Genetics in Diabetes

Type 2 Diabetes and Related Traits

Editors

Anna L. Gloyn

Mark I. McCarthy

Over the past decade, technological advances have greatly improved our understanding of type 2 diabetes and related traits. Bringing together comprehensive synopses written by leaders in the field, this book discusses the recent progress in defining the genetic basis for type 2 diabetes.

The first part focuses on the impact of genome-wide association studies on our understanding of the genetic architecture of type 2 diabetes. Further chapters explore how variants affecting relevant metabolic traits influence diabetes susceptibility. Particular attention is also given to efforts to increase our understanding of sequence annotation in relevant tissues in diabetes and how this can be harnessed to leverage molecular mechanisms for genetic association signals. Finally, the impact of next-generation sequencing on gene discovery efforts in mendelian forms of diabetes and insulin resistance is covered in detail.

Providing a comprehensive overview on the current knowledge of the genetic basis for type 2 diabetes and related traits, this book is essential reading for researchers with an interest in the etiology of diabetes and human genetics.

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Genetics in Diabetes

Type 2 Diabetes and Related Traits

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Contents

Preface: Gloyn, A.L.; McCarthy, M.I.

Gene Discovery Efforts for Type 2 Diabetes

- Genome-Wide Association Studies in Type 2 Diabetes: **Beer, N.L.; McCarthy, M.I.**
- Fine Mapping Type 2 Diabetes Susceptibility Loci: **Morris, A.P.**
- Whole Genome and Exome Sequencing of Type 2 Diabetes: **Gaulton, K.; Flannick, J.; Fuchsberger, C.**

Gene Discovery Efforts for Glycaemic and Metabolic Traits

- Genome-Wide Association Studies of Glycaemic Traits: A MAGICAl Journey: **Florez, J.C.; Barroso, I.**
- Genome-Wide Association Studies of Obesity and Related Traits: **Mohlke, K.L.; Lindgren, C.M.**

Gene Discovery Efforts for Monogenic Disorders of β -Cell Dysfunction and Insulin Resistance

- Next-Generation Sequencing for the Diagnosis of Monogenic Diabetes and Discovery of Novel Aetiologies: **Ellard, S.; De Franco, E.**
- Whole-Exome Sequencing of Patients with Severe Disorders of Insulin Action: **Sample, R.; Barroso, I.**

'Omics' of Type 2 Diabetes and Related Traits

- Epigenetic Modifications and Type 2 Diabetes in Humans: **Ling, C.**
- Insights into β -Cell Biology and Type 2 Diabetes Pathogenesis from Studies of the Islet Transcriptome: **van de Bunt, M.; Morán, I.; Ferrer, J.; McCarthy, M.I.**
- Genomics of Adipose Tissue: **Pinnick, K.E.; Karpe, F.**

Insights into Molecular Mechanisms and Pathophysiology from Genetics

- Translating Genetic Association Signals for Diabetes and Metabolic Traits into Molecular Mechanisms for Disease: **Rees, M.G.; Gloyn, A.L.**
- Understanding Molecular Mechanisms for Diabetes and Obesity through Mouse Models: **Merkstein, M.; Cox, R.; Ashcroft, F.**

Clinical Translation

- Genetics of Drug Response in Diabetes: **Pearson, E.R.; Florez, J.C.**
- Translating Advances in Our Understanding of the Genetics of Diabetes into the Clinic: **Gardner, D.S.; Owen, K.R.; Gloyn, A.L.**

Author Index

Subject Index

Scientific advances in clinical and
experimental research

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