CRG Centre for Genomic Regulation

IMPaCT T2D

SYMPOSIUM

GENOME SEQUENCING AND PRECISION MEDICINE FOR TYPE 2 DIABETES

17th-18th November 2022

Supported by:

IMPaCT T2D

IMPaCT INFRAESTRUCTURA DE MEDICINA DE PRECISIÓN ASOCIADA A LA CIENCIA Y LA TECNOLOGÍA

MINISTERIO DE CIENCIA E INNOVACIÓN

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ISC Instituto de Salud Carlos III

EXCELENCIA SEVERO OCHOA

SED SOCIEDAD ESPAÑOLA DE DIABETES

Grupo de Trabajo de Genética

SYMPOSIUM PROGRAM

17th Nov

15.30 **IMPaCT, a Spanish Precision Medicine Initiative**

Chair: Dídac Mauricio

Welcome

Genomics in the IMPaCT Spanish Personalized Medicine Infrastructure
Mónica Bayes, CNAG

The IMPaCT-T2D initiative

Silvia Bonàs-Guarch, Center for Genomic Regulation

16.30 **COFFEE BREAK**

17.00 **Keynote lectures**
Chair: Urko M. Marigorta

Human Genetics in T2D Drug Discovery and Development: A Tale from AstraZeneca's Genomics Initiative

Slavé Petrovski, Centre for Genomics Research, AstraZeneca

Embracing the complexity of complex disease

Marylyn D. Ritchie, University of Pennsylvania

18.00 **End of first day**

18th Nov

9.00 **Genomic insights into Mendelian Diabetes**
Chair: Luis Castaño

Modeling non-coding genome defects underlying diabetes

Jorge Ferrer, Center for Genomic Regulation

Correctly identifying and treating pathogenic coding variants causing monogenic diabetes
Andrew Hattersley, University of Exeter

10.20 **COFFEE BREAK**

10.50 **Leveraging complex trait genetics for predictive medicine**

Chair: Arcadi Navarro

The genetic of human height, a model complex trait

Peter Visscher, University of Queensland

Translational genomics of cardiometabolic traits

Eleftheria Zeggini, Helmholtz Zentrum München

From GWAS to function – strategies to gain mechanistic disease insight

Danielle Posthuma, Vrije Universiteit Amsterdam

12.50 **LUNCH**

14.00 **Genomics and precision medicine for common forms of diabetes**

Chair: Ana M. Wägner

Type 1 diabetes genetic risk scores for improved classification and prediction of diabetes

Richard Oram, University of Exeter

Towards precision medicine in diabetes: using genetics to understand disease heterogeneity

José Florez, University of Harvard

15.20 **Closing**

15.30 **End of the Symposium**