

Publikationsliste

Dissertation

„Zusammenhang zwischen der Ernährung und der mikrobiellen Zusammensetzung des oralen Biofilms – eine Analyse der individuellen Variabilität und des Zusammenspiels unterschiedlicher Bakterien“

Originalarbeiten

- 1: Vach K, Ganss C, Schlueter N, Vach W. Identifying clusters of raters with a common notion of diagnosing erosive tooth wear: a step towards improving the accuracy of diagnostic procedures. *Eur J Med Res.* 2025 Jan 9;30(1):15. doi:10.1186/s40001-024-02260-1. PMID: 39780271; PMCID: PMC 11716257.
- 2: Hickl J, Argyropoulou A, Al-Ahmad A, Hellwig E, Skaltsounis AL, Wittmer A, Vach K, Karygianni L. Unleashing nature's defense: potent antimicrobial power of plant extracts against oral pathogens and *Streptococcus mutans* biofilms. *Front Oral Health.* 2024 Dec 12;5:1469174. doi: 10.3389/froh.2024.1469174. PMID:39726767; PMCID: PMC11669686.
- 3: Hattori M, Stadler S, Sumita YI, Spies BC, Vach K, Kohal RJ, Wakabayashi N. Digitization of Dentate and Edentulous Maxillectomy and Mandibulectomy Defects with Three Different Intraoral Scanners: A Comparative In Vitro Study. *J Clin Med.* 2024 Nov 13;13(22):6810. doi: 10.3390/jcm13226810. PMID: 39597954; PMCID: PMC 11595131.
- 4: Al-Ahmad A, Haendel M, Altenburger MJ, Karygianni L, Hellwig E, Wrbas KT, Vach K, Tennert C. Correction: Al-Ahmad et al. Biodentine Inhibits the Initial Microbial Adhesion of Oral Microbiota In Vivo, *Antibiotics* (Basel). 2024 Nov 11;13(11):1069. doi:10.3390/antibiotics13111069. Erratum for: *Antibiotics* (Basel). 2022 Dec 20;12(1):4. doi: 10.3390/antibiotics12010004. PMID: 39596802; PMCID: PMC 11591028.
- 5: Iglhaut G, Fretwurst T, Schulte L, Sculean A, Vach K, Nelson K, Landwehr VC. Digital workflow to assess gingival recession coverage independently of the cemento-enamel Junction: a prospective clinical study using the modified coronally advanced tunnel technique with porcine dermal matrix. *Clin Oral Investig.* 2024 Oct 27;28(11):613. doi: 10.1007/s00784-024-05936-4. PMID: 39463191; PMCID: PMC11513702.
- 6: Rieger S, Walker H, Mittelhamm F, Frisch E, Peikert SA, Kruse AB, Liedtke NB, Ratka-Krueger P, Vach K, Woelber JP. Tooth loss during long-term periodontal therapy in specialized practices - a retrospective cohort study from a periodontal practice-based research network (Perio-PBRN). *Clin Oral Investig.* 2024 Oct 23;28(11):607. doi:10.1007/s00784-024-05993-9. PMID: 39438346; PMCID: PMC 11496331.
- 7: Peikert SA, Metzger S, Kruse AB, Mittelhamm F, Frisch E, Vach K, Ratka-Krüger P, Woelber JP. The seasonal occurrence of periodontitis - a retrospective cohort study from a practice-based research network. *Clin Oral Investig.* 2024 Oct 14;28(11):596. doi: 10.1007/s00784-024-05972-0. PMID: 39400750; PMCID: PMC 11473543.
- 8: Peikert SA, Liedtke NB, Vach K, Streletz E, Rieger S, Palm J, Mittelhamm F, Kirchner S, Hakes P, Gantert L, Cansado De Noriega C, Kruse AB, Ratka-Krüger P, Woelber JP. Nutrition and Periodontitis: A Cross-Sectional Study from a Practice-Based Research Network. *Nutrients.* 2024 Sep 14;16(18):3102. doi:10.3390/nu16183102. PMID: 39339702; PMCID: PMC 11435193.
- 9: Rabel K, Vach K, Albadry M, Spies BC, Kohal RJ. Survival, technical and biological outcome of fixed tooth- and implant-supported restorations: A retrospective analysis of a patient cohort treated in an undergraduate dental education program. *J Dent.* 2024 Nov;150:105358. doi:10.1016/j.jdent.2024.105358. Epub 2024 Sep 24. PMID: 39326725.
- 10: Rabel K, Lüchtenborg J, Linke M, Burkhardt F, Roesner AJ, Nold J, Vach K, Witkowski S, Hillebrecht AL, Spies BC. 3D printed versus milled stabilization splints for the management of bruxism and temporomandibular disorders: study protocol for a randomized prospective single-blinded crossover trial. *Trials.* 2024 Sep 5;25(1):589. doi: 10.1186/s13063-024-08437-7. PMID: 39238023; PMCID: PMC 11376033.
- 11: Pappe CL, Peters B, Pivovarova-Ramich O, Schremmer R, Adam A, Vach K, Dommisch H, Woelber JP. Effects of a 4-week free-sugar avoidance during periodontal therapy: An explorative randomized controlled clinical trial. *J Periodontol.* 2024 Aug 26. doi: 10.1002/JPER.24-0208. Epub ahead of print. PMID: 39185702.

- 12: Luka B, Fiedler A, Ganss C, Soetedjo V, Vach K, Schlueter N. PREVENTING CARIES AFTER RADIOTHERAPY TO THE HEAD AND NECK REGION - A SYSTEMATIC REVIEW. *J Evid Based Dent Pract.* 2024 Sep;24(3):101989. doi:10.1016/j.jebdp.2024.101989. Epub 2024 Mar 16. PMID: 39174170.
- 13: Thiemann L, Katzschner M, Hanna G, Kruse AB, Vach K, Ratka-Krüger P, Woelber JP. Oral-hygiene-related self-efficacy in periodontal therapy: A 4-year longitudinal study. *J Clin Periodontol.* 2024 Oct;51(10):1323-1332. doi:10.1111/jcpe.14043. Epub 2024 Jul 24. PMID: 39048326.
- 14: Troeltzsch D, Neckel N, Neyer J, Preissner S, Raguse JD, Motzkus Y, Heiland M, Vach K, Nahles S. Clinical and social success in epithetic ear rehabilitation - Retrospectively evaluating the long-term survival of auricular implants. *J Craniomaxillofac Surg.* 2024 Aug;52(8):884-889. doi: 10.1016/j.jcms.2024.02.003. Epub 2024 Feb 2. PMID: 39019745.
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- 16: Kohal RJ, Riesterer E, Vach K, Patzelt SBM, Iveković A, Einfalt L, Kocjan A, Hillebrecht AL. Fracture Resistance of a Bone-Level Two-Piece Zirconia Ora Implant System-The Influence of Artificial Loading and Hydrothermal Aging. *J Funct Biomater.* 2024 May 7;15(5):122. doi: 10.3390/jfb15050122. PMID: 38786633;PMCID: PMC11122605.
- 17: Woelber JP, Bartha V, Baumgartner S, Tennert C, Schlagenhauf U, Ratka-Krüger P, Vach K. Is Diet a Determining Factor in the Induction of Gingival Inflammation by Dental Plaque? A Secondary Analysis of Clinical Studies. *Nutrients.* 2024 Mar 22;16(7):923. doi: 10.3390/nu16070923. PMID: 38612955; PMCID: PMC11013428.
- 18: Burkhardt F, Schirmeister CG, Wesemann C, Baur L, Vach K, Nutini M, Licht EH, Metzger MC, Mülhaupt R, Spies BC. Dimensional accuracy and simulation-based optimization of polyolefins and biocopolyesters for extrusion-based additive manufacturing and steam sterilization. *J Mech Behav Biomed Mater.* 2024 May;153:106507. doi: 10.1016/j.jmbbm.2024.106507. Epub 2024 Mar 13. PMID: 38503082.
- 19: Neckel N, Pohl J, Preissner S, Wagendorf O, Sachse C, Vach K, Heiland M, Nahles S. Cross-sectional analysis comparing prefabricated titanium to individualized hybrid zirconia abutments for cemented zirconia based fixed dental prostheses: a critical concept assessment. *Int J Implant Dent.* 2024 Mar 18;10(1):13. doi: 10.1186/s40729-024-00529-y. PMID: 38498247; PMCID: PMC10948712.
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- 21: Burkhardt F, Handermann L, Rothlauf S, Gintaute A, Vach K, Spies BC, Lüchtenborg J. Accuracy of additively manufactured and steam sterilized surgical guides by means of continuous liquid interface production, stereolithography, digital light processing, and fused filament fabrication. *J Mech Behav Biomed Mater.* 2024 Apr;152:106418. doi: 10.1016/j.jmbbm.2024.106418. Epub 2024 Jan 24. PMID: 38295512.
- 22: Eichler E, Vach K, Schlueter N, Jacker-Guhr S, Luehrs AK. Dentin adhesion of bulk-fill composites and universal adhesives in class I-cavities with high C-factor. *J Dent.* 2024 Mar;142:104852. doi: 10.1016/j.jdent.2024.104852. Epub 2024 Jan 18. PMID: 38244909.
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- 26: Reidelbach C, Swoboda M, Spraul M, Vach K, Patzelt SBM, Hellwig E, Polydorou O. Effects of erosion and abrasion on resin-matrix ceramic CAD/CAM materials: An in vitro investigation. *Eur J Oral Sci.* 2024 Apr;132(2):e12967. doi:10.1111/eos.12967. Epub 2023 Dec 17. PMID: 38105518.
- 27: Klein M, Al-Ahmad A, Follo M, Hellwig E, Vach K, Chrubasik-Hausmann S. In Vitro Eradication of Planktonic, Saliva and Biofilm Bacteria Using Lingonberry Extract as a Photosensitizer for Visible Light Plus Water-Filtered Infrared-A Irradiation. *Nutrients.* 2023 Dec 1;15(23):4988. doi: 10.3390/nu15234988. PMID: 38068846; PMCID: PMC10708215.
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- 29: Woelber JP, Vach K. Healthier Smile: The Role of Diet and Nutrition in the Prevention and Therapy of Caries, Gingivitis, and Periodontitis. *Nutrients.* 2023 Oct 10;15(20):4319. doi: 10.3390/nu15204319. PMID: 37892396; PMCID: PMC10609313.
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- 32: Luka B, Duerrschnabel A, Neumaier S, Schlueter N, Vach K. Interaction between Hexametaphosphate, Other Active Ingredients of Toothpastes, and Erosion- Abrasion in Enamel in vitro. *Caries Res.* 2023;57(3):265-275. doi: 10.1159/000534057. Epub 2023 Sep 19. PMID: 37725923; PMCID: PMC10641800.
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- 37: Wüster J, Sachse C, Sachse C, Rendenbach C, Wagendorf O, Vach K, Preissner S, Heiland M, Nelson K, Nahles S. Vestibuloplasty and its impact on the long-term survival and success of dental implants in irradiated and non-irradiated patients after head and neck tumor therapy: a retrospective study. *Clin Oral Investig.* 2023 Aug;27(8):4695-4703. doi: 10.1007/s00784-023-05096-x. Epub 2023 Jun 17. PMID: 37330421; PMCID: PMC10415447.
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- 39: Woelber JP, Reichenbacher K, Groß T, Vach K, Ratka-Krüger P, Bartha V. Dietary and Nutraceutical Interventions as an Adjunct to Non-Surgical Periodontal Therapy-A Systematic Review. *Nutrients.* 2023 Mar 22;15(6):1538. doi:10.3390/nu15061538. PMID: 36986267; PMCID: PMC10052653.

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- 45: Al-Ahmad A, Haendel M, Altenburger MJ, Karygianni L, Hellwig E, Wrbas KT, Vach K, Tennert C. Biodentine Inhibits the Initial Microbial Adhesion of Oral Microbiota In Vivo. *Antibiotics (Basel)*. 2022 Dec 20;12(1):4. doi:10.3390/antibiotics12010004. Erratum in: *Antibiotics (Basel)*. 2024 Nov 11;13(11):1069. doi:10.3390/antibiotics13111069. PMID: 36671205; PMCID: PMC9855060.
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- 47: Hattori M, Patzelt SBM, Stadler S, Kohal RJ, Vach K, Elbashti ME, Sumita YI. Computerized optical scanning of ears: An in vitro evaluation with an intraoral scanner. *J Prosthet Dent*. 2024 Nov;132(5):1089.e1-1089.e5. doi:10.1016/j.prosdent.2022.11.010. Epub 2022 Dec 29. PMID: 36586814.
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1. Anderson, Annette C.; Andisha, Huria; Hellwig, Elmar et al.: Antibiotic resistance genes and antibiotic susceptibility of oral enterococcus faecalis isolates compared to isolates from hospitalized patients and food. In: Drago, Lorenzo (Hrsg.): *A Modern Approach to Biofilm-Related Orthopaedic Implant Infections : Advances in Microbiology, Infectious Diseases and Public Health Volume 5.* Springer International Publishing - Springer, Cham, 47-62.2017. https://doi.org/10.1007/5584_2017_53

Veröffentlichungen zu Konferenzen und Ausstellungen

1. Balmer, Marc; Spies, Benedikt Christopher; Vach, Kirstin et al. (2016): Three-year analysis of zirconia implants used for single tooth replacement and three-unit fixed dental prostheses. A prospective clinical trial. 25th Annual Scientific Meeting of the European Association for Osseointegration, Paris, Frankreich,.
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