1. Record Nr. UNINA9910446324003321 Peptides in energy balance and obesity / / edited by Gema Fruhbeck Titolo Wallingford, UK; Cambridge, MA; CABI Pub. in association with the Pubbl/distr/stampa Nutrition Society, c2009 **ISBN** 1-282-09389-4 9786612093890 1-84593-431-8 Edizione [1st ed.] Descrizione fisica 1 online resource (410 p.) Frontiers in nutritional science;; no. 4 Collana Altri autori (Persone) FruhbeckGema Disciplina 612.4/05 616.398 Soggetti Peptide hormones Obesity - Pathophysiology **Energy metabolism** 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 Contents; Contributors; Preface; Part I: Central Pathways Involved in the Control of Food Intake and Energy Expenditure; 1. Orexigenic Peptides; 2. Anorexigenic Peptides; 3. Newcomers and Supporting Actors; Part II: Peripheral Signals Participating in Energy Homeostasis and Obesityassociated Alterations; 4. The Gut as a Second Brain; 5. Elements of the Adipostat; 6. Natriuretic Peptides and Other Lipolytic Peptides Involved in the Control of Lipid Mobilization in Humans; 7. The Adipo-Hepato-Insular Axis in Glucose Homeostasis; 8. Adipokines in the Immune-Stress Response 9. Peptides Involved in Vascular HomeostasisPart III: Integrative Perspectives: 10. Hierarchy of Neural Pathways Controlling Energy Homeostasis; 11. Energy Regulatory Signals and Food Reward; 12. Embracing Complexity: The Emergence of Functional Neuroimaging and Other Methodologies to Study the Role of the Human Brain in the Pathophysiology of Obesity; 13. Overview of the Integrative Physiology of Adipose Tissue in Energy Homeostasis; 14. Application of 'Omic' Strategies to Obesity Research; 15. Implications for the Future of

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## Sommario/riassunto

Obesity is one of the relevant public health concerns and it is evident that body weight control is achieved through highly integrated physiological interactions like nutrient selection. Presenting an account of the roles of specific peptides in energy balance, this title provides an understanding of the patho-physiology of energy balance.