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Titolo	The musical neurons // edited by Bruno Colombo
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	9783031081323 9783031081316
Descrizione fisica	1 online resource (169 pages)
Collana	Neurocultural Health and Wellbeing Series
Disciplina	823.808
Soggetti	Music - Psychological aspects Music - Physiological aspects Musical perception Neurosciences Music Neurology Music - psychology Brain - physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Introduction -- Music for brain pleasure -- Colored notes: physiological and pathological features -- Music and creativity: the auditory mirror system as a link between emotions and musical cognition -- The history of rhythm -- Music as sleep aid -- Music in Dementia: from impairment in musical recognition to musical interventions -- Treating Parkinson's disease; the role of musicotherapy -- It thrills my soul to hear the song: musicolepsia -- Music and semiotic -- Flute and other musical instruments -- Neurological diseases in popular music -- Conclusions.
Sommario/riassunto	This book explores connections between music, neural activations and brain plasticity, in order to better understand its associated psychological and physiological effects. The final goal is to focus on the positive effects of music to treat neurological disorders, establishing a new co-ordination between different brain areas to improve both

mental illness and wellbeing. A secondary goal is to analyse the role of music at a psycho-sociological level, to understand both the transformation of music into a cultural model and the vision of music as an innate instinct. Music is able to create both emotions and volitional processes. The application of new neuroimaging techniques allows us to explore and evaluate with accuracy what happens in our brain during the creative and artistic performance. A wide range of brain regions are recruited for creative tasks, and music has the opportunity to help in enhance and reset some brain pathological disturbances being also able to ameliorate and restore some rhythmic body activities such as sleep, movement and co-ordination. The book represents a valuable and innovative tool both for neurologists as well as healthcare professionals involved in the management of neurological disorders.
