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| 1. Record Nr.           | UNINA9910780305003321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Titolo                  | Brain dynamics and the striatal complex // edited by R. Miller and J.R. Wickens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pubbl/distr/stampa      | Amsterdam, Netherlands : , : Harwood Academic Publishers, , 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ISBN                    | 0-429-15291-4<br>1-4822-8355-7<br>1-280-07922-3<br>9786610079223<br>0-203-30491-8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Descrizione fisica      | 1 online resource (324 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Collana                 | Conceptual advances in brain research, , 1029-2136 ; ; v. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Altri autori (Persone)  | MillerRobert <1943 Aug. 29-><br>WickensJ (Jeff)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Disciplina              | 612.82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Soggetti                | Corpus striatum<br>Dopaminergic mechanisms<br>Cerebral cortex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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       | Book Cover; Title; Contents; Series Preface; Preface; List of Contributors; Relationships of Substantia Nigra Dopamine Neurone Activity to Behaviour; The Role of Dopamine in the Control of Locomotor Activity and Reward-Related Incentive Learning; Stimulants and Motor-Related Striatal Neuronal Activity; Dopamine Regulation of Synaptic Plasticity in the Neostriatum: A Cellular Model of Reinforcement; The Amygdaloid Complex: Input Processor for the Midbrain Dopaminergic Nuclei and the Striatum; Synaptology and Physiology of Neostriatal Neurones<br>Neural Dynamics and Surround Inhibition in the Neostriatum: A Possible ConnectionThe Domain Hypothesis: A Central Organizing Principle for Understanding Neostriatal Circuitry?; Adaptive Classification of Cortical Input to the Striatum by Competitive Learning; Insights from Gene Regulation into the Functional Role of Dopamine in the Striatum; Dopaminergic Regulation of Striatal Physiology; Striatal Contention Scheduling and the Split Circuit Scheme of Basal Ganglia- |

Thalamocortical Circuitry: From Anatomy to Behaviour; Motor and Non-Motor Roles of the Cortico-Basal Ganglia Circuitry  
Discussion Section  
POSTLUDE Striatal Circuitry: Categorically Selective, or Selectively Categorical?; Index

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Sommario/riassunto

Brain Dynamics and the Striatal Complex, the first volume in the Conceptual Advances in Brain Research book series, relates dynamic function to cellular structure and synaptic organization in the basal ganglia. The striatum is the largest nucleus within the basal ganglia and therefore plays an important role in understanding structure/function relationships. Areas covered include dopaminergic input to the striatum, organization of the striatum, and the interaction between the striatum and the cerebral cortex.

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