

CONTENTS

List of Contributors

xi

PART 1 THE ORIGINS AND FUNCTIONS OF MUSIC

EDITED BY IAN CROSS

1. The nature of music and its evolution 3
IAN CROSS
2. Universals in music processing: Entrainment, acquiring
expectations, and learning 19
CATHERINE J. STEVENS AND TIM BYRON
3. Music and meaning 33
IAN CROSS AND ELIZABETH TOLBERT
4. The social and personal functions of music
in cross-cultural perspective 47
MARTIN CLAYTON

PART 2 MUSIC PERCEPTION

EDITED BY IAN CROSS

5. The perception of pitch 63
THOMAS STAINSBY AND IAN CROSS
6. Absolute pitch 81
PSYCHE LOUI
7. Tonal cognition 95
EMMANUEL BIGAND AND BÉNÉDICTE POULIN-CHARRONNAT
8. The perception of musical timbre 113
STEPHEN MCADAMS AND BRUNO L. GIORDANO

9. Musical time 125
MARI RIESS JONES
10. Tonality and contour in melodic processing 143
MARK A. SCHMUCKLER
11. Memory for music 167
BOB SNYDER

PART 3 RESPONSES TO MUSIC

EDITED BY DONALD A. HODGES

12. Bodily responses to music 183
DONALD A. HODGES
13. Emotional reactions to music 197
PATRIK N. JUSLIN
14. The relationship between musical structure
and perceived expression 215
ALF GABRIELSSON
15. Aesthetics 233
DAVID HURON
16. The neuroaesthetics of music 247
DONALD A. HODGES
17. Musical preferences 263
ALINKA GREASLEY AND ALEXANDRA LAMONT

PART 4 MUSIC AND THE BRAIN

EDITED BY JESSICA A. GRAHN

18. The neurobiology of musical expectations
from perception to emotion 285
LAUREL J. TRAINOR AND ROBERT J. ZATORRE
19. Disorders of music cognition 307
PSYCHE LOUI
20. Music and brain plasticity 325
SIMONE DALLA BELLA

21. The relationship between music and language 343
SEBASTIAN JENTSCHKE
22. The neuroscience of rhythm 357
DANIEL J. CAMERON AND JESSICA A. GRAHN

PART 5 MUSICAL DEVELOPMENT

EDITED BY ALEXANDRA LAMONT

23. Prenatal development and the phylogeny and ontogeny
of musical behavior 371
RICHARD PARNCUTT
24. Infant musicality 387
SANDRA E. TREHUB
25. Musical development from the early years onwards 399
ALEXANDRA LAMONT
26. Music training and nonmusical abilities 415
E. GLENN SCHELLENBERG

PART 6 LEARNING MUSICAL SKILLS

EDITED BY SUSAN HALLAM

27. Musical potential 433
GARY E. MCPHERSON AND SUSAN HALLAM
28. Practicing 449
HARALD JØRGENSEN AND SUSAN HALLAM
29. Individuality in the learning of musical skills 463
HELENA GAUNT AND SUSAN HALLAM
30. Motivation to learn 479
SUSAN HALLAM
31. The role of the family in supporting learning 493
ANDREA CREECH
32. The role of the institution and teachers in supporting learning 509
GRAHAM WELCH AND ADAM OCKELFORD

PART 7 MUSICAL PERFORMANCE

EDITED BY RICHARD PARNCUTT

33. Planning and performance 529
ECKART ALTENMÜLLER AND SHINICHI FURUYA
34. Sight-reading 547
ANDREAS C. LEHMANN AND REINHARDT KOPIEZ
35. Performing from memory 559
ROGER CHAFFIN, ALEXANDER P. DEMOS, AND TOPHER LOGAN
36. Bodily mediated coordination, collaboration,
and communication in music performance 573
JANE W. DAVIDSON AND MARY C. BROUGHTON
37. Emotion in music performance 597
PATRIK N. JUSLIN AND ERIK LINDSTRÖM
38. Expression and communication of structure in music
performance: Measurements and models 615
ERICA BISESI AND W. LUKE WINDSOR
39. Optimizing physical and psychological health
in performing musicians 633
DIANNA T. KENNY AND BRONWEN J. ACKERMANN

PART 8 COMPOSITION AND IMPROVISATION

EDITED BY PETER R. WEBSTER

40. Making a mark: The psychology of composition 651
JONATHAN IMPETT
41. Musical improvisation 667
RICHARD ASHLEY
42. Pathways to the study of music composition by preschool
to precollege students 681
PETER R. WEBSTER

PART 9 THE ROLE OF MUSIC IN OUR EVERYDAY LIVES

EDITED BY RAYMOND MACDONALD

43. Choosing to hear music: Motivation, process, and effect 711
ALEXANDRA LAMONT, ALINKA GREASLEY, AND JOHN SLOBODA
44. Music in performance arts: Film, theater, and dance 725
ANNABEL J. COHEN
45. Peak experiences in music 745
ALF GABRIELSSON, JOHN WHALEY, AND JOHN SLOBODA
46. Musical identities 759
DAVID J. HARGREAVES, RAYMOND MACDONALD,
AND DOROTHY MIELL
47. The effects of music in community and educational settings 775
SUSAN HALLAM AND RAYMOND MACDONALD
48. Music and consumer behavior 789
ADRIAN C. NORTH, DAVID J. HARGREAVES,
AND AMANDA E. KRAUSE

PART 10 MUSIC THERAPY

EDITED BY MICHAEL THAUT

49. Processes of music therapy: Clinical and scientific
rationales and models 805
SHANNON K. DE L'ETOILE
50. Clinical practice in music therapy 819
CORENE HURT-THAUT
51. Research in music therapy 837
BARBARA L. WHEELER
52. Music therapy in medical and neurological rehabilitation settings 857
STEFAN MAINKA, RALPH SPINTGE, AND MICHAEL THAUT

PART 11 CONCEPTUAL FRAMEWORKS, RESEARCH METHODS, AND FUTURE DIRECTIONS

EDITED BY SUSAN HALLAM, IAN CROSS, AND MICHAEL THAUT

53.	Beyond music psychology	877
	ADAM OCKELFORD	
54.	History and research	893
	MICHAEL THAUT	
55.	Where now?	905
	SUSAN HALLAM, IAN CROSS, AND MICHAEL THAUT	
	<i>Index</i>	915