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### General Information

**ISSN Print Edition**: 0028–3835
**ISSN Online Edition**: 1423–0194

**Journal Homepage**: www.karger.com/nen

**Publication Data**: Neuroendocrinology is published 8 times a year. Volumes 101 and 102, each with 4 issues, appear in 2015.

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Over the past decade, there has been unprecedented progress in our understanding of the genetic basis of type 2 diabetes driven largely by technological advances which have facilitated genome-wide studies. 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 and related traits.

The opening section focuses on the impact of genome-wide association studies on our understanding of the genetic landscape of type 2 diabetes, whilst later chapters explore how variants affecting relevant metabolic traits influence diabetes susceptibility. The impact of next-generation sequencing on gene discovery efforts in both type 2 diabetes and mendelian forms of diabetes and insulin resistance is covered in detail. Particular attention is also given to efforts to increase our understanding of sequence annotation in diabetes-relevant tissues and how this can be harnessed to leverage molecular mechanisms for genetic association signals. Finally, efforts to translate this improved knowledge into both molecular mechanisms and clinical care are discussed.

Providing a comprehensive overview of 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.

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: Semple, 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.
Contents

See the journal website for contents
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The individual volumes of this series explore cutting-edge topics in the field of endocrinology and metabolism, providing the most updated, critical opinions of international leading researchers and clinicians. Going from in vitro studies to daily clinical applications, each volume presents a state-of-the-art overview including a discussion of future perspective.
Screening, diagnosis and management of paediatric thyroid disorders

Paediatric Thyroid Disorders: New Insights

Editors
Michel Polak
Gabor Szinnai

New data concerning screening, diagnosis and management is important for a constant broadening of our knowledge and expertise. This special topic issue of Hormone Research in Paediatrics focuses on new developments in the field of thyroid disease in the paediatric age group. Topics covered include epidemiology, screening, radiologic approaches, and new molecular data. Reviews of specific diseases associated with thyroid disorders such as Down syndrome, Rett syndrome, and pseudohypoparathyroidism add new insights into clinically relevant questions. Providing a selection of papers on clinical and molecular aspects of congenital hypothyroidism, this special topic issue offers an update on fetal, neonatal, and childhood thyroidology in patients suffering from congenital hypothyroidism, namely thyroid disease associated with genetic syndromes.

Contents

Preface

• Paediatric Thyroid Disorders: New Insights: Polak, M.; Szinnai, G.

Original Papers

• Somatic Mutations Are Not Observed by Exome Sequencing of Lymphocyte DNA from Monozygotic Twins Discordant for Congenital: Hypothyroidism due to Thyroid Dysgenesis: Magne, F.; Serpa, R.; Van Vliet, G.; Samuels, M.E.; Deladouy, J.

• Molecular Factors Influencing the Incidence of Congenital Hypothyroidism Detected by Neonatal Screening: Oliveri, A.; Fazzini, C.; Medda, E.; The Italian Study Group for Congenital Hypothyroidism

• The Role of 123I Imaging in the Evaluation of Infants with Mild Congenital Hypothyroidism: Graber, E.; Regelmann, M.O.; Annunziato, R.; Machac, J.; Rapaport, R.


• Thyroid Function in Rett Syndrome: Stagi, S.; Cavalli, R.; Congiu, L.; Scusa, M.F.; Ferlini, A.; Bigoni, S.; Benincasa, A.; Rossi, B.; Pini, G.

Review of a Controversial Topic

• Down Syndrome and Nonautoimmune Hypothyroidisms in Neonates and Infants: Kariyawasam, D.; Carré, A.; Luton, D.; Polak, M.

New Insights from Clinical Experience

• Severe Unsuspected Maternal Hypothyroidism Discovered after the Diagnosis of Thyrotropin Receptor-Blocking Antibody-Induced Congenital Hypothyroidism in the Neonate: Failure to Recognize and Implications to the Fetus: Brown, R.S.; Alter, C.A.; Sadeghi-Nejad, A.

• Foetal Thyroid Dysfunction: Treat the Mother First!: Khater, C.; Ceccardi, P.F.; Pujade, O.; Banigé, M.; Ottenwalter, A.; Luton, D.

New Hypothesis

• Molecular Insights into the Possible Role of Kir4.1 and Kir5.1 in Thyroid Hormone Biosynthesis: Ramos, H.E.; Dias da Silva, M.R.; Carré, A.; Silva Jr., J.C.; Paninka, R.M.; Oliveira, T.L.; Tron, E.; Castanet, M.; Polak, M.

Author Index / Subject Index

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How Gut and Brain Control Metabolism

Editors
Patric J.D. Delhanty
Aart J. van der Lely

Obesity is an epidemic problem not limited to Western society, but also in emerging industrial nations with large populations, especially in Asia. The connection between the gut and the brain is probably one of the most promising therapeutic targets for the treatment of obesity and metabolic syndrome. This book brings together reviews on the current understanding of how the gut and brain communicate in the regulation of metabolism. Individual chapters explore novel aspects of this interaction. A comprehensive update on the roles of smell and taste, the gut microbiome, and novel gut-derived neuropeptides in regulating metabolism via the brain is offered. Furthermore, the regulation of insulin sensitivity in the brain is discussed in detail. Providing an overview of the most recent findings, ‘How Gut and Brain Control Metabolism’ could spark in the reader new ideas or approaches, thus leading to much-needed new medical treatments. Physicians with an involvement in the treatment of metabolic disease and scientists performing research in the fields of nutrition and obesity will find this book a valuable addition to their bookshelves.

Contents

• Foreword: Gautron, L.; Elmquist, J.K.
• Preface: Delhanty, P.J.D.; van der Lely, A.J.

Aspects of Metabolic Interplay between the Brain and the Gut

• Hormonal Control of Metabolism by the Hypothalamus-Autonomic Nervous System-Liver Axis: Kalsbeek, A.; Bruinsroop, E.; Yi, C.-X.; Kleerik, L.; Liu, J.; Fliers, E.
• The Blood-Brain Barrier as a Regulator of the Gut-Brain Axis: Schaeffer, M.J.; Hodson, D.J.; Mollard, P.
• The Brain Modulates Insulin Sensitivity in Multiple Tissues: Parlevelet, E.T.; Coomans, C.P.; Rensen, P.C.N.; Romijn, J.A.
• The Important Role of Sleep in Metabolism: Copinschi, G.; Leproult, R.; Spiegel, K.
• Metabolic Interplay between Gut Bacteria and Their Host: Duca, F.; Gérard, P.; Covasa, M.; Lepage, P.
• The Brain-Stomach Connection: Folgueira, C.; Seoane, L.M.; Casanueva, F.F.
• Prader-Willi Syndrome as a Model of Human Hyperphagia: Tauber, M.; Diene, G.; Mimoun, E.; Cabal-Berthoumieu, S.; Mantoulan, C.; Molinas, C.; Muscatelli, F.; Salies, J.P.
• Interactions between the Gut, the Brain and Brown Adipose Tissue Function: van den Beukel, J.C.; Greilhorst, A.

Smell and Taste

• Gut Sweet Taste Receptors and Their Role in Metabolism: Meyer-Gerspach, A.C.; Wöllnerhassen, B.; Beglinger, C.
• What Is the Role of Metabolic Hormones in Taste Buds of the Tongue?: Cai, H.; Maidens, S.; Martin, B.

The Role of Neuropeptides in Metabolism

• Protein PYY and Its Role in Metabolism: Price, S.L.; Bloom, S.R.
• Nutropioids Regulate Gut-Brain Circuity: Controlling Food Intake: Milhieux, G.
• Should We Consider Des-Acyl Ghrelin as a Separate Hormone and If So, What Does It Do?: Delhanty, P.J.D.; Neggers, S.J.; van der Lely, A.J.
• Obestatin: Is It Really Doing Something?: Trovato, L.; Gallo, D.; Settanni, F.; Gesmundo, L.; Ghigo, E.; Granata, R.

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Founded: 2012  
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Field of Interest: Endocrinology  
Listed in bibliographic services, including PubMed Central

**2015: Volume 4**  
4 issues per volume  
Language: English  
ISSN 2235-0640  
e-ISSN 2235-0802

**Selected contributions**

- 2013 European Thyroid Association Guidelines for Cervical Ultrasound Scan and Ultrasound-Guided Techniques in the Postoperative Management of Patients with Thyroid Cancer: Leenhardt, L. (Paris); Erdogan, M.F. (Ankara); Hegedus, L. (Odense); Mandel, S.J. (Philadelphia, Pa); Paschke, R. (Leipzig); Rago, T. (Pisa); Russ, G. (Paris)

- 2013 ETA Guideline: Management of Subclinical Hypothyroidism: Pearce, S.H.S. (Newcastle upon Tyne); Brabant, G. (Lübeck); Duntas, L.H. (Athens); Monzani, F. (Pisa); Peeters, R.P. (Rotterdam); Razvi, S. (Newcastle upon Tyne/Gateshead); Wemeau, J.-L. (Lille)

- Thyroid Hormone Actions in Cartilage and Bone: Williams, G.R. (London)


- Se- and S-Based Thiouracil and Methimazole Analogues Exert Different Inhibitory Mechanisms on Type 1 and Type 2 Deiodinases: Rijntjes, E.; Scholz, P.M. (Berlin); Mughesh, G. (Bangalore); Köhrle, J. (Berlin)

- Transaxillary Robotic Thyroid Surgery: A Preliminary European Experience: Lallemant, B. (Nîmes/Montpellier); Chambon, G. (Nîmes); Galy-Bernadouy, C. (Nîmes/Montpellier); Chapuis, H.; Guedi, A.-M. (Nîmes); Pham, H.T.; Lallemant, J.-G.; Rupp, D. (Nîmes/Montpellier)


- Positive Cytology Findings and a Negative Histological Diagnosis of Papillary Thyroid Carcinoma in the Thyroid: Is It a False-Positive Cytology or a Disappearing Tumor? Jang, E.K.; Jeon, M.J.; Han, J.M.; Kim, W.G.; Kim, T.Y.; Shong, Y.K.; Kim, W.B. (Seoul)

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At the Cutting Edge

87 Aggressive Pituitary Tumors
Chatzellis, E.; Alexandraki, K.I.; Androulakis, I.I.; Kaltsas, G. (Athens)

105 Updating the Surgical Management of Peritoneal Carcinomatosis in Patients with Neuroendocrine Tumors
de Mestier, L.; Lardièr-Deguette, S.; Brix, H. (Reims); O'Toole, D. (Dublin); Ruszniewski, P. (Clichy); Cadot, G.; Kianmanesh, R. (Reims)

Original Papers

112 Neuroendocrine Merkel Cell Carcinoma Is Associated with Mutations in Key DNA Repair, Epigenetic and Apoptosis Pathways: A Case-Based Study Using Targeted Massively Parallel Sequencing

120 Effects of Estradiol Valerate and Remifemin on Norepinephrine Signaling in the Brain of Ovariectomized Rats
Wang, W.; Bai, W.; Cui, G.; Jin, B.; Wang, K.; Jia, J.; Da, Y.; Qin, L. (Beijing)

133 Diabetes, Smoking, Alcohol Use, and Family History of Cancer as Risk Factors for Pancreatic Neuroendocrine Tumors: A Systematic Review and Meta-Analysis
Haugvik, S.-P. (Oslo); Hedenström, P. (Gothenburg); Korsæth, E. (Oslo); Valente, R. (Rome); Hayes, A. (Edinburgh); Stuka, D. (Ljubljana); Maisonneuve, P. (Milan); Gladhaug, I.P. (Oslo); Lindkvist, B. (Gothenburg); Capurso, G. (Rome)

143 Typical and Atypical Pituitary Adenomas: A Single-Center Analysis of Outcome and Prognosis

151 Expression Analysis of Genes Involved in DNA Repair or Synthesis in Mixed Neuroendocrine/Nonneuroendocrine Carcinomas
Volante, M.; Monica, V. (Orbassano); Birocco, N. (Turin); Brizzi, M.P.; Busso, S. (Orbassano); Daniele, L. (Turin); La Rosa, S. (Varese); Righi, L. (Orbassano); Sapino, A. (Turin); Berruti, A. (Brescia); Scagliotti, G.V.; Papotti, M. (Orbassano)

161 Evidence that Neurokinin B Controls Basal Gonadotropin-Releasing Hormone Secretion but Is Not Critical for Estrogen-Positive Feedback in Sheep
Li, Q. (Clayton, Vic.); Millar, R.P. (Pretoria/Cape Town); Clarke, I.J.; Smith, J.T. (Clayton, Vic.)

Cover illustration
Schematic representation of the different forms of PC dissemination of small bowel NET. The primary tumor (T) is generally unique in the ileum, with regional lymph nodes (N). See de Mestier et al., pp. 105–111.