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| | Nota di contenuto | Neuroendocrine regulation in the genetic model C. elegans / Charline Borghgraef, Pieter Van de Walle, Sven Van Bael, Liliane Schoofs, Wouter De Haes, Isabel Beets -- Neuroendocrine control of reproduction in aplysia by the bag cell neurons  / Raymond M. Sturgeon, Alamjeet K. Chauhan, and Neil S. Magoski -- Neurohormonal regulation of metamorphosis in decapod crustaceans / Scott F. Cummins, S. and Tomer Ventura -- Drosophila as a model for neuroendocrine control of renal homeostasis / Julian A.T. Dow, Kenneth A. Halberg, Selim Terhzaz & Shireen A. Davies -- Development and function of the zebrafish neuroendocrine system / Jakob Biran, Janna Blechman, Einav Wircer & Gil Levkowitz -- The organization and activation of sexual behavior in quail / Charlotte A. Cornil -- Hamsters as model species for neuroendocrine studies / Jo E. Lewis & Francis J.P. Ebling -- The socially monogamous prairie vole : a rodent model for behavioral neuroendocrine research / Meghan Donovan, Yan Liu & Zuoxin Wang -- Brain dead : the dynamic neuroendocrinological adaptations during hypometabolism in mammalian hibernators / Samantha M. Logan, Alex J. Watts & Kenneth B. Storey -- Genetically altered mice as a tool for the |

investigation of obesity and metabolic disease / Rebecca Dumbell & Roger D. Cox -- HAB/LAB rats and mice : approaching the genetics and epigenetics of trait anxiety / Ludwig Czibere, Rebekka P. Diepold, Rainer Landgraf & Sergey V. Sotnikov -- The Brattleboro rat : the first and still up-to-date mutant rodent model for neuroendocrine research / Dora Zelena & Mario Engelmann -- Marmoset as a model for neuroendocrine mechanisms of primate parental behavior / Atsuko Saito -- Domestication : neuroendocrine mechanisms of canidae-human bods / Yury E. Herbeck, Rimma G. Gulevich, Marina Eliava, Darya V. Shepeleva, Lyudmila N. Trut & Valery Grinevich -- Sheep as a model for neuroendocrine control of appetite and energy expenditure / Belinda A. Henry & Iain J. Clarke -- The horse : an unexpected model animal in neuroendocrinology / Anne Duittoz, Juliette Cogniae, Caroline Decourt, Flavie Derouin, Aureline Forestier, Francois Lecompte, Abderrahim Bouakkaz & Fabrice Reigner -- Humans : the ultimate model for the study of neuroendocrine systems / Lisa Yang, Chioma Izzi-Engbeaya & Waljit S. Dhillo.

| Sommario/riassunto | Model Animals in Neuroendocrinology: From Worm to Mouse to Man offers a masterclass on the opportunities that different model animals offer to the basic understanding of neuroendocrine functions and mechanisms of action and the implications of this understanding. The authors review recent advances in the field emanating from studies involving a variety of animal models, molecular genetics, imaging technologies, and behavior assays. These studies helped unravel mechanisms underlying the development and function of neuroendocrine systems. The book highlights how studies in a variety of model animals, including, invertebrates, fish, birds, rodents and mammals has contributed to our understanding of neuroendocrinology. Model Animals in Neuroendocrinology provides students, scientists and practitioners with a contemporary account of what can be learnt about the functions of neuroendocrine systems from studies across animal taxonomy. This is the seventh volume in the Masterclass in Neuroendocrinology Series, a co-publication between Wiley and the INF (International Neuroendocrine Federation) that aims to illustrate highest standards and encourage the use of the latest technologies in basic and clinical research and hopes to provide inspiration for further exploration into the exciting field of neuroendocrinology. |