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Professor Dr. med. dent. Jörg Eberhard, MME

Chair of Lifespan Oral Health

Education

1987 to 1992	Academic Study of Dentistry at the Heinrich-Heine-Universität, Düsseldorf
1995	Graduation Dr. med. dent. „Imaging of the movement of the condylus“ at the Heinrich-Heine University, Düsseldorf
1995 to 1998	Postgraduate Study in Periodontology at the University Hospital Kiel, Germany
2003	Habilitation and Venia legendi at the University of Kiel: „The synthesis of arachidonic acid metabolites in oral epithelial cells for the initiation and regulation of oral inflammatory processes.“ Topic of the introducing lecture: „Modern methods for caries removal“
2005 to 2007	Postgraduate Study „Master Medical Education“ at the University Heidelberg, Germany

Academic Positions

1992 to 1994	Lecturer, Clinic of Periodontology and Operative Dentistry, Private University Witten-Herdecke, Germany
1995	Sabbatical Term Department of Operative Dentistry, University Heidelberg
1995 to 1999	Lecturer, Clinic of Periodontology and Operative Dentistry, University Kiel
1999 to 2000	Postdoctoral Research Fellow at the Department of Chemistry and Biochemistry, University of California, USA
2000 to 2003	Assistant Professor, Clinic of Periodontology and Operative Dentistry, University Kiel
2003 to 2008	Associate Professor, Clinic of Periodontology and Operative Dentistry, University Kiel
2003 to 2008	Head of the Research Laboratories, Clinic of Periodontology and Operative Dentistry, University Kiel
2004 to 2008	Head of Teaching, Clinic of Periodontology and Operative Dentistry, University Kiel

2008 to 2009	Associate Professor, Clinic of Periodontology, Preventive Dentistry and Operative Dentistry, Hannover Medical School, Germany
2009 to 2010	Professor, Clinic of Preventive Dentistry and Periodontology, University Hospital Göttingen
since 2010	Head of the Research „Oral Infections“, Hannover Medical School
2012 to 2016	Full Professor Periimplant and Oral Infections, Hannover Medical School
since 2016	Chair of Lifespan Oral Health, The University of Sydney

Publications (last 5 years)

1. **Eberhard J**, Stumpp N, Winkel A, Schrimpf C, Bisdas T, Orzak P, Teebken O, Haverich A, Stiesch M. Streptococcus mitis and Gemella haemolysans were simultaneously found in atherosclerotic and oral plaques of elderly without periodontitis—a pilot study. Clin Oral Invest, April 2016
2. Jervøe-Storm PM, Jepsen S, Worthington HV, Needleman I, **Eberhard J**. Adjunctive antimicrobial photodynamic therapy for treating periodontal and peri-implant diseases (Protocol). Cochrane Database of Systematic Reviews 2015, Issue 6. Art. No.: CD011778.
3. Aarabi G, **Eberhard J**, Reismann D, Heydecke G, Seedorf U. (2015) Interaction between Periodontal Disease and Atherosclerotic Vascular Disease – Fact or Fiction? Atherosclerosis, Aug;241(2):555-60
4. **Eberhard J**, Jepsen S, Jervøe-Storm PM, Needleman I, Worthington HV. Full-mouth treatment modalities (within 24 hours) for chronic periodontitis in adults. Cochrane Database Syst Rev. 2015 Apr 17;4:CD004622.
5. Dommisch H, Staufenbiel I, Schulze K, Stiesch M, Winkel A, Fimmers R, Dommisch, J, Jepsen S, Miosge N, Adam K, **Eberhard J**. Expression of antimicrobial peptides and interleukin-8 during early stages of inflammation: An experimental gingivitis study. J Periodontal Res. 2015 Mar 24. doi: 10.1111/jre.12271.
6. Schaumann S, Staufenbiel I, Scherer R, Schilhabel M, Winkel A, Stumpp SN, **Eberhard J**, Stiesch M. Pyrosequencing of supra- and subgingival biofilms from inflamed peri-implant and periodontal sites. BMC Oral Health. 2014 Dec 17;14:157.
7. Melk, A., Tegtbur, U., Hilfiker-Kleiner, D., **Eberhard, J.**, Saretzki, G., Eulert, C., Kerling, A., Nelius, A.K, Hömme, M., Strunk, D., Berliner, D., Röntgen, P., Kück, M., Bauersachs, J., Hilfiker, A., Haverich, A., Bara, C., Stiesch, M. (2014) Improvement of biological age by physical activity. Int J Cardiol. Oct 20;176(3):1187-9.
8. Foitzik, M., Stumpp, S.N., Grischke, J., **Eberhard, J.**, Stiesch, M. (2014) Evaluation of FTA(®) Paper for Storage of Oral Meta-Genomic DNA. Biopreserv Biobank. Oct; 12(5):337-42.

9. Langfeldt, D., Neuling, S.C., Stiesch, M., Stumpp, N., Bang, C., Schmitz, R.A., **Eberhard, J.** (2014) Health- and disease-associated species clusters in complex natural biofilms determine the innate immune response in oral epithelial cells during biofilm maturation. *FEMS Microbiol Lett.* Sep 11.
10. Dommisch, H., Winter, J., Götz, W., Miesen, J., Klein, A., Hierse, L., Deschner, J., Jäger, A., **Eberhard, J.**, Jepsen, S. (2014) Effect of growth factors on antimicrobial peptides and pro-inflammatory mediators during wound healing. *Clin Oral Investig.* May 7. [Epub ahead of print] PubMed PMID: 24802627.
11. Langfeldt, D., Neuling, S.C., Heuer, W., Staufienbiel, I., Künzel, S., Baines, J.F., **Eberhard, J.**, Schmitz, R.A. (2014) Composition of microbial oral biofilms during maturation in young healthy adults. *PLoS One.* Feb 4;9(2):e87449.
12. **Eberhard, J.**, Loewen, H., Krüger, A., Donner, S., Stumpp, N., Patzlaff, M., Stachs, O., Reichard, M., Ripken, T., Heisterkamp, A., Stiesch, M. (2014) Non-invasive in vivo imaging by confocal laser scanning microscopy of gingival tissues following natural plaque deposition. *J Clin Periodontol.* Apr;41(4):321-6.
13. **Eberhard, J.**, Haverich, A., Bauersachs, J. Stiesch, M. (2014) Gesunde Zähne – ein Beitrag für ein gesundes Herz. *Herzheute, Deutsche Herzstiftung* 3/2014.
14. de Jong, T.M., Jochens, A., Jockel-Schneider, Y., Harks, I., Dommisch, H., Graetz, C., Flachsbart, F., Staufienbiel, I., **Eberhard, J.**, Folwaczny, M., Noack, B., Meyle, J., Eickholz, P., Gieger, C., Grallert, H., Lieb, W., Franke, A., Nebel, A., Schreiber, S., Doerfer, C., Jepsen, S., Bruckmann, C., van der Velden, U., Loos, B.G., Schaefer, A.S. (2014) SLC23A1 polymorphism rs6596473 in the vitamin C transporter SVCT1 is associated with aggressive periodontitis. *J Clin Periodontol.* 41(6):531-40.
15. **Eberhard, J.**, Stiesch, M., Kerling, A., Bara, C., Eulert, C., Hilfiker-Kleiner, D., Hilfiker, A., Budde, E., Bauersachs, J., Kück, M., Haverich, A., Melk, A., Tegtbur, U. (2014) Moderate and severe periodontitis are independent risk factors associated with low cardiorespiratory fitness in sedentary non-smoking men aged between 45 and 65 years. *J Clin Periodontol.* Jan;41(1):31-7.
16. Grade, S., **Eberhard, J.**, Jakobi, J., Winkel, A., Stiesch, M., Barcikowski, S. (2014) Alloying colloidal silver nanoparticles with gold disproportionately controls antibacterial and toxic effects. *Gold Bull* 47:83–93.
17. Rahman, A., Jacker-Guhr, S., Staufienbiel, I., Meyer, K., Zupanic, M., Hahnemann, M., Lührs, A.K., **Eberhard, J.** (2013) Use of elaborate feedback and an audience-response-system in dental education. *GMS Z Med Ausbild.* Aug 15;30(3):Doc35. doi: 10.3205/zma000878
18. Schaefer, A.S., Bochenek, G., Manke, T., Nothnagel, M., Graetz, C., Thien, A., Jockel-Schneider, Y., Harks, I., Staufienbiel, I., Wijmenga, C., **Eberhard, J.**, Guzeldemir-Akcakanat, E., Cine, N., Folwaczny, M., Noack, B., Meyle, J., Eickholz, P., Trombelli, L., Scapoli, C., Nohutcu, R., Bruckmann, C., Doerfer, C., Jepsen, S., Loos, B.G., Schreiber, S. (2013) Validation of reported genetic risk factors for periodontitis in a large-scale replication study. *J Clin Periodontol.* Jun;40(6):563-72.
19. **Eberhard, J.**, Stumpp, N., Ismail, F., Schnaidt, U., Heuer, W., Pichlmaier, M., Kühn, C., Haverich, A., Stiesch, M. (2013) The oral cavity is not a primary source for implantable pacemaker or cardioverter defibrillator infections. *J Cardiothorac Surg.* Apr 10;8:73. doi: 10.1186/1749-8090-8-73.
20. Bochenek, G., Häsler, R., El Mokhtari, N.E., König, I.R., Loos, B.G., Jepsen, S.*, Rosenstiel, P., Schreiber, S., Schaefer, A.S. (2013) The large non-coding RNA ANRIL,

which is associated with atherosclerosis, periodontitis and several forms of cancer, regulates ADIPOR1, VAMP3 and C11ORF10. Hum Mol Genet. 213,15;22(22): 4516-27.

* Jepsen S for the European Periodontitis Consortium, **J. Eberhard** contributed significantly to this manuscript (please refer to Supplementary Data)

21. **Eberhard, J.**, Grote, K., Luchtefeld, M., Heuer, W., Schuett, H., Divchev, D., Scherer, R., Schmitz-Streit, R., Langfeldt, D., Stumpp, N., Staufenbiel, I., Schieffer, B., Stiesch, M. (2013) Experimental gingivitis induces systemic inflammatory markers in young healthy individuals: a single-subject interventional study. PLoS One 8(2):e55265. doi: 10.1371/journal.pone.0055265.
22. Ismail, F., Baetzner, C., Heuer, W., Stumpp, N., **Eberhard, J.**, Winkel, A., Ismail, I., Haverich, A., Stiesch, M. (2012) 16S rDNA-based metagenomic analysis of human oral plaque microbiota in patients with atherosclerosis and healthy controls. Indian J Med Microbiol. 30(4):462-6.
23. Heuer, W., Kettenring, A., Stumpp, S. N., **Eberhard, J.**, Gellermann, E., Winkel, A. & Stiesch, M. (2012) Metagenomic analysis of the peri-implant and periodontal microflora in patients with clinical signs of gingivitis or mucositis. Clin Oral Investig. 16(3):843-50.
24. Grade, S., **Eberhard, J.**, Neumeister, A., Wagener, P., Winkel, A., Stiesch, M., Barcikowski, S. (2012) Serum albumin reduces the antibacterial and cytotoxic effects of hydrogel- embedded colloidal silver nanoparticles. RSC Advances, 2, 7190–7196.
25. Stumpp, N., **Eberhard, J.**, Gellrich, N.C., Geurtsen, W., Windhagen, H., Haverich, A., Lenarz, W., Heuer, W., Stiesch., M. (2012) Die Biobank für Biofilme, Implantate und assoziierte Gewebe (BIT). Dtsch Zahnärztl Z 4, 260-264
26. **Eberhard, J.**, Sandmann, T., Marinho, V.C., Dommisch, H., Jepsen, S., Stiesch, M., Geurtsen, W. (2012) Protocol: Chlorhexidin versus topical fluoride treatment for the prevention and management of dental caries in children and adolescent. Cochrane database for Systematic Rev, accepted for publication.
27. M.Ismail, F., Heuer, W., Stumpp, N., **Eberhard, J.**, Winkel, A., Ismail, I., Haverich, A., Stiesch, M. (2012) 16S rDNA-based metagenomic analysis of human oral plaque microbiota in patients with atherosclerosis and healthy controls. Ind J Med Microbiol, accepted for publication.
28. Grade, S., **Eberhard, J.**, Wagener, P., Winkel, A., Sajti, C.L., Barcikowski, S., Stiesch, M. (2012) Therapeutic window of ligand-free silver Nanoparticles in agar-embedded and colloidal state: in vitro bactericidal effects and cytotoxicity. Adv Engineering Mat 14, 231-239
29. Kruschinski, C., Hummers-Pradier, E., **Eberhard, J.**, Schmiemann, G. (2012) "Working like a doctor": medical students' expectations of their final year elective in Family Medicine. Z Evid Fortbild Qual Gesundheitswes 106, 101-109
30. Stumpp, N., **Eberhard, J.**, Gellrich, N.C., Geurtsen, W., Windhagen, H., Haverich, A., Lenarz, W., Heuer, W., Stiesch., M. (2012) Die Biobank für Biofilme, Implantate und assoziierte Gewebe (BIT). Dtsch Zahnärztl Z 4, 260-264
31. Deng, S., Jepsen, S., Dommisch, H., Stiesch, M., Fickenscher, H., Maser, E., Chen, H., **Eberhard, J.** (2011) Cysteine proteases from *Porphyromonas gingivalis* and TLR ligands synergistically induce the synthesis of the cytokine IL-8 in human artery endothelial cells. Arch Oral Biol, 56, 1583-1591

32. Kruschinski, C., Wiese, B., **Eberhard, J.**, Hummers-Pradier, E. (2011) Attitudes of medical students towards general practice: Effects of gender, a general practice clerkship and a modern curriculum. *GMS Z Med Ausbild* 28, 16-21
33. Slawik, S., Staufenbiel, I., Schilke, R., Nicksch, S., Weinspach, K., Stiesch, M. & **Eberhard, J.** (2011) Probiotics affect the clinical inflammatory parameters of experimental gingivitis in humans. *Eur J Clin Nutr*, 65, 857-863
34. Jepsen, S., Deschner, J., Braun, A., Schwarz, F. & **Eberhard, J.** (2011) Calculus removal and the prevention of its formation. *Periodontol* 2000 55, 167-188
35. **Eberhard, J.**, Banasch, T., Jepsen, S. & Dommisch, H. (2010) Differential epithelial cell response upon stimulation with the *Aggregatibacter actinomycetemcomitans* strains VT 1169, VT 1560 DAM and ATCC 4318. *Epigenetics* 5, 710-715
36. Chen, H., Zheng, P., Zhu, H., Zhu, J., Zhao, L., El Mokhtari, N. E., **Eberhard, J.**, Lins, M. & Jepsen, S. (2010) Platelet-activating factor levels of serum and gingival crevicular fluid in nonsmoking patients with periodontitis and/or coronary heart disease. *Clin Oral Investig* 14, 629-636