

Contents

List of Contributors ix

Part 1 The origins and functions of music 1

Edited by Ian Cross

- 1 The nature of music and its evolution 3
Ian Cross
- 2 Universals in music processing 14
Catherine Stevens and Tim Byron
- 3 Music and meaning 24
Ian Cross and Elizabeth Tolbert
- 4 The social and personal functions of music in cross-cultural perspective 35
Martin Clayton

Part 2 Music perception 45

Edited by Ian Cross

- 5 The perception of pitch 47
Thomas Stainsby and Ian Cross
- 6 Tonal cognition 59
Emmanuel Bigand and Bénédicte Poulin-Charronnat
- 7 The perception of musical timbre 72
Stephen McAdams and Bruno L. Giordano
- 8 Musical time 81
Mari Riess Jones
- 9 Components of melodic processing 93
Mark A. Schmuckler
- 10 Memory for music 107
Bob Snyder

Part 3 Responses to music 119

Edited by Donald A. Hodges

- 11 Bodily responses to music 121
Donald A. Hodges

- 12 Emotional responses to music 131
Patrik N. Juslin
- 13 The relationship between musical structure and perceived expression 141
Alf Gabrielsson
- 14 Aesthetics 151
David Huron
- 15 Musical preferences 160
Alexandra Lamont and Alinka Greasley

Part 4 Music and the brain 169

Edited by Aniruddh D. Patel

- 16 The neurobiological basis of musical expectations 171
Laurel J. Trainor and Robert J. Zatorre
- 17 Disorders of musical cognition 184
Lauren Stewart, Katharina von Kriegstein, Simone Dalla Bella, Jason D. Warren and Timothy D. Griffiths
- 18 Music, musicians, and brain plasticity 197
Gottfried Schlaug
- 19 Music and the brain: three links to language 208
Aniruddh D. Patel

Part 5 Musical development 217

Edited by David J. Hargreaves

- 20 Prenatal development and the phylogeny and ontogeny of music 219
Richard Parncutt
- 21 Music lessons from infants 229
Sandra E. Trehub
- 22 Music in the school years 235
Alexandra Lamont
- 23 The impact of music instruction on other skills 244
Frances H. Rauscher

Part 6 Learning musical skills 253

Edited by Susan Hallam

- 24 Musical potential 255
Gary McPherson and Susan Hallam
- 25 Practising 265
Harald Jørgensen and Susan Hallam
- 26 Individuality in the learning of musical skills 274
Helena Gaunt and Susan Hallam
- 27 Motivation to learn 285
Susan Hallam
- 28 The role of the family in supporting learning 295
Andrea Creech

- 29 The role of the institution and teachers in supporting learning 307
Graham Welch and Adam Ockelford

Part 7 Musical performance 321

Edited by Richard Parncutt

- 30 Measurement and models of performance 323
W. Luke Windsor
- 31 Planning and performance 332
Eckart Altenmüller and Sabine Schneider
- 32 Sight-reading 344
Andreas C. Lehmann and Reinhard Kopiez
- 33 Performing from memory 352
Roger Chaffin, Topher R. Logan and Kristen T. Begosh
- 34 Movement and collaboration in musical performance 364
Jane W. Davidson
- 35 Emotion in music performance 377
Patrik N. Juslin
- 36 Optimizing physical and psychological health in performing musicians 390
Dianna T. Kenny and Bronwen Ackermann

Part 8 Composition and improvisation 401

Edited by Peter Webster

- 37 Making a mark: the psychology of composition 403
Jonathan Impett
- 38 Musical improvisation 413
Richard Ashley
- 39 Children as creative thinkers in music: focus on composition 421
Peter R. Webster

Part 9 The role of music in everyday life 429

Edited by John Sloboda

- 40 Choosing to hear music: motivation, process and effect 431
John Sloboda, Alexandra Lamont and Alinka Greasley
- 41 Music in performance arts: film, theatre, and dance 441
Annabel J. Cohen
- 42 Peak experiences in music 452
John Whaley, John Sloboda and Alf Gabrielsson
- 43 Musical identities 462
Raymond MacDonald, David J. Hargreaves and Dorothy Miell
- 44 The effects of music in community and educational settings 471
Susan Hallam and Raymond MacDonald
- 45 Music and consumer behaviour 481
Adrian C. North and David J. Hargreaves

Part 10 Music therapy 491

Edited by Michael Thaut

- 46 Processes of music therapy: clinical and scientific rationales and models 493
Shannon de l'Etoile
- 47 Clinical practice in music therapy 503
Corene Hurt-Thaut
- 48 Research and evaluation in music therapy 515
Barbara L. Wheeler
- 49 Music therapy in medical and neurological rehabilitation settings 526
Anne Kathrin Leins, Ralph Spintge and Michael Thaut

**Part 11 Conceptual frameworks, research methods
and future directions** 537

Edited by Susan Hallam, Ian Cross and Michael Thaut

- 50 Beyond music psychology 539
Adam Ockelford
- 51 History and research 552
Michael Thaut
- 52 Where now? 561
Susan Hallam, Ian Cross and Michael Thaut

Index 569