

## **Volume 1**

### **Part 1 Anatomy**

#### 1 Anatomy and Histology of Periodontal Tissues

*Dieter D. Bosshardt, Jan Lindhe, Niklaus P. Lang, and Maurício Araújo*

#### 2 Bone as a Living Organ

*Darnell Kaigler and William V. Gannobile*

#### 3 The Edentulous Ridge

*Maurício Araújo and Jan Lindhe*

#### 4 The Mucosa at Teeth and Implants

*Jan Lindhe, Tord Berglundh, Anton Sculean, and Niklaus P. Lang*

#### 5 Osseointegration

*Niklaus P. Lang, Tord Berglundh, and Dieter D. Bosshardt*

### **Part 2 Epidemiology**

#### 6 Epidemiology of Periodontitis

*Panos N. Papapanou and Ryan T. Demmer*

#### 7 Epidemiology of Peri-Implant Diseases

*Jan Derkx, Cristiano Tomasi, and Tord Berglundh*

### **Part 3 Microbiology**

#### 8 Dental Biofilms and Calculus

*Philip D. Marsh, Mariano Sanz, Niklaus P. Lang, and Dieter D. Bosshardt*

#### 9 Periodontal and Peri-Implant Infections

*Mike Curtis, Lisa Heitz-Mayfield, and Mariano Sanz*

### **Part 4 Host–Parasite Interactions**

#### 10 Pathogenesis of Gingivitis and Periodontitis

*Gregory J. Seymour, Tord Berglundh, and Leonardo Trombelli*

#### 11 Systemic and Environmental Modifying Factors

*Evanthia Lalla and Panos N. Papapanou*

#### 12 Genetic Susceptibility to Periodontal Disease: New Insights and Challenges

*Arne S. Schaefer, Ubele van der Velden, Marja L. Laine, and Bruno G. Loos*

### **Part 5 Trauma from Occlusion**

13 Effect of Load on Periodontal and Peri-Implant Tissues

*Jan Lindhe, Niklaus P. Lang, and Tord Berglundh*

## **Part 6 Periodontal Pathology**

14 Non-Plaque-Induced Gingival Diseases

*Palle Holmstrup and Mats Jontell*

15 Plaque-Induced Gingivitis

*Leonardo Trombelli, Roberto Farina, and Dimitris N. Tatakis*

16 Current Classification of Periodontitis

*Panos N. Papapanou, Mariano Sanz, and Kenneth Kornman*

17 Effect of Periodontal Diseases on General Health: Periodontal Medicine

*Francesco D'Aiuto, Filippo Graziani, Panos N. Papapanou, and James Beck*

18 Periodontitis and Systemic Diseases (Cardiovascular Disease and Diabetes): Biological Perspectives for Oral/Periodontal Implications

*Alpdogan Kantarci and Hatice Hasturk*

19 Abscesses, Necrotizing Lesions of the Periodontium, and Endo-Periodontal Lesions

*David Herrera and Magda Feres*

## **Part 7 Peri-implant Pathology**

20 Peri-Implant Mucositis and Peri-Implantitis

*Tord Berglundh, Jan Lindhe, and Niklaus P. Lang*

## **Part 8 Tissue Regeneration**

21 Periodontal Wound Healing and Regeneration

*Darnell Kaigler, Giulio Rasperini, Saso Ivanovski, and William V. Giannobile*

## **Volume 2**

## **Part 9 Examination Protocols**

22 Examination of Patients

*Giovanni E. Salvi, Tord Berglundh, and Niklaus P. Lang*

23 Diagnostic Imaging of the Periodontal and Implant Patient

*Michael M. Bornstein, Kuofeng Hung, and Dorothea Dagassan-Berndt*

24 Patient-Specific Risk Assessment for Implant Therapy

*Giovanni E. Salvi and Niklaus P. Lang*

## **Part 10 Treatment Planning Protocols**

25 Treatment Planning of Patients with Periodontal Diseases

*Giovanni E. Salvi, Niklaus P. Lang, and Pierpaolo Cortellini*

26 Systemic Phase of Therapy

*Niklaus P. Lang, Iain Chapple, Christoph A. Ramseier, and Hans-Rudolf Baur*

## **Part 11 Initial Periodontal Therapy (Infection Control)**

27 Oral Hygiene Motivation

*Jeanie E. Suvan and Christoph A. Ramseier*

28 Mechanical Supragingival Plaque Control

*Fridus Van der Weijden and Dagmar Else Slot*

29 Chemical Dental Biofilm Control

*David Herrera and Jorge Serrano*

30 Non-Surgical Therapy

*Jan L. Wennström and Cristiano Tomasi*

31 Treatment of Acute Periodontal and Endo-Periodontal Lesions

*David Herrera and Magda Feres*

## **Part 12 Additional Therapy**

32 Periodontal Surgery

*Mariano Sanz, Jan L. Wennström, and Filippo Graziani*

33 Treatment of Furcation-Involved Teeth

*Søren Jepsen, Peter Eickholz, and Luigi Nibali*

34 Non-Surgical Therapy of Peri-Implant Mucositis and Peri-Implantitis

*Lisa Heitz-Mayfield, Giovanni E. Salvi, and Frank Schwarz*

35 Surgical Treatment of Peri-Implantitis

*Tord Berglundh, Jan Derkx, Niklaus P. Lang, and Jan Lindhe*

36 Systemic Antibiotics in Periodontal Therapy

*Magda Feres and David Herrera*

37 Local Antimicrobial Delivery for the Treatment of Periodontitis and Peri-Implant Diseases

*Maurizio S. Tonetti and David Herrera*

## **Part 13 Reconstructive Therapy**

38 Regenerative Periodontal Therapy

*Pierpaolo Cortellini and Maurizio S. Tonetti*

39 Mucogingival Therapy: Periodontal Plastic Surgery

*Mariano Sanz, Jan L. Wennström, Massimo de Sanctis, and Anton Sculean*

#### **Part 14 Surgery for Implant Installation**

40 Timing of Implant Placement

*Christoph H.F. Hämmерle, Maurício Araújo, and Jan Lindhe*

#### **Part 15 Reconstructive Ridge Therapy**

41 Ridge Augmentation Procedures

*Fabio Vignoletti, Darnell Kaigler, William V. Giannobile, and Mariano Sanz*

42 Maxillary Sinus Floor Augmentation

*Gustavo Avila-Ortiz, Bjarni E. Pjetursson, and Niklaus P. Lang*

#### **Part 16 Occlusal and Prosthetic Therapy**

43 Tooth-Supported Fixed Dental Prostheses

*Jan Lindhe, Niklaus P. Lang, and Sture Nyman*

44 Implant-Supported Fixed Dental Prostheses

*Ronald. E. Jung, Franz J. Strauss, and Daniel S. Thoma*

45 Implants in the Zone of Esthetic Priority

*Rino Burkhardt, Franz J. Strauss, and Ronald. E. Jung*

46 Technical Complications in Implant Dentistry

*Clark M. Stanford and Lyndon F. Cooper*

#### **Part 17 Orthodontics and Periodontics**

47 Tooth Movement in the Periodontally Compromised Patient

*Mariano Sanz and Conchita Martin*

#### **Part 18 Supportive Care**

48 Supportive Periodontal Therapy

*Christoph A. Ramseier, Niklaus P. Lang, Janet Kinney, Jeanie E. Suvan, Giedré Matulienė, and Giovanni E. Salvi*