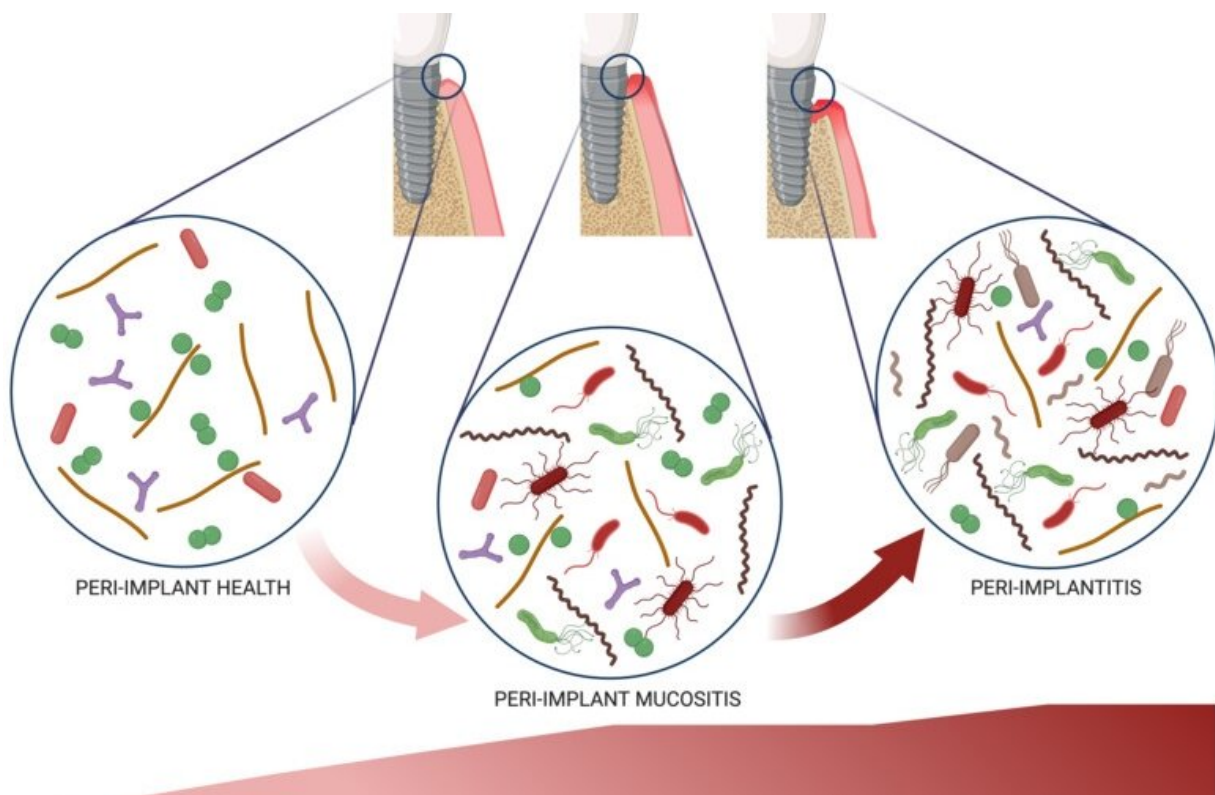


# Researchers investigate the triggers of peri-implantitis

January 13 2021, by Anna Manfredsson



The figure illustrates the increasing peri-implant microbial diversity observed during the transition from peri-implant health to peri-implant mucositis and ultimately peri-implantitis. Credit: Belibasakis GN and Manoil D, *J Dent Res* 2021; 100 (1): 21–28/SAGE publishing under a Creative Commons CC-BY license

What are the microbial triggers of peri-implantitis? George Belibasakis and Daniel Manoil from Karolinska Institutet tackled the question in a recent review.

Dentmed researchers George Belibasakis and Daniel Manoil published a cutting-edge review on peri-implantitis, in the centennial volume of the *Journal of Dental Research*. Their work explains the latest concepts on the microbiology of the [disease](#), by putting together findings from the latest sequencing technologies.

Belibasakis and Manoil identified that the major microbial changes occur in peri-implant mucositis, the earlier form of peri-implant disease. Additional changes occur during the progression to peri-implantitis, but these are more subtle than the previous stage. The transition from health to peri-implantitis is characterized throughout by gradual reduction of health-associated microorganisms and enrichment of pathogens. It is also clearer now that the microbial communities responsible for peri-implantitis are less diverse from those responsible for periodontitis. This needs to be taken into account for treating the disease differently in future.

**More information:** G.N. Belibasakis et al. Microbial Community-Driven Etiopathogenesis of Peri-Implantitis, *Journal of Dental Research* (2020). [DOI: 10.1177/0022034520949851](https://doi.org/10.1177/0022034520949851)

Provided by Karolinska Institutet

Citation: Researchers investigate the triggers of peri-implantitis (2021, January 13) retrieved 26 April 2024 from <https://medicalxpress.com/news/2021-01-triggers-peri-implantitis.html>

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