BioSpectrum
the business of Bio & Health Sciences
ASIA EDITION

Australia uses nanotechnology to offer pain relief for tooth sensitivity

November 24, 2021 | News

Study encourages more research using nanotechnology to address dental problems

In an Australian first, researchers from the University of Queensland have used nanotechnology to develop effective ways to manage tooth sensitivity.

According to the researchers, the approach might provide more effective long-term pain relief for people with sensitive teeth, compared to current options.

“Dentin tubules are located in the dentin, one of the layers below the enamel surface of your teeth. When tooth enamel has been worn down, and the dentin are exposed, eating or drinking something cold or hot can cause a sudden sharp flash of pain. The nanomaterials used in this preclinical study can rapidly block the exposed dentin tubules and prevent the unpleasant pain”, said the researchers.

The next step is clinical trials. If successful, people will benefit from this new method that can be used at home, without the need to go to a dentist in the near future.