcheva, Francis C Lynn, Bruce C Verchere (Vancouver ~ Canada)
- 11:24 10-3
Overexpression of CD155 In Human Stem Cell-Derived Beta-Cells Diminishes Autoreactive T Cell Responses
Jessie Barra^{*}, Matthew Brown, Marcus Pina, James Proia, Todd Brusko, Holger Russ (Gainesville ~ United States of America)
- 11:36 10-4
Endodermal Stem Cell-Derived Islet Transplantation for Diabetes: Safety and Efficacy in T1d and T2d Patients
Hao Yin^{*}, Xin Cheng, Yifan Feng (Shanghai ~ China)
- 11:48 10-5
Mitochondrial Ros Scavenger Promotes Endocrine Commitment by Suppressing Arachidonic Acid and 12-HETE Metabolism
Huanjing Bi^{*}, Ruiyang Ma, Boqing Dong, Zuhao Chen, Jin Zheng, Yang Li, Xiaoming Ding (Xi'an ~ China)
- 12:00 10-6
Enabling Allogenic Cell Therapy Using Bioprinted Synthetic Polymers
Harald Stöver^{*} (Hamilton ~ Canada)

TUESDAY 17 JUNE 2025

- 12:08 10-7
Closed Culture Systems for Stem Cell-Derived Islet Biomanufacturing
Corinne A Hoesli^{*1}, Praveen Pedabaliyarasimhuni¹, Balaji Ramachandran¹, Will Se Yoon¹, Florent Lemaire¹, Pierre-Luc Girard-Lauriault¹, Lyne Khair², Katie Campbell², Nicolas Drolet², Steven Paraskevas¹ (¹Montreal ~ Canada, ²Northborough ~ United States of America)
- 12:16 10-8
Pluripotent Stem Cell-Derived Islet Encapsulation in Alginate Beads via a Scalable Emulsion-Based Process
Marie Billaud^{*}, Arianna Castro Rojas, Florent Lemaire, Jonathan Brassard, Corinne Hoesli (Montréal ~ Canada)

TUESDAY 17 JUNE 2025

TUESDAY 17 JUNE 2025

11:00 - 12:30

Hall C

Advances in Islet Autotransplantation: Clinical Outcomes, Mechanisms, and Evolving Surgical Strategies

Chairs: **Emanuele Marciano** (ITA), **Maurizio Iaria** (ITA)

- 11:00 11-1
Allogeneic Pancreas Transplantation Followed by Transplant Pancreatectomy and Islet Alloautotransplantation - A Case Series
Michiel Nijhoff*, Volkert Huurman, Marten Engelse, Eelco De Koning (Leiden ~ Netherlands)
- 11:12 11-2
Comparative Analysis of Islet Auto-Transplantation Outcome Classification Systems: Evaluating Concordance, Feasibility, and a Data-Driven Approach
Davide Catarinella, Paola Magistretti, Raffaella Melzi, Alessia Mercalli, Stefano Tentori, Chiara Gremizzi, Vera Paloschi, Simona Sala, Libera Valla, Sabrina Costa, Francesca Aleotti, Francesco De Cobelli, Rossana Caldara, **Lorenzo Piemonti*** (Milan ~ Italy)
- 11:24 11-3
Understanding Hereditary Pancreatitis: Patient Organoids Compliment Spatial Transcriptomic Analysis
James Zuiani*¹, Denghao Wu¹, Michael Roach¹, Tracy Putoczki², Mohamed Saad¹, Luciano Martelotto¹, Feargal Ryan¹, Chris Drogemuller¹, Griffith Perkins¹, Toby Coates¹ (¹Adelaide ~ Australia, ²Melbourne ~ Australia)
- 11:36 11-4
Evolution of TPAIT Outcomes Following Adoption of the NIDDK/Rosemont Criteria: Insights from a Large Single-Center Cohort
Juan Danobeitia*, Carly Darden, Amar Gupta, Seung Hee Lee, Shumei Meng, Giovanna Saracino, Giuliano Testa, Ernest Beecherl, Bashoo Naziruddin (Dallas ~ United States of America)
- 11:48 11-5
Islet Autotransplant Recipients Have Elevated Proinsulin: C-Peptide Ratios Supporting Metabolic Stress as a Cause of Islet Attrition
Anne Eaton¹, Karthik Ramanathan¹, David Martin¹, Ekram Ali¹, Srinath Chinnakotla¹, Gregory Beilman¹, Carmella Evans-Molina², Michael Rickels³, **Melena Bellin***¹ (¹Minneapolis ~ United States of America, ²Indianapolis ~ United States of America, ³Philadelphia ~ United States of America)

TUESDAY 17 JUNE 2025

- 12:00 11-6
Continuous Glucose Monitoring and Assessment of Long-Term Islet Function In Autologous Islet Transplantation After Total Pancreatectomy for Pancreatic Neoplasia: Preliminary Data from the Verona Cohort
Alessandro Csermely*¹, Gabriella Lionetto¹, Martina Pilati¹, Anna Turazzini¹, Sara S Sheiban¹, Manuel Colombini¹, Federica Nocilla¹, Martina Fontana¹, Raffaella Melzi², Rita Nano², Alessandro Mantovani¹, Riccardo C Bonadonna¹, Maddalena Trombetta¹, Lorenzo Piemonti², Massimiliano Tuveri³, Roberto Salvia¹ (¹Verona ~ Italy, ²Milan ~ Italy, ³Cagliari ~ Italy)
- 12:08 11-7
Islet Autotransplantation in Focal Intraductal Papillary Mucinous Neoplasms: Evaluating Feasibility, Safety, and Metabolic Outcomes in Pancreatic Resection
Francesca Aleotti*, Raffaella Melzi, Alessia Mercalli, Stefano Crippa, Davide Catarinella, Marco Schiavo Lena, Stefano Partelli, Rossana Caldara, Massimo Falconi, Lorenzo Piemonti (Milan ~ Italy)
- 12:16 11-8
Preservation of Islet Secretory Function After Total Pancreatectomy and Islet Autotransplantation (TPIAT)
Maarten Tol, Willemijn De Vos, Marten Engelse, Arian Van Erkel, Michiel Nijhoff, **Volkert Huurman***, Eelco De Koning (Leiden ~ Netherlands)

TUESDAY 17 JUNE 2025

11:00 - 12:30

Hall D

Islet Transplantation: Long-Term Outcomes, Immunosuppression, and Novel Therapeutic Strategies

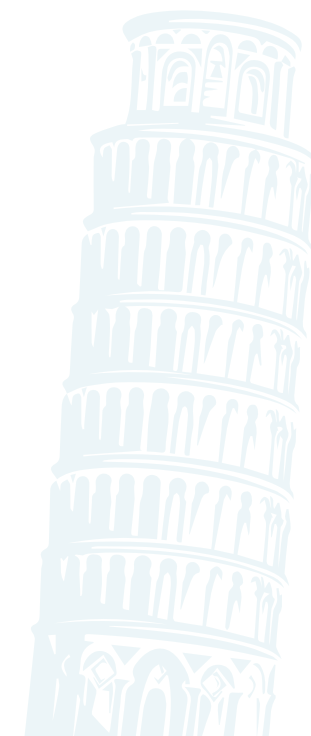
Chairs: Rossana Caldara (ITA), Peter Girman (CZ)

- 11:00 12-1
Simultaneous Islet-Kidney Transplantation as an Alternative for Patients Ineligible for Pancreas Transplant: Initial Experience at a North American Transplant Center
Catherine Parmentier^{*1}, Abdulmohsen Bakhsh², Paraish Misra¹, Justin Manuel¹, Hongtao Gu¹, Xue-zhong Ma¹, Shagani Thisairajah¹, Surina Arora¹, Cindy Lin¹, Jennifer Coleman¹, Zaneta Sawicka¹, Andrea Norgate¹, Elmar Jaeckel¹, Jeffrey Schiff¹, Chaya Shwaartz¹, Ian McGilvray¹, Markus Selzner¹, Trevor Reichman¹
(¹Toronto ~ Canada, ²Riyadh ~ Saudi Arabia)
- 11:12 12-2
Twenty-Year Single-Center Experience of Islet Transplantation Alone (ITA) for Type 1 Diabetes in Italy: Long-Term Outcomes
Davide Catarinella, **Costanza Festorazzi**^{*}, Raffaella Melzi, Alessia Mercalli, Paola Magi stretti, Stefano Tentori, Chiara Gremizzi, Vera Paloschi, Rossana Caldara, Lorenzo Piemonti (Milan ~ Italy)
- 11:24 12-3
Association Between Diabetes Quality of Life Survey Responses and Pre and Post Islet Transplant Clinical Parameters
Catherine Thornton, Harry Robertson, Patricia Anderson, Philip O'Connell, **Natasha Rogers**^{*} (Sydney ~ Australia)
- 11:36 12-4
Porcine Islet Xenotransplantation for Diabetic Japanese Monkey
Sakata Naoaki^{*}, Kawakami Ryo, Yoshimatsu Gumpei, Kodama Shohta (Fukuoka ~ Japan)
- 11:48 12-5
Similar Islet Graft Function with Fewer and Less Severe Side-Effects In Basiliximab Compared to Alemtuzumab Induction Immunosuppression for Islet Transplantation
Cyril Landstra^{*}, Roxanna Hauck, Willemijn De Vos, Rienke De Fijn, Jansen Sophie, Michiel Nijhoff, Eelco De Koning (Leiden ~ Netherlands)
- 12:00 12-6
Development of a High-Dimensional Flow Cytometry Assay to Assess Islet Composition
Jacqueline Schiesser^{*1}, Meg Elliott¹, Nazneen Adenwalla¹, Thomas Loudovaris², Edouard Stanley¹ (¹Parkville ~ Australia, ²Fitzroy ~ Australia)
- 12:08 12-7
Long-Term Effect of Basiliximab in Islet Dysfunction
Marie-Christine Vantyghem^{*}, Frédérique Defrance, Mikael Chetboun, Julie Kerr-Conte, François Pattou (Lille ~ France)

12:16

12-8

Persistence of Graft Function Following Discontinuation of Immunosuppression in an Islet Transplant Recipient on Chronic GLP-1 RA Therapy
David Baidal^{*}, Ana Alvarez, Nathalia Padilla, Melissa Willman, Norma Kenyon, Camillo Ricordi, Rodolfo Alejandro (Miami ~ United States of America)



TUESDAY 17 JUNE 2025

16:00 - 17:30

Hall A

Improving Outcomes in Pancreas Transplantation: Risk Stratification, Graft Function, and Clinical Innovation

Chairs: **Marcelo Perosa** (BRA), **Lucrezia Furian** (ITA)

- 16:00 13-1
Predictive Factors for Early Pancreas Graft Failure
Donzília Sousa Silva*, Carolina Robalo, António Canha, La Salete Martins, José Davide (Porto ~ Portugal)
- 16:12 13-2
Transcriptomic Signatures of Pancreas Acute Rejection Deciphered by RNA Sequencing of Pancreas Graft Biopsies
Maria Jose Ramirez-Bajo¹, Rovira Jordi¹, Elisenda Banon-Maneus¹, Ruben Lopez-Aladid¹, Enrique Montagud-Marrahi¹, Natalia Hierro-Garcia¹, Tim Swaab², Miriam Cuatrecasas¹, M Angeles Garcia-Criado¹, Joana Ferrer-Fàbrega¹, Alejandro Alvaro-Meca¹, Fritz Diekmann¹, Josep M Campistol¹, **Pedro Ventura-Aguilar***¹ (¹Barcelona ~ Spain, ²Groningen ~ Netherlands)
- 16:24 13-3
Graft Pancreatitis Following Simultaneous Pancreas-Kidney Transplantation: Presentation, Risk Factors and Outcomes
Oriana Ciaccio*¹, Gabriella Pittau¹, Chady Salloum¹, Daniel Pietrasz¹, Albane Brodin Sartorius², Bastien Parier², Thomas Breard¹, Renaud Snanoudj², Antonio Sa Cunha¹ (¹Villejuif ~ France, ²Kremlin Bicetre ~ France)
- 16:36 13-4
Expansion of the Donor Pool Through the Utilization of Acute Kidney Injury Donors in Simultaneous Pancreas-Kidney Transplantation: A Comparative Analysis
Fernanda Danziere*, Ana Elisa Pegoraro, Adriana Bortoluzzo, Maria Venezuela, Marcelo Perosa (Sao Paulo ~ Brazil)
- 16:48 13-5
Propensity Score Matching Analysis of Portal Versus Systemic Venous Drainage in Pancreas Transplantation Alone
Michael Ginesini*, Niccolò Napoli, Emanuele Federico Kauffmann, Virginia Viti, Allegra Ripolli, Lucrezia Lami, Ugo Boggi (Pisa ~ Italy)
- 17:00 13-6
Revitalizing Pancreas Transplant Programs: Quantifying the Impact of Implementing Best Practices
Ty Dunn*¹, Robert Redfield², Matthew Cooper¹, Emre Arpali¹, Ronald Parsons³ (¹Milwaukee ~ United States of America, ²Orange ~ United States of America, ³Philadelphia ~ United States of America)

TUESDAY 17 JUNE 2025

- 17:08 13-7
Kidney Delayed Graft Function in Simultaneous Pancreas-Kidney Transplantation: Risk Factors and Outcomes
Fernanda Danziere*, Ana Elisa Pegoraro, Maria Venezuela, Adriana Bortoluzzo, Marcelo Perosa (Sao Paulo ~ Brazil)
- 17:16 13-8
Pancreas Transplant Alone (PTA) in Subjects with Type 1 Diabetes (T1D): 20-Year Actual Follow-Up
Maria Rosaria Iacobelli*¹, Milena Scopelliti¹, Emanuele Federico Kauffmann¹, Carlo Lombardo¹, Alberto Coppelli¹, Rosa Giannarelli¹, Francesca Romana Femia¹, Perla Bresciani¹, Gabriella Amorese¹, Fabio Vistoli², Giuseppe Penno¹, Piero Marchetti¹, Ugo Boggi¹ (¹Pisa ~ Italy, ²L'Aquila ~ Italy)

TUESDAY 17 JUNE 2025

16:00 - 17:30

Hall B

Enhancing Islet Transplantation Success: From Isolation to Engraftment and Experimental Models

Chairs: Shane Grey (AUS), Joseph Sushil Rao (USA)

- 16:00 14-1
In Vitro Treatment-Upregulated NKX6.1 Expression in Human Islets Improves Islet Function Post Transplantation in Mouse
Gianni Pasquetti^{*1}, Julien Thévenet¹, Mikaël Chetboun¹, Anaïs Coddeville¹, Nathalie Delalleau¹, Valentin Lericque¹, Isaline Louvet¹, Chimène Amayene Amassgo¹, Jimmy Vandel¹, Natascha De Graaf², Françoise Carlotti², Eelco JP De Koning², Lorea Zubiaga¹, Isabel Gonzalez-Mariscal¹, Valéry Gmyr¹, Caroline Bonner¹, Marie-Christine Vantyghem¹, Thomas Hubert¹, François Pattou¹, Julie Kerr-Conte¹
(¹Lille ~ France, ²Leiden ~ Netherlands)
- 16:12 14-2
Exploring the Use of Cyclophosphamide-Induced Diabetes to Study Autoimmune-Driven Graft Rejection in NOD Mice
Kalia Burnette^{*1}, Sheila Tsau¹, Orion Peterson¹, Veronika Kozlovskaya², Eugenia Kharlampieva², Hubert Tse¹ (¹Kansas City ~ United States of America, ²Birmingham ~ United States of America)
- 16:24 14-4
Investigating the Subcutaneous Space as an Alternative Transplant Site for Islet Transplantation
Kalia Burnette^{*1}, Sheila Tsau¹, Orion Peterson¹, Hubert Tse¹, Andrew Pepper²
(¹Kansas City ~ United States of America, ²Edmonton ~ Canada)
- 16:36 14-5
Evaluation of Optimal Engraftment Sites for Human Stem Cell-Derived Islets in a Non-Human Primate Model
Yinsheng Xi¹, Qin Yang², Hongping Deng¹, Guoping Li¹, Zhihong Yang¹, Zhenjuan Wang¹, James Markmann², **Ji Lei**^{*2} (¹Boston ~ United States of America, ²Philadelphia ~ United States of America)
- 16:48 14-6
Initial Observations About the Effect of Different Adenosine Receptors on Isolated Human Islets
Daniel Brandhorst, Heide Brandhorst, Rebecca Spiers, Lucy Crawford, Kalina Bednarek, **Paul RV Johnson**^{*} (Oxford ~ United Kingdom)

TUESDAY 17 JUNE 2025

- 16:56 14-7
Refining Human Islet Isolation: Impact of Donor Characteristics and Isolation Techniques
Qin Yang¹, Yinsheng Xi², Hongping Deng², Zhihong Yang², Zhenjuan Wang², Guoping Li², James Markmann¹, **Ji Lei**^{*1} (¹Philadelphia ~ United States of America, ²Boston ~ United States of America)
- 17:04 14-8
Potentially Transplantable Pancreatic Grafts: Insights from an AI-Based Predictive Model
Keizo Kaku^{*}, Shinsuke Kubo, Akari Kaba, Kodai Shingaki, Yu Hisadome, Hiroshi Noguchi, Masafumi Nakamura (Fukuoka ~ Japan)

TUESDAY 17 JUNE 2025

16:00 - 17:30

Hall C

Immune Modulation and Molecular Strategies to Enhance Islet Graft Survival

Chairs: Paul Johnson (UK), Jessie Barra (USA)

- 16:00 15-1
Harnessing KIR/HLA (MIS) Matching to Predict Pancreatic Islet Transplant Outcomes
Raniero Chimienti^{*1}, Gabriel Siracusano¹, Raffaella Melzi¹, Stefano Tentori¹,
Rossana Caldara¹, Roberto Biassoni², Mauro Malnati¹, Lorenzo Piemonti¹
(¹Milan ~ Italy, ²Genoa ~ Italy)
- 16:00 15-2
Harnessing Amphiregulin-Coated TR1 Cell-Derived-Exosomes for Transplant Immunotherapy
Ahmed Mourad, Samuel Menge, Devanjan Dey, Shilpi Singh, Parthasarathy Rangarajan,
Anna Tran, Magie Steinhoff, Gatikrushna Singh, Melanie Graham, Bernhard Hering,
Sabarinathan Ramachandran, **Amar Singh**^{*} (Minneapolis ~ United States of America)
- 16:12 15-3
Endoplasmic Reticulum Stress Induced Hyperexpression Of MHC I and II in Human,
Rhesus and Cynomolgus Macaque Islets Increases Their Immunogenicity
Parthasarathy Rangarajan^{*1}, Anna Tran¹, Magie Steinhoff¹, Joseph Rao¹,
Devanjan Dey¹, Ahmed Mourad¹, Ramy Yassa¹, Adam Herman¹, Amar Singh¹,
Melanie Graham², Bernhard Hering¹, Sabarinathan Ramachandran¹
(¹Minneapolis ~ United States of America, ²Saint Paul ~ United States of America)
- 16:24 15-4
Boosting Islet Graft Survival with IL-13: A Novel Approach
Mingyang Ma, Jack Cook, **Kenneth Brayman**^{*}, Preeti Chhabra (Charlottesville ~
United States of America)
- 16:36 15-5
Destruction of Autologous Islet Grafts in Diabetic NOD Mice is Prevented by
JAK1/JAK2 Inhibition
Thomas Kay, Laura Sanz, Lilian Wong, Seigmund Lai, Tara Caterall, Prerak Trivedi,
Lilian Giang^{*} (Fitzroy ~ Australia)
- 16:48 15-6
A Novel Strategy to Alleviate Peri-Transplant Inflammation Using Anti-IBMIR Aptamers
Jagan Kalivarathan, Anusha Soni, Yatri Patel, Soma Dhakal, Roaa Mahmoud,
Brian Fuglestad, Abdul Castillo, Prathab Balaji Saravanan, Shujaiddin Mohammed,
Aamir Khan, **Mazhar Kanak**^{*} (Richmond ~ United States of America)

TUESDAY 17 JUNE 2025

- 16:56 15-7
Surface Modification of Islets with Bissulfosuccinimidyl Suberate (BS3):
A Novel Nanoencapsulation Strategy
Jagan Kalivarathan, Shujaiddin Mohammed, Prathab Balaji Saravanan,
Soma Dhakal, Brian Fuglestad, Aamir Khan, **Mazhar Kanak**^{*}
(Richmond ~ United States of America)
- 17:04 15-8
Perturbations in Transplanted Islets Are Critical for Allo and Auto Immune
Response in Islet Transplant Recipients
Parthasarathy Rangarajan^{*2}, Joseph Sushil Rao², Anna Tran², Magie Steinhoff²,
Devanjan Dey², Ahmed Mourad², Ramy Yassa², Adam Herman², Amar Singh²,
Melanie Graham², Balamurugan N Appakalai¹, Melena Bellin², Erik Finger²,
Bernhard Hering², Sabarinathan Ramachandran² (¹Louisville, Kentucky ~
United States of America, ²Minneapolis ~ United States of America)

TUESDAY 17 JUNE 2025

16:00 - 17:30

Hall D

Advances in Pancreas Transplantation: Early Rejection, Assessment Technologies, and Optimizing Patient Outcomes

Chairs: **Luciano G. De Carlis** (ITA), **Niccolò Napoli** (ITA)

- 16:00 16-1
Decoding Early Transplant Graft Biopsies - A Transcriptomic Analysis of Pancreas Early Acute Rejection
Charlotte Franken, **Tim Swaab***, Jordi Rovira, Ivan Archilla, Mangeles Garcia-Criado, Joana Ferrer-Fàbrega, Fritz Diekmann, Maria Jose Ramirez-Bajo, Pedro Ventura-Aguiar (Barcelona ~ Spain)
- 16:12 16-2
Decoding Acute Rejection-Induced Islet Injury in Pancreas Transplantation
Tim Swaab*², Maria Jose Ramirez-Bajo¹, Alejandro Álvaro-Meca³, Charlotte Franken¹, Jordi Rovira¹, Elisenda Bañón-Maneus¹, Enrique Montagud-Marrahi¹, Ivan Archilla¹, Mangeles Garcia-Criado¹, Joana Ferrer-Fàbrega¹, Fritz Diekmann¹, Robert Pol², Pedro Ventura-Aguiar¹ (¹Barcelona ~ Spain, ²Groningen ~ Netherlands, ³Madrid ~ Spain)
- 16:24 16-3
From Vision to Precision: Real-Time Hyperspectral Assessment of Pancreatic Graft Perfusion and Implication to Venous Graft Thrombosis
Andrea Peloso*, Gabriella Pittau, Daniel Pietrasz, Chadi Salloum, Oriana Ciacio, Antonio Sa Cunha, Nicolas Golse (Paris ~ France)
- 16:36 16-4
Time to Revise Eligibility Criteria Based on Fasting C-Peptide Levels and Body Mass Index in Pancreas Transplantation: A Single Center Experience
Georges Aboukasm¹, Juan Quiroz¹, Mahmoud Morsi¹, Jose Maria Figueiro², George Burke¹, Rodrigo Vianna¹, **Mariella Ortigosa-Goggins***¹ (¹Miami ~ United States of America, ²Washington DC ~ United States of America)
- 16:48 16-5
Social Determinants Impact Pancreas Transplant Listing, Timing and Outcome
Angelika Gruessner*, Subodh Saggi, Rainer Gruessner (New York ~ United States of America)
- 17:00 16-7
Pancreas Graft Rejection. Comparison of Rejection Types and Outcomes in Patients with Hyperglycemia vs Normoglycemia
Pablo **Daniel Uva***, Alejandra Quevedo, Josefina Roses, Roxana Pilotti, María Fernanda Toniolo, Ignacio Carlos Cabrera, Eduardo Chuluyan (Buenos Aires ~ Argentina)

TUESDAY 17 JUNE 2025

- 17:08 16-8
Developing an Enhanced Recovery After Surgery (ERAS) Pathway for Patients Undergoing Simultaneous Pancreas-Kidney Transplant (SPK)
Anna Stout, Helen Usher, Victoria Banwell, **Andrew Sutherland***, Rachel Thomas (Edinburgh ~ United Kingdom)



POSTERS

POSTERS

- P-4
Factors Associated with Anxiety & Depression in Patients Post-TPIAT
Adeola Ishola*¹, Anne Eaton², Marina Basina¹, Gregory Beilman², Melena Bellin²
(¹Palo Alto ~ United States of America, ²Minneapolis ~ United States of America)
- P-6
Bone Mineral Density in Subjects on Waiting List for Pancreas or Islets of Langerhans Transplantation due to Hypoglycemia Unawareness Syndrome
Simona Kratochvilová*, Jana Brunová, František Saudek, Peter Girman (Prague ~ Czech Republic)
- P-7
Can Routine MMTT Following Pancreas Transplantation Reduce the Risk of Graft Failure?
Azarudeen Jalaludeen*¹, Rory Mcfadyen², Natasha O'Brien², Pratik Choudhary³, Martin Drage², Yee Cheah², Christopher Callaghan² (¹Oxford ~ United Kingdom, ²London ~ United Kingdom, ³Leicester ~ United Kingdom)
- P-8
Identification Of New Anti-Hla Antibody Specificities Post Covid-19 Vaccination
Silvia Fornaciari*, Emanuele Federico Kauffmann, Niccolò Napoli, Michael Ginesini, Ugo Boggi, Michele Curcio (Pisa ~ Italy)
- P-10
Structural and Functional Preliminary Assessment of an Encapsulation Device for B-Cells Spheroids Using a Semipermeable Membrane
Vitale Miceli, Salvatore Castelbuono, Nicola Cuscino, Giovanni Zito, Claudio Centi, Rosaria Tinnirello, Maura Cimino, Massimo Pinzani, Pier Giulio Conaldi, **Alessandro Mattina*** (Palermo ~ Italy)
- P-11
Targeting Islet Graft-Regulated Necrosis Using Necrostatin-1-Eluting Microparticles
Pulkit Kumar, **Joy Paramor***, Purushothaman Kuppan, Karen Seeberger, Ivan Ma, Chelsea Castro, Gregory Korbitt, Andrew Pepper (Edmonton ~ Canada)
- P-12
Prevascularization Strategies for Subcutaneous Islet Transplantation: Comparative Assessment of BFGF-Loaded Agarose Rods and Bioabsorbable Collagen-Gelatin Sheets
Kei Yamane*, Takayuki Anazawa, Aya Izuwa, Koki Kurahashi, Satoshi Ishida, Seiichiro Tada, Kenta Inoguchi, Norio Emoto, Jialin Cui, Etsuro Hatano (Kyoto ~ Japan)
- P-13
Enhancing Islet Resilience to Transplantation Stress: Prolactin, Adiponectin, and Necrostatin-1 as Potential Modulators
Isaura Beatriz Borges Silva*¹, Theo Borghuis¹, Mari Cleide Sogayar², Paul De Vos¹
(¹Groningen ~ Netherlands, ²São Paulo ~ Brazil)
- P-14
Effect of Senolytic Agent Treatment on Pancreatic Islets Isolated from 1,5 Year Old Lewis Rats
Jan Kríž*, Eva Fabryová, Lydie Plečtitá, Peter Girman, Veronika Tomsovska, Blanka Holendová, Sona Štemberková-Hubáčková (Prague ~ Czech Republic)

POSTERS

- P-15
Preservation of Islet Cell Function After Maastricht Category III Organ Procurement: A Comparative Analysis with Conventional Donation
Nathalie Delalleau*, Julien Thévenet, Anais Coddeville, Valery Gmyr, Pauline Petit, Gianni Pasquetti, Valentin Lericque, Arnaud Hanssen, Eva Gruson, Caroline Bonner, Mikael Chetboun, François Pattou, Julie Kerr-Conte (Lille ~ France)
- P-16
Using a Transient Cold Room During Cobe Islet Purification Reduces the Environmental Microbial Burden and Associated Energy Costs When Compared to the Use of a Permanent Cold Room
Lucy Crawford*, Kalina Bednarek, Katarzyna Marszalek, Rebecca M Spiers, Heide Brandhorst, Daniel Brandhorst, Paul R V Johnson (Oxford ~ United Kingdom)
- P-18
Development of Tissue-Engineered Islet Cell Sheet Supplemented with Adipose-Derived Stem Cells
Naoya Sato*, Ozeki Atsushi, Teruhide Ishigame, Yasuhide Kofunato, Takayasu Azuma, Ryota Sugawara, Kimura Takashi, Akira Kenjo, Shigeru Marubashi (Fukushima ~ Japan)
- P-19
Extracellular Vesicles from iPSC and iPSC-Derived B Cells to Induce Tolerance in Type 1 Diabetes Using a Biological Twin Model
Chiara Ceriani*, Valentina Zamarian, Benedetta Ferrara, Susanna Cesarano, Gabriel Siracusano, Raniero Chimienti, Valeria Sordi, Paolo Monti, Lorenzo Piemonti (Milan ~ Italy)
- P-20
Vav1 Regulates the PDX1/miR-375/Akt Network in Differentiation of hiPSCs to B-Cells: A Potential Target to Improve in Vitro Generation of Insulin Producing Cells
Marina Pierantoni*¹, Federica Brugnoli¹, Valentina Zamarian², Laura Monaco², Silvia Grassilli¹, Marcello Dell'aira¹, Valeria Sordi², Valeria Bertagnolo¹ (¹Ferrara ~ Italy, ²Milan ~ Italy)
- P-21
A Stamp Device for Agarose Microwell-Based 3D Culture: A Step Toward Insulin-Producing Organoids for Diabetes Studies and Cell Therapy
Henrique Capistrano-Melo, Isaura Beatriz Borges-Silva, Mari Cleide Sogayar, **Marluce Mantovani*** (Sao Paulo ~ Brazil)
- P-22
Generation of T Cell Receptor Transgenic Regulatory T Cells for Adoptive Therapy in Type 1 Diabetes
Susanna Cesarano*, Eliana Ruggiero, Paolo Monti, Chiara Bonini (Milan ~ Italy)
- P-23
Microparticles to Improve Islet Transplantation Outcomes in an Ex-Vivo Porcine Liver Model for Type 1 Diabetes
Valentina F Gai*¹, Piero Alberti¹, Sophie Walker¹, Carolyn Cairns¹, Mohamed Elzawahry², Peter Friend², Lisa White³, Forbes Shareen¹, Andrew Sutherland¹ (¹Edinburgh ~ United Kingdom, ²Oxford ~ United Kingdom, ³Nottingham ~ United Kingdom)



THE SCIENCE *of* POSSIBILITY

SOCIAL EVENTS



SOCIAL EVENTS

Welcome Ceremony

Sunday 15 June

17:30 – 20:00 hrs

Teatro Verdi – Via Palestro 40

The Opening Ceremony will be held at the Teatro Verdi, Pisa's main opera house, located in the heart of the city. Opened in 1867, it is named after the famous composer Giuseppe Verdi and is known for its elegant neoclassical architecture. The University of Pisa Choir will brighten the Ceremony.

Young Investigators Committee event

Sunday 15 June

20:00 – 23:00 hrs

Muristorti – Lungarno Antonio Pacinotti, 1

Luminara of San Ranieri

Monday 16 June

free access from 21:00 hrs to around midnight

Palazzo Fiumi e Fossi garden area (outdoor)

Via San Martino, 60

Lungarno Galilei, 19

The Luminara of San Ranieri, held every year in Pisa to celebrate the patron saint, transforms the city into an enchanting display of lights, with thousands of candles adorning the buildings along the Arno River. One of the lesser-known yet particularly evocative places to admire this event is the inner garden of the "Palazzo Fiumi e Fossi". This green space, just a short distance from the riverbanks, overlooks the river and offers a privileged view of the lights reflected on the water, far from the crowds that usually gather along the banks.

Congress Dinner

Tuesday 17 June

20:00 – 23:00 hrs

Ospedale di Santa Chiara, Cortile degli Spedalinghi (outdoor)

Seated dinner in the Cortile degli Spedalinghi, one of the courtyards within the ancient Santa Chiara Hospital. Originally used by the hospital's administrators (Spedalinghi), the courtyard features elegant porticoes and classical architecture typical of the Renaissance period. From this hidden corner steeped in history, a perspective glimpse of the Leaning Tower, rising just beyond the rooftops, creates a magical visual connection between the hospital built in 1257 to assist pilgrims and the Pisa iconic landmark located nearby.

GENERAL INFORMATIONS

CONGRESS INFORMATIONS

Venue

UNIVERSITÀ DI PISA - POLO SAN ROSSORE 1938
Address: Via Risorgimento, 19 - Pisa
Coordinates: 43.718057, 10.392759

Polo della Memoria San Rossore 1938

Located in the historic center of Pisa, nestled between the 13th-century walls and the Leaning Tower, the educational center of the University of Pisa is dedicated to the Humanities and Biological areas. The name "Polo della Memoria San Rossore 1938" was chosen to recall the collective memory of the "Ceremony of remembrance and apologies" celebrated in 2018 on the occasion of the 80th anniversary of the signing of the Racial Laws: "With the choice of this name we want to renew our commitment to defend and promote the values of democracy, freedom, equality, brotherhood and the right to dignity of every human being".

Wi-fi credentials

To stay connected during the congress, please access the University of Pisa network. It is strongly recommended to **complete this process before leaving your country or upon arrival in Pisa**, in any case before you arrive at the congress venue.

Instructions to obtain University of Pisa network Access Credentials

- Visit the following website: (<https://eventi.unipi.it/Register?id=117&pp=p2Y0GVtBa8AEtB9J>)
- Complete the quick self-registration form by entering your **full name, email address, and mobile phone number**. Please take care to enter the information accurately.
- You will receive a **6-digit OTP (One-Time Password)** via SMS on your phone. Enter this OTP on the registration platform to verify your identity.
- Once your registration is submitted, your **Wi-Fi credentials (username and password)** will be displayed on the screen and sent to your email.

We recommend you do that as the **mobile phone's signal is weak inside the venue**, and you should **consider using WhatsApp for calls**.

CONGRESS INFORMATIONS

Speakers' room

Speakers are kindly requested to deliver their presentation file to the Speakers' room the day before their scheduled talk or first thing in the morning for the afternoon sessions. Failure to do so may result in your presentation not being available on the speaker's laptop in the assigned meeting room.

Speakers for Pre-Congress symposia are kindly requested to contact the Speakers' room as soon as they reach the venue.

The Speakers' room follows the registration desk opening hours.

Presentation Guidelines

- Please remember to sign the release form upon submission of the presentation.
- All presentations will be uploaded by the technical staff into **folders sorted by presentation schedule and named with speakers' surname**.
- Upon arrival at the speaker desk in your assigned room, you will find a folder containing all presentations for the day. Please locate and click your file to start.
Note: no technical staff will be present in the meeting rooms. However, the hostesses can call for assistance, if needed.
- When presenting, kindly ensure that you do not exceed your allocated time slot.
- After presenting, we kindly ask you to close your file and return the main folder, to facilitate access for the next speaker.

Poster Area

Posters will be on display on the 1st floor for all the duration of the congress.

Exhibition Area, Sponsors Lounges

The exhibition area and sponsors lounges will be open throughout the Congress.

Certificates of Attendance

Certificates of attendance will be available for downloading after the congress. Participants will be notified by email when they are available.

USEFUL INFORMATIONS

Time Zone

The IPITA2025 Congress will officially run on Central European Summer Time (CEST)

Weather

Pisa weather in June is very warm and sunny. Showers, when they occur, are usually very short and light. Temperatures range from 13°C to 24°C.

Language

The official language will be English

Emergency and Police

Any emergency and police 112

Medical Emergency Ambulance service 118

Fire brigade 115

Get around within the city

Taxi

Taxis are available at stands near Pisa Centrale train station, Galileo Galilei airport, near the Leaning Tower and major squares. Official taxis are white and metered. They are not hailed on the street but can be booked by phone or app

Call the local taxi service number: Radiotaxi Pisa: +39 050 541600

App-based Bookings: download itTaxi: <https://ittaxi.it/en/application/>

Limo services are also available

Scooter and Car Sharing

Some scooter and car-sharing services may operate in Pisa, but their availability can vary

Bicycles

Pisa is bike-friendly city. You can rent bicycles from shops or bike-sharing services available in the city.

SPONSORS

GOLD SPONSOR



SILVER SPONSOR



BRONZE SPONSOR



SPONSOR



Medtronic

SANDOZ

SCIENTIFIC PARTNER



MAPS

MAPS

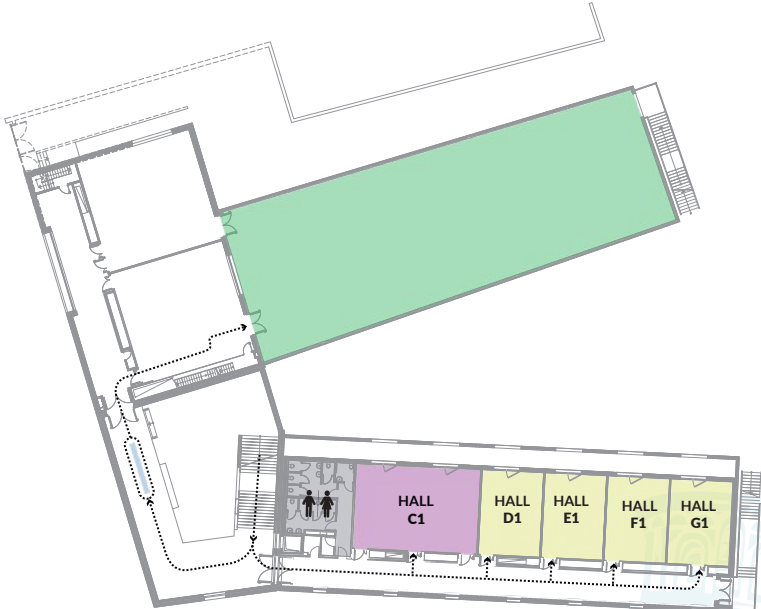


GROUND FLOOR

LEGEND:

Plenary Room	Break-Out Rooms	Exhibition Corners	Toilet
Speakers' Room	Outdoor Area	Exhibition Totem	Reception

MAPS



FIRST FLOOR

LEGEND:

Medtronic Symposium	Poster Area
Exhibition Lounges	Outdoor Area

NOTE

NOTE

