

1. Record Nr.	UNINA9910813264803321
Titolo	Catecholamine research in the 21st century : abstracts and graphical abstracts, 10th International Catecholamine Symposium, 2012 // edited by Lee E. Eiden
Pubbl/distr/stampa	London : , : Academic Press, , 2013
ISBN	0-12-800073-2
Descrizione fisica	1 online resource (xxi, 253 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	617.378
Soggetti	Catecholamines
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.
Nota di contenuto	Front Cover; Catecholamine Research in the 21st Century; Copyright Page; Contents; Preface; THEME A: CATECHOLAMINE BIOSYNTHESIS AND STORAGE; 1. Genetic Manipulation of Catecholamine Signaling in the Mouse; 2. AADC Deficiency: Occurring in Humans; Modeled in Rodents; Treated in Patients; 3. Tyrosine Hydroxylase and Dopamine Beta-Hydroxylase: Role of Common Genetic Variation in Adrenergic Responses to Stress and ...; 4. Pharmacokinetic and Pharmacodynamic Properties of Etamicastat, a New DBH Inhibitor: Comparison to Nepicastat 5. Estradiol-Mediated Regulation of Gene Expression of Catecholamine Biosynthetic Enzymes: The Role of Membrane-Initiated Sign...6. Structural Basis for Regulation of Tyrosine Hydroxylase by the Catecholamines; 7. Unique Regulation of TH Gene Expression in Midbrain Dopamine Neurons; 8. Intracellular Stability of Tyrosine Hydroxylase: Phosphorylation and Proteasomal Digestion of the Enzyme; 9. The Peripheral Interaction of Tyrosine Hydroxylase and 14-3-3 with Negatively Charged Phospholipidic Membranes; References 10. Dynamic Regulation of Tyrosine Hydroxylase Gene Expression by Key Fate-Determining Transcription Factors during Dopaminergi...11. Analysis of Tyrosine Hydroxylase Isoforms and Phosphorylation in Parkinson's Disease; 12. Non-dopaminergic Neurons Partly Expressing Dopaminergic Phenotype: Functional Significance and Regulation; 13. Developing Brain as an Endocrine Organ: Catecholamines Secretion and

Endocrine Action; 14. Brainstem DOPAergic System; 15. Imaging Norepinephrine Transporters in Humans; Translational Research with PET
 16. Imaging the Vesicular Monoamine Transporter (VMAT2) in Neurodegenerative Diseases
 17. GTP Cyclohydrolase Regulation: Implications for Brain Development and Function; 18. Neonatal Diagnosis of Menkes Disease by a Pattern of Plasma Catechols; 19. Catecholamine Metabolites Affected by the Copper-Dependent Enzyme Dopamine-Beta-Hydroxylase Provide Sensitive Blood and Csf...; 20. Are the Enzymes of the Catecholamine Biosynthetic Pathway Locally Synthesized in the Axon?
 21. Effects of Missense Mutations in Tyrosine Hydroxylase (TH) Found in Patients with Neurological Disorders Attributed to TH D...
 22. Tetrahydrobiopterin Deficiency Impairs Postnatal Increase of TH Protein via Insufficient Dopamine Biosynthesis; 23. Selective Ablation of Dopamine Beta-Hydroxylase Neurons (Subpopulation of TH Neurons) in the Brain: New Insights into Brain...; 24. Neural Circuit Mechanism for Learning Dependent on Dopamine Transmission: Roles of Striatal Direct and Indirect Pathways in...
 25. Regulation of Tyrosine Hydroxylase by Ser19-Phosphorylation-Dependent Binding to 14-3-3

Sommario/riassunto

Through the use of extended graphical abstracts and some traditional text-only abstracts this collection provides, a record of and roadmap to, the research presented at The Tenth International Catecholamine Symposium (XICS) held in September of 2012. Organized around ten general themes, each is introduced by a short overview identifying interesting research programs, results and potential areas of growth. The collection is a roadmap to key research and future opportunities for new catecholamine research programs and will be of interest to neuroscientists and clinical neurologists interested