



## The neuroscience of autism spectrum disorders /

Buxbaum, Joseph D.,  
Hof, Patrick R.,

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Monografía

Autism is no longer considered a rare disease, and the Center for Disease Control now estimates that upwards of 730,000 children in the US struggle with this isolating brain disorder. New research is leading to greater understanding of and ability to treat the disorder at an earlier age. It is hoped that further genetic and imaging studies will lead to biologically based diagnostic techniques that could help speed detection and allow early, more effective intervention. Edited by two leaders in the field, this volume offers a current survey and synthesis of the most important findings

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**Contenido:** Autism spectrum disorders -- Epidemiology of autism spectrum disorders -- The behavioral manifestations of autism spectrum disorders -- Early manifestations of autism spectrum disorders -- Asperger syndrome and its relationships to autism -- Behavioral and psychosocial interventions for individuals with ASD -- Current trends in the pharmacological treatment of autism spectrum disorders -- Novel therapeutics in autism spectrum disorders -- Etiology of autism spectrum disorders -- Etiological heterogeneity in autism spectrum disorders: role of rare variants -- Copy number variation in autism spectrum disorders -- Common genetic variants in autism spectrum disorders -- Next-generation sequencing for gene and pathway discovery and analysis in autism spectrum disorders -- Mitochondria and autism spectrum disorders -- Parental and perinatal risk factors for autism: epidemiological findings and potential mechanisms -- The environment in autism spectrum disorders -- Hormonal influences in typical development: implications for autism -- Immune abnormalities and autism spectrum disorders -- Brain imaging and neuropathology of autism spectrum disorders -- Structural and functional MRI studies of autism spectrum disorders -- DTI and tractography in the autistic brain -- Attentional network deficits in autism spectrum disorders -- The cerebellum in autism spectrum disorders -- The amygdala in autism spectrum disorders --

Discrete cortical neuropathology in autism spectrum disorders -- The minicolumnopathy of autism spectrum disorders -- Inhibitory and excitatory systems in autism spectrum disorders -- Clinicopathological stratification of idiopathic autism and autism with 15q11.2-q13 duplications -- Model systems and pathways in autism spectrum disorders -- Mouse behavioral models for autism spectrum disorders -- Nonhuman primate models for autism spectrum disorders -- Inducible pluripotent stem cells in autism spectrum disorders -- A 15q11-q13 duplication mouse model of autism spectrum disorders -- Fragile X syndrome and autism spectrum disorders -- MeCP2 and autism spectrum disorders -- SHANK2 and SHANK3 mutations implicate glutamate signaling abnormalities in autism spectrum disorders -- PI3K Signaling and miRNA regulation in autism spectrum disorders -- getting from 1,000 genes to a triad of symptoms: the emerging role of systems biology in autism spectrum disorders

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**Autores:** Buxbaum, Joseph D., Hof, Patrick R.,

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### **Baratz Innovación Documental**

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)