

## Contents

Acknowledgments	xi
Introduction <i>Nina Levent and Alvaro Pascual-Leone</i>	xiii
<b>PART I: MUSEUMS AND TOUCH</b>	
<b>1</b> Please DO Touch the Exhibits! Interactions between Visual Imagery and Haptic Perception <i>Simon Lacey and K. Sathian</i>	3
<b>2</b> “First Hand,” not “First Eye” Knowledge: Bodily Experience in Museums <i>Francesca Bacci and Francesco Pavani</i>	17
<b>3</b> Art Making as Multisensory Engagement: Case Studies from The Museum of Modern Art <i>Carrie McGee and Francesca Rosenberg</i>	29
<b>4</b> Multisensory Engagement with Real Nature Relevant to Real Life <i>Molly Steinwald, Melissa A. Harding, and Richard V. Piacentini</i>	45
<b>5</b> Touch and Narrative in Art and History Museums <i>Nina Levent and D. Lynn McRainey</i>	61

## PART II: MUSEUMS AND SOUND

- 6** A Brain Guide to Sound Galleries 85  
*Stephen R. Arnott and Claude Alain*
- 7** Ephemeral, Immersive, Invasive: Sound as Curatorial Theme, 1966–2013 109  
*Seth Cluett*
- 8** Soundwalking the Museum: A Sonic Journey through the Visual Display 119  
*Salomé Voegelin*
- 9** The Role of Sensory and Motor Systems in Art Appreciation and Implications for Exhibit Design 131  
*A. Casile and L. F. Ticini*

## PART III: SMELL AND TASTE IN MUSEUMS

- 10** The Forgotten Sense: Using Olfaction in a Museum Context: A Neuroscience Perspective 151  
*Richard J. Stevenson*
- 11** The Scented Museum 167  
*Andreas Keller*
- 12** The Museum as Smellscape 177  
*Jim Drobnick*
- 13** Taste-full Museums: Educating the Senses One Plate at a Time 197  
*Irina D. Mihalache*

## PART IV: MUSEUM ARCHITECTURE AND THE SENSES

- 14** Navigating the Museum 215  
*Fiona Zisch, Stephen Gage, and Hugo Spiers*
- 15** Museum as an Embodied Experience 239  
*Juhani Pallasmaa*

- 16** Architectural Design for Living Artifacts 251  
*Joy Monice Malnar and Frank Vodvarka*

## **PART V: FUTURE MUSEUMS**

- 17** Multisensory Memories: How Richer Experiences Facilitate Remembering 273  
*Jamie Ward*
- 18** The Secret of Aesthetics Lies in the Conjugation of the Senses: Reimagining the Museum as a Sensory Gymnasium 285  
*David Howes*
- 19** Multisensory Mental Simulation and Aesthetic Perception 301  
*Salvatore Maria Aglioti, Ilaria Bufalari, and Matteo Candidi*
- 20** Islands of Stimulation: Perspectives on the Museum Experience, Present and Future 319  
*Rebecca McGinnis*
- 21** The Future Landscape of 3D in Museums 331  
*Samantha Sportun*
- 22** Technology, Senses, and the Future of Museums. A Conversation with Nina Levent, Heather Knight, Sebastian Chan, and Rafael Lozano Hammer 341
- Conclusion: Multisensory Art Museums and the Experience of Interconnection. 351  
*Elisabeth Axel and Kaywin Feldman in conversation with artists and curators*
- Index 361
- About the Contributors 371