

1. Record Nr.	UNINA9910741183203321
Titolo	Imaging the brain in autism // Manuel F. Casanova, Ayman S. El-Baz, Jasjit S. Suri, editors
Pubbl/distr/stampa	New York : , : Springer, , 2013
ISBN	1-4614-6843-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (xiv, 387 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	616.858820754
Soggetti	Autism spectrum disorders - Imaging Brain - Imaging
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction to Neuropathology -- The Neuropathology of Autism -- QEEG-Guided Neurofeedback for the Autism: Clinical Observations and Outcomes -- Event-Related Potential Studies of Cognitive Processing Abnormalities in Autism -- Evoked and Induced Gamma Frequency Oscillations in Autism -- Neurofeedback for Autistic Disorders: Emerging Empirical Evidence -- Structural Imaging in Autism -- Diffusion Tensor Magnetic Resonance Imaging in Autism -- Spectroscopic Brain Imaging in Autism -- Functional MRI in Autism -- Functional Connectivity MRI in Autism -- EEG Analyses in the Assessment of Autistic Disorders -- Behavior Imaging®'s Assessment Technology.
Sommario/riassunto	Data compiled by the Center for Disease Control and Prevention indicates an alarming and continuing increase in the prevalence of autism. Despite intensive research during the last few decades, autism remains a behavioral defined syndrome wherein diagnostic criteria lack in construct validity. And, contrary to other conditions like diabetes and hypertension, there are no biomarkers for autism. However, new imaging methods are changing the way we think about autism, bringing us closer to a falsifiable definition for the condition, identifying affected individuals earlier in life, and recognizing different subtypes of autism. The imaging modalities discussed in this book emphasize the power of new technology to uncover important clues about the condition with the hope of developing effective interventions.

Imaging the Brain in Autism was created to examine autism from a unique perspective that would emphasize results from different imaging technologies. These techniques show brain abnormalities in a significant percentage of patients, abnormalities that translate into aberrant functioning and significant clinical symptomatology. It is our hope that this newfound understanding will make the field work collaborative and provide a path that minimizes technical impediments.
