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Current Facts -- Abstract -- Introduction -- I. Exploring the Relation between Handedness and Hemispheric Specialization for Language -- II. Methodological Issues: Definition and Assessment of Handedness, Manual Specialization, and Cerebral Specialization -- III. Gender and Handedness -- IV. Developmental Aspects in Handedness and Cerebral Specialization.
V. Pathology Related Issues -- Conclusion -- References -- Handedness and Mental Rotation -- Abstract -- Introduction -- Mental Rotation Task of Three-dimensional Objects -- Cerebral Activation during Mental Rotation Tasks of Three-dimensional Objects -- Mental Rotation Task of Hand Pictures -- Cerebral Activation during Mental Rotation Tasks of Hand Pictures -- Clinical Applicability of Mental Rotation Tasks -- References -- Left, Right, Hand `n Space -- Abstract -- 1. Introduction -- 2. Method -- 2.1. Participants -- 2.2. Materials and Procedures -- 3. Results -- 3.1. Hand Preference -- 3.2. Finger Tapping -- 3.2.1. Uni-manual Performance -- 3.2.2. Bimanual Performance -- Discussion -- Conclusion -- Acknowledgment -- References -- Electrostimulation Mapping and Language Lateralization in the Right Hemisphere -- Abstract -- Abbreviations -- Introduction -- Methods -- Patients -- Pre- and Postoperative Assessments -- Stimulation Mapping -- Results -- Handedness -- Stimulation Maps -- Relationship between Handedness and Stimulation Maps -- Postoperative Assessments -- Discussion -- Handedness, Functional Imaging, and Language Lateralization -- Handedness and Stimulation Mapping Studies of the Right Hemisphere -- Stimulation Mapping Studies of the Right "Nondominant" Hemisphere -- Limitations -- Conclusion -- References -- Handedness, Achievement in Sport and Boxing* -- Abstract -- Handedness -- Handedness and Motor Abilities -- Hand Preference and Hand Skill -- Left-Handedness and Success in Sport -- Left-Handedness and Boxing -- References -- Handedness of Children Determines Preferential Facial and Eye Movements Related to Hemispheric Specialization* -- Abstract -- Background -- Methods -- Results -- Introduction -- Methods -- Subjects -- Procedures -- Statistical Analysis -- Results -- Discussion -- Acknowledgment -- References -- Index.

Sommario/riassunto

Handedness is an attribute of humans defined by their unequal distribution of fine motor skill between the left and right hands. A minority of people are equally skilled with both hands, and are termed ambidextrous. This book presents current research in the study of handedness, including the significance of knot-tying habits in handedness research and forensic science; manual laterality and hemispheric specialization for language; handedness and mental rotation; handedness and achievement in sports and handedness of children determines preferential facial and eye movements.