



## Curriculum Vitae

Personal information **Christian Apel**

### Work experience

---

Senior research associate at Institute of Applied Medical Engineering

**Universtätsklinikum RWTH Aachen** [ 01/01/2014 – Current ]

**City:** Aachen

**Country:** Germany

Vice director at Department of Biohybrid & Medical Textiles, HRM, Research management, Translational research

Senior physician at the Department of Conservative Dentistry, Periodontology and Preventive

Dentistry

**Universtätsklinikum RWTH Aachen** [ 01/04/2008 – 31/12/2013 ]

**City:** Aachen

**Country:** Germany

Head of clinical teaching courses in Operative Dentistry, Patient treatment, Preclinical and clinical research

Junior professor for Experimental Caries Prevention and Therapy at the Medical Faculty of RWTH

Aachen University

**Universtätsklinikum RWTH Aachen** [ 19/12/2002 – 18/12/2011 ]

**City:** Aachen

**Country:** Germany

Research and teaching activities in Caries prevention and therapy, senior physician at the Department for Conservative Dentistry, Periodontology and Preventive dentistry.

Visiting professor at the Department of Operative Dentistry at the University of São Paulo, Brazil

**University of São Paulo** [ 01/03/2006 – 29/02/2008 ]

**City:** São Paulo

**Country:** Brazil

Research and teaching activities in Dentistry, visiting scientist at the Laboratory of Neuroscience of University of São Paulo

Dentist and research associate at the Department of Conservative Dentistry, Periodontology and

Preventive Dentistry

**Universtätsklinikum RWTH Aachen** [ 16/02/1996 – 18/12/2002 ]

**City:** Aachen

**Country:** Germany

Patient treatment, Dentistry lecturer, Preclinical and clinical research.

### Education and training

---

Dentist, Study of Dentistry

**RTWH Aachen University** [ 15/10/1990 – 30/11/1995 ]

**Address:** Aachen (Germany)

Conferral of a Doctorate (Dr. med. dent.)

**RWTH Aachen University** [ 10/06/1997 ]

Additional information

---

Publications

**Extracellular Vesicles-Loaded Fibrin Gel Supports Rapid Neovascularization for Dental Pulp Regeneration**

[2020]

<https://doi.org/10.3390/ijms21124226>

Int J Mol Sci. 2020;21(12):4226.

**Deep sequencing of biofilm microbiomes on dental composite materials**

[2019]

<https://doi.org/10.1080/20002297.2019.1617013>

J Oral Microbiol. 2019;11(1):1617013

**Evaluation of Restorative Materials Containing Preventive Additives in a Secondary Caries Model in vitro**

[2019]

<https://doi.org/10.1159/000496401>

Caries Research, 2019: 53 (4): 447-456.

**Macrophages significantly enhance wound healing in a vascularized skin model**

[2019]

<https://doi.org/10.1002/jbm.a.36648>

Journal of Biomedical Materials Research - Part A, 2019: 107 (6): 1340-1350

**Three-Dimensional Printing and Angiogenesis: Tailored Agarose-Type I Collagen Blends Comprise Three-Dimensional Printability and Angiogenesis Potential for Tissue-Engineered Substitutes**

[2017]

<https://doi.org/10.1089/ten.tec.2017.0234>

Tissue Engineering - Part C: Methods, 2017; 23 (10): 604-615.

**Differences in degradation behavior of two non-cross-linked collagen barrier membranes: An in vitro and in vivo study**

[2014]

<https://doi.org/10.1111/clr.12284>

Clinical Oral Implants Research, 2014; 25 (12): 1403-1411

**Dental composite materials containing carolacton inhibit biofilm growth of Streptococcus mutans**

[2013]

<https://doi.org/10.1016/j.dental.2013.09.005>

Dental Materials, 2013;29 (11): 1188-1199

**Assessment of stem cell/biomaterial combinations for stem cell-based tissue engineering**

[2008]

<https://doi.org/10.1016/j.biomaterials.2007.09.022>

Biomaterials, 2008;29 (3):302-313

**Influence of the spatial beam profile on hard tissue ablation, Part II: Pulse energy and energy density distribution in simple beams**

[2004]

<https://doi.org/10.1007/s10103-004-0312-z>

Lasers in Medical Science, 2004;19 (2): 112-118

**Influence of the spatial beam profile on hard tissue ablation part I: Multimode emitting Er:YAG lasers**

[2003]

<https://doi.org/10.1007/s10103-003-0263-9>

Lasers in Medical Science, 2003;18 (2):112-118.

Projects

Memberships **Animal care commission (§15 TierSchG)**  
[ 01/08/2009 – Current ]  
Deputy Chairman

Other Relevant Information