Exploring innovative approaches and genetic roles in periodontal health care: a narrative review

Lucia Memè[1*]
Fabrizio Bambini[1*]
Pietro Lauria[2*]
Claudio Carone[2]
Francesco Sabatelli[2]
Gustavo Vincentis Oliveira Fernandes[3]
Ioana Roxana Bordea[4*]
Micaela Del Vecchio[1]
Erda Qorri[5]
Lwai Almasri[6]
Marwa Alkassab[7]
Maher Almasri[7]
Maria Contaldo[10]
Giuseppe Ferraro[9]
Andrea Palermo[6]

[1] D.I.S.C.O. School of Dentistry, Polytechnic University of Marche, Ancona, Italy.
[2] Department of Interdisciplinary Medicine, University of Bari "Aldo Moro" Bari, Italy.
[3] Missouri School of Dentistry & Oral Health, A. T. Still University, St. Louis, MO, United States
[4] Department of Oral Rehabilitation, Faculty of Dentistry, Iuliu Haţieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania.
[5] Department of Dentistry, Faculty of Medical Sciences, Albanian University, Tirana, Albania.
[7] King's College London, U.K.
[8] The University of Buckingham, U.K.
[9] Department of Medicine and Health Sciences "Vincenzo Tiberio" Molise, Italy
[10] Multidisciplinary Department of Medical-Surgical and Dental Specialties, University of Campania Luigi Vanvitelli, Naples, Italy
[6] University of Salento, Lecce, Italy

Corresponding author: Ioana Roxana Bordea
e-mail: roxana.bordea@ymail.com

*These authors contributed equally as first authors.
**These authors contributed equally as the last authors

Abstract

Periodontitis is a common inflammatory disorder that causes irreversible damage to the periodontium, resulting in tooth mobility and loss, negatively affecting quality of life. It is also linked to systemic diseases like cardiovascular problems, diabetes, and rheumatoid arthritis due to common inflammatory pathways. The disease develops from a complex interplay between microbial, genetic, host, and environmental factors. Bacteria such as Porphyromonas gingivalis and Treponema denticola disrupt the immune response, promoting tissue destruction. Traditional treatments like scaling and root planing (SRP) and surgical methods reduce microbial burden but fail to address host-microbe interactions completely. New advancements in microbiome research and personalized medicine offer hope for more precise therapies targeting individual risk factors.

This review explores the pathogenesis of periodontitis, current treatment strategies, and the genetic aspects influencing the disease. It highlights the role of microbial imbalance, with harmful bacteria exacerbating inflammation and tissue damage. Non-surgical treatments such as SRP are foundational, while adjunct therapies like antibiotics, probiotics, and regenerative approaches, including bone grafting, offer additional benefits. The review also emphasizes the potential of personalized treatments based on genetic and microbial profiling, offering the possibility of more effective, targeted therapies for improved long-term patient outcomes.

Authors

Lucia Memè - Fabrizio Bambini - Micaela Del Vecchio - D.I.S.C.O. School of Dentistry, Polytechnic University of Marche, Ancona, Italy

Pietro Lauria - Claudio Carone - Francesco Sabatelli - Department of Interdisciplinary Medicine, University of Bari "Aldo Moro" Bari, Italy

Ioana Roxana Bordea - Department of Oral Rehabilitation, Faculty of Dentistry, Iuliu Haţieganu University of Medicine and Pharmacy, Cluj-Napoca, Romania

Gustavo Vincentis Oliveira Fernandes - Missouri School of Dentistry & Oral Health, A. T. Still University, St. Louis, MO, United States

Erda Qorri - Department of Dentistry, Faculty of Medical Sciences, Albanian University, Tirana, Albania

Lwai Almasri - King's College London, U.K.

Marwa Alkassab - Maher Almasri - The University of Buckingham, U.K.

Giuseppe Ferraro - Department of Medicine and Health Sciences "Vincenzo Tiberio" Molise, Italy

Maria Contaldo - Multidisciplinary Department of Medical-Surgical and Dental Specialties, University of Campania Luigi Vanvitelli, Naples, Italy

Andrea Palermo - University of Salento, Lecce, Italy

How to Cite
L. Memè, F. Bambini, P. Nardelli, S. Chieppa, F. Sabatelli, I.R. Bordea, G.V.O. Fernandes, E. Qorri, L. Almasri, M. Alkassab, M. Contaldo, G. Ferraro, A. Palermo.
Exploring innovative approaches and genetic roles in periodontal health care: a narrative review.
Oral and Implantology
Vol. 16 No. 3 (S1) (2024), 378-393.
https://doi.org/10.11138/oi.v16i3 (S1).86

Keywords: Periodontitis, Periodontal Disease, Therapeutic Strategies, Genetic Factors, Regenerative Therapye

Introduction

Periodontitis is a prevalent inflammatory condition that irreversibly damages the periodontium, leading to tooth mobility, loss, and reduced quality of life (1–7). Beyond oral health, it is linked to systemic conditions like cardiovascular disease, diabetes, and rheumatoid arthritis via shared inflammatory pathways (8–14). The disease arises from a complex microbial, host, genetic, and environmental interaction (15–21). Pathogens such as Porphyromonas gingivalis and Treponema denticola disrupt immune defenses, driving tissue destruction and bone resorption (22–30). While treatments like scaling and surgical interventions reduce microbial load, addressing host-microbial interactions remains challenging (31–37). Advances in personalized medicine and microbiome research offer promise for tailored therapies targeting individual risk factors (38–44).

Methodology

This narrative review was conducted to offer an in-depth analysis of periodontal disease, its treatment options, and the genetic factors involved. The methodology is summarized below:

Literature Search

A comprehensive search was conducted in the following academic databases:

- PubMed
- Scopus
- Web of Science
- Google Scholar

Search Terms

The search focused on terms related to periodontal disease, treatments, and genetic aspects. Key phrases included:

- Periodontitis and oral microbiota
- Periodontal therapy and adjunct treatments
- Scaling and root planing, antibiotics
- Genetic factors and periodontitis
- Probiotics, postbiotics, and periodontal health
- Regenerative therapies and periodontal outcomes

The search was confined to studies published in English from January 2004 to May 2024, prioritizing clinical studies involving humans.

Inclusion Criteria

- Studies on periodontal disease, with a particular emphasis on periodontitis.
- Research on therapeutic interventions, including scaling and root planing, antimicrobial treatments, probiotics, and regenerative methods.
- Articles investigating genetic factors and the oral microbiota in periodontitis.
- Clinical trials, observational studies, and systematic reviews that provide relevant data.

Exclusion Criteria

- Studies not published in English or before 2004.
- Animal or laboratory studies lacking clinical relevance.
- Editorials, commentaries, and case reports without substantial data.

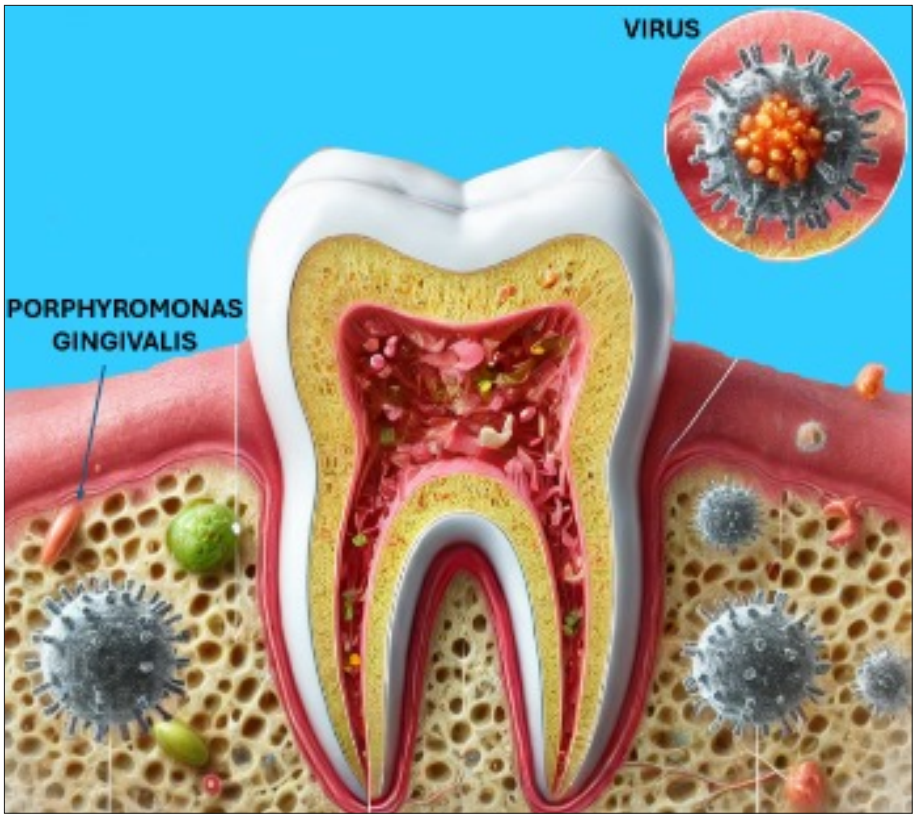

Figure 1. Illustration of bacteria and viruses affecting the tooth.

Data Extraction and Categorization

The information from the selected studies was organized into key themes:

1. The pathogenesis of periodontitis (microbial, immune, and genetic influences).
2. Non-surgical and surgical treatment approaches.
3. Adjunctive treatments (such as antibiotics, probiotics, postbiotics).
4. Regenerative techniques (including enamel matrix derivatives, bone grafting, and growth factors).
5. Personalized treatment approaches integrating genetic data and microbiome analysis.

3) Pathogenesis of Periodontal Disease

Microbial Dysbiosis and Oral Microbiota in Periodontitis

The oral cavity is home to one of the most diverse and dynamic microbial ecosystems in the human body, with over 700 bacterial species identified (45–53). In a healthy state, this ecosystem is dominated by commensal and symbiotic microorganisms that maintain tissue homeostasis, modulate the immune response, and prevent colonization by opportunistic pathogens (54–60). However, when this balance is disrupted—whether by poor oral hygiene, smoking, systemic conditions, or other factors—a state of dysbiosis arises, leading to disease progression (61–67).

Microbial dysbiosis in periodontitis is marked by an overrepresentation of pathogenic species such as:

- Porphyromonas gingivalis: This keystone pathogen manipulates the immune response by producing proteases (gingipains) that degrade complement proteins and cytokines, dampening the host's innate defenses.
- Tannerella forsythia: Known for its proteolytic enzymes, this organism contributes to connective tissue degradation and facilitates microbial invasion.
- Treponema denticola: This motile spirochete enhances biofilm maturation and produces toxins that disrupt epithelial barrier integrity.

These bacteria are often called the "red complex" due to their strong association with disease severity (68–74). The shift in microbial composition also involves the enrichment of other taxa, including Filifactor blocks, Fusobacterium nucleatum, and Prevotella intermedia (75–81). These organisms interact synergistically to amplify the inflammatory response and drive tissue destruction (82–88).

Functional Changes in the Microbiota

Beyond taxonomic shifts, microbial dysbiosis is characterized by functional changes in the microbiome (89–93). Pathogenic communities exhibit increased metabolic activity, producing virulence factors, proteases, and metabolites (e.g., butyrate) that enhance inflammation and tissue destruction (94–98). These changes create a self-perpetuating cycle of inflammation and dysbiosis, underscoring the need for therapeutic interventions targeting microbial composition and function (99–105).

The host's immune system is crucial in the development of periodontitis (106–110). Its primary function is to eliminate pathogens, but prolonged immune response activation can result in tissue damage (111–115). The innate immune system detects bacterial components, such as lipopolysaccharides (LPS), through toll-like receptors (TLRs), triggering the release of cytokines like IL-1β and TNF-α (116–122). These cytokines recruit immune cells such as neutrophils and macrophages, which produce reactive oxygen species (ROS) and matrix metalloproteinases (MMPs), leading to tissue breakdown. Additionally, RANKL plays a key role in promoting bone resorption (123–127). The adaptive immune response is also involved, where Th17 cells contribute to inflammation by producing IL-17, while T regulatory cells (Tregs) release IL-10 to counteract this inflammation (128–132). An imbalance between these two cell types contributes to the chronic inflammation seen in periodontitis (133–137).

Therapeutic Approaches for Periodontal Disease Management

Non-Surgical Periodontal Therapy

Non-surgical therapy is the foundation for managing periodontal disease and is typically the first line of treatment for controlling infection and inflammation (138–142). The principal method in this category is scaling and root planing (SRP), a mechanical intervention that removes supra- and subgingival plaque, calculus, and bacterial biofilm to reduce the microbial burden and disrupt the pathogenic environment (143–149).

Scaling and Root Planing (SRP):

SRP involves physically removing debris and biofilm from tooth surfaces and periodontal pockets (150–156). Numerous clinical trials have demonstrated significant improvements in key periodontal parameters, including reduced probing pocket depth (PPD), improved clinical attachment level (CAL), and decreased bleeding on probing (BOP) following SRP (157–163). Additionally, SRP reduces systemic inflammatory markers, such as C-reactive protein (CRP), underscoring its benefits beyond the oral cavity (164–170). However, SRP has limitations, particularly in treating advanced periodontitis with deep periodontal pockets or furcation defects, where removing pathogenic microorganisms is challenging (171–175).

Adjunctive Antimicrobial Therapy

Antimicrobial therapy is often used as an adjunct to SRP to enhance treatment efficacy by targeting residual pathogens within periodontal pockets (176–182). Depending on the severity of the condition and the treatment objectives (183–189), these agents can be administered systemically or locally.

Systemic antibiotics are frequently prescribed in conjunction with SRP to target periodontal pathogens. Common antibiotics used include:

- Amoxicillin combined with metronidazole has shown enhanced efficacy against anaerobic bacteria such as P. gingivalis and T. forsythia.
- Tetracyclines: These agents exhibit bacteriostatic effects and inhibit matrix metalloproteinase (MMP) activity, reducing connective tissue destruction.

While antibiotics are effective in improving clinical outcomes, they are associated with the risk of systemic side effects, disruption of the gut microbiota, and the emergence of antimicrobial resistance (190–196).

Consequently, their use must be judicious and limited to specific indications, such as aggressive periodontitis or refractory cases (197–203).

Locally Delivered Antimicrobials (LDAs):

LDAs offer a targeted approach to delivering antimicrobial agents directly into periodontal pockets. Examples of LDAs include:

- Chlorhexidine chips: Biodegradable chips that release chlorhexidine over time.
- Minocycline microspheres: Sustained-release formulations that reduce pathogenic bacterial loads.
- Doxycycline gels: These provide sustained concentrations of the antibiotic within pockets.

Studies have demonstrated that LDAs when used alongside SRP, improve clinical outcomes by reducing pocket depths and controlling inflammation (204–210). However, their efficacy depends on patient compliance and proper pocket debridement before placement (211–217).

Adjunctive Probiotic and Postbiotic Therapies

Probiotics and postbiotics have gained attention in periodontal therapy because they restore microbial balance, boost the immune system, and reduce inflammation (218–224). Probiotics like Lactobacillus reuteri and Bifidobacterium bifidum improve periodontal health by decreasing inflammation and bleeding on probing (225–231). They also reduce oxidative stress and inflammation (232–238). Postbiotics, such as SCFAs and bioactive peptides, enhance barriers and reduce inflammation, making them safe for immunocompromised patients and complementing treatments like scaling and root planing (SRP) (239–245).

Surgical Periodontal Therapy

When non-surgical treatments fail to produce adequate results, surgical interventions become necessary to address advanced periodontal damage. These procedures focus on removing periodontal pockets, regenerating lost tissues, and creating a more favorable environment for long-term periodontal health. Flap surgery involves lifting the gingival tissues to allow better access for cleaning and reducing pockets (246–252). This method is beneficial for deep pockets and provides improved visibility of the tooth roots and bone structures. Guided Tissue Regeneration (GTR) is another regenerative technique that uses barrier membranes to guide tissue growth while preventing the migration of epithelial cells (253–258). These membranes, like expanded polytetrafluoroethylene, can be resorbable, such as collagen, or non-resorbable. Clinical studies have shown that GTR can improve clinical attachment levels and help regenerate periodontal tissues in bone defects. Bone grafting, often combined with growth factors, involves placing bone substitutes into defects to stimulate tissue regrowth. Various graft types are used, including autografts, allografts, xenografts, and synthetic materials, each contributing to enhanced healing and regeneration.

Regenerative Techniques in Periodontal Therapy

Regenerative strategies restore lost periodontal structures by promoting new bone, cementum, and ligament growth. Enamel matrix derivatives (EMD) from porcine tooth buds enhance fibroblast proliferation and clinical attachment gain (259–265). Growth factors like PDGF and BMPs stimulate cell proliferation and matrix synthesis, often combined with scaffolds (266–272). Tissue engineering integrates scaffolds, stem cells, and bioactive factors with innovations like 3D-printed scaffolds and mesenchymal stem cell (MSC) therapy (273–279).

Microbiological Changes Following Periodontal Therapy

Therapies like scaling and root planing (SRP) reduce pathogenic bacteria and promote health-associated species (280–284). Surgical interventions enhance microbial diversity, while probiotics and postbiotics further support beneficial microbiota shifts and suppress pathogens (285–291).

Long-Term Maintenance and Disease Prevention

Periodontal maintenance is critical for sustaining the benefits of therapy and preventing disease recurrence. Key components of maintenance therapy include:

1. Regular Professional Cleanings: To remove plaque and calculus that may accumulate over time.
2. Patient Education: Emphasizing oral hygiene practices, including proper brushing and interdental cleaning.
3. Microbial Monitoring: Periodic assessment of the subgingival microbiota using advanced diagnostic tools.

5) Personalized Periodontal Therapy: The Future of Treatment

Advances in genomics, proteomics, and microbiome research have paved the way for personalized periodontal therapies tailored to individual risk profiles (292–298). By integrating genetic and microbial insights into clinical decision-making, personalized approaches offer the potential for more targeted and effective treatments (299–305).

Genetic testing can identify polymorphisms associated with inflammatory cytokines, immune signaling pathways, and bone metabolism (306–312). This information can guide the selection of adjunctive therapies, such as anti-inflammatory agents or regenerative materials.

High-throughput sequencing techniques enable detailed characterization of the subgingival microbiota (313–317). Therapies can be tailored to address specific microbial imbalances, such as using bacteriophages or synthetic probiotics targeting pathogenic species (318–324).

Future Directions in Periodontal Therapy

Emerging therapeutic modalities and research avenues hold promise for transforming periodontal care. These include:

1. Microbiome-Based Therapies: Developing bacteriophage therapy, prebiotics, and synthetic probiotics to selectively target pathogenic bacteria.
2. Gene Therapy: Advances in CRISPR-Cas9 technology can potentially edit genes associated with periodontitis susceptibility.
3. Biomarker Discovery: Identifying biomarkers for early diagnosis and monitoring of treatment outcomes.

Conclusion

Periodontal disease is a complex and multifactorial condition that requires an interdisciplinary approach for effective management. While traditional therapies remain the cornerstone of treatment, integrating adjunctive modalities, regenerative techniques, and personalized approaches can revolutionize periodontal care. Advances in microbiome research and genetic profiling will play a pivotal role in shaping the future of periodontal therapy, enabling tailored interventions that address the underlying drivers of disease and improve patient outcomes.

Abbreviations

1. BOP - Bleeding on Probing
2. CRP - C-Reactive Protein
3. EMD - Enamel Matrix Derivatives
4. GTR - Guided Tissue Regeneration
5. IL - Interleukin
6. LPS - Lipopolysaccharide
7. MMPs - Matrix Metalloproteinases
8. PRP - Platelet-Rich Plasma
9. RCT - Randomized Controlled Trials
10. ROS - Reactive Oxygen Species
11. SRP - Scaling and Root Planing
12. TGF-β - Transforming Growth Factor Beta
13. TLR - Toll-Like Receptors
14. TNF-α - Tumor Necrosis Factor Alpha
15. Tregs - Regulatory T Cells
16. Th17 - T Helper 17 Cells

Funding Statement

This research received no external funding.

Data Availability Statement

Not applicable.

Conflicts of Interest

The authors declare no conflict of interest.

References

1. Marotte, H. Non-Surgical Periodontal Disease: A New Treatment for Rheumatoid Arthritis? Joint Bone Spine 2020, 87, 1–3, doi:10.1016/j.jbspin.2019.05.002.
2. Eickholz, P.; Siegelin, Y.; Scharf, S.; Schacher, B.; Oremek, G.M.; Sauer-Eppel, H.; Schubert, R.; Wohlfeil, M. Non-Surgical Periodontal Therapy Decreases Serum Elastase Levels in Aggressive but Not in Chronic Periodontitis. Journal of Clinical Periodontology 2013, 40, 327–333, doi:10.1111/jcpe.12076.
3. Vinel, A.; Al Halabi, A.; Roumi, S.; Le Neindre, H.; Millavet, P.; Simon, M.; Cuny, C.; Barthet, J.-S.; Barthet, P.; Laurencin-Dalicieux, S. Non-Surgical Periodontal Treatment: SRP and Innovative Therapeutic Approaches. Adv Exp Med Biol 2022, 1373, 303–327, doi:10.1007/978-3-030-96881-6_16.
4. Apatzidou, D.A.; Kinane, D.F. Nonsurgical Mechanical Treatment Strategies for Periodontal Disease. Dent Clin North Am 2010, 54, 1–12, doi:10.1016/j.cden.2009.08.006.
5. Jentsch, H.F.R.; Buchmann, A.; Friedrich, A.; Eick, S. Nonsurgical Therapy of Chronic Periodontitis with Adjunctive Systemic Azithromycin or Amoxicillin/Metronidazole. Clin Oral Investig 2016, 20, 1765–1773, doi:10.1007/s00784-015-1683-1.
6. Meulman, T.; Giorgetti, A.P.O.; Gimenes, J.; Casarin, R.C.V.; Peruzzo, D.C.; Nociti, F.H. One Stage, Full-Mouth, Ultrasonic Debridement in the Treatment of Severe Chronic Periodontitis in Smokers: A Preliminary, Blind and Randomized Clinical Trial. J Int Acad Periodontol 2013, 15, 83–90.
7. Amado, P.P.P.; Kawamoto, D.; Albuquerque-Souza, E.; Franco, D.C.; Saraiva, L.; Casarin, R.C.V.; Horliana, A.C.R.T.; Mayer, M.P.A. Oral and Fecal Microbiome in Molar-Incisor Pattern Periodontitis. Front Cell Infect Microbiol 2020, 10, 583761, doi:10.3389/fcimb.2020.583761.
8. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Servili, A.; Inchingolo, A.M.; Dipalma, G. A Hypothetical Correlation between Hyaluronic Acid Gel and Development of Cutaneous Metaplastic Synovial Cyst. Head Face Med 2010, 6, 13, doi:10.1186/1746-160X-6-13.
9. Arezzo, F.; Cormio, G.; La Forgia, D.; Santarsiero, C.M.; Mongelli, M.; Lombardi, C.; Cazzato, G.; Cicinelli, E.; Loizzi, V. A Machine Learning Approach Applied to Gynecological Ultrasound to Predict Progression-Free Survival in Ovarian Cancer Patients. Arch Gynecol Obstet 2022, 306, 2143–2154, doi:10.1007/s00404-022-06578-1.
10. Romasco, T.; Tumedei, M.; Inchingolo, F.; Pignatelli, P.; Montesani, L.; Iezzi, G.; Petrini, M.; Piattelli, A.; Di Pietro, N. A Narrative Review on the Effectiveness of Bone Regeneration Procedures with OsteoBiol® Collagenated Porcine Grafts: The Translational Research Experience over 20 Years. Journal of Functional Biomaterials 2022, 13, 121, doi:10.3390/jfb13030121.
11. Bavetta, G.; Bavetta, G.; Randazzo, V.; Cavataio, A.; Paderni, C.; Grassia, V.; Dipalma, G.; Gargiulo Isacco, C.; Scarano, A.; De Vito, D.; et al. A Retrospective Study on Insertion Torque and Implant Stability Quotient (ISQ) as Stability Parameters for Immediate Loading of Implants in Fresh Extraction Sockets. Biomed Res Int 2019, 2019, 9720419, doi:10.1155/2019/9720419.
12. Mongardini, C.; Pilloni, A.; Farina, R.; Di Tanna, G.; Zeza, B. Adjunctive Efficacy of Probiotics in the Treatment of Experimental Peri-Implant Mucositis with Mechanical and Photodynamic Therapy: A Randomized, Cross-over Clinical Trial. J Clin Periodontol 2017, 44, 410–417, doi:10.1111/jcpe.12689.
13. Kinney, J.S.; Ramseier, C.A.; Giannobile, W.V. Oral Fluid-Based Biomarkers of Alveolar Bone Loss in Periodontitis. Ann N Y Acad Sci 2007, 1098, 230–251, doi:10.1196/annals.1384.028.
14. Jebin, A.A.; Nisha, K.J.; Padmanabhan, S. Oral Microbial Shift Following 1-Month Supplementation of Probiotic Chewable Tablets Containing Lactobacillus Reuteri UBLRu-87 as an Adjunct to Phase 1 Periodontal Therapy in Chronic Periodontitis Patients: A Randomized Controlled Clinical Trial. Contemp Clin Dent 2021, 12, 121–127, doi:10.4103/ccd.ccd_135_20.
15. Wang, L.; Gao, Z.; Zhao, Z.; Shen, X.; Feng, J.; Xiong, J. Oral Microbiota in Periodontitis Patients with and without Type 2 Diabetes Mellitus and Their Shifts after the Nonsurgical Periodontal Therapy. Heliyon 2023, 9, e22110, doi:10.1016/j.heliyon.2023.e22110.
16. Chen, T.; Marsh, P.D.; Al-Hebshi, N.N. SMDI: An Index for Measuring Subgingival Microbial Dysbiosis. J Dent Res 2022, 101, 331–338, doi:10.1177/00220345211035775.
17. Ramirez-Peña, A.M.; Sánchez-Pérez, A.; Campos-Aranda, M.; Hidalgo-Tallón, F.J. Ozone in Patients with Periodontitis: A Clinical and Microbiological Study. J Clin Med 2022, 11, 2946, doi:10.3390/jcm11102946.
18. Demmer, R.T.; Jacobs, D.R.; Singh, R.; Zuk, A.; Rosenbaum, M.; Papapanou, P.N.; Desvarieux, M. Periodontal Bacteria and Prediabetes Prevalence in ORIGINS: The Oral Infections, Glucose Intolerance, and Insulin Resistance Study. J Dent Res 2015, 94, 201S-11S, doi:10.1177/0022034515590369.
19. Del Peloso Ribeiro, E.; Bittencourt, S.; Sallum, E.A.; Nociti, F.H.; Gonçalves, R.B.; Casati, M.Z. Periodontal Debridement as a Therapeutic Approach for Severe Chronic Periodontitis: A Clinical, Microbiological and Immunological Study. J Clin Periodontol 2008, 35, 789–798, doi:10.1111/j.1600-051X.2008.01292.x.
20. Faith, J.J.; Guruge, J.L.; Charbonneau, M.; Subramanian,

S.; Seedorf, H.; Goodman, A.L.; Clemente, J.C.; Knight, R.; Heath, A.C.; Leibel, R.L.; et al. The Long-Term Stability of the Human Gut Microbiota. Science 2013, 341, 1237439, doi:10.1126/science.1237439.
21. Costalonga, M.; Herzberg, M.C. The Oral Microbiome and the Immunobiology of Periodontal Disease and Caries. Immunol Lett 2014, 162, 22–38, doi:10.1016/j.imlet.2014.08.017.
22. Romita, P.; Foti, C.; Masciopinto, L.; Nettis, E.; Di Leo, E.; Calogiuri, G.; Bonamonte, D.; Angelini, G.; Dipalma, G.; Ballini, A.; et al. Allergic Contact Dermatitis to Acrylates. J Biol Regul Homeost Agents 2017, 31, 529–534.
23. Gargiulo Isacco, C.; Balzanelli, M.G.; Garzone, S.; Lorusso, M.; Inchingolo, F.; Nguyen, K.C.D.; Santacroce, L.; Mosca, A.; Del Prete, R. Alterations of Vaginal Microbiota and Chlamydia Trachomatis as Crucial Co-Causative Factors in Cervical Cancer Genesis Procured by HPV. Microorganisms 2023, 11, 662, doi:10.3390/microorganisms11030662.
24. Balzanelli, M.G.; Distratis, P.; Aityan, S.K.; Amatulli, F.; Catucci, O.; Cefalo, A.; De Michele, A.; Dipalma, G.; Inchingolo, F.; Lazzaro, R.; et al. An Alternative "Trojan Horse" Hypothesis for COVID-19: Immune Deficiency of IL-10 and SARS-CoV-2 Biology. Endocr Metab Immune Disord Drug Targets 2022, 22, 1–5, doi:10.2174/1871530321666210127141945.
25. Malcangi, G.; Patano, A.; Morolla, R.; De Santis, M.; Piras, F.; Settanni, V.; Mancini, A.; Di Venere, D.; Inchingolo, F.; Inchingolo, A.D.; et al. Analysis of Dental Enamel Remineralization: A Systematic Review of Technique Comparisons. Bioengineering (Basel) 2023, 10, 472, doi:10.3390/bioengineering10040472.
26. Balzanelli, M.G.; Distratis, P.; Lazzaro, R.; Pham, V.H.; Tran, T.C.; Dipalma, G.; Bianco, A.; Serlenga, E.M.; Aityan, S.K.; Pierangeli, V.; et al. Analysis of Gene Single Nucleotide Polymorphisms in COVID-19 Disease Highlighting the Susceptibility and the Severity towards the Infection. Diagnostics 2022, 12, 2824, doi:10.3390/diagnostics12112824.
27. Goodson, J.M.; Gunsolley, J.C.; Grossi, S.G.; Bland, P.S.; Otomo-Corgel, J.; Doherty, F.; Comiskey, J. Minocycline HCl Microspheres Reduce Red-Complex Bacteria in Periodontal Disease Therapy. J Periodontol 2007, 78, 1568–1579, doi:10.1902/jop.2007.060488.
28. Mdala, I.; Olsen, I.; Haffajee, A.D.; Socransky, S.S.; de Blasio, B.F.; Thoresen, M. Multilevel Analysis of Bacterial Counts from Chronic Periodontitis after Root Planing/Scaling, Surgery, and Systemic and Local Antibiotics: 2-Year Results. J Oral Microbiol 2013, 5, doi:10.3402/jom.v5i0.20939.
29. Li, X.; Liu, Y.; Yang, X.; Li, C.; Song, Z. The Oral Microbiota: Community Composition, Influencing Factors, Pathogenesis, and Interventions. Front Microbiol 2022, 13, 895537, doi:10.3389/fmicb.2022.895537.
30. Schwarzberg, K.; Le, R.; Bharti, B.; Lindsay, S.; Casaburi, G.; Salvatore, F.; Saber, M.H.; Alonaizan, F.; Slots, J.; Gottlieb, R.A.; et al. The Personal Human Oral Microbiome Obscures the Effects of Treatment on Periodontal Disease. PLoS One 2014, 9, e86708, doi:10.1371/journal.pone.0086708.
31. Contaldo, M.; Lajolo, C.; Di Petrillo, M.; Ballini, A.; Inchingolo, F.; Serpico, R.; Romano, A. Analysis of Lip Pigmentations by Reflectance Confocal Microscopy: Report of Two Cases. J Biol Regul Homeost Agents 2019, 33, 19-25. DENTAL SUPPLEMENT.
32. Arrigoni, R.; Ballini, A.; Santacroce, L.; Cantore, S.; Inchingolo, A.; Inchingolo, F.; Di Domenico, M.; Quagliuolo, L.; Boccellino, M. Another Look at Dietary Polyphenols: Challenges in Cancer Prevention and Treatment. Curr Med Chem 2022, 29, 1061–1082, doi:10.2174/0929867328666210810154732.
33. Di Domenico, M.; Feola, A.; Ambrosio, P.; Pinto, F.; Galasso, G.; Zarrelli, A.; Di Fabio, G.; Porcelli, M.; Scacco, S.; Inchingolo, F.; et al. Antioxidant Effect of Beer Polyphenols and Their Bioavailability in Dental-Derived Stem Cells (D-dSCs) and Human Intestinal Epithelial Lines (Caco-2) Cells. Stem Cells Int 2020, 2020, 8835813, doi:10.1155/2020/8835813.
34. Dipalma, G.; Inchingolo, A.D.; Inchingolo, A.M.; Piras, F.; Carpentiere, V.; Garofoli, G.; Azzollini, D.; Campanelli, M.; Paduanelli, G.; Palermo, A.; et al. Artificial Intelligence and Its Clinical Applications in Orthodontics: A Systematic Review. Diagnostics (Basel) 2023, 13, 3677, doi:10.3390/diagnostics13243677.
35. Minetti, E.; Palermo, A.; Inchingolo, A.D.; Patano, A.; Viapiano, F.; Ciocia, A.M.; de Ruvo, E.; Mancini, A.; Inchingolo, F.; Sauro, S.; et al. Autologous Tooth for Bone Regeneration: Dimensional Examination of Tooth Transformer® Granules. Eur Rev Med Pharmacol Sci 2023, 27, 5421–5430, doi:10.26355/eurrev_202306_32777.
36. Axelsson, P. New Ideas and Advancing Technology in Prevention and Non-Surgical Treatment of Periodontal Disease. Int Dent J 1993, 43, 223–238.
37. Haas, A.N.; Furlaneto, F.; Gaio, E.J.; Gomes, S.C.; Palioto, D.B.; Castilho, R.M.; Sanz, M.; Messora, M.R. New Tendencies in Non-Surgical Periodontal Therapy. Braz Oral Res 2021, 35, e095, doi:10.1590/1807-3107bor-2021.vol35.0095.
38. Inchingolo, A.M.; Patano, A.; Di Pede, C.; Inchingolo, A.D.; Palmieri, G.; de Ruvo, E.; Campanelli, M.; Buongiorno, S.; Carpentiere, V.; Piras, F.; et al. Autologous Tooth Graft: Innovative Biomaterial for Bone Regeneration. Tooth Transformer® and the Role of Microbiota in Regenerative Dentistry. A Systematic Review. J Funct Biomater 2023, 14, 132, doi:10.3390/jfb14030132.
39. Malcangi, G.; Patano, A.; Ciocia, A.M.; Netti, A.; Viapiano, F.; Palumbo, I.; Trilli, I.; Guglielmo, M.; Inchingolo, A.D.; Dipalma, G.; et al. Benefits of Natural Antioxidants on Oral Health. Antioxidants (Basel) 2023, 12, 1309, doi:10.3390/antiox12061309.
40. Inchingolo, F.; Paracchini, L.; DE Angelis, F.; Cielo, A.; Orefici, A.; Spitaleri, D.; Santacroce, L.; Gheno, E.; Palermo, A. Biomechanical Behaviour of a Jawbone Loaded with a Prosthetic System Supported by Monophasic and Biphasic Implants. Oral Implantol (Rome) 2016, 9, 65–70, doi:10.11138/orl/2016.9.1S.065.
41. Minetti, E.; Dipalma, G.; Palermo, A.; Patano, A.; Inchingolo, A.D.; Inchingolo, A.M.; Inchingolo, F. Biomolecular Mechanisms and Case Series Study of Socket Preservation with Tooth Grafts. J Clin Med 2023, 12, 5611, doi:10.3390/jcm12175611.
42. Contaldo, M.; Luzzi, V.; Ierardo, G.; Raimondo, E.; Boccellino, M.; Ferati, K.; Bexheti-Ferati, A.; Inchingolo, F.; Di Domenico, M.; Serpico, R.; et al. Bisphosphonate-Related Osteonecrosis of the Jaws and Dental Surgery Procedures in Children and Young People with Osteogenesis Imperfecta: A Systematic Review. J Stomatol Oral Maxillofac Surg 2020, 121, 556–562, doi:10.1016/j.jormas.2020.03.003.
43. Delatola, C.; Adonogianaki, E.; Ioannidou, E. Non-Surgical and Supportive Periodontal Therapy: Predictors of Compliance. J Clin Periodontol 2014, 41, 791–796, doi:10.1111/jcpe.12271.
44. Darby, I. Non-Surgical Management of Periodontal Disease. Aust Dent J 2009, 54 Suppl 1, S86-95, doi:10.1111/j.1834-7819.2009.01146.x.
45. Dimonte, M.; Inchingolo, F.; Minonne, A.; Arditi, G.; Dipalma, G. Bone SPECT in Management of Mandibular Condyle Hyperplasia. Report of a Case and Review of Literature. Minerva Stomatol 2004, 53, 281–285.
46. Bellocchio, L.; Inchingolo, A.D.; Inchingolo, A.M.; Lorusso, F.; Malcangi, G.; Santacroce, L.; Scarano, A.; Bordea, I.R.; Hazballa, D.; D'Oria, M.T.; et al. Cannabinoids Drugs and Oral Health-From Recreational Side-Effects to Medicinal Purposes: A Systematic Review. Int J Mol Sci 2021, 22, 8329, doi:10.3390/ijms22158329.
47. Inchingolo, A.M.; Inchingolo, A.D.; Latini, G.; Garofoli, G.; Sardano, R.; De Leonardis, N.; Dongiovanni, L.; Minetti, E.; Palermo, A.; Dipalma, G.; et al. Caries Prevention and Treatment in Early Childhood: Comparing Strategies. A Systematic Review. Eur Rev Med Pharmacol Sci 2023, 27, 11082–11092, doi:10.26355/eurrev_202311_34477.
48. Inchingolo, F.; Pacifici, A.; Gargari, M.; Acitores Garcia, J.I.; Amantea, M.; Marrelli, M.; Dipalma, G.; Inchingolo, A.M.;

Rinaldi, R.; Inchingolo, A.D.; et al. CHARGE Syndrome: An Overview on Dental and Maxillofacial Features. Eur Rev Med Pharmacol Sci 2014, 18, 2089–2093.
49. Balzanelli, M.; Distratis, P.; Catucci, O.; Amatulli, F.; Cefalo, A.; Lazzaro, R.; Aityan, K.S.; Dalagni, G.; Nico, A.; De Michele, A.; et al. Clinical and Diagnostic Findings in COVID-19 Patients: An Original Research from SG Moscati Hospital in Taranto Italy. J Biol Regul Homeost Agents 2021, 35, 171–183, doi:10.23812/20-605-A.
50. Carter, C.J.; France, J.; Crean, S.; Singhrao, S.K. The Porphyromonas Gingivalis/Host Interactome Shows Enrichment in GWASdb Genes Related to Alzheimer's Disease, Diabetes and Cardiovascular Diseases. Front Aging Neurosci 2017, 9, 408, doi:10.3389/fnagi.2017.00408.
51. Liebsch, C.; Pitchika, V.; Pink, C.; Samietz, S.; Kastenmüller, G.; Artati, A.; Suhre, K.; Adamski, J.; Nauck, M.; Völzke, H.; et al. The Saliva Metabolome in Association to Oral Health Status. J Dent Res 2019, 98, 642–651, doi:10.1177/0022034519842853.
52. Abusleme, L.; Dupuy, A.K.; Dutzan, N.; Silva, N.; Burleson, J.A.; Strausbaugh, L.D.; Gamonal, J.; Diaz, P.I. The Subgingival Microbiome in Health and Periodontitis and Its Relationship with Community Biomass and Inflammation. ISME J 2013, 7, 1016–1025, doi:10.1038/ismej.2012.174.
53. Berglundh, T.; Krok, L.; Liljenberg, B.; Westfelt, E.; Serino, G.; Lindhe, J. The Use of Metronidazole and Amoxicillin in the Treatment of Advanced Periodontal Disease. A Prospective, Controlled Clinical Trial. J Clin Periodontol 1998, 25, 354–362, doi:10.1111/j.1600-051x.1998.tb02455.x.
54. Inchingolo, F.; Tatullo, M.; Marrelli, M.; Inchingolo, A.D.; Corelli, R.; Inchingolo, A.M.; Dipalma, G.; Abenavoli, F.M. Clinical Case-Study Describing the Use of Skin-Perichondrium-Cartilage Graft from the Auricular Concha to Cover Large Defects of the Nose. Head Face Med 2012, 8, 10, doi:10.1186/1746-160X-8-10.
55. Inchingolo, F.; Tatullo, M.; Marrelli, M.; Inchingolo, A.M.; Tarullo, A.; Inchingolo, A.D.; Dipalma, G.; Podo Brunetti, S.; Tarullo, A.; Cagiano, R. Combined Occlusal and Pharmacological Therapy in the Treatment of Temporo-Mandibular Disorders. Eur Rev Med Pharmacol Sci 2011, 15, 1296–1300.
56. Ballini, A.; Cantore, S.; Fotopoulou, E.A.; Georgakopoulos, I.P.; Athanasiou, E.; Bellos, D.; Paduanelli, G.; Saini, R.; Dipalma, G.; Inchingolo, F. Combined Sea Salt-Based Oral Rinse with Xylitol in Orthodontic Patients: Clinical and Microbiological Study. J Biol Regul Homeost Agents 2019, 33, 263–268.
57. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Inchingolo, A.M.; Dipalma, G. Comparison between Traditional Surgery, CO2 and Nd:Yag Laser Treatment for Generalized Gingival Hyperplasia in Sturge-Weber Syndrome: A Retrospective Study. J Investig Clin Dent 2010, 1, 85–89, doi:10.1111/j.2041-1626.2010.00020.x.
58. Patianna, A.G.; Ballini, A.; Meneghello, M.; Cantore, S.; Inchingolo, A.M.; Dipalma, G.; Inchingolo, A.D.; Inchingolo, F.; Malcangi, G.; Lucchese, A.; et al. Comparison of Conventional Orthognathic Surgery and "Surgery-First" Protocol: A New Weapon against Time. J Biol Regul Homeost Agents 2019, 33, 59-67. DENTAL SUPPLEMENT.
59. Reddy, M.S. The Use of Periodontal Probes and Radiographs in Clinical Trials of Diagnostic Tests. Ann Periodontol 1997, 2, 113–122, doi:10.1902/annals.1997.2.1.113.
60. Bagaitkar, J.; Williams, L.R.; Renaud, D.E.; Bemakanakere, M.R.; Scott, D.A.; Demuth, D.R. Tobacco-Induced Alterations to Porphyromonas Gingivalis-Host Interactions. Environ Microbiol 2009, 11, 1242–1253, doi:10.1111/j.1462-2920.2008.01852.x.
61. Armitage, G.C. Periodontal Diagnoses and Classification of Periodontal Diseases. Periodontology 2000 2004, 34, 9–21, doi:10.1046/j.0906-6713.2002.003421.x.
62. Lamster, I.B.; Karabin, S.D. Periodontal Disease Activity. Curr Opin Dent 1992, 2, 39–52.
63. Greenstein, G.; Caton, J. Periodontal Disease Activity: A Critical Assessment. J Periodontol 1990, 61, 543–552, doi:10.1902/jop.1990.61.9.543.
64. Tobita, M.; Mizuno, H. Periodontal Disease and Periodontal Tissue Regeneration. Curr Stem Cell Res Ther 2010, 5, 168–174, doi:10.2174/157488810791268672.
65. Elemek, E. Periodontal Disease Severity, Tooth Loss, and Periodontal Stability in Private Practice. Niger J Clin Pract 2022, 25, 931–937, doi:10.4103/njcp.njcp_1952_21.
66. Meyer-Bäumer, A.; Eick, S.; Mertens, C.; Uhlmann, L.; Hagenfeld, D.; Eickholz, P.; Kim, T.-S.; Cosgarea, R. Periodontal Pathogens and Associated Factors in Aggressive Periodontitis: Results 5-17 Years after Active Periodontal Therapy. J Clin Periodontol 2014, 41, 662–672, doi:10.1111/jcpe.12255.
67. Slots, J.; Mashimo, P.; Levine, M.J.; Genco, R.J. Periodontal Therapy in Humans. I. Microbiological and Clinical Effects of a Single Course of Periodontal Scaling and Root Planing, and of Adjunctive Tetracycline Therapy. J Periodontol 1979, 50, 495–509, doi:10.1902/jop.1979.50.10.495.
68. Montenegro, V.; Inchingolo, A.D.; Malcangi, G.; Limongelli, L.; Marinelli, G.; Coloccia, G.; Laudadio, C.; Patano, A.; Inchingolo, F.; Bordea, I.R.; et al. Compliance of Children with Removable Functional Appliance with Microchip Integrated during Covid-19 Pandemic: A Systematic Review. J Biol Regul Homeost Agents 2021, 35, 365–377, doi:10.23812/21-2supp1-37.
69. Inchingolo, F.; Dipalma, G.; Paduanelli, G.; De Oliveira, L.A.; Inchingolo, A.M.; Georgakopoulos, P.I.; Inchingolo, A.D.; Malcangi, G.; Athanasiou, E.; Fotopoulou, E.; et al. Computer-Based Quantification of an Atraumatic Sinus Augmentation Technique Using CBCT. J Biol Regul Homeost Agents 2019, 33, 31-39. DENTAL SUPPLEMENT.
70. Ceratti, C.; Maspero, C.; Consonni, D.; Caprioglio, A.; Connelly, S.T.; Inchingolo, F.; Tartaglia, G.M. Cone-Beam Computed Tomographic Assessment of the Mandibular Condylar Volume in Different Skeletal Patterns: A Retrospective Study in Adult Patients. Bioengineering (Basel) 2022, 9, 102, doi:10.3390/bioengineering9030102.
71. Patano, A.; Malcangi, G.; De Santis, M.; Morolla, R.; Settanni, V.; Piras, F.; Inchingolo, A.D.; Mancini, A.; Inchingolo, F.; Dipalma, G.; et al. Conservative Treatment of Dental Non-Carious Cervical Lesions: A Scoping Review. Biomedicines 2023, 11, 1530, doi:10.3390/biomedicines11061530.
72. Romita, P.; Foti, C.; Calogiuri, G.; Cantore, S.; Ballini, A.; Dipalma, G.; Inchingolo, F. Contact Dermatitis Due to Transdermal Therapeutic Systems: A Clinical Update. Acta Biomed 2018, 90, 5–10, doi:10.23750/abm.v90i1.6563.
73. Jentsch, H.; Pomowski, R.; Kundt, G.; Göcke, R. Treatment of Gingivitis with Hyaluronan. J Clin Periodontol 2003, 30, 159–164, doi:10.1034/j.1600-051x.2003.300203.x.
74. Grove, T.K. Treatment of Periodontal Disease. Vet Clin North Am Small Anim Pract 1998, 28, 1147–1164, vi, doi:10.1016/s0195-5616(98)50107-6.
75. Inchingolo, A.D.; Di Cosola, M.; Inchingolo, A.M.; Greco Lucchina, A.; Malcangi, G.; Pettini, F.; Scarano, A.; Bordea, I.R.; Hazballa, D.; Lorusso, F.; et al. Correlation between Occlusal Trauma and Oral Microbiota: A Microbiological Investigation. J Biol Regul Homeost Agents 2021, 35, 295–302, doi:10.23812/21-2supp1-29.
76. Malcangi, G.; Inchingolo, A.D.; Inchingolo, A.M.; Santacroce, L.; Marinelli, G.; Mancini, A.; Vimercati, L.; Maggiore, M.E.; D'Oria, M.T.; Hazballa, D.; et al. COVID-19 Infection in Children, Infants and Pregnant Subjects: An Overview of Recent Insights and Therapies. Microorganisms 2021, 9, 1964, doi:10.3390/microorganisms9091964.
77. Scarano, A.; Khater, A.G.A.; Gehrke, S.A.; Serra, P.; Francesco, I.; Di Carmine, M.; Tari, S.R.; Leo, L.; Lorusso, F. Current Status of Peri-Implant Diseases: A Clinical Review for Evidence-Based Decision Making. J Funct Biomater 2023, 14, 210, doi:10.3390/jfb14040210.
78. Inchingolo, A.M.; Malcangi, G.; Ferrante, L.; Del Vecchio, G.; Viapiano, F.; Mancini, A.; Inchingolo, F.; Inchingolo, A.D.; Di Venere, D.; Dipalma, G.; et al. Damage from Carbonated Soft Drinks on Enamel: A Systematic Review. Nutrients 2023, 15, 1785, doi:10.3390/nu15071785.

79. Pasciuti, E.; Coloccia, G.; Inchingolo, A.D.; Patano, A.; Ceci, S.; Bordea, I.R.; Cardarelli, F.; Di Venere, D.; Inchingolo, F.; Dipalma, G. Deep Bite Treatment with Aligners: A New Protocol. Applied Sciences 2022, 12, 6709, doi:10.3390/app12136709.
80. Guha Biswas, P.; Mohan, A.; Kandaswamy, E. Treatment of Periodontitis Affecting Human Primary Teeth-A Systematic Review. Dent J (Basel) 2023, 11, 171, doi:10.3390/dj11070171.
81. Gasparro, R.; Adamo, D.; Masucci, M.; Sammartino, G.; Mignogna, M.D. Use of Injectable Platelet-Rich Fibrin in the Treatment of Plasma Cell Mucositis of the Oral Cavity Refractory to Corticosteroid Therapy: A Case Report. Dermatol Ther 2019, 32, e13062, doi:10.1111/dth.13062.
82. Ferrigno, N.; Laureti, M.; Fanali, S. Dental Implants Placement in Conjunction with Osteotome Sinus Floor Elevation: A 12-Year Life-Table Analysis from a Prospective Study on 588 ITI Implants. Clin Oral Implants Res 2006, 17, 194–205, doi:10.1111/j.1600-0501.2005.01192.x.
83. Minetti, E.; Palermo, A.; Malcangi, G.; Inchingolo, A.D.; Mancini, A.; Dipalma, G.; Inchingolo, F.; Patano, A.; Inchingolo, A.M. Dentin, Dentin Graft, and Bone Graft: Microscopic and Spectroscopic Analysis. J Funct Biomater 2023, 14, 272, doi:10.3390/jfb14050272.
84. d'Apuzzo, F.; Nucci, L.; Strangio, B.M.; Inchingolo, A.D.; Dipalma, G.; Minervini, G.; Perillo, L.; Grassia, V. Dento-Skeletal Class III Treatment with Mixed Anchored Palatal Expander: A Systematic Review. Applied Sciences 2022, 12, 4646, doi:10.3390/app12094646.
85. Cazzato, G.; Massaro, A.; Colagrande, A.; Lettini, T.; Cicco, S.; Parente, P.; Nacchiero, E.; Lospalluti, L.; Cascardi, E.; Giudice, G.; et al. Dermatopathology of Malignant Melanoma in the Era of Artificial Intelligence: A Single Institutional Experience. Diagnostics (Basel) 2022, 12, 1972, doi:10.3390/diagnostics12081972.
86. Mandriani, B.; Pellè, E.; Mannavola, F.; Palazzo, A.; Marsano, R.M.; Ingravallo, G.; Cazzato, G.; Ramello, M.C.; Porta, C.; Strosberg, J.; et al. Development of Anti-Somatostatin Receptors CAR T Cells for Treatment of Neuroendocrine Tumors. J Immunother Cancer 2022, 10, e004854, doi:10.1136/jitc-2022-004854.
87. Trim, R.D.; Skinner, M.A.; Farone, M.B.; DuBois, J.D.; Newsome, A.L. Use of PCR to Detect Entamoeba Gingivalis in Diseased Gingival Pockets and Demonstrate Its Absence in Healthy Gingival Sites. Parasitol Res 2011, 109, 857–864, doi:10.1007/s00436-011-2312-9.
88. Varoni, E.M.; Bavarian, R.; Robledo-Sierra, J.; Porat Ben-Amy, D.; Wade, W.G.; Paster, B.; Kerr, A.R.; Peterson, D.E.; Frandsen Lau, E. World Workshop on Oral Medicine VII: Targeting the Microbiome for Oral Medicine Specialists—Part 1. A Methodological Guide. Oral Diseases 2019, 25, 12–27, doi:10.1111/odi.13063.
89. Patano, A.; Inchingolo, A.D.; Malcangi, G.; Garibaldi, M.; De Leonardis, N.; Campanelli, M.; Palumbo, I.; Benagiano, S.; Bordea, I.R.; Minetti, E.; et al. Direct and Indirect Bonding Techniques in Orthodontics: A Systematic Review. Eur Rev Med Pharmacol Sci 2023, 27, 8039–8054, doi:10.26355/eurrev_202309_33565.
90. Patano, A.; Cirulli, N.; Beretta, M.; Plantamura, P.; Inchingolo, A.D.; Inchingolo, A.M.; Bordea, I.R.; Malcangi, G.; Marinelli, G.; Scarano, A.; et al. Education Technology in Orthodontics and Paediatric Dentistry during the COVID-19 Pandemic: A Systematic Review. Int J Environ Res Public Health 2021, 18, 6056, doi:10.3390/ijerph18116056.
91. Ballini, A.; Cantore, S.; Saini, R.; Pettini, F.; Fotopoulou, E.A.; Saini, S.R.; Georgakopoulos, I.P.; Dipalma, G.; Gargiulo Isacco, C.; Inchingolo, F. Effect of Activated Charcoal Probiotic Toothpaste Containing Lactobacillus Paracasei and Xylitol on Dental Caries: A Randomized and Controlled Clinical Trial. J Biol Regul Homeost Agents 2019, 33, 977–981.
92. Grassi, F.R.; Ciccolella, F.; D'Apolito, G.; Papa, F.; Iuso, A.; Salzo, A.E.; Trentadue, R.; Nardi, G.M.; Scivetti, M.; De Matteo, M.; et al. Effect of Low-Level Laser Irradiation on Osteoblast Proliferation and Bone Formation. J Biol Regul Homeost Agents 2011, 25, 603–614.
93. Coloccia, G.; Inchingolo, A.D.; Inchingolo, A.M.; Malcangi, G.; Montenegro, V.; Patano, A.; Marinelli, G.; Laudadio, C.; Limongelli, L.; Di Venere, D.; et al. Effectiveness of Dental and Maxillary Transverse Changes in Tooth-Borne, Bone-Borne, and Hybrid Palatal Expansion through Cone-Beam Tomography: A Systematic Review of the Literature. Medicina (Kaunas) 2021, 57, 288, doi:10.3390/medicina57030288.
94. Patano, A.; Inchingolo, A.M.; Cardarelli, F.; Inchingolo, A.D.; Viapiano, F.; Giotta, M.; Bartolomeo, N.; Di Venere, D.; Malcangi, G.; Minetti, E.; et al. Effects of Elastodontic Appliance on the Pharyngeal Airway Space in Class II Malocclusion. J Clin Med 2023, 12, 4280, doi:10.3390/jcm12134280.
95. Inchingolo, A.D.; Inchingolo, A.M.; Malcangi, G.; Avantario, P.; Azzollini, D.; Buongiorno, S.; Viapiano, F.; Campanelli, M.; Ciocia, A.M.; De Leonardis, N.; et al. Effects of Resveratrol, Curcumin and Quercetin Supplementation on Bone Metabolism-A Systematic Review. Nutrients 2022, 14, 3519, doi:10.3390/nu14173519.
96. Lauritano, D.; Bignozzi, C.A.; Pazzi, D.; Cura, F.; Carinci, F. Efficacy of a New Coating of Implant-Abutment Connections in Reducing Bacterial Loading: An in Vitro Study. Oral Implantol (Rome) 2017, 10, 1–10, doi:10.11138/orl/2017.10.1.001.
97. Ballini, A.; Cantore, S.; Signorini, L.; Saini, R.; Scacco, S.; Gnoni, A.; Inchingolo, A.D.; De Vito, D.; Santacroce, L.; Inchingolo, F.; et al. Efficacy of Sea Salt-Based Mouthwash and Xylitol in Improving Oral Hygiene among Adolescent Population: A Pilot Study. Int J Environ Res Public Health 2020, 18, 44, doi:10.3390/ijerph18010044.
98. Quaranta, A.; Ronconi, L.F.; Di Carlo, F.; Vozza, I.; Quaranta, M. Electrochemical Behaviour of Titanium in Ammine and Stannous Fluoride and Chlorhexidine 0.2 Percent Mouthwashes. Int J Immunopathol Pharmacol 2010, 23, 335–343, doi:10.1177/039463201002300132.
99. Scarano, A.; Inchingolo, F.; Lorusso, F. Environmental Disinfection of a Dental Clinic during the Covid-19 Pandemic: A Narrative Insight. Biomed Res Int 2020, 2020, 8896812, doi:10.1155/2020/8896812.
100. Signorini, L.; Ballini, A.; Arrigoni, R.; De Leonardis, F.; Saini, R.; Cantore, S.; De Vito, D.; Coscia, M.F.; Dipalma, G.; Santacroce, L.; et al. Evaluation of a Nutraceutical Product with Probiotics, Vitamin D, Plus Banaba Leaf Extracts (Lagerstroemia Speciosa) in Glycemic Control. Endocr Metab Immune Disord Drug Targets 2021, 21, 1356–1365, doi:10.2174/1871530320666201109115415.
101. Cantore, S.; Ballini, A.; Farronato, D.; Malcangi, G.; Dipalma, G.; Assandri, F.; Garagiola, U.; Inchingolo, F.; De Vito, D.; Cirulli, N. Evaluation of an Oral Appliance in Patients with Mild to Moderate Obstructive Sleep Apnea Syndrome Intolerant to Continuous Positive Airway Pressure Use: Preliminary Results. Int J Immunopathol Pharmacol 2016, 29, 267–273, doi:10.1177/0394632015590949.
102. Farronato, M.; Farronato, D.; Inchingolo, F.; Grassi, L.; Lanteri, V.; Maspero, C. Evaluation of Dental Surface after De-Bonding Orthodontic Bracket Bonded with a Novel Fluorescent Composite: In Vitro Comparative Study. Applied Sciences 2021, 11, 6354, doi:10.3390/app11146354.
103. Bevilacqua, L.; Lorenzon, M.G.; Bjedov, M.; Costantinides, F.; Angerame, D.; Maglione, M. Evaluation of the Efficacy of Inter-Dental Brush and Dental Floss for Peri-Implant Mucositis: A Crossover Randomized Clinical Trial. Int J Dent Hyg 2024, 22, 779–788, doi:10.1111/idh.12793.
104. Inchingolo, A.D.; Pezzolla, C.; Patano, A.; Ceci, S.; Ciocia, A.M.; Marinelli, G.; Malcangi, G.; Montenegro, V.; Cardarelli, F.; Piras, F.; et al. Experimental Analysis of the Use of Cranial Electromyography in Athletes and Clinical Implications. Int J Environ Res Public Health 2022, 19, 7975, doi:10.3390/ijerph19137975.
105. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Inchingolo, A.D.; Inchingolo, A.M.; Dipalma, G. Fish-Hook Injuries: A Risk for Fishermen. Head Face Med 2010, 6, 28, doi:10.1186/1746-160X-6-28.
106. Dipalma, G.; Inchingolo, A.D.; Inchingolo, F.; Charitos, I.A.; Di Cosola, M.; Cazzolla, A.P. Focus on the Cariogenic

Process: Microbial and Biochemical Interactions with Teeth and Oral Environment. J Biol Regul Homeost Agents 2021, 35, doi:10.23812/20-747-A.
107. Santacroce, L.; Di Cosola, M.; Bottalico, L.; Topi, S.; Charitos, I.A.; Ballini, A.; Inchingolo, F.; Cazzolla, A.P.; Dipalma, G. Focus on HPV Infection and the Molecular Mechanisms of Oral Carcinogenesis. Viruses 2021, 13, 559, doi:10.3390/v13040559.
108. Pacifici, L.; Santacroce, L.; Dipalma, G.; Haxhirexha, K.; Topi, S.; Cantore, S.; Altini, V.; Pacifici, A.; De Vito, D.; Pettini, F.; et al. Gender Medicine: The Impact of Probiotics on Male Patients. Clin Ter 2021, 171, e8–e15, doi:10.7417/CT.2021.2274.
109. Inchingolo, A.D.; Patano, A.; Coloccia, G.; Ceci, S.; Inchingolo, A.M.; Marinelli, G.; Malcangi, G.; Montenegro, V.; Laudadio, C.; Palmieri, G.; et al. Genetic Pattern, Orthodontic and Surgical Management of Multiple Supplementary Impacted Teeth in a Rare, Cleidocranial Dysplasia Patient: A Case Report. Medicina (Kaunas) 2021, 57, 1350, doi:10.3390/medicina57121350.
110. Dang, Q.T.; Huynh, T.D.; Inchingolo, F.; Dipalma, G.; Inchingolo, A.D.; Cantore, S.; Paduanelli, G.; Nguyen, K.C.D.; Ballini, A.; Isacco, C.G.; et al. Human Chondrocytes from Human Adipose Tissue-Derived Mesenchymal Stem Cells Seeded on a Dermal-Derived Collagen Matrix Sheet: Our Preliminary Results for a Ready to Go Biotechnological Cartilage Graft in Clinical Practice. Stem Cells Int 2021, 2021, 6664697, doi:10.1155/2021/6664697.
111. Coscia, M.F.; Monno, R.; Ballini, A.; Mirgaldi, R.; Dipalma, G.; Pettini, F.; Cristallo, V.; Inchingolo, F.; Foti, C.; de Vito, D. Human Papilloma Virus (HPV) Genotypes Prevalence in a Region of South Italy (Apulia). Ann Ist Super Sanita 2015, 51, 248–251, doi:10.4415/ANN_15_03_14.
112. Scarano, A.; Rapone, B.; Amuso, D.; Inchingolo, F.; Lorusso, F. Hyaluronic Acid Fillers Enriched with Glycine and Proline in Eyebrow Augmentation Procedure. Aesthetic Plast Surg 2022, 46, 419–428, doi:10.1007/s00266-021-02412-2.
113. Balzanelli, M.G.; Distratis, P.; Dipalma, G.; Vimercati, L.; Catucci, O.; Amatulli, F.; Cefalo, A.; Lazzaro, R.; Palazzo, D.; Aityan, S.K.; et al. Immunity Profiling of COVID-19 Infection, Dynamic Variations of Lymphocyte Subsets, a Comparative Analysis on Four Different Groups. Microorganisms 2021, 9, 2036, doi:10.3390/microorganisms9102036.
114. Borsani, E.; Buffoli, B.; Bonazza, V.; Brunelli, G.; Monini, L.; Inchingolo, F.; Ballini, A.; Rezzani, R.; Rodella, L.F. In Vitro Effects of Concentrated Growth Factors (CGF) on Human SH-SY5Y Neuronal Cells. Eur Rev Med Pharmacol Sci 2020, 24, 304–314, doi:10.26355/eurrev_202001_19927.
115. Bonazza, V.; Borsani, E.; Buffoli, B.; Parolini, S.; Inchingolo, F.; Rezzani, R.; Rodella, L.F. In Vitro Treatment with Concentrated Growth Factors (CGF) and Sodium Orthosilicate Positively Affects Cell Renewal in Three Different Human Cell Lines. Cell Biol Int 2018, 42, 353–364, doi:10.1002/cbin.10908.
116. Maspero, C.; Abate, A.; Inchingolo, F.; Dolci, C.; Cagetti, M.G.; Tartaglia, G.M. Incidental Finding in Pre-Orthodontic Treatment Radiographs of an Aural Foreign Body: A Case Report. Children (Basel) 2022, 9, 421, doi:10.3390/children9030421.
117. Cirulli, N.; Inchingolo, A.D.; Patano, A.; Ceci, S.; Marinelli, G.; Malcangi, G.; Coloccia, G.; Montenegro, V.; Di Pede, C.; Ciocia, A.M.; et al. Innovative Application of Diathermy in Orthodontics: A Case Report. Int J Environ Res Public Health 2022, 19, 7448, doi:10.3390/ijerph19127448.
118. Inchingolo, F.; Hazballa, D.; Inchingolo, A.D.; Malcangi, G.; Marinelli, G.; Mancini, A.; Maggiore, M.E.; Bordea, I.R.; Scarano, A.; Farronato, M.; et al. Innovative Concepts and Recent Breakthrough for Engineered Graft and Constructs for Bone Regeneration: A Literature Systematic Review. Materials (Basel) 2022, 15, 1120, doi:10.3390/ma15031120.
119. Maspero, C.; Cappella, A.; Dolci, C.; Cagetti, M.G.; Inchingolo, F.; Sforza, C. Is Orthodontic Treatment with Microperforations Worth It? A Scoping Review. Children (Basel) 2022, 9, 208, doi:10.3390/children9020208.
120. Rapone, B.; Inchingolo, A.D.; Trasarti, S.; Ferrara, E.; Qorri, E.; Mancini, A.; Montemurro, N.; Scarano, A.; Inchingolo, A.M.; Dipalma, G.; et al. Long-Term Outcomes of Implants Placed in Maxillary Sinus Floor Augmentation with Porous Fluorohydroxyapatite (Algipore® FRIOS®) in Comparison with Anorganic Bovine Bone (Bio-Oss®) and Platelet Rich Plasma (PRP): A Retrospective Study. J Clin Med 2022, 11, 2491, doi:10.3390/jcm11092491.
121. Sanz, M.; Kornman, K.; working group 3 of the joint EFP/AAP workshop Periodontitis and Adverse Pregnancy Outcomes: Consensus Report of the Joint EFP/AAP Workshop on Periodontitis and Systemic Diseases. J Periodontol 2013, 84, S164-169, doi:10.1902/jop.2013.1340016.
122. Eke, P.I.; Thornton-Evans, G.O.; Wei, L.; Borgnakke, W.S.; Dye, B.A.; Genco, R.J. Periodontitis in US Adults: National Health and Nutrition Examination Survey 2009-2014. J Am Dent Assoc 2018, 149, 576-588.e6, doi:10.1016/j.adaj.2018.04.023.
123. Goldoni, R.; Scolaro, A.; Boccalari, E.; Dolci, C.; Scarano, A.; Inchingolo, F.; Ravazzani, P.; Muti, P.; Tartaglia, G. Malignancies and Biosensors: A Focus on Oral Cancer Detection through Salivary Biomarkers. Biosensors (Basel) 2021, 11, 396, doi:10.3390/bios11100396.
124. Inchingolo, F.; Inchingolo, A.D.; Palumbo, I.; Guglielmo, M.; Balestriere, L.; Casamassima, L.; Ciccarese, D.; Marotti, P.; Mancini, A.; Palermo, A.; et al. Management of Physiological Gingival Melanosis by Diode Laser Depigmentation versus Surgical Scalpel: A Systematic Review. Dentistry Review 2024, 4, 100146, doi:10.1016/j.dentre.2024.100146.
125. Laudadio, C.; Inchingolo, A.D.; Malcangi, G.; Limongelli, L.; Marinelli, G.; Coloccia, G.; Montenegro, V.; Patano, A.; Inchingolo, F.; Bordea, I.R.; et al. Management of Anterior Open-Bite in the Deciduous, Mixed and Permanent Dentition Stage: A Descriptive Review. J Biol Regul Homeost Agents 2021, 35, 271–281, doi:10.23812/21-2supp1-27.
126. Malcangi, G.; Patano, A.; Palmieri, G.; Di Pede, C.; Latini, G.; Inchingolo, A.D.; Hazballa, D.; de Ruvo, E.; Garofoli, G.; Inchingolo, F.; et al. Maxillary Sinus Augmentation Using Autologous Platelet Concentrates (Platelet-Rich Plasma, Platelet-Rich Fibrin, and Concentrated Growth Factor) Combined with Bone Graft: A Systematic Review. Cells 2023, 12, 1797, doi:10.3390/cells12131797.
127. Balzanelli, M.G.; Distratis, P.; Catucci, O.; Cefalo, A.; Lazzaro, R.; Inchingolo, F.; Tomassone, D.; Aityan, S.K.; Ballini, A.; Nguyen, K.C.D.; et al. Mesenchymal Stem Cells: The Secret Children's Weapons against the SARS-CoV-2 Lethal Infection. Applied Sciences 2021, 11, 1696, doi:10.3390/app11041696.
128. Casu, C.; Mosaico, G.; Natoli, V.; Scarano, A.; Lorusso, F.; Inchingolo, F. Microbiota of the Tongue and Systemic Connections: The Examination of the Tongue as an Integrated Approach in Oral Medicine. Hygiene 2021, 1, 56–68, doi:10.3390/hygiene1020006.
129. Cirulli, N.; Ballini, A.; Cantore, S.; Farronato, D.; Inchingolo, F.; Dipalma, G.; Gatto, M.R.; Alessandri Bonetti, G. MIXED DENTITION SPACE ANALYSIS OF A SOUTHERN ITALIAN POPULATION: NEW REGRESSION EQUATIONS FOR UNERUPTED TEETH. J Biol Regul Homeost Agents 2015, 29, 515–520.
130. Inchingolo, A.M.; Fatone, M.C.; Malcangi, G.; Avantario, P.; Piras, F.; Patano, A.; Di Pede, C.; Netti, A.; Ciocia, A.M.; De Ruvo, E.; et al. Modifiable Risk Factors of Non-Syndromic Orofacial Clefts: A Systematic Review. Children (Basel) 2022, 9, 1846, doi:10.3390/children9121846.
131. De Benedittis, M.; Petruzzi, M.; Pastore, L.; Inchingolo, F.; Serpico, R. Nd:YAG Laser for Gingivectomy in Sturge-Weber Syndrome. J Oral Maxillofac Surg 2007, 65, 314–316, doi:10.1016/j.joms.2006.05.011.
132. Montemurro, N.; Pierozzi, E.; Inchingolo, A.M.; Pahwa, B.; De Carlo, A.; Palermo, A.; Scarola, R.; Dipalma, G.; Corsalini, M.; Inchingolo, A.D.; et al. New Biograft Solution, Growth Factors and Bone Regenerative Approaches in Neurosurgery, Dentistry, and Orthopedics: A Review. Eur Rev Med Pharmacol Sci 2023, 27, 7653–7664,

doi:10.26355/eurrev_202308_33419.
133. Contaldo, M.; Fusco, A.; Stiuso, P.; Lama, S.; Gravina, A.G.; Itro, A.; Federico, A.; Itro, A.; Dipalma, G.; Inchingolo, F.; et al. Oral Microbiota and Salivary Levels of Oral Pathogens in Gastro-Intestinal Diseases: Current Knowledge and Exploratory Study. Microorganisms 2021, 9, 1064, doi:10.3390/microorganisms9051064.
134. Malcangi, G.; Patano, A.; Palmieri, G.; Riccaldo, L.; Pezzolla, C.; Mancini, A.; Inchingolo, A.D.; Di Venere, D.; Piras, F.; Inchingolo, F.; et al. Oral Piercing: A Pretty Risk—A Scoping Review of Local and Systemic Complications of This Current Widespread Fashion. Int J Environ Res Public Health 2023, 20, 5744, doi:10.3390/ijerph20095744.
135. Inchingolo, A.D.; Carpentiere, V.; Piras, F.; Netti, A.; Ferrara, I.; Campanelli, M.; Latini, G.; Viapiano, F.; Costa, S.; Malcangi, G.; et al. Orthodontic Surgical Treatment of Impacted Mandibular Canines: Systematic Review and Case Report. Applied Sciences 2022, 12, 8008, doi:10.3390/app12168008.
136. Mancini, A.; Chirico, F.; Inchingolo, A.M.; Piras, F.; Colonna, V.; Marotti, P.; Carone, C.; Inchingolo, A.D.; Inchingolo, F.; Dipalma, G. Osteonecrosis of the Jaws Associated with Herpes Zoster Infection: A Systematic Review and a Rare Case Report. Microorganisms 2024, 12, 1506, doi:10.3390/microorganisms12081506.
137. Contaldo, M.; Itro, A.; Lajolo, C.; Gioco, G.; Inchingolo, F.; Serpico, R. Overview on Osteoporosis, Periodontitis and Oral Dysbiosis: The Emerging Role of Oral Microbiota. Applied Sciences 2020, 10, 6000, doi:10.3390/app10176000.
138. Inchingolo, F.; Cantore, S.; Dipalma, G.; Georgakopoulos, I.; Almasri, M.; Gheno, E.; Motta, A.; Marrelli, M.; Farronato, D.; Ballini, A.; et al. Platelet Rich Fibrin in the Management of Medication-Related Osteonecrosis of the Jaw: A Clinical and Histopathological Evaluation. J Biol Regul Homeost Agents 2017, 31, 811–816.
139. Inchingolo, A.M.; Malcangi, G.; Inchingolo, A.D.; Mancini, A.; Palmieri, G.; Di Pede, C.; Piras, F.; Inchingolo, F.; Dipalma, G.; Patano, A. Potential of Graphene-Functionalized Titanium Surfaces for Dental Implantology: Systematic Review. Coatings 2023, 13, 725, doi:10.3390/coatings13040725.
140. Malcangi, G.; Patano, A.; Guglielmo, M.; Sardano, R.; Palmieri, G.; Di Pede, C.; de Ruvo, E.; Inchingolo, A.D.; Mancini, A.; Inchingolo, F.; et al. Precision Medicine in Oral Health and Diseases: A Systematic Review. J Pers Med 2023, 13, 725, doi:10.3390/jpm13050725.
141. Inchingolo, F.; Santacroce, L.; Cantore, S.; Ballini, A.; Del Prete, R.; Topi, S.; Saini, R.; Dipalma, G.; Arrigoni, R. Probiotics and EpiCor® in Human Health. J Biol Regul Homeost Agents 2019, 33, 1973–1979, doi:10.23812/19-543-L.
142. Arezzo, F.; Loizzi, V.; La Forgia, D.; Moschetta, M.; Tagliafico, A.S.; Cataldo, V.; Kawosha, A.A.; Venerito, V.; Cazzato, G.; Ingravallo, G.; et al. Radiomics Analysis in Ovarian Cancer: A Narrative Review. Applied Sciences 2021, 11, 7833, doi:10.3390/app11177833.
143. Inchingolo, A.D.; Ferrara, I.; Viapiano, F.; Netti, A.; Campanelli, M.; Buongiorno, S.; Latini, G.; Carpentiere, V.; Ciocia, A.M.; Ceci, S.; et al. Rapid Maxillary Expansion on the Adolescent Patient: Systematic Review and Case Report. Children (Basel) 2022, 9, 1046, doi:10.3390/children9071046.
144. Scarano, A.; Inchingolo, F.; Rapone, B.; Lucchina, A.G.; Qorri, E.; Lorusso, F. Role of Autologous Platelet Gel (APG) in Bone Healing: A Rabbit Study. Applied Sciences 2021, 11, 395, doi:10.3390/app11010395.
145. Balzanelli, M.G.; Distratis, P.; Dipalma, G.; Vimercati, L.; Inchingolo, A.D.; Lazzaro, R.; Aityan, S.K.; Maggiore, M.E.; Mancini, A.; Laforgia, R.; et al. Sars-CoV-2 Virus Infection May Interfere CD34+ Hematopoietic Stem Cells and Megakaryocyte-Erythroid Progenitors Differentiation Contributing to Platelet Defection towards Insurgence of Thrombocytopenia and Thrombophilia. Microorganisms 2021, 9, 1632, doi:10.3390/microorganisms9081632.
146. Inchingolo, A.D.; Inchingolo, A.M.; Bordea, I.R.; Malcangi, G.; Xhajanka, E.; Scarano, A.; Lorusso, F.; Farronato, M.; Tartaglia, G.M.; Isacco, C.G.; et al. SARS-CoV-2 Disease through Viral Genomic and Receptor Implications: An Overview of Diagnostic and Immunology Breakthroughs. Microorganisms 2021, 9, 793, doi:10.3390/microorganisms9040793.
147. Scarano, A.; Noumbissi, S.; Gupta, S.; Inchingolo, F.; Stilla, P.; Lorusso, F. Scanning Electron Microscopy Analysis and Energy Dispersion X-Ray Microanalysis to Evaluate the Effects of Decontamination Chemicals and Heat Sterilization on Implant Surgical Drills: Zirconia vs. Steel. Applied Sciences 2019, 9, 2837, doi:10.3390/app9142837.
148. Darveau, R.P. Periodontitis: A Polymicrobial Disruption of Host Homeostasis. Nat Rev Microbiol 2010, 8, 481–490, doi:10.1038/nrmicro2337.
149. Korte, D.L.; Kinney, J. Personalized Medicine: An Update of Salivary Biomarkers for Periodontal Diseases. Periodontol 2000 2016, 70, 26–37, doi:10.1111/prd.12103.
150. Palmer, S.R.; Miller, J.H.; Abranches, J.; Zeng, L.; Lefebure, T.; Richards, V.P.; Lemos, J.A.; Stanhope, M.J.; Burne, R.A. Phenotypic Heterogeneity of Genomically-Diverse Isolates of Streptococcus Mutans. PLoS One 2013, 8, e61358, doi:10.1371/journal.pone.0061358.
151. Husejnagic, S.; Lettner, S.; Laky, M.; Georgopoulos, A.; Moritz, A.; Rausch-Fan, X. Photoactivated Disinfection in Periodontal Treatment: A Randomized Controlled Clinical Split-Mouth Trial. J Periodontol 2019, 90, 1260–1269, doi:10.1002/JPER.18-0576.
152. Bassir, S.H.; Moslemi, N.; Jamali, R.; Mashmouly, S.; Fekrazad, R.; Chiniforush, N.; Shamshiri, A.R.; Nowzari, H. Photoactivated Disinfection Using Light-Emitting Diode as an Adjunct in the Management of Chronic Periodontitis: A Pilot Double-Blind Split-Mouth Randomized Clinical Trial. Journal of Clinical Periodontology 2013, 40, 65–72, doi:10.1111/jcpe.12024.
153. Diao, J.; Yuan, C.; Tong, P.; Ma, Z.; Sun, X.; Zheng, S. Potential Roles of the Free Salivary Microbiome Dysbiosis in Periodontal Diseases. Front Cell Infect Microbiol 2021, 11, 711282, doi:10.3389/fcimb.2021.711282.
154. Gellibolian, R.; Miller, C.S.; Markaryan, A.N.; Weltman, R.L.; Van Dyke, T.E.; Ebersole, J.L. Precision Periodontics: Quantitative Measures of Disease Progression. J Am Dent Assoc 2022, 153, 826–828, doi:10.1016/j.adaj.2022.03.005.
155. Garcia, G.; Ramos, F.; Maldonado, J.; Fernandez, A.; Yáñez, J.; Hernandez, L.; Gaytán, P. Prevalence of Two Entamoeba Gingivalis ST1 and ST2-Kamaktli Subtypes in the Human Oral Cavity under Various Conditions. Parasitol Res 2018, 117, 2941–2948, doi:10.1007/s00436-018-5990-8.
156. Caffesse, R.G.; Becker, W. Principles and Techniques of Guided Tissue Regeneration. Dent Clin North Am 1991, 35, 479–494.
157. Lorusso, F.; Inchingolo, F.; Scarano, A. Scientific Production in Dentistry: The National Panorama through a Bibliometric Study of Italian Academies. Biomed Res Int 2020, 2020, 3468303, doi:10.1155/2020/3468303.
158. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Villabruna, B.; Inchingolo, A.M.; Dipalma, G. Severe Anisocoria after Oral Surgery under General Anesthesia. Int J Med Sci 2010, 7, 314–318, doi:10.7150/ijms.7.314.
159. Contaldo, M.; Boccellino, M.; Zannini, G.; Romano, A.; Sciarra, A.; Sacco, A.; Settembre, G.; Coppola, M.; Di Carlo, A.; D'Angelo, L.; et al. Sex Hormones and Inflammation Role in Oral Cancer Progression: A Molecular and Biological Point of View. J Oncol 2020, 2020, 9587971, doi:10.1155/2020/9587971.
160. Minetti, E.; Palermo, A.; Savadori, P.; Patano, A.; Inchingolo, A.D.; Rapone, B.; Malcangi, G.; Inchingolo, F.; Dipalma, G.; Tartaglia, F.C.; et al. Socket Preservation Using Dentin Mixed with Xenograft Materials: A Pilot Study. Materials (Basel) 2023, 16, 4945, doi:10.3390/ma16144945.
161. Bonamonte, D.; Filoni, A.; De Marco, A.; Lospalluti, L.; Nacchiero, E.; Ronghi, V.; Colagrande, A.; Giudice,

G.; Cazzato, G. Squamous Cell Carcinoma in Patients with Inherited Epidermolysis Bullosa: Review of Current Literature. Cells 2022, 11, 1365, doi:10.3390/cells11081365.
162. Iniesta, M.; Herrera, D.; Montero, E.; Zurbriggen, M.; Matos, A.R.; Marín, M.J.; Sánchez-Beltrán, M.C.; Llama-Palacio, A.; Sanz, M. Probiotic Effects of Orally Administered Lactobacillus Reuteri-Containing Tablets on the Subgingival and Salivary Microbiota in Patients with Gingivitis. A Randomized Clinical Trial. Journal of Clinical Periodontology 2012, 39, 736–744, doi:10.1111/j.1600-051X.2012.01914.x.
163. Pudgar, P.; Povšič, K.; Čuk, K.; Seme, K.; Petelin, M.; Gašperšič, R. Probiotic Strains of Lactobacillus Brevis and Lactobacillus Plantarum as Adjunct to Non-Surgical Periodontal Therapy: 3-Month Results of a Randomized Controlled Clinical Trial. Clin Oral Investig 2021, 25, 1411–1422, doi:10.1007/s00784-020-03449-4.
164. Inchingolo, A.M.; Inchingolo, A.D.; Nardelli, P.; Latini, G.; Trilli, I.; Ferrante, L.; Malcangi, G.; Palermo, A.; Inchingolo, F.; Dipalma, G. Stem Cells: Present Understanding and Prospects for Regenerative Dentistry. J Funct Biomater 2024, 15, 308, doi:10.3390/jfb15100308.
165. Ballini, A.; Di Benedetto, A.; De Vito, D.; Scarano, A.; Scacco, S.; Perillo, L.; Posa, F.; Dipalma, G.; Paduano, F.; Contaldo, M.; et al. Stemness Genes Expression in Naïve vs. Osteodifferentiated Human Dental-Derived Stem Cells. Eur Rev Med Pharmacol Sci 2019, 23, 2916–2923, doi:10.26355/eurrev_201904_17570.
166. Inchingolo, A.M.; Malcangi, G.; Ferrante, L.; Del Vecchio, G.; Viapiano, F.; Inchingolo, A.D.; Mancini, A.; Annicchiarico, C.; Inchingolo, F.; Dipalma, G.; et al. Surface Coatings of Dental Implants: A Review. J Funct Biomater 2023, 14, 287, doi:10.3390/jfb14050287.
167. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Corelli, R.; Inchingolo, A.M.; Dipalma, G. Surgical Treatment of Depressed Scar: A Simple Technique. Int J Med Sci 2011, 8, 377–379, doi:10.7150/ijms.8.377.
168. Lorusso, F.; Inchingolo, F.; Dipalma, G.; Postiglione, F.; Fulle, S.; Scarano, A. Synthetic Scaffold/Dental Pulp Stem Cell (DPSC) Tissue Engineering Constructs for Bone Defect Treatment: An Animal Studies Literature Review. Int J Mol Sci 2020, 21, 9765, doi:10.3390/ijms21249765.
169. Bustamante, M.; Oomah, B.D.; Mosi-Roa, Y.; Rubilar, M.; Burgos-Díaz, C. Probiotics as an Adjunct Therapy for the Treatment of Halitosis, Dental Caries and Periodontitis. Probiotics Antimicrob Proteins 2020, 12, 325–334, doi:10.1007/s12602-019-9521-4.
170. Dubar, M.; Zaffino, M.-L.; Remen, T.; Thilly, N.; Cunat, L.; Machouart, M.-C.; Bisson, C. Protozoans in Subgingival Biofilm: Clinical and Bacterial Associated Factors and Impact of Scaling and Root Planing Treatment. J Oral Microbiol 12, 1693222, doi:10.1080/20002297.2019.1693222.
171. Inchingolo, A.D.; Dipalma, G.; Inchingolo, A.M.; Malcangi, G.; Santacroce, L.; D'Oria, M.T.; Isacco, C.G.; Bordea, I.R.; Candrea, S.; Scarano, A.; et al. The 15-Months Clinical Experience of SARS-CoV-2: A Literature Review of Therapies and Adjuvants. Antioxidants (Basel) 2021, 10, 881, doi:10.3390/antiox10060881.
172. Inchingolo, F.; Inchingolo, A.M.; Malcangi, G.; De Leonardis, N.; Sardano, R.; Pezzolla, C.; de Ruvo, E.; Di Venere, D.; Palermo, A.; Inchingolo, A.D.; et al. The Benefits of Probiotics on Oral Health: Systematic Review of the Literature. Pharmaceuticals 2023, 16, doi:10.3390/ph16091313.
173. Corriero, A.; Gadaleta, R.M.; Puntillo, F.; Inchingolo, F.; Moschetta, A.; Brienza, N. The Central Role of the Gut in Intensive Care. Crit Care 2022, 26, 379, doi:10.1186/s13054-022-04259-8.
174. Dipalma, G.; Inchingolo, A.D.; Memè, L.; Casamassima, L.; Carone, C.; Malcangi, G.; Inchingolo, F.; Palermo, A.; Inchingolo, A.M. The Diagnosis and Management of Infraoccluded Deciduous Molars: A Systematic Review. Children (Basel) 2024, 11, 1375, doi:10.3390/children11111375.
175. Hazballa, D.; Inchingolo, A.D.; Inchingolo, A.M.; Malcangi, G.; Santacroce, L.; Minetti, E.; Di Venere, D.; Limongelli, L.; Bordea, I.R.; Scarano, A.; et al. The Effectiveness of Autologous Demineralized Tooth Graft for the Bone Ridge Preservation: A Systematic Review of the Literature. J Biol Regul Homeost Agents 2021, 35, 283–294, doi:10.23812/21-2supp1-28.
176. Dipalma, G.; Inchingolo, A.M.; Latini, G.; Ferrante, L.; Nardelli, P.; Malcangi, G.; Trilli, I.; Inchingolo, F.; Palermo, A.; Inchingolo, A.D. The Effectiveness of Curcumin in Treating Oral Mucositis Related to Radiation and Chemotherapy: A Systematic Review. Antioxidants (Basel) 2024, 13, 1160, doi:10.3390/antiox13101160.
177. Inchingolo, A.D.; Inchingolo, A.M.; Bordea, I.R.; Xhajanka, E.; Romeo, D.M.; Romeo, M.; Zappone, C.M.F.; Malcangi, G.; Scarano, A.; Lorusso, F.; et al. The Effectiveness of Osseodensification Drilling Protocol for Implant Site Osteotomy: A Systematic Review of the Literature and Meta-Analysis. Materials (Basel) 2021, 14, 1147, doi:10.3390/ma14051147.
178. Scarano, A.; Lorusso, F.; Inchingolo, F.; Postiglione, F.; Petrini, M. The Effects of Erbium-Doped Yttrium Aluminum Garnet Laser (Er: YAG) Irradiation on Sandblasted and Acid-Etched (SLA) Titanium, an In Vitro Study. Materials 2020, 13, 4174, doi:10.3390/ma13184174.
179. Inchingolo, A.D.; Patano, A.; Coloccia, G.; Ceci, S.; Inchingolo, A.M.; Marinelli, G.; Malcangi, G.; Montenegro, V.; Laudadio, C.; Pede, C.D.; et al. The Efficacy of a New AMCOP® Elastodontic Protocol for Orthodontic Interceptive Treatment: A Case Series and Literature Overview. Int J Environ Res Public Health 2022, 19, 988, doi:10.3390/ijerph19020988.
180. Lorusso, F.; Inchingolo, F.; Scarano, A. The Impact of COVID-19 on the Scientific Production Spread: A Five-Month Bibliometric Report of the Worldwide Research Community. 2020, doi:10.19193/0393-6384_2020_6_515.
181. Rapone, B.; Ferrara, E.; Qorri, E.; Dipalma, G.; Mancini, A.; Corsalini, M.; Fabbro, M.D.; Scarano, A.; Tartaglia, G.M.; Inchingolo, F. The Impact of Periodontal Inflammation on Endothelial Function Assessed by Circulating Levels of Asymmetric Dimethylarginine: A Single-Blinded Randomized Clinical Trial. J Clin Med 2022, 11, 4173, doi:10.3390/jcm11144173.
182. Inchingolo, A.D.; Cazzolla, A.P.; Di Cosola, M.; Greco Lucchina, A.; Santacroce, L.; Charitos, I.A.; Topi, S.; Malcangi, G.; Hazballa, D.; Scarano, A.; et al. The Integumentary System and Its Microbiota between Health and Disease. J Biol Regul Homeost Agents 2021, 35, 303–321, doi:10.23812/21-2supp1-30.
183. Rabe, A.; Gesell Salazar, M.; Michalik, S.; Kocher, T.; Below, H.; Völker, U.; Welk, A. Impact of Different Oral Treatments on the Composition of the Supragingival Plaque Microbiome. J Oral Microbiol 14, 2138251, doi:10.1080/20002297.2022.2138251.
184. Séguier, S.; Souza, S.L.S.; Sverzut, A.C.V.; Simioni, A.R.; Primo, F.L.; Bodineau, A.; Corrêa, V.M.A.; Coulomb, B.; Tedesco, A.C. Impact of Photodynamic Therapy on Inflammatory Cells during Human Chronic Periodontitis. Journal of Photochemistry and Photobiology B: Biology 2010, 101, 348–354, doi:10.1016/j.jphotobiol.2010.08.007.
185. Heller, D.; Varela, V.M.; Silva-Senem, M.X. e; Torres, M.C.B.; Feres-Filho, E.J.; Colombo, A.P.V. Impact of Systemic Antimicrobials Combined with Anti-Infective Mechanical Debridement on the Microbiota of Generalized Aggressive Periodontitis: A 6-Month RCT. Journal of Clinical Periodontology 2011, 38, 355–364, doi:10.1111/j.1600-051X.2011.01707.x.
186. de Oliveira, A.M.; Lourenço, T.G.B.; Colombo, A.P.V. Impact of Systemic Probiotics as Adjuncts to Subgingival Instrumentation on the Oral-Gut Microbiota Associated with Periodontitis: A Randomized Controlled Clinical Trial. J Periodontol 2022, 93, 31–44, doi:10.1002/JPER.21-0078.
187. Westfelt, E. Rationale of Mechanical Plaque Control. J Clin Periodontol 1996, 23, 263–267, doi:10.1111/j.1600-051x.1996.tb02086.x.
188. Lang, N.P. Indications and Rationale for Non-Surgical

Periodontal Therapy. Int Dent J 1983, 33, 127–136.
189. Serino, G.; Rosling, B.; Ramberg, P.; Socransky, S.S.; Lindhe, J. Initial Outcome and Long-Term Effect of Surgical and Non-Surgical Treatment of Advanced Periodontal Disease. J Clin Periodontol 2001, 28, 910–916, doi:10.1034/j.1600-051x.2001.028010910.x.
190. Homayouni Rad, A.; Pourjafar, H.; Mirzakhani, E. A Comprehensive Review of the Application of Probiotics and Postbiotics in Oral Health. Front Cell Infect Microbiol 2023, 13, 1120995, doi:10.3389/fcimb.2023.1120995.
191. Pihlstrom, B.L.; Ortiz-Campos, C.; McHugh, R.B. A Randomized Four-Years Study of Periodontal Therapy. J Periodontol 1981, 52, 227–242, doi:10.1902/jop.1981.52.5.227.
192. Park, H.M.; Ryu, S.; Jo, E.; Yoo, S.K.; Kim, Y.W. A Study on the Biofilm Removal Efficacy of a Bioelectric Toothbrush. Bioengineering (Basel) 2023, 10, 1184, doi:10.3390/bioengineering10101184.
193. Zambon, J.J.; Christersson, L.A.; Slots, J. Actinobacillus Actinomycetemcomitans in Human Periodontal Disease. Prevalence in Patient Groups and Distribution of Biotypes and Serotypes within Families. J Periodontol 1983, 54, 707–711, doi:10.1902/jop.1983.54.12.707.
194. Guerrero, A.; Griffiths, G.S.; Nibali, L.; Suvan, J.; Moles, D.R.; Laurell, L.; Tonetti, M.S. Adjunctive Benefits of Systemic Amoxicillin and Metronidazole in Non-Surgical Treatment of Generalized Aggressive Periodontitis: A Randomized Placebo-Controlled Clinical Trial. Journal of Clinical Periodontology 2005, 32, 1096–1107, doi:10.1111/j.1600-051X.2005.00814.x.
195. Fine, D.H.; Markowitz, K.; Furgang, D.; Fairlie, K.; Ferrandiz, J.; Nasri, C.; McKiernan, M.; Gunsolley, J. Aggregatibacter Actinomycetemcomitans and Its Relationship to Initiation of Localized Aggressive Periodontitis: Longitudinal Cohort Study of Initially Healthy Adolescents. J Clin Microbiol 2007, 45, 3859–3869, doi:10.1128/JCM.00653-07.
196. Griffiths, G.S.; Ayob, R.; Guerrero, A.; Nibali, L.; Suvan, J.; Moles, D.R.; Tonetti, M.S. Amoxicillin and Metronidazole as an Adjunctive Treatment in Generalized Aggressive Periodontitis at Initial Therapy or Re-Treatment: A Randomized Controlled Clinical Trial. Journal of Clinical Periodontology 2011, 38, 43–49, doi:10.1111/j.1600-051X.2010.01632.x.
197. Roberts, M.C. Antibiotic Toxicity, Interactions and Resistance Development. Periodontology 2000 2002, 28, 280–297, doi:10.1034/j.1600-0757.2002.280112.x.
198. Petersilka, G.J.; Ehmke, B.; Flemmig, T.F. Antimicrobial Effects of Mechanical Debridement. Periodontol 2000 2002, 28, 56–71, doi:10.1034/j.1600-0757.2002.280103.x.
199. Srikanth, A.; Sathish, M.; Sri Harsha, A.V. Application of Ozone in the Treatment of Periodontal Disease. J Pharm Bioallied Sci 2013, 5, S89-94, doi:10.4103/0975-7406.113304.
200. Merchant, A.T.; Shrestha, D.; Chaisson, C.; Choi, Y.H.; Hazlett, L.J.; Zhang, J. Association between Serum Antibodies to Oral Microorganisms and Hyperglycemia in Adults. J Dent Res 2014, 93, 752–759, doi:10.1177/0022034514538451.
201. Sefton, A. m.; Maskell, J. p.; Beighton, D.; Whiley, A.; Shain, H.; Foyle, D.; Smith, S. r.; Smales, F. c.; Williams, J. d. Azithromycin in the Treatment of Periodontal Disease Effect on Microbial Flora. Journal of Clinical Periodontology 1996, 23, 998–1003, doi:10.1111/j.1600-051X.1996.tb00527.x.
202. Kreth, J.; Merritt, J.; Qi, F. Bacterial and Host Interactions of Oral Streptococci. DNA Cell Biol 2009, 28, 397–403, doi:10.1089/dna.2009.0868.
203. Gilbert, P.; Das, J.; Foley, I. Biofilm Susceptibility to Antimicrobials. Adv Dent Res. 1997, 11, 160–167, doi:10.1177/08959374970110010701.
204. Saxena, P.; Joshi, Y.; Rawat, K.; Bisht, R. Biofilms: Architecture, Resistance, Quorum Sensing and Control Mechanisms. Indian J Microbiol 2019, 59, 3–12, doi:10.1007/s12088-018-0757-6.
205. Butera, A.; Pascadopoli, M.; Pellegrini, M.; Trapani, B.; Gallo, S.; Radu, M.; Scribante, A. Biomimetic Hydroxyapatite Paste for Molar-Incisor Hypomineralization: A Randomized Clinical Trial. Oral Dis 2023, 29, 2789–2798, doi:10.1111/odi.14388.
206. Ciantar, M.; Spratt, D.A.; Newman, H.N.; Wilson, M. Capnocytophaga Granulosa and Capnocytophaga Haemolytica: Novel Species in Subgingival Plaque. J Clin Periodontol 2001, 28, 701–705, doi:10.1034/j.1600-051x.2001.028007701.x.
207. Rothman, K.J.; Greenland, S. Causation and Causal Inference in Epidemiology. Am J Public Health 2005, 95, S144–S150, doi:10.2105/AJPH.2004.059204.
208. Elkerbout, T.A.; Slot, D.E.; Rijnen, M.E.; van der Weijden, G.A.F. Change in Oral Hygiene Behaviour after Non-Surgical Periodontal Therapy - A Retrospective Analyses. Int J Dent Hyg 2023, 21, 259–271, doi:10.1111/idh.12593.
209. Socransky, S.S.; Smith, C.; Martin, L.; Paster, B.J.; Dewhirst, F.E.; Levin, A.E. “Checkerboard” DNA-DNA Hybridization. Biotechniques 1994, 17, 788–792.
210. Papapanou, P.N.; Madianos, P.N.; Dahlén, G.; Sandros, J. “Checkerboard” versus Culture: A Comparison between Two Methods for Identification of Subgingival Microbiota. Eur J Oral Sci 1997, 105, 389–396, doi:10.1111/j.1600-0722.1997.tb02135.x.
211. Eickholz, P.; Nickles, K.; Koch, R.; Harks, I.; Hoffmann, T.; Kim, T.-S.; Kocher, T.; Meyle, J.; Kaner, D.; Schlagenhauf, U.; et al. Is Furcation Involvement Affected by Adjunctive Systemic Amoxicillin plus Metronidazole? A Clinical Trials Exploratory Subanalysis. J Clin Periodontol 2016, 43, 839–848, doi:10.1111/jcpe.12594.
212. Teles, R.; Wang, C.-Y. Mechanisms Involved in the Association between Periodontal Diseases and Cardiovascular Disease. Oral Dis 2011, 17, 450–461, doi:10.1111/j.1601-0825.2010.01784.x.
213. Tomasi, C.; Wennström, J.L. Locally Delivered Doxycycline as an Adjunct to Mechanical Debridement at Retreatment of Periodontal Pockets: Outcome at Furcation Sites. J Periodontol 2011, 82, 210–218, doi:10.1902/jop.2010.100308.
214. Paquette, D.; Oringer, R.; Lessem, J.; Offenbacher, S.; Genco, R.; Persson, G.R.; Santucci, E.A.; Williams, R.C. Locally Delivered Minocycline Microspheres for the Treatment of Periodontitis in Smokers. J Clin Periodontol 2003, 30, 787–794, doi:10.1034/j.1600-051x.2003.00375.x.
215. Hagenfeld, D.; Kleine Bardenhorst, S.; Matern, J.; Prior, K.; Harks, I.; Eickholz, P.; Lorenz, K.; Kim, T.-S.; Kocher, T.; Meyle, J.; et al. Long-Term Changes in the Subgingival Microbiota in Patients with Stage III-IV Periodontitis Treated by Mechanical Therapy and Adjunctive Systemic Antibiotics: A Secondary Analysis of a Randomized Controlled Trial. J Clin Periodontol 2023, 50, 1101–1112, doi:10.1111/jcpe.13824.
216. Cyris, M.; Holtmann, P.; Dörfer, C.E.; Holtmann, L.; Kern, M.; Graetz, C. Long-Term Effect of Simulated Five Years Professional Mechanical Biofilm Removal on the Luting Gap of Ceramic Restorations. BMC Oral Health 2024, 24, 291, doi:10.1186/s12903-024-04066-3.
217. Johnston, W.; Rosier, B.T.; Carda-Diéguez, M.; Paterson, M.; Watson, P.; Piela, K.; Goulding, M.; Ramage, G.; Baranyia, D.; Chen, T.; et al. Longitudinal Changes in Subgingival Biofilm Composition Following Periodontal Treatment. J Periodontol 2023, 94, 1065–1077, doi:10.1002/JPER.22-0749.
218. Silva, M.P.; Feres, M.; Sirotto, T.A.O.; Soares, G.M.S.; Mendes, J.A.V.; Faveri, M.; Figueiredo, L.C. Clinical and Microbiological Benefits of Metronidazole Alone or with Amoxicillin as Adjuncts in the Treatment of Chronic Periodontitis: A Randomized Placebo-Controlled Clinical Trial. J Clin Periodontol 2011, 38, 828–837, doi:10.1111/j.1600-051X.2011.01763.x.
219. Kamma, J.J.; Nakou, M.; Baehni, P.C. Clinical and Microbiological Characteristics of Smokers with Early Onset Periodontitis. Journal of Periodontal Research 1999, 34, 25–33, doi:10.1111/j.1600-0765.1999.tb02218.x.
220. Xajigeorgiou, C.; Sakellari, D.; Slini, T.; Baka, A.; Konstantinidis, A. Clinical and Microbiological Effects of Different Antimicrobials on Generalized Aggressive Periodontitis. Journal of Clinical Periodontology 2006, 33,

254–264, doi:10.1111/j.1600-051X.2006.00905.x.
221. Tekce, M.; Ince, G.; Gursoy, H.; Dirikan Ipci, S.; Cakar, G.; Kadir, T.; Yılmaz, S. Clinical and Microbiological Effects of Probiotic Lozenges in the Treatment of Chronic Periodontitis: A 1-Year Follow-up Study. Journal of Clinical Periodontology 2015, 42, 363–372, doi:10.1111/jcpe.12387.
222. Silva-Senem, M.X. e; Heller, D.; Varela, V.M.; Torres, M.C.B.; Feres-Filho, E.J.; Colombo, A.P.V. Clinical and Microbiological Effects of Systemic Antimicrobials Combined to an Anti-Infective Mechanical Debridement for the Management of Aggressive Periodontitis: A 12-Month Randomized Controlled Trial. Journal of Clinical Periodontology 2013, 40, 242–251, doi:10.1111/jcpe.12052.
223. Pawlowski, A.P.; Chen, A.; Hacker, B.M.; Mancl, L.A.; Page, R.C.; Roberts, F.A. Clinical Effects of Scaling and Root Planing on Untreated Teeth. Journal of Clinical Periodontology 2005, 32, 21–28, doi:10.1111/j.1600-051X.2004.00626.x.
224. Cosgarea, R.; Jepsen, S.; Heumann, C.; Batori-Andronescu, I.; Rosu, A.; Bora, R.; Arweiler, N.B.; Eick, S.; Sculean, A. Clinical, Microbiological, and Immunological Effects of 3- or 7-Day Systemic Antibiotics Adjunctive to Subgingival Instrumentation in Patients with Aggressive (Stage III/IV Grade C) Periodontitis: A Randomized Placebo-Controlled Clinical Trial. J Clin Periodontol 2022, 49, 1106–1120, doi:10.1111/jcpe.13676.
225. Awartani, F.A.; Zulqarnain, B.J. Comparison of the Clinical Effects of Subgingival Application of Metronidazole 25% Gel and Scaling in the Treatment of Adult Periodontitis. Quintessence Int 1998, 29, 41–48.
226. Kageyama, S.; Nagao, Y.; Ma, J.; Asakawa, M.; Yoshida, R.; Takeshita, T.; Hirosue, A.; Yamashita, Y.; Nakayama, H. Compositional Shift of Oral Microbiota Following Surgical Resection of Tongue Cancer. Front Cell Infect Microbiol 2020, 10, 600884, doi:10.3389/fcimb.2020.600884.
227. Kornman, K.S. Contemporary Approaches for Identifying Individual Risk for Periodontitis. Periodontol 2000 2018, 78, 12–29, doi:10.1111/prd.12234.
228. Lindhe, J.; Nyman, S. Scaling and Granulation Tissue Removal in Periodontal Therapy. J Clin Periodontol 1985, 12, 374–388, doi:10.1111/j.1600-051x.1985.tb00928.x.
229. Jagtap, P.; McGowan, T.; Bandhakavi, S.; Tu, Z.J.; Seymour, S.; Griffin, T.J.; Rudney, J.D. Deep Metaproteomic Analysis of Human Salivary Supernatant. Proteomics 2012, 12, 992–1001, doi:10.1002/pmic.201100503.
230. Kang, Y.; Sun, B.; Chen, Y.; Lou, Y.; Zheng, M.; Li, Z. Dental Plaque Microbial Resistomes of Periodontal Health and Disease and Their Changes after Scaling and Root Planing Therapy. mSphere 6, e00162-21, doi:10.1128/mSphere.00162-21.
231. Armitage, G.C. Development of a Classification System for Periodontal Diseases and Conditions. Ann Periodontol 1999, 4, 1–6, doi:10.1902/annals.1999.4.1.1.
232. Slots, J. Low-Cost Periodontal Therapy. Periodontology 2000 2012, 60, 110–137, doi:10.1111/j.1600-0757.2011.00429.x.
233. Teles, R.; Teles, F.; Frias-Lopez, J.; Paster, B.; Haffajee, A. Lessons Learned and Unlearned in Periodontal Microbiology. Periodontology 2000 2013, 62, 95–162, doi:10.1111/prd.12010.
234. Pavia, M.; Nobile, C.G.A.; Angelillo, I.F. Meta-Analysis of Local Tetracycline in Treating Chronic Periodontitis. Journal of Periodontology 2003, 74, 916–932, doi:10.1902/jop.2003.74.6.916.
235. Laksmana, T.; Kittichotirat, W.; Huang, Y.; Chen, W.; Jorgensen, M.; Bumgarner, R.; Chen, C. Metagenomic Analysis of Subgingival Microbiota Following Non-Surgical Periodontal Therapy: A Pilot Study. Open Dent J 2012, 6, 255–261, doi:10.2174/1874210601206010255.
236. Mombelli, A. Microbial Colonization of the Periodontal Pocket and Its Significance for Periodontal Therapy. Periodontol 2000 2018, 76, 85–96, doi:10.1111/prd.12147.
237. Socransky, S. s.; Haffajee, A. d.; Cugini, M. a.; Smith, C.; Kent Jr., R.L. Microbial Complexes in Subgingival Plaque. Journal of Clinical Periodontology 1998, 25, 134–144, doi:10.1111/j.1600-051X.1998.tb02419.x.
238. Bizzarro, S.; Laine, M.L.; Buijs, M.J.; Brandt, B.W.; Crielaard, W.; Loos, B.G.; Zaura, E. Microbial Profiles at Baseline and Not the Use of Antibiotics Determine the Clinical Outcome of the Treatment of Chronic Periodontitis. Sci Rep 2016, 6, 20205, doi:10.1038/srep20205.
239. Preus, H.R.; Dahlen, G.; Gjermo, P.; Baelum, V. Microbiologic Observations After Four Treatment Strategies Among Patients With Periodontitis Maintaining a High Standard of Oral Hygiene: Secondary Analysis of a Randomized Controlled Clinical Trial. J Periodontol 2015, 86, 856–865, doi:10.1902/jop.2015.140620.
240. Pavičič, M.J. a. M.P.; van Winkelhoff, A.J.; Douqué, N.H.; Steures, R.W.R.; de Graaff, J. Microbiological and Clinical Effects of Metronidazole and Amoxicillin in Actinobacillus Actinomycetemcomitans Associated Periodontitis. Journal of Clinical Periodontology 1994, 21, 107–112, doi:10.1111/j.1600-051X.1994.tb00287.x.
241. Signoretto, C.; Bianchi, F.; Burlacchini, G.; Canepari, P. Microbiological Evaluation of the Effects of Hyperbaric Oxygen on Periodontal Disease. New Microbiol 2007, 30, 431–437.
242. Könönen, E.; Müller, H.-P. Microbiology of Aggressive Periodontitis. Periodontol 2000 2014, 65, 46–78, doi:10.1111/prd.12016.
243. Feres, M.; Retamal-Valdes, B.; Fermiano, D.; Faveri, M.; Figueiredo, L.C.; Mayer, M.P.A.; Lee, J.-J.; Bittinger, K.; Teles, F. Microbiome Changes in Young Periodontitis Patients Treated with Adjunctive Metronidazole and Amoxicillin. J Periodontol 2021, 92, 467–478, doi:10.1002/JPER.20-0128.
244. Lu, H.; Zhao, Y.; Feng, X.; He, L.; Meng, H. Microbiome in Maintained Periodontitis and Its Shift over a Single Maintenance Interval of 3 Months. J Clin Periodontol 2019, 46, 1094–1104, doi:10.1111/jcpe.13177.
245. Byrne, S.J.; Chang, D.; Adams, G.G.; Butler, C.A.; Reynolds, E.C.; Darby, I.B.; Dashper, S.G. Microbiome Profiles of Non-Responding and Responding Paired Periodontitis Sites within the Same Participants Following Non-Surgical Treatment. J Oral Microbiol 2022, 14, 2043595, doi:10.1080/20002297.2022.2043595.
246. Carta, M.G.; Cossu, G.; Pintus, E.; Zoccheddu, R.; Callia, O.; Conti, G.; Pintus, M.; Gonzalez, C.I.A.; Massidda, M.V.; Mura, G.; et al. Active Elderly and Health-Can Moderate Exercise Improve Health and Wellbeing in Older Adults? Protocol for a Randomized Controlled Trial. Trials 2021, 22, 331, doi:10.1186/s13063-021-05278-6.
247. Meloni, M.; Angelucci, G.; Merella, P.; Siddi, R.; Deiana, C.; Orrù, G.; Salati, F. Molecular Characterization of Anisakis Larvae from Fish Caught off Sardinia. J Parasitol 2011, 97, 908–914, doi:10.1645/GE-2742.1.
248. Barberis, A.; Deiana, M.; Spissu, Y.; Azara, E.; Fadda, A.; Serra, P.A.; D'hallewin, G.; Pisano, M.; Serreli, G.; Orrù, G.; et al. Antioxidant, Antimicrobial, and Other Biological Properties of Pompia Juice. Molecules 2020, 25, 3186, doi:10.3390/molecules25143186.
249. Lachowicz, J.I.; Szczepski, K.; Scano, A.; Casu, C.; Fais, S.; Orrù, G.; Pisano, B.; Piras, M.; Jaremko, M. The Best Peptidomimetic Strategies to Undercover Antibacterial Peptides. Int J Mol Sci 2020, 21, 7349, doi:10.3390/ijms21197349.
250. Kalcev, G.; Scano, A.; Orrù, G.; Primavera, D.; Cossu, G.; Nardi, A.E.; Carta, M.G. Is a Genetic Variant Associated with Bipolar Disorder Frequent in People without Bipolar Disorder but with Characteristics of Hyperactivity and Novelty Seeking? Clin Pract Epidemiol Ment Health 2023, 19, e174501792303280, doi:10.2174/17450179-v19-e230419-2022-53.
251. Carta, M.G.; Kalcev, G.; Scano, A.; Primavera, D.; Orrù, G.; Gureye, O.; Cossu, G.; Nardi, A.E. Is Bipolar Disorder the Consequence of a Genetic Weakness or Not Having Correctly Used a Potential Adaptive Condition? Brain Sci 2022, 13, 16, doi:10.3390/brainsci13010016.
252. Carta, M.G.; Romano, F.; Orrù, G. The True Challenges of the Covid-19 Epidemics: The Need for Essential Levels of Care for All. Open Respir Med J 2020, 14, 8–9, doi:10.2174/1874306402014010008.

253. Mosaico, G.; Artuso, G.; Pinna, M.; Denotti, G.; Orrù, G.; Casu, C. Host Microbiota Balance in Teenagers with Gum Hypertrophy Concomitant with Acne Vulgaris: Role of Oral Hygiene Associated with Topical Probiotics. Microorganisms 2022, 10, 1344, doi:10.3390/microorganisms10071344.
254. Casu, C.; Mannu, C. Atypical Afta Major Healing after Photodynamic Therapy. Case Rep Dent 2017, 2017, 8517470, doi:10.1155/2017/8517470.
255. Casu, C.; Murgia, M.S.; Orrù, G.; Scano, A. Photodynamic Therapy for the Successful Management of Cyclosporine-Related Gum Hypertrophy: A Novel Therapeutic Option. J Public Health Res 2022, 11, 22799036221116177, doi:10.1177/22799036221116177.
256. Casu, C.; Orrù, G.; Scano, A. Curcumin/H2O2 Photodynamically Activated: An Antimicrobial Time-Response Assessment against an MDR Strain of Candida Albicans. Eur Rev Med Pharmacol Sci 2022, 26, 8841–8851, doi:10.26355/eurrev_202212_30556.
257. Pichiri, G.; Nieddu, M.; Manconi, S.; Casu, C.; Coni, P.; Salvadori, S.; Mezzanotte, R. Isolation and Characterization of Two Different 5S rDNA in Anguilla Anguilla and in Anguilla Rostrata: Possible Markers of Evolutionary Divergence. Molecular Ecology Notes 2006, 6, 638–641, doi:10.1111/j.1471-8286.2006.01394.x.
258. Nosotti, M.G. Use of Chlorhexidine, Side Effects and Antibiotic Resistance.Pdf. Biointerface Research in Applied Chemistry 2018.
259. Highfield, J. Diagnosis and Classification of Periodontal Disease. Aust Dent J 2009, 54 Suppl 1, S11-26, doi:10.1111/j.1834-7819.2009.01140.x.
260. Sarmiento-Rubiano, L.A.; Zúñiga, M.; Pérez-Martínez, G.; Yebra, M.J. Dietary Supplementation with Sorbitol Results in Selective Enrichment of Lactobacilli in Rat Intestine. Res Microbiol 2007, 158, 694–701, doi:10.1016/j.resmic.2007.07.007.
261. Borges, I.; Faveri, M.; Figueiredo, L.C.; Duarte, P.M.; Retamal-Valdes, B.; Montenegro, S.C.L.; Feres, M. Different Antibiotic Protocols in the Treatment of Severe Chronic Periodontitis: A 1-Year Randomized Trial. J Clin Periodontol 2017, 44, 822–832, doi:10.1111/jcpe.12721.
262. Griffen, A.L.; Beall, C.J.; Campbell, J.H.; Firestone, N.D.; Kumar, P.S.; Yang, Z.K.; Podar, M.; Leys, E.J. Distinct and Complex Bacterial Profiles in Human Periodontitis and Health Revealed by 16S Pyrosequencing. ISME J 2012, 6, 1176–1185, doi:10.1038/ismej.2011.191.
263. Lu, H.; He, L.; Jin, D.; Zhu, Y.; Meng, H. Effect of Adjunctive Systemic Antibiotics on Microbial Populations Compared with Scaling and Root Planing Alone for the Treatment of Periodontitis: A Pilot Randomized Clinical Trial. J Periodontol 2022, 93, 570–583, doi:10.1002/JPER.20-0764.
264. Takamatsu, N.; Yano, K.; He, T.; Umeda, M.; Ishikawa, I. Effect of Initial Periodontal Therapy on the Frequency of Detecting Bacteroides Forsythus, Porphyromonas Gingivalis, and Actinobacillus Actinomycetemcomitans. Journal of Periodontology 1999, 70, 574–580, doi:10.1902/jop.1999.70.6.574.
265. Birang, R.; Shahaboui, M.; Kiani, S.; Shadmehr, E.; Naghsh, N. Effect of Nonsurgical Periodontal Treatment Combined With Diode Laser or Photodynamic Therapy on Chronic Periodontitis: A Randomized Controlled Split-Mouth Clinical Trial. J Lasers Med Sci 2015, 6, 112–119, doi:10.15171/jlms.2015.04.
266. Arnett, M.C.; Chanthavisouk, P.; Costalonga, M.; Blue, C.M.; Evans, M.D.; Paulson, D.R. Effect of Scaling and Root Planing with and without Minocycline HCl Microspheres on Periodontal Pathogens and Clinical Outcomes: A Randomized Clinical Trial. Journal of Periodontology 2023, 94, 1133–1145, doi:10.1002/JPER.23-0002.
267. Sgolastra, F.; Severino, M.; Petrucci, A.; Gatto, R.; Monaco, A. Effectiveness of Metronidazole as an Adjunct to Scaling and Root Planing in the Treatment of Chronic Periodontitis: A Systematic Review and Meta-Analysis. J Periodontal Res 2014, 49, 10–19, doi:10.1111/jre.12089.
268. Sgolastra, F.; Petrucci, A.; Gatto, R.; Monaco, A. Effectiveness of Systemic Amoxicillin/Metronidazole as an Adjunctive Therapy to Full-Mouth Scaling and Root Planing in the Treatment of Aggressive Periodontitis: A Systematic Review and Meta-Analysis. Journal of Periodontology 2012, 83, 731–743, doi:10.1902/jop.2011.110432.
269. Patyna, M.; Ehlers, V.; Bahlmann, B.; Kasaj, A. Effects of Adjunctive Light-Activated Disinfection and Probiotics on Clinical and Microbiological Parameters in Periodontal Treatment: A Randomized, Controlled, Clinical Pilot Study. Clin Oral Investig 2021, 25, 3967–3975, doi:10.1007/s00784-020-03727-1.
270. Parker, N.P.; Bailey, S.S.; Walner, D.L. Effects of Basic Fibroblast Growth Factor-2 and Hyaluronic Acid on Tracheal Wound Healing. Laryngoscope 2009, 119, 734–739, doi:10.1002/lary.20131.
271. López, N.J.; Socransky, S.S.; Da Silva, I.; Japlit, M.R.; Haffajee, A.D. Effects of Metronidazole plus Amoxicillin as the Only Therapy on the Microbiological and Clinical Parameters of Untreated Chronic Periodontitis. Journal of Clinical Periodontology 2006, 33, 648–660, doi:10.1111/j.1600-051X.2006.00957.x.
272. Tetè, G.; D'Amicantonio, T.; Polizzi, E. Efficacy Ozone Therapy in Reducing Periodontal Disease. Materials (Basel) 2023, 16, 2375, doi:10.3390/ma16062375.
273. Van Dyke, T.E.; Offenbacher, S.; Braswell, L.; Lessem, J. Enhancing the Value of Scaling and Root-Planing: Arestin Clinical Trial Results. J Int Acad Periodontol 2002, 4, 72–76.
274. Kaldahl, W.B.; Kalkwarf, K.L.; Patil, K.D.; Dyer, J.K.; Bates, R.E. Evaluation of Four Modalities of Periodontal Therapy. Mean Probing Depth, Probing Attachment Level and Recession Changes. J Periodontol 1988, 59, 783–793, doi:10.1902/jop.1988.59.12.783.
275. Scribante, A.; Pascadopoli, M.; Bergomi, P.; Licari, A.; Marseglia, G.L.; Bizzi, F.M.; Butera, A. Evaluation of Two Different Remineralising Toothpastes in Children with Drug-Controlled Asthma and Allergic Rhinitis: A Randomised Clinical Trial. Eur J Paediatr Dent 2024, 25, 137–142, doi:10.23804/ejpd.2024.2130.
276. Quirynen, M.; Bollen, C.M.L.; Vandekerckhove, B.N.A.; Dekeyser, C.; Papaioannou, W.; Eyssen, H. Full- vs. Partial-Mouth Disinfection in the Treatment of Periodontal Infections: Short-Term Clinical and Microbiological Observations. J Dent Res 1995, 74, 1459–1467, doi:10.1177/00220345950740080501.
277. Eberhard, J.; Jepsen, S.; Jervøe-Storm, P.-M.; Needleman, I.; Worthington, H.V. Full-Mouth Treatment Modalities (within 24 Hours) for Chronic Periodontitis in Adults. Cochrane Database Syst Rev 2015, 2015, CD004622, doi:10.1002/14651858.CD004622.pub3.
278. Queiroz, L.; Casarin, R.; Dabdoub, S.; Tatakis, D.; Sallum, E.; Kumar, P. Furcation Therapy With Enamel Matrix Derivative: Effects on the Subgingival Microbiome. Journal of Periodontology 2017, 88, 1–11, doi:10.1902/jop.2017.160542.
279. Giannobile, W.V.; Riviere, G.R.; Gorski, J.P.; Tira, D.E.; Cobb, C.M. Glycosaminoglycans and Periodontal Disease: Analysis of GCF by Safranin O. J Periodontol 1993, 64, 186–190, doi:10.1902/jop.1993.64.3.186.
280. Inchingolo, F.; Tatullo, M.; Pacifici, A.; Gargari, M.; Inchingolo, A.D.; Inchingolo, A.M.; Dipalma, G.; Marrelli, M.; Abenavoli, F.M.; Pacifici, L. Use of Dermal-Fat Grafts in the Post-Oncological Reconstructive Surgery of Atrophies in the Zygomatic Region: Clinical Evaluations in the Patients Undergone to Previous Radiation Therapy. Head Face Med 2012, 8, 33, doi:10.1186/1746-160X-8-33.
281. Inchingolo, F.; Ballini, A.; Mura, S.; Farronato, D.; Cirulli, N.; Pettini, F.; Gheno, E.; Vermesan, D.; Pederzoli, P.; Resta, G.; et al. Use of Platelet Rich Fibrin and Bio-OSS/SINT-Oss for Implant-Prosthetic Rehabilitation in Maxillary Atrophy with Sinus Pathology: A 48-Month Follow-Up. Eur J Inflamm 2015, 13, 58–65, doi:10.1177/1721727X15578346.
282. Charitos, I.A.; Del Prete, R.; Inchingolo, F.; Mosca, A.; Carretta, D.; Ballini, A.; Santacroce, L. What We Have Learned for the Future about COVID-19 and Healthcare Management of It? Acta Biomed 2020, 91, e2020126, doi:10.23750/abm.v91i4.10253.
283. Marinelli, G.; Inchingolo, A.D.; Inchingolo, A.M.; Malcangi,

G.; Limongelli, L.; Montenegro, V.; Coloccia, G.; Laudadio, C.; Patano, A.; Inchingolo, F.; et al. White Spot Lesions in Orthodontics: Prevention and Treatment. A Descriptive Review. J Biol Regul Homeost Agents 2021, 35, 227–240, doi:10.23812/21-2supp1-24.
284. Esposito, M.; Grusovin, M.G.; Chew, Y.S.; Coulthard, P.; Worthington, H.V. WITHDRAWN: Interventions for Replacing Missing Teeth: 1- versus 2-Stage Implant Placement. Cochrane Database Syst Rev 2018, 5, CD006698, doi:10.1002/14651858.CD006698.pub3.
285. Velsko, I.M.; Harrison, P.; Chalmers, N.; Barb, J.; Huang, H.; Aukhil, I.; Shaddox, L. Grade C Molar-Incisor Pattern Periodontitis Subgingival Microbial Profile before and after Treatment. J Oral Microbiol 12, 1814674, doi:10.1080/20002297.2020.1814674.
286. Puzzolante, C.; Cuomo, G.; Meschiari, M.; Bedini, A.; Bonazza, A.; Venturelli, C.; Sarti, M.; Mussini, C. Granulicatella Adiacens and Abiotrophia Defectiva Native Vertebral Osteomyelitis: Three Cases and Literature Review of Clinical Characteristics and Treatment Approach. Case Rep Infect Dis 2019, 2019, 5038563, doi:10.1155/2019/5038563.
287. Söderling, E.M.; Ekman, T.C.; Taipale, T.J. Growth Inhibition of Streptococcus Mutans with Low Xylitol Concentrations. Curr Microbiol 2008, 56, 382–385, doi:10.1007/s00284-007-9076-6.
288. Nicholson, J.K.; Holmes, E.; Kinross, J.; Burcelin, R.; Gibson, G.; Jia, W.; Pettersson, S. Host-Gut Microbiota Metabolic Interactions. Science 2012, 336, 1262–1267, doi:10.1126/science.1223813.
289. Eick, S.; Renatus, A.; Heinicke, M.; Pfister, W.; Stratul, S.-I.; Jentsch, H. Hyaluronic Acid as an Adjunct after Scaling and Root Planing: A Prospective Randomized Clinical Trial. J Periodontol 2013, 84, 941–949, doi:10.1902/jop.2012.120269.
290. Huang, N.; Gibson, F.C. Immuno-Pathogenesis of Periodontal Disease: Current and Emerging Paradigms. Curr Oral Health Rep 2014, 1, 124–132, doi:10.1007/s40496-014-0017-8.
291. Damgaard, C.; Reinholdt, J.; Enevold, C.; Fiehn, N.-E.; Nielsen, C.H.; Holmstrup, P. Immunoglobulin G Antibodies against Porphyromonas Gingivalis or Aggregatibacter Actinomycetemcomitans in Cardiovascular Disease and Periodontitis. J Oral Microbiol 2017, 9, 1374154, doi:10.1080/20002297.2017.1374154.
292. Mendes, S. de N.C.; Esteves, C.M.; Mendes, J.A.V.; Feres, M.; Figueiredo, N.; de Miranda, T.S.; Shibli, J.A.; Figueiredo, L.C. Systemic Antibiotics and Chlorhexidine Associated with Periodontal Therapy: Microbiological Effect on Intraoral Surfaces and Saliva. Antibiotics 2023, 12, 847, doi:10.3390/antibiotics12050847.
293. DiGiulio, D.B.; Callahan, B.J.; McMurdie, P.J.; Costello, E.K.; Lyell, D.J.; Robaczewska, A.; Sun, C.L.; Goltsman, D.S.A.; Wong, R.J.; Shaw, G.; et al. Temporal and Spatial Variation of the Human Microbiota during Pregnancy. Proc Natl Acad Sci U S A 2015, 112, 11060–11065, doi:10.1073/pnas.1502875112.
294. Loesche, W.J. The Antimicrobial Treatment of Periodontal Disease: Changing the Treatment Paradigm. Crit Rev Oral Biol Med 1999, 10, 245–275, doi:10.1177/10454411990100030101.
295. Kleber, M. (The cleansing phase of periodontal therapy). Stomatol DDR 1979, 29, 229–244.
296. Levy, R.M.; Giannobile, W.V.; Feres, M.; Haffajee, A.D.; Smith, C.; Socransky, S.S. The Effect of Apically Repositioned Flap Surgery on Clinical Parameters and the Composition of the Subgingival Microbiota: 12-Month Data. Int J Periodontics Restorative Dent 2002, 22, 209–219.
297. Rashidi Maybodi, F.; Haerian Ardakani, A.; Fattahi Bafghi, A.; Haerian Ardakani, A.; Zafarbakhsh, A. The Effect of Nonsurgical Periodontal Therapy on Trichomonas Tenax and Entamoeba Gingivalis in Patients with Chronic Periodontitis. J Dent (Shiraz) 2016, 17, 171–176.
298. Westfelt, E.; Bragd, L.; Socransky, S.S.; Haffajee, A.D.; Nyman, S.; Lindhe, J. Improved Periodontal Conditions Following Therapy. J Clin Periodontol 1985, 12, 283–293, doi:10.1111/j.1600-051x.1985.tb02294.x.
299. Santacroce, L.; Sardaro, N.; Topi, S.; Pettini, F.; Bottalico, L.; Cantore, S.; Cascella, G.; Del Prete, R.; Dipalma, G.; Inchingolo, F. The Pivotal Role of Oral Microbiota in Health and Disease. J Biol Regul Homeost Agents 2020, 34, 733–737, doi:10.23812/20-127-L-45.
300. Inchingolo, F.; Inchingolo, A.D.; Latini, G.; Trilli, I.; Ferrante, L.; Nardelli, P.; Malcangi, G.; Inchingolo, A.M.; Mancini, A.; Palermo, A.; et al. The Role of Curcumin in Oral Health and Diseases: A Systematic Review. Antioxidants (Basel) 2024, 13, 660, doi:10.3390/antiox13060660.
301. Laforgia, A.; Inchingolo, A.D.; Piras, F.; Colonna, V.; Giorgio, R.V.; Carone, C.; Rapone, B.; Malcangi, G.; Inchingolo, A.M.; Inchingolo, F.; et al. Therapeutic Strategies and Genetic Implications for Periodontal Disease Management: A Systematic Review. Int J Mol Sci 2024, 25, 7217, doi:10.3390/ijms25137217.
302. Contaldo, M.; De Rosa, A.; Nucci, L.; Ballini, A.; Malacrinò, D.; La Noce, M.; Inchingolo, F.; Xhajanka, E.; Ferati, K.; Bexheti-Ferati, A.; et al. Titanium Functionalized with Polylysine Homopolymers: In Vitro Enhancement of Cells Growth. Materials (Basel) 2021, 14, 3735, doi:10.3390/ma14133735.
303. Inchingolo, A.M.; Malcangi, G.; Costa, S.; Fatone, M.C.; Avantario, P.; Campanelli, M.; Piras, F.; Patano, A.; Ferrara, I.; Di Pede, C.; et al. Tooth Complications after Orthodontic Miniscrews Insertion. Int J Environ Res Public Health 2023, 20, 1562, doi:10.3390/ijerph20021562.
304. Inchingolo, A.D.; Patano, A.; Coloccia, G.; Ceci, S.; Inchingolo, A.M.; Marinelli, G.; Malcangi, G.; Di Pede, C.; Garibaldi, M.; Ciocia, A.M.; et al. Treatment of Class III Malocclusion and Anterior Crossbite with Aligners: A Case Report. Medicina (Kaunas) 2022, 58, 603, doi:10.3390/medicina58050603.
305. Inchingolo, F.; Tatullo, M.; Abenavoli, F.M.; Marrelli, M.; Inchingolo, A.D.; Corelli, R.; Inchingolo, A.M.; Dipalma, G. Upper Eyelid Reconstruction: A Short Report of an Eyelid Defect Following a Thermal Burn. Head Face Med 2009, 5, 26, doi:10.1186/1746-160X-5-26.
306. Aemaimanan, P.; Amimanan, P.; Taweechaisupapong, S. Quantification of Key Periodontal Pathogens in Insulin-Dependent Type 2 Diabetic and Non-Diabetic Patients with Generalized Chronic Periodontitis. Anaerobe 2013, 22, 64–68, doi:10.1016/j.anaerobe.2013.06.010.
307. Westfelt, E.; Rylander, H.; Blohmé, G.; Jonasson, P.; Lindhe, J. The Effect of Periodontal Therapy in Diabetics. Results after 5 Years. J Clin Periodontol 1996, 23, 92–100, doi:10.1111/j.1600-051x.1996.tb00540.x.
308. Magnusson, I.; Lindhe, J.; Yoneyama, T.; Liljenberg, B. Recolonization of a Subgingival Microbiota Following Scaling in Deep Pockets. J Clin Periodontol 1984, 11, 193–207, doi:10.1111/j.1600-051x.1984.tb01323.x.
309. Marx, R.E.; Ehler, W.J.; Tayapongsak, P.; Pierce, L.W. Relationship of Oxygen Dose to Angiogenesis Induction in Irradiated Tissue. The American Journal of Surgery 1990, 160, 519–524, doi:10.1016/S0002-9610(05)81019-0.
310. Lindhe, J.; Socransky, S.S.; Nyman, S.; Haffajee, A.; Westfelt, E. "Critical Probing Depths" in Periodontal Therapy. J Clin Periodontol 1982, 9, 323–336, doi:10.1111/j.1600-051x.1982.tb02099.x.
311. Meuric, V.; Le Gall-David, S.; Boyer, E.; Acuña-Amador, L.; Martin, B.; Fong, S.B.; Barloy-Hubler, F.; Bonnaure-Mallet, M. Signature of Microbial Dysbiosis in Periodontitis. Appl Environ Microbiol 2017, 83, e00462-17, doi:10.1128/AEM.00462-17.
312. Chen, C.; Hemme, C.; Beleno, J.; Shi, Z.J.; Ning, D.; Qin, Y.; Tu, Q.; Jorgensen, M.; He, Z.; Wu, L.; et al. Oral Microbiota of Periodontal Health and Disease and Their Changes after Nonsurgical Periodontal Therapy. ISME J 2018, 12, 1210–1224, doi:10.1038/s41396-017-0037-1.
313. Cugini, M.A.; Haffajee, A.D.; Smith, C.; Kent, R.L.; Socransky, S.S. The Effect of Scaling and Root Planing on the Clinical and Microbiological Parameters of Periodontal Diseases: 12-Month Results. J Clin Periodontol 2000, 27, 30–36, doi:10.1034/j.1600-051x.2000.027001030.x.
314. Haffajee, A.D.; Cugini, M.A.; Dibart, S.; Smith, C.; Kent Jr., R.L.; Socransky, S.S. The Effect of SRP on the Clinical

and Microbiological Parameters of Periodontal Diseases. Journal of Clinical Periodontology 1997, 24, 324–334, doi:10.1111/j.1600-051X.1997.tb00765.x.
315. Westfelt, E.; Rylander, H.; Dahlén, G.; Lindhe, J. The Effect of Supragingival Plaque Control on the Progression of Advanced Periodontal Disease. J Clin Periodontol 1998, 25, 536–541, doi:10.1111/j.1600-051x.1998.tb02484.x.
316. Mestnik, M.J.; Feres, M.; Figueiredo, L.C.; Soares, G.; Teles, R.P.; Fermiano, D.; Duarte, P.M.; Faveri, M. The Effects of Adjunctive Metronidazole plus Amoxicillin in the Treatment of Generalized Aggressive Periodontitis: A 1-Year Double-Blinded, Placebo-Controlled, Randomized Clinical Trial. Journal of Clinical Periodontology 2012, 39, 955–961, doi:10.1111/j.1600-051X.2012.01932.x.
317. Jiang, W.-X.; Hu, Y.-J.; Gao, L.; He, Z.-Y.; Zhu, C.-L.; Ma, R.; Huang, Z.-W. The Impact of Various Time Intervals on the Supragingival Plaque Dynamic Core Microbiome. PLoS One 2015, 10, e0124631, doi:10.1371/journal.pone.0124631.
318. Sasaki, T.; Watanabe, C. Stimulation of Osteoinduction in Bone Wound Healing by High-Molecular Hyaluronic Acid. Bone 1995, 16, 9–15, doi:10.1016/s8756-3282(94)00001-8.
319. Ramich, T.; Schacher, B.; Scharf, S.; Röllke, L.; Arndt, R.; Eickholz, P.; Nickles, K. Subgingival Plaque Sampling after Combined Mechanical and Antibiotic Nonsurgical Periodontal Therapy. Clin Oral Investig 2015, 19, 27–34, doi:10.1007/s00784-014-1208-3.
320. Heitz-Mayfield, L.J.A.; Lang, N.P. Surgical and Nonsurgical Periodontal Therapy. Learned and Unlearned Concepts. Periodontol 2000 2013, 62, 218–231, doi:10.1111/prd.12008.
321. Guida, L.; Boccalatta, A.; Guidetti, G.; Minervini, G. (Surgical and nonsurgical therapy: possibilities and limits in treatment of periodontal disease). Arch Stomatol (Napoli) 1990, 31, 21–32.
322. Robertson, P.B. Surgical Periodontal Therapy: Indications, Selection and Limitations. Int Dent J 1983, 33, 137–146.
323. Graziani, F.; Karapetsa, D.; Mardas, N.; Leow, N.; Donos, N. Surgical Treatment of the Residual Periodontal Pocket. Periodontol 2000 2018, 76, 150–163, doi:10.1111/prd.12156.
324. Smiley, C.J.; Tracy, S.L.; Abt, E.; Michalowicz, B.S.; John, M.T.; Gunsolley, J.; Cobb, C.M.; Rossmann, J.; Harrel, S.K.; Forrest, J.L.; et al. Systematic Review and Meta-Analysis on the Nonsurgical Treatment of Chronic Periodontitis by Means of Scaling and Root Planing with or without Adjuncts. J Am Dent Assoc 2015, 146, 508-524.e5, doi:10.1016/j.adaj.2015.01.028.