



Computational neuroscience of drug addiction /

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Springer Science+Business Media, LLC,

2012

Internet Resources

Monografía

Drug addiction is one of the most important public health problems in Western societies, and is a rising concern for developing nations. Over the past three decades, experimental research on the neurobiology and psychology of drug addiction has generated a tremendous amount of exciting data, from the molecular to the behavioral levels. As a result, a new and pressing challenge for addiction research is to formulate a synthetic theoretical framework that goes well beyond mere scientific eclecticism to deepen our understanding of drug addiction and to foster our capacity to prevent and to cure drug addiction. Recently, researchers from a broad spectrum of scientific disciplines - from pharmacokinetics to neuroeconomics - have begun to take up this challenge. Computational Neuroscience of Drug Addiction collects recent mathematical and neurocomputational modeling approaches to drug self-administration and addiction. This selection of chapters illustrates how mathematical modeling can contribute to our understanding of the mechanisms underlying the transition between the different stages of addiction, from initiation of regulated drug use and subsequent loss of control over drug use to relapse after long-term abstinence. The volume provides an overview of this emerging area and will serve as a standard reference for addiction researchers and quantitative scientists entering the field

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Título: Computational neuroscience of drug addiction Boris Gutkin, Serge H. Ahmed, editors

Editorial: New York Springer Science+Business Media, LLC 2012

Descripción física: 1 online resource (xiv, 341 pages) illustrations

Tipo Audiovisual: Medicine Neurosciences Biology -- Data processing Biomedicine Computer Appl. in Life Sciences computertechnieken computer techniques levenswetenschappen life sciences biomedische wetenschappen neurowetenschap neuroscience Medicine (General) Geneeskunde (algemeen)

Mención de serie: Springer series in computational neuroscience v. 10

Documento fuente: Springer eBooks

Bibliografía: Includes bibliographical references and index

Contenido: pt. 1. Pharmacological-based models of addiction -- pt. 2. Neurocomputational models of addiction -- pt. 3. Economic-based models of addiction

Lengua: English

Copyright/Depósito Legal: 771228861 778312183 816875253 823130843 1005818043 1069496587 1087339537 1204001026 1259116556

ISBN: 9781461407515 electronic bk.) 1461407516 electronic bk.) 1283353393 9781283353397 1461407508 9781461407508 9786613353399 6613353396

Materia: Drug addiction Computational neuroscience Drug abuse Models, Neurological Substance-Related Disorders- physiopathology Brain- drug effects Neurotransmitter Agents- physiology Psychotropic Drugs- pharmacology Substance-Related Disorders Toxicomanie Neurosciences informatiques drug abuse. drug addiction. HEALTH & FITNESS- Diseases- General. MEDICAL- Clinical Medicine. MEDICAL- Diseases. MEDICAL- Evidence-Based Medicine. MEDICAL- Internal Medicine. Drug abuse. Computational neuroscience. Drug addiction.

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Enlace a formato físico adicional: Print version Computational neuroscience of drug addiction. New York : Springer Science+Business Media, LLC, 2012 (DLC) 2011940849 1-4614-2940-4 1-4614-0750-8

Punto acceso adicional serie-Título: Springer series in computational neuroscience v. 10

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