

## Curriculum Vitae Prof.dr. Floris J. Bikker

### Personal details

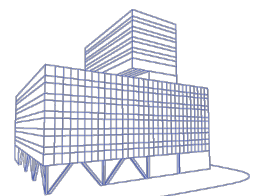
Name: Floris Jacob Bikker  
Nationality: Dutch  
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Current profession: Professor  
PhD and Head of the Department of Oral Biochemistry  
Saliva Clinic  
Academic Centre for Dentistry Amsterdam (ACTA)  
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### Research Description

After obtaining his PhD in 2004 at the Free University of Amsterdam Prof.dr. Bikker was been appointed at the Netherlands Organisation for Applied Scientific Research (TNO) as project leader and research leader of various (inter-) national research projects. These projects varied in time (up to 4 years), personnel (up to 10 researchers), budget (up to 2.500 K€) and confidentiality (up to state secret). In general, his projects were aimed at diagnosis and therapy of chemical warfare agents and infectious diseases, including biological warfare agents. In 2009 he was appointed at the Academic Centre for Dentistry Amsterdam (ACTA). At this moment, as Professor and Head of the department of Oral Biochemistry, Prof.dr Bikker is involved in various scientific research lines, which are all centred around understanding the protective role of saliva in oral health. These research lines include: 1) salivary diagnostics, 2) development of protective coatings against dental erosion and biofilms, 3) Wound healing capacity of saliva and 4) novel solutions to treat xerostomia. Currently Prof.dr. Bikker is supervising 5 PhD- students and various Bachelor-, and Master students. Furthermore, he treats patients with xerostomia and saliva related complaints in ACTA's saliva clinic.

The work has resulted in 7 patents and 115 scientific publications, 38 of which as senior author. He has hosted 7 symposia and a congress on novel antimicrobial peptides and –applications, which were attended by over 75 (inter)national scientists, representatives of companies and medical doctors. Notably, the patent of one of his inventions, a novel compound with oral health stimulating properties, was recently licenced to a commercial party for applications in oral care products. Within the VU, and academia in the Netherlands, this is acknowledged as an unique achievement.



**Citation metrics at April 28<sup>th</sup> 2023:**

Total Articles in Publication List: 115, Sum of the Times Cited: 2035, h-index: 28  
<https://orcid.org/0000-0002-9453-4630>

**Representative publications :**

Assy Z, Brand HS, Bots CP, **Bikker FJ**. The relationship between the severity of oral dryness and the use of dry-mouth interventions by various subgroups of dry-mouth patients. *Clin Oral Investig*. 2022;26:3097-3108.

**Bikker FJ**, Nascimento GG, Nazmi K, Silbereisen A, Belibasakis GN, Kaman WE, Lopez R, Bostanci N. Salivary Total Protease Activity Based on a Broad-Spectrum Fluorescence Resonance Energy Transfer Approach to Monitor Induction and Resolution of Gingival Inflammation. *Mol Diagn Ther*. 2019;23:667-676.

**Bikker FJ**, Hoogenkamp MA, Malhaoui A, Nazmi K, Neilands J, Krom BP. Phytosphingosine Prevents the Formation of Young Salivary Biofilms in vitro. *Caries Res*. 2018;52:7-13.

Kaman WE, Galassi F, de Soet JJ, Bizzarro S, Loos BG, Veerman EC, van Belkum A, Hays JP, **Bikker FJ**. Highly specific protease-based approach for detection of porphyromonas gingivalis in diagnosis of periodontitis. *J Clin Microbiol*. 2012;50:104-12.

**Bikker FJ**, Ligtenberg AJ, Nazmi K, Veerman EC, van't Hof W, Bolscher JG, Poustka A, Nieuw Amerongen AV, Mollenhauer J. Identification of the bacteria-binding peptide domain on salivary agglutinin (gp-340/DMBT1), a member of the scavenger receptor cysteine-rich superfamily. *J Biol Chem*. 2002;277(35):32109-15.

*Floris J. Bikker*  
*April 28th, 2023*

