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## **Injectable Antimicrobial Scaffolding for Periodontitis Biofilm Prevention and Treatment**

**Alexandria, VA** – A study exploring the potential of an injectable hydrogel scaffold as a possible alternative method for removing biofilm buildup under the gumline for periodontitis was presented at the 54<sup>th</sup> Annual Meeting of the AADOCR, which was held in conjunction with the 49<sup>th</sup> Annual Meeting of the Canadian Association for Dental Research, on March 12-15, 2025 in New York, NY.

The abstract, “Injectable Antimicrobial Scaffolding for Periodontitis Biofilm Prevention and Treatment” was presented by Alexandra Griffith of the New Jersey Institute of Technology during the “Optimizing Treatment Responses” Oral Session that took place on Thursday, March 13, 2025 at 8 a.m. EDT (UTC-4).

Removing biofilm buildup under the gumline for periodontitis is invasive and painful. A possible alternative is an injectable hydrogel scaffold which would act both as a scaffold for tissue regeneration and healing as well as having tunable antimicrobial and antibiofilm properties specific to the microorganisms associated with periodontitis.

The *in vitro* results of the study indicated that AMP prevents periodontal microbes from adhering to surfaces and forming pathogenic biofilms. When paired with the tissue regeneration seen *in vivo*, the results indicated that the scaffold holds potential as an injectable treatment for treating and reversing damage caused by periodontitis.

### **About AADOCR**

The American Association for Dental, Oral, and Craniofacial Research is a nonprofit organization with a mission to drive dental, oral, and craniofacial research to advance health and well-being. AADOCR represents the individual scientists, clinician-scientists, dental professionals, and students based in academic, government, non-profit and private-sector institutions who share our mission. AADOCR is the largest division of the International Association for Dental, Oral, and Craniofacial Research. Learn more at [www.aadocr.org](http://www.aadocr.org).