Contents

Contributors ix
Foreword xi
Introduction xv
About the companion website xix

1. Corticotomy-facilitated orthodontics: Clarion call or siren song 1
   Neal C. Murphy, M. Thomas Wilcko, Nabil F. Bissada, Ze’ev Davidovitch,
   Donald H. Enlow, and Jesse Dashe

2. Accelerated tooth movement following alveolar corticotomy: Laboratory
   canine model evidence 41
   Donald J. Ferguson

3. Corticotomy-facilitated orthodontics: Surgical considerations 59
   Pushkar Mehra and Hasnain Shinwari

4. Orthodontic applications of alveolus decortication 87
   Neal C. Murphy

5. Piezocision™: Minimally invasive periodontally accelerated orthodontic
   tooth movement procedure 119
   Serge Dibart and Elif I. Keser

6. Orthodontically driven corticotomy: Tissue engineering to enhance the
   treatment, guided by the orthodontist 145
   Federico Brugnami and Alfonso Caiazzo
7. Orthodontically driven corticotomy: Tissue engineering to expand the basal bone, modify the periodontal biotype and lowering the risks of orthodontic damage to the periodontium 189
   Federico Brugnami and Alfonso Caiazzo

8. Orthodontically driven corticotomy: Tissue engineering to enhance adult and multidisciplinary treatment 219
   Federico Brugnami and Alfonso Caiazzo

9. Treatment efficiency with the use of skeletal anchorage and corticotomy 257
   Birte Melsen and Cesare Luzi

10. Anterior open-bite treatment through orthodontically driven corticotomy 285
    Nagwa Helmy El-Mangoury, Helmy Y. Mostafa, and Raweya Y. Mostafa

Index 299