

2011 Wladimir Adlivankine Prize winner



Dan-Krister Rechenberg was born in 1978 in Hannover, Germany. He graduated from the University of Göttingen School of Dental Medicine in 2005. Subsequently, he worked in the Department of Preventive Dentistry, Periodontology and Cariology at the University of Göttingen. Since 2006 he has been employed at the Clinic of Preventive Dentistry, Periodontology and Cariology, Centre of Dental Medicine, University of Zürich, where he received his doctoral degree in dentistry (Dr. med. dent.) in 2009. In 2008, he enrolled on a postgraduate endodontic programme at the University of Zürich under the guidance of Dr. Matthias Zehnder, and will shortly complete.

In the research project “Potential systematic error in laboratory experiments on microbial leakage through filled root canals: an experimental study“, the pathways of bacterial leakage in a commonly used two-chamber leakage model designed to evaluate root fillings were investigated using a well-controlled experimental set-up. Routes of bacterial leakage were traced using confocal laser scanning microscopy. It was possible to demonstrate that bacterial leakage occurred between the outer root surface and the sealant that separated the chambers. This source of bias has not been considered in controls of former experiments. It was concluded that the two-chamber leakage model under investigation has an inherent shortcoming, which renders it unsuitable to compare different root filling materials or techniques.

The ESE sends its warm congratulations to Dr Rechenberg.