



## **Dr. Wolff Research Grant: Master Periodontology**

Dr. Wolff - since 1905 the name has stood for research that solves the skin, hair and dental problems of the population with innovative active ingredients. The focus of our efforts is the scientifically provable benefit of our products.

We are a Bielefeld-based family business in its fourth generation with around 780 employees.

Since the foundation of the company, Dr. Wolff has maintained a close cooperation with renowned scientists to the products available internationally today, our in-house research provides the basis for new active ingredients and innovative product developments. Our philosophy is to sell products that have been intensively studied on its benefits for the consumers.

Since 2008, Dr. Wolff is - among others - focussing on oral care products. The main active ingredient is biomimetic hydroxyapatite (HAP). More than 200 studies on HAP and oral care have been published to date. Not only enamel remineralization and dental caries prevention, but also reduction of dentin hypersensitivity and improvement of periodontal health have been proven in *in vivo*, *in situ* and *in vitro* studies. The benefits of this active ingredients are obvious: Our bones and teeth are made of HAP. Thus, it is a biomimetic mineral suitable for all age groups. Apart from that, study results have shown the benefits for oral health, while not being toxic. With our scientific background, we are encouraging scientists all over the world to research and publish on biomimetic HAP.

The Dr. Wolff company is offering a research grant for the Master Periodontology at RWTH Aachen, Germany.

The grant is tied to a specific topic that will be studied for the master's thesis.

DR. KURT WOLFF GmbH & Co. KG · Handelsregister Bielefeld HRA 11533 · Ust.IdNr. DE124002456 Postfach 10 04 53, 33504 Bielefeld  
Johanneswerkstr. 34-36, 33611 Bielefeld · Telefon 05 21/88 08-00 · Telefax 0521/8808-200 · E-mail: info@dr-kurt-wolff.de

Persönlich haftende Gesellschaft: DR. KURT WOLFF VERWALTUNGS-GMBH · Handelsregister Bielefeld HRB 30035  
Geschäftsführer: Dipl. Ing. Eduard R. Dörrenberg · Assessor jur. Christoph Harras-Wolff · Dr. oec. Christian Mestwerdt  
Deutsche Bank AG Bielefeld: BLZ 480 700 20, Konto 101 717 SWIFT-BIC: DEUTDE33XXX · IBAN: DE98 480 700 20 001 017 1700  
Sparkasse Bielefeld: BLZ 480 501 61, Konto 877 SWIFT-BIC: SPBIDE33XXX · IBAN: DE21 480 501 61 000 000 0877  
Postbank Hannover: BLZ 250 100 30, Konto 105 310 308 SWIFT-BIC: PBNKDEFFXXX · IBAN: DE47 250 100 30 010 531 0308

The **topic** for the master's thesis is: **"Influence of substances used in oral care on the gingiva"**

*The focus of this research topic is as follows:*

- The student shall perform a systematic literature-search on substances and actives used in oral care
- Outcome of the literature-search is to find beneficial actives that are or can be used for gingival and periodontal health but also as implant coatings
- The influence of the substances can be tested *in vitro* on human cells (i.e. gingival fibroblasts) or *in vivo* in clinical trials
- Databases are Pubmed and others – search terms will be discussed together with the responsible persons at the Dr. Wolff Research Department
- The results shall not only be used for the Master's Thesis, but also for a peer-review publication in an international scientific journal

***What we are offering:***

- A contemporary research-topic
- Scientific support including:
  - o Statistics
  - o Literature research
  - o Scientific writing
  - o Online-meetings every 4-6 weeks to discuss the latest issues
  - o And others
- Direct contact to a leading German mid-sized company that is producing oral care products
- Support with paper-writing for a peer-review publication
- **Financial support / stipend: 10.000 €**

***Whom we are looking for:***

- Highly motivated, research orientated character
- male / female / other

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- Fluent in English language (spoken and written)
- Minimum of 1 peer-reviewed publication (1<sup>st</sup> / last author) (favourable)
- Experience in periodontology / implantology of a minimum of 2 years
- Experience in (systematic) literature-search
  - o Free access to scientific databases is favoured
- General understanding of cell-biology, literature-search and quality of published literature
- Working at dental clinics with a focus on periodontology

Please send us your application for the grant and the study with a motivational letter (one page), your peer-review publications and specifications of your private praxis / dental clinics until **15<sup>th</sup> July 2022**.

### Scientific literature

- Enax, J., Fabritius, H. O., Fabritius-Vilpoux, K., Amaechi, B. T. & Meyer, F. Modes of Action and Clinical Efficacy of Particulate Hydroxyapatite in Preventive Oral Health Care – State of the Art. *Open Dent J* 13, 274-287 (2019).
- Harks, I. et al. Impact of the daily use of a microcrystal hydroxyapatite dentifrice on de novo plaque formation and clinical/microbiological parameters of periodontal health. A randomized trial. *PloS one* 11, e0160142 (2016).
- Yamano, S. et al. The influence of different implant materials on human gingival fibroblast morphology, proliferation, and gene expression. *Int J Oral Maxillofac Implants* 26, 1247-1255 (2011).