Genome Sciences Seminar

Wednesday, 4.7.21| 3:30 | held remotely

https://depts.washington.edu/gsrestrc/remote.htm

Dr. Anna Gloyn

Professor of Pediatrics & by Courtesy Genetics
Associate Chair for Basic Research
Stanford University

"From genetic association to disease mechanism: Bridging the gap for type 2 diabetes"

The consistent focus of Anna's research has been using naturally occurring mutations in humans as tools to identity critical regulatory pathways and insights into normal physiology. Her early post-doctoral research led to the identification a new genetic aetiology for permanent and transient neonatal diabetes due to KCNJ11 mutations and resulted in one of the first examples of precision medicine, where the determination of the molecular genetic aetiology lead to improved treatment options for patients. Whilst in Oxford, Anna's team discovered a novel genetic cause of constitutive insulin sensitivity in humans due to mutations in the PTEN gene highlighting the complex interplay between pathways involved in cell-growth and metabolism.

Anna's current research projects are focused on the translation of genetic association signals for type 2 diabetes and glycaemic traits into cellular and molecular mechanisms for beta-cell dysfunction and diabetes. Her group uses a variety of complementary approaches, including human genetics, functional genomics, physiology and islet-biology to dissect out the molecular mechanisms driving disease pathogenesis.

https://profiles.stanford.edu/anna-gloyn

Questions? Contact Brian Giebel at bgiebel@uw.edu or visit the Seminar website at http://www.gs.washington.edu/news/seminars.htm