



**A R P A**  
WISSENSCHAFTSSTIFTUNG



**Leopoldina**  
Nationale Akademie  
der Wissenschaften

# Meet the “Giants” in Periodontology: looking back into the Future

Leopoldina Symposium

Thursday, 19 September 2024 | 13:00 – 17:00

Universitätsclub Bonn | Konviktstraße 9, 53133 Bonn



Periodontitis is a chronic inflammatory non-communicable disease (NCD) characterised by the destruction of the tooth-supporting apparatus (periodontium), including alveolar bone, the presence of periodontal pockets, and bleeding gums. It is initiated by the accumulation of a microbial biofilm at and below the gingival margin, which activates the host immune-inflammatory response. The latter drives biofilm dysbiosis, triggering a dysregulation of local immune-inflammatory processes that destroy the periodontal tissues.

Periodontitis presents a major public health problem due to its high prevalence and associated morbidity. It is the most common NCD in humans with 1.1 billion people experiencing severe periodontitis globally. If untreated, severe periodontitis progresses to tooth loss, causing disability by impairing chewing, speech, and aesthetics. It significantly impairs quality of life, is a source of social inequality, harms general health, and is associated with significant dental and medical care

costs. Periodontitis is also independently associated with other highly prevalent chronic inflammatory NCDs, including Diabetes and cardiovascular diseases. Not surprisingly, topics such as “periodontitis”, “periodontal disease”, “dental implants”, and “peri-implantitis” have dominated published research in dentistry over the last 10 years.

Several of the top-rated internationally renowned clinician scientists from around the world who have made major contributions to the field and have shaped modern periodontology over the last 20 years will share their insights with regard to present and future periodontal research. This symposium will offer a unique opportunity to meet these “giants” and interact with them on a personal level. Young dentists and academicians in particular are encouraged to join this event.

**Please register online via the following link:**

[www.arpa-stiftung.de/anmeldung-meet-the-giants.html](http://www.arpa-stiftung.de/anmeldung-meet-the-giants.html)

## Program

<b>13:00</b>	<b>Arrival of participants and Lunch</b>
<b>14:00 – 14:20</b>	<b>Infection landscapes: insights into oral biofilms</b> Prof. Annette Moter, Berlin, Germany
<b>14:20 – 14:40</b>	<b>Back to the future: a journey through periodontal pathogenesis</b> Prof. Iain Chapple, Birmingham, UK
<b>14:40 – 15:00</b>	<b>Precision periodontology: AI and Omics to customize patient care</b> Prof. William Giannobile, Cambridge, USA
<b>15:00 – 15:20</b>	<b>Utopia in periodontal research</b> Prof. Bruno Loos, Amsterdam, The Netherlands
<b>15:20 – 15:40</b>	<b>From periodontitis to peri-implantitis: how to approach the prevention and treatment of destructive peri-implant diseases</b> Prof. Mariano Sanz, Madrid, Spain
<b>15:40 – 16:00</b>	<b>Can we beat periodontitis? Reflections on why it is special and what we may do about it</b> Prof. Maurizio Tonetti, Shanghai, China
<b>16:00 – 17:00</b>	<b>Six Round Tables</b> Discussion and Q&A

**Moderation:** Prof. Søren Jepsen (ML) and Prof. Christian Kurts (ML), Bonn  
ML = Member of the Leopoldina

### About the ARPA Science Foundation

In 2002, the board of the German Society for Periodontology (DG PARO) under the presidency of Prof. Jörg Meyle discussed the conditions under which continuous and long-term support of national research projects in the field of periodontology would be possible. After much deliberation, it was agreed to establish a non-profit foundation that would be dedicated exclusively to the task of promoting national research. In reference to the former name „ARPA“ or „ARPA-Internationale“ (founded in 1924 and historically the predecessor society of the German Society of Periodontology - DG PARO) it was decided to give the foundation the name „ARPA Science Foundation“. According to the statutes, the purpose of the ARPA Science Foundation is to promote science in the field of periodontology in Germany. The purpose of the foundation is realized in particular through the implementation of scientific events and the promotion of research projects.

### About the German National Academy of Sciences Leopoldina

The Leopoldina originated in 1652 as a classical scholarly society and now has 1,600 members from almost all branches of science. In 2008, the Leopoldina was appointed as the German National Academy of Sciences and in this capacity, was invested with two major objectives: representing the German scientific community internationally, and providing policymakers and the public with science-based advice. The Leopoldina champions the freedom and appreciation of science on both the national and the international level. It is her role to identify and analyse scientific issues of social importance. The Leopoldina presents its policy recommendations in a scientifically qualified, independent, transparent and prospective manner, ever mindful of the standards and consequences of science.