

Περιεχόμενα:

List of contributors ix

Foreword xiii

Acknowledgements xv

Notes on authors xvii

Introduction 1

Section I: Neurobiology of pain: Recent advances 11

1 Anatomy of pain pathways 13

Andrew J. Todd

2 Spinal plasticity of the nociceptive system: The role of central sensitization in chronic pain states 35

Alban Latremolière

3 Symptoms and pathology in neuropathic pain 89

Matthew Thakur and Stephen B. McMahon

4 Recent advances in neuroimmune interactions in neuropathic pain: The role of microglia 123

Elizabeth A. Old, Louise S. C. Nicol and Marzia Malcangio

5 Genetics and epigenetics of pain 149

Franziska Denk and Stephen B. McMahon

6 The cannabinoid system and its role in nociception 169

Massimiliano Beltramo

7 EphB receptors and persistent pain 201

Isabella Gavazzi

Section II: Pain in the brain 225

8 Brain imaging in experimental pain 227

Massieh Moayedi and Tim V. Salomons

9 Placebo effects in pain 249

Luana Colloca, Adam P. Horin and Damien Finniss

10 Psychology and pain 267
Lance M. McCracken

Section III: Pain in the lifecycle and in nervous system disorders 281

11 Pain in neonates and infants 283
Fiona Moultrie, Sezgi Goksan, Ravi Poorun and Rebeccah Slater

12 How do people with autism spectrum disorders (ASD) experience pain? 295
Cecile Rattaz, Amandine Dubois and Amaria Baghdadli

13 Pain and depression: The janus factor of human suffering 317
Angela Iannitelli and Paola Tirassa

14 Pain in multiple sclerosis: From classification to treatment 345
Claudio Solaro and Michele Messmer

15 Pain perception in dementia 361
Miriam Kunz and Stefan Lautenbacher

16 The role of cognitive impairment in the placebo and nocebo effects 373
Martina Amanzio

17 An overview of pain in parkinson's disease 387
Panagiotis Zis, Elisaveta Sokolov and Kallol Ray Chaudhuri

Appendix: Interviews with chronic pain patients 409