Contents

List of contributors page vii
Preface xi

1 Grooming, sequencing, and beyond: how it all began 1
M. Frances Stilwell and John C. Fentress

2 Self-grooming as a form of olfactory communication in meadow voles and prairie voles (Microtus spp) 19
Michael H. Ferkin and Stuart T. Leonard

3 Phenotyping and genetics of rodent grooming and barbering: utility for experimental neuroscience research 46
Carisa L. Bergner, Amanda N. Smolinsky, Brett D. Dufour, Justin L. LaPorte, Peter C. Hart, Rupert J. Egan, and Allan V. Kalueff

4 Social play, social grooming, and the regulation of social relationships 66
Sergio M. Pellis and Vivien C. Pellis

5 Grooming syntax as a sensitive measure of the effects of subchronic PCP treatment in rats 88
Marie-Claude Audet and Sonia Goulet

6 Modulatory effects of estrogens on grooming and related behaviors 108
Rachel A. Hill and Wah Chin Boon
Contents

7 Lack of barbering behavior in the phospholipase Cβ1 mutant mouse: a model animal for schizophrenia 131
Hee-Sup Shin, Daesoo Kim, and Hae-Young Koh

8 Grooming after cerebellar, basal ganglia, and neocortical lesions 145
Robert Lalonde and C. Strazielle

9 Striatal implementation of action sequences and more: grooming chains, inhibitory gating, and the relative reward effect 156
Howard Casey Cromwell

10 An ethological analysis of barbering behavior 184
Brett D. Dufour and Joseph P. Garner

11 Should there be a category: “grooming disorders?” 226
Lara J. Hoppe, Jonathan Ipser, Christine Lochner, Kevin G. F. Thomas, and Dan J. Stein

12 Neurobiology of trichotillomania 252
Srinivas Singisetti, Sam R. Chamberlain and Naomi A. Fineberg

Index 271