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| Titolo | Insulin resistance : insulin action and its disturbances in disease / / editors, Sudhesh Kumar, Stephen O'Rahilly |
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| Descrizione fisica | 1 online resource (617 p.) |
| Altri autori (Persone) | KumarSudhesh<br>O'RahillyS (Stephen) |
| Disciplina | 616.4/6207 |
| Soggetti | Insulin resistance |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Insulin Resistance; Contents; Preface; List of Contributors; 1 The Insulin Receptor and Downstream Signalling; 1.1 Introduction; 1.2 Insulin receptor structure and function; 1.3 Insulin receptor substrates; 1.4 Downstream signalling pathways; 1.5 The basis of insulin's signalling specificity; 1.6 Conclusion; References; 2 Insulin-mediated Regulation of Glucose Metabolism; 2.1 Introduction; 2.2 Insulin as a master regulator of whole body glucose disposal; 2.3 Insulin-mediated regulation of glucose metabolic pathways<br>2.4 Glucose uptake into skeletal muscle - the rate-limiting step in glucose metabolismAcknowledgements; References; 3 Insulin Action on Lipid Metabolism; 3.1 Introduction: does insulin affect lipid metabolism?; 3.2 Molecular mechanisms by which insulin regulates lipid metabolism; 3.3 Insulin and lipolysis; 3.4 Insulin, lipoprotein lipase and cellular fatty acid uptake; 3.5 Co-ordinated regulation of fatty acid synthesis and ketogenesis; 3.6 Insulin and cholesterol synthesis; 3.7 Insulin effects on lipoprotein metabolism; |

Acknowledgement; References

4 The Effect of Insulin on Protein Metabolism4.1 Introduction; 4.2 Molecular mechanisms of insulin's effect on protein turnover; 4.3 Measurement of protein metabolism (synthesis and breakdown or turnover) in human subjects; 4.4 Whole body and regional protein turnover; Acknowledgements; References; 5 Genetically Modified Mouse Models of Insulin Resistance; 5.1 Introduction; 5.2 Genetic modification as a tool to dissect the mechanisms leading to insulin resistance; 5.3 Candidate genes involved in the mechanisms of insulin resistance; 5.4 Insulin signalling network

5.5 Factors leading to insulin resistance5.6 Defining the function of the insulin cascade molecules through global knockouts; 5.7 Double heterozygous mice as models of polygenic forms of diabetes; 5.8 Defining tissue and/or organ relevance for the maintenance of insulin sensitivity; 5.9 Genetically modified mice to study modulators of insulin sensitivity; 5.10 Lipodystrophy versus obesity, the insulin resistance paradox; 5.11 Excess of nutrients as a cause of insulin resistance; 5.12 PPARs, key mediators of nutritional-regulated gene expression and insulin sensitivity; References

6 Insulin Resistance in Glucose Disposal and Production in Man with Specific Reference to Metabolic Syndrome and Type 2 Diabetes6.1 Introduction; 6.2 Measurement of insulin resistance; 6.3 Insulin-resistant states; 6.4 Conclusion and perspectives; References; 7 Central Regulation of Peripheral Glucose Metabolism; 7.1 Introduction; 7.2 Counter-regulation of hypoglycaemia - role of the CNS; 7.3 Brain regions involved in counter-regulation; 7.4 Glucosensing neurons; 7.5 Central control of peripheral organs involved in glucoregulation

7.6 Additional afferent signals to the CNS regulating peripheral glucose metabolism

Sommario/riassunto

Diabetes is now one of the major causes of morbidity worldwide. In many cases, the onset of diabetes is progressive, developing via a condition of insulin resistance. This book considers the development of this condition, its consequences and clinical and therapeutic aspects. The book reviews the normal biology of insulin action on glucose, lipids and proteins. It considers the pathological basis for insulin resistance in animal models and humans, and discusses the influence of heredity, dietary factors and exercise. Clinical consequences including dyslipidaemia, hypertension and polycy

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| Titolo | Atlas of Implantable Therapies for Pain Management / / edited by Timothy R. Deer, Jason E. Pope |
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| ISBN | 1-4939-2110-X |
| Edizione | [2nd ed. 2016.] |
| Descrizione fisica | 1 online resource (310 p.) |
| Disciplina | 610 |
| Soggetti | Pain<br>Anesthesiology<br>Atlas. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Part I. Neurostimulation: Spinal Cord -- 1. History of Neurostimulation -- 2. Patient Selection -- 3. Disease Indications -- 4. Preoperative Evaluation for Spinal Cord Stimulation -- 5. Perioperative Precautions for Infection Control -- 6. Needle Placement for Percutaneous Spinal Cord Stimulation of the Back and Legs -- 7. Physician-guided Lead Placement: Driving the Lead to the Target Location -- 8. Stimulation of the Spinal Cord by Placement of Surgical-Based Paddle Leads -- 9. Programming Spinal Cord Stimulation Systems -- 10. Anchoring Percutaneous Leads During Permanent Device Placement -- 11. Tunneling Spinal Cord Stimulation Systems -- 12. Pocketing Techniques for Spinal Cord Stimulation and Peripheral Nerve Stimulation -- 13. Wound Closure -- 14. Wound Healing -- 15. Complications of Spinal Cord Stimulation -- 16. Stimulation of the Nervous System to Treat Neuropathic Pain of the Foot -- 17. Sacral Nerve Root Stimulation for the Treatment of Pelvic and Rectal Pain -- 18. Selective Nerve Root Stimulation: Facilitating the Cephalocaudal “Retrograde” Method of Electrode Insertion -- 19. Neurostimulation for the Treatment of Anterior Abdominal Pain -- 20. Electromyographic/Somatosensory-Evoked Potential Monitoring During Thoracolumbar Spinal Cord Stimulation -- 21. Electromyographic/Somatosensory Evoked Potential Monitoring During |

Sacral Neuromodulation -- 22. The Future of Neurostimulation -- 23. Spinal Cord Stimulation of the Dorsal Root Ganglion for the Treatment of Pain -- 24. High-Frequency Stimulation of the Spinal Cord -- 25. Burst Stimulation: An Innovative Waveform Strategy for Spinal Cord Stimulation -- Part II. Neurostimulation: Peripheral Nerve and Peripheral Nerve Field -- 26. Stimulation of the Extraspinal Peripheral Nervous System -- 27. Peripheral Nerve Stimulation for the Treatment of Knee Pain -- 28. Neurostimulation of the Upper Extremity by Conventional Peripheral Nerve Stimulation -- 29. Ultrasound Guidance for the Placement of Peripheral Nerve Stimulation Devices -- 30. High-Frequency Electric Nerve Block to Treat Postamputation Pain -- 31. Peripheral Nerve Stimulation Miniaturization -- Part III. Neurostimulation: The Cranium and the Head -- 32. Neurostimulation: Stimulation of the Cranium and Head: Stimulation of the Deep Brain for the Treatment of Chronic Pain -- 33. Stimulation of the Motor Cortex to Treat Chronic Pain -- 34. Stimulation of the Peripheral Nervous System: Occipital Techniques for the Treatment of Occipital Neuritis and Transformed Migraine -- Part IV. Drug Delivery -- 35. History of Intrathecal Drug Delivery -- 36. Selection and Indications for Intrathecal Pump Placement -- 37. Placement of Intrathecal Needle and Catheter for Chronic Infusion -- 38. Securing and Anchoring Permanent Intrathecal Catheters -- 39. Tunneling Permanent Intrathecal Catheters -- 40. Pocketing for Intrathecal Drug Delivery Systems -- 41. Drug Selection for Intrathecal Drug Delivery -- 42. Intrathecal Pump Refills -- 43. Complications of Intrathecal Drug Delivery.

Sommario/riassunto

From reviews of the First Edition: “For the practitioner new to the field of implantable therapies, this book shows the scope of this particular branch of pain medicine. It is full of good advice on techniques and how to avoid complications." British Journal of Clinical Pharmacology "All practicing pain physicians, whether their background is in anesthesia or neurosurgery, will find [this atlas] very useful…beautifully written and well-illustrated with x-ray images and pictures…a must-read for every pain fellow and a very useful one for every pain physician." Doody’s Review Service Now in its Second Edition, this atlas remains an essential guide to the treatment of pain using neuromodulation and is written for all implanters, from beginners to the most advanced practitioners. It has been significantly expanded with many brand new chapters and figures and thoroughly updated to address new techniques, targets, waveforms, and concepts that have emerged since publication of the last edition and now provides even more detailed coverage of patient safety, including infection control and reduction of bleeding risks. The new and returning physicians who have collaborated on the Second Edition are world-class in their research, clinical expertise, and ethics of practice. They have endeavored to make each segment of the atlas a great learning event through careful integration of extensive photographs, illustrations, and detailed instructions and to create a resource that helps to improve practice and enhance outcomes while complementing fellowship training, peer-to-peer experiences, and hands-on continuing medical education. .