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Titolo	Astrocyte-Neuron Interactions in Health and Disease / / edited by Elena Blanco-Suarez, Isabella Farhy-Tselnicker
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Descrizione fisica	1 online resource (385 pages)
Collana	Advances in Neurobiology, , 2190-5223 ; ; 39
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Soggetti	Neurosciences Neurophysiology Neurons Neurology Neuroscience Cellular Neuroscience
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Evolution of Astrocyte-Neuron Interactions across Species -- Glia in Invertebrate Models: Insights from C. elegans -- Astrocyte Development in the Rodent -- Neuron-Astrocyte Interactions: A Human Perspective -- Gene Expression at the Tripartite Synapse: Bridging the Gap between Neurons and Astrocytes -- Homeostasis to Allostasis: Prefrontal Astrocyte Roles in Cognitive Flexibility and Stress Biology -- Astrocyte-Neuron Interactions in Substance Use Disorders -- Astrocytes in Pain Perception: A Systems Neuroscience Approach -- Astrocyte-Neuron Interaction in Spinal Cord Injury -- Astrocyte Regulation of Neuronal Function and Survival in Stroke Pathophysiology -- The Interplay of Astrocytes and Neurons in Autism Spectrum Disorder -- Astrocyte-Neuron Interactions Contributing to Amyotrophic Lateral Sclerosis Progression -- The Role of Astrocytes in Parkinson’s Disease -- Astrocyte-Neuron Interactions in Alzheimer’s Disease.
Sommario/riassunto	This new book extensively explores a range of topics related to astrocyte-neuron interactions under multiple conditions, in both health and disease. These include the types of interactions that occur during development and the establishment of neuronal circuits that underlie

learning and memory formation in various animal models as well as humans. Furthermore, the book addresses topics on how these interactions go awry in disease and injury. In addition, the authors propose inspiring new avenues to explore therapeutic approaches using astrocytes as targets. A cadre of international experts presents a broad range of views on the state-of-the-art of astrocyte-neuron interactions.