

11<sup>th</sup> - 13<sup>th</sup>  
of May  
2022

# 8<sup>th</sup> Meeting of the Study Group on the Genetics of Diabetes [SGGD]

Lille Grand Palais, FRANCE



## Wednesday 11<sup>th</sup> of May

12.00 – 13.45 **Light lunch**

13.45 – 14.00 Welcome and opening (Philippe Froguel and Amélie Bonnefond)

14.00 – 15.30 **Session 1 - CHAIRS: Tim Frayling, Mike Weedon**  
Systems biology, machine learning and stratification: a new avenue for understanding the pathophysiology of diabetes?

14.00 – 14.30 Décio L. Eizirik (Brussels, Belgium): "Using functional genomics and a systems biology approach to understand  $\beta$ -cell outcomes in type 1 diabetes"

14.30 – 15.00 Inga Prokopenko (Guildford, UK): "Welcoming Big Data for glycaemic health - back to the future"

15.00 – 15.30 Paul Franks (Lund, Sweden): "Next-generation epidemiology: high resolution molecular phenotyping paves the road to precision medicine"

15.30 – 16.30 **Oral session #1 - CHAIRS: Paul Franks, Ewan Pearson**  
GWAS Mendelian Randomization and integrated genomics in diabetes and obesity

15.30 – 15.45 OP01: Harry Green (Exeter, UK)

15.45 – 16.00 OP02: Laura Brenner (Boston, USA)

16.00 – 16.15 OP03: Gareth Hawkes (Exeter, UK)

16.15 – 16.30 OP04: Endrina Mujica (Uppsala, Sweden)

16.30 – 17.00 **Coffee Break**

17.00 – 18.30 **Session 2 - CHAIRS: Tiinamaija Tuomi, Giles Yeo**  
Involvement of rare versus frequent variants in the pathophysiology of common diabetes and obesity

17.00 – 17.30 Inês Barroso (Exeter, UK): "The genetic architecture of human obesity, a continuum of causality"

17.30 – 18.00 Philippe Froguel (Lille / London, France / UK): "Impact of rare and frequent variants in obesity and implications for treatments"

18.00 – 18.30 Jose Florez (Boston, USA): "The rare vs. common variant debate revisited, 20 years later"

18.30 **Poster session & Cheese and (French) Wine**

## Thursday 12<sup>th</sup> of May

09.00 – 10.30 **Session 3 - CHAIRS: Andrew Hattersley, Christine Bellannée-Chantelot**  
Monogenic diabetes vs type 1 diabetes, type 2 diabetes and LADA: how to achieve the most accurate diagnosis?

09.00 – 09.30 Katharine Owen (Oxford, UK): "Getting the diagnosis right in diabetes: from research to translation"

09.30 – 10.00 Tiinamaija Tuomi (Helsinki, Finland): "The many faces of insulin deficient diabetes"

10.00 – 10.30 Richard Oram (Exeter, UK): "The role of biomarkers, clinical features and polygenic scores in aiding classification of diabetes"

10.30 – 11.00 **Coffee Break**

11.00 – 12.00 **Oral session #2 - CHAIRS: Miriam Cnop, Lorenzo Pasquali**  
Systems biology in type 2 diabetes and metabolic traits

11.00 – 11.15 OP05: Lucas Maurin (Lille, France)

11.15 – 11.30 OP06: Alice Williamson (Cambridge, UK)

11.30 – 11.45 OP07: Amna Khamis (Lille, France)

11.45 – 12.00 OP08: Magdalena Sevilla-Gonzales (Boston, USA)

12.00 – 13.30 **Lunch**



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**13.30 – 15.00** **Session 4 - CHAIRS: Inga Prokopenko, Emma Ahlqvist**  
**Mendelian Randomization in metabolic disorders**

13.30 – 14.00 Felix Day (Cambridge, UK): *"Understanding the links between reproductive timing and metabolic disease"*

14.00 – 14.30 Michael Holmes (Bristol/Oxford, UK)

14.30 – 15.00 Jessica Tyrrell (Exeter, UK): *"Using Mendelian randomisation to dissect the causal role of metabolic disorders on mental health outcomes"*

15.00 – 15.20 Sponsor talk: Illumina

15.20 – 15.40 Sponsor talk: 10X Genomics

**15.40 – 16.15** **Coffee Break**

**16.15 – 17.30** **Oral session #3 - CHAIRS: Mariana Igoillo-Esteve, Philippe Froguel**

**Identification of new genes involved in rare and common forms of diabetes and in related metabolic traits**

16.15 – 16.30 OP09: Elisa De Franco (Exeter, UK)

16.30 – 16.45 OP10: Sarah Meulebrouck (Lille, France)

16.45 – 17.00 OP11: Matthew Johnson (Exeter, UK)

17.00 – 17.15 OP12: Milan Muso (Cambridge, UK)

17.15 – 17.30 OP13: Sadia Saeed (Lille, France)

**19.00** **Dinner in downtown Lille | Address: 3 Brasseurs - 22, Place de la Gare 59 800 Lille**

## Friday 13<sup>th</sup> of May

**09.00 – 10.30** **Session 5 - CHAIRS Décio Eizirik, Leen 't Hart**  
**(Single-cell) epigenomic/transcriptomic landscape of metabolic tissues**

09.00 – 09.30 Lorenzo Pasquali (Barcelona, Spain): *"Beta cells regulatory functions and T1D"*

09.30 – 10.00 Nicole Soranzo (Hinxton, UK): *"Genetic and epigenetic determinants of complex immune traits and diseases"*

10.00 – 10.30 Giles Yeo (Cambridge, UK): *"Mapping the hypothalamic architecture underlying food intake control using single nucleus RNA sequencing"*

**10.30 – 11.00** **Coffee Break**

**11.00 – 12.00** **Oral session #4 - CHAIRS: Inês Barroso, José Florez**

**Functional genetics in rare and common forms of diabetes and obesity**

11.00 – 11.15 OP14: Lise Folon (Lille, France)

11.15 – 11.30 OP15: Matthew Walkeling (Exeter, UK)

11.30 – 11.45 OP16: Maria Arroyo (Brussels, Belgium)

11.45 – 12.00 OP17: Marcel Den Hoed (Uppsala, Sweden)

**12.00 – 12.30** **Session 6: Precision medicine in metabolic disorders: view from industry**

Alan Shuldiner (New York, USA): *"Human Genetics and Therapeutic Development for Diabetes and Metabolic Disorders"*

**12.30 - 12.45** **Best poster presentation awards (x2) / Best oral presentation award / Closing remarks**

**12.45** **Lunch Bag**



Registration: [www.precidiab.org](http://www.precidiab.org)  
Deadline: May 6<sup>th</sup>, 2022