
Contents

Preface IX

Part 1 Acupuncture Basic Concepts 1

- Chapter 1 **Traditional Theory 3**
Mohammad Ali Sahmeddini

Part 2 Research About Physiologic Effects 25

- Chapter 2 **Vascular Effects of Auricular
Acupuncture Evaluated via Two Digital
Volume Pulse Measurements 27**
José F. Rivas-Vilchis, Jorge Alberto Cervantes-Reyes
and Rubén Román-Ramos

- Chapter 3 **The Effect of Acupuncture
on Muscle Blood Volume and Oxygenation 35**
Masaki Ohkubo, Takafumi Hamaoka, Yasuhisa Kaneko,
Toshihito Katsumura and Ayumi Sakamoto

- Chapter 4 **An fMRI Investigation on Brain Activity in Response
to Unilateral Acupuncture, Electroacupuncture
and Electromyostimulation on ST36 and ST39 49**
Li-Ping Huang, Shi Zhou, Xi-Lian Hu,
Xia Li, Heng Xiang, Na Xiao, Long-Jun Cao,
Yong-Jun Wang and Hui Wang

- Chapter 5 **Electroacupuncture and Stimulatory
Frequencies in Analgesia 69**
Sandra Silvério-Lopes

Part 3 New Proposed Concepts 91

- Chapter 6 **Is Acupuncture Meridians a Novel System
for Superoxide Disposition 93**
Jingke Guo and Pingfan Rao

- Chapter 7 **Blood Flow Volume as an Indicator of the Effectiveness of Traditional Medicine 113**
Takashi Seki, Masashi Watanabe and Shin Takayama
- Chapter 8 **Degeneration/Regeneration as a Mechanism Contributing to the Effect of Manual Acupuncture-Induced Injury on Rat Skeletal Muscle 137**
Kamal Ameis, Annapurni Jayam Trough,
Vernon Bond and Yasmine Kanaan
- Chapter 9 **A Neurovascular Blood-Flow Modulation Model via Acupuncture Induced Nitric Oxide 151**
Sheng-Hsiung Hsiao
- Chapter 10 **Acupuncture – An Electrical Phenomenon 165**
Karlheinz Helmbold
- Part 4 Current Scenario 173**
- Chapter 11 **Acupuncture Analgesia Research and Clinical Practice in Taiwan 175**
Jaung-Geng Lin and Yi-Hung Chen
- Chapter 12 **A Spatial Analysis of Acupuncture Practitioners in Ontario, Canada: Assessing Regional and Intra-Metropolitan Trends 201**
Stephen P. Meyer
- Chapter 13 **Development of Scientific Publications on Acupuncture 219**
Jenny-Ann Brodin Danell and Rickard Danell