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System Biology - Diagnosis As The Foundation Of Acupoint Selection -- Modernization Of Acupuncture Using High-Tech Methods - Teleacupuncture Bridges Science And Practice -- Future Research In Acupuncture - Better Design And Analysis For Novel And Valid Findings.

Sommario/riassunto

Written by over 60 scientists and clincicians from the United States, mainland China, Germany, Australia, Japan, Sweden, Portugal and Hong Kong, Current Research in Acupuncture discusses recent advances in acupuncture research in a modern scientific language. The first 5 chapters investigate the basic mechanisms of acupuncture. Later chapters explore topics including acupuncture treatment and potential mechanisms for epilepsy, Parkinson's diseases, neurodegenerative disorders such as Alzheimer's disease, vascular cognitive impairment, aging, anxiety, polycystic ovary syndrome, pain, nerve root cervical spondylosis, stroke, imflamation, myocardial ischemia and other cardiovascular diseases. Following the translational and clinical discussions, 4 chapters present new prospects for acupuncture theories and applications. The final chapter comments on the pitfalls and problems of the previous studies and suggests direction for future research towards in-depth understanding of acupuncture, along with better application of acupuncture in modern medicine. Each chapter is written by one or more experts in the field. This unique book provides a broad perspective on the principles of acupuncture for acupuncture researchers and neuroscientists. The laboratory and clinical investigations of various acupoints and optimal conditions provide unique clues to acupuncturists for improved clinical efficacy. For a medical student, this book is a modern course in ancient Traditional Chinese Medicine, especially acupuncture. Ying Xia, the chief editor, is Professor and Vice-Chairman of the Department of Neurosurgery at The University of Texas Medical School in Houston, Texas, USA. Guanghong Ding is Professor in the Department of Mechanics and Engineering Science at Fudan University and Director of Shanghai Research Center for Acupuncture and Meridians, Shanghai, China. Gen-Cheng Wu is Professor of Neurobiology; Chairman, Department of Integrative Medicine and Neurobiology; Director, Institute of Acupuncture Research; and Director, WHO Collaborating Center for Traditional Medicine, at Shanghai Medical College of Fudan University, Shanghai, China.