

THE CROWNICLE

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Gum Disease May Be Treatable With Bioceramic Material

Source: Medical News Today

New research reveals that silicon nitride - a ceramic material used in spinal implants - could lead to effective, new types of gum disease treatment. Using a number of techniques, such as pH microscopy and fluorescence spectroscopy, a multidisciplinary team from Japan and the US observed the molecular-level interactions between *P. gingivalis* cells and different surfaces of silicon nitride.

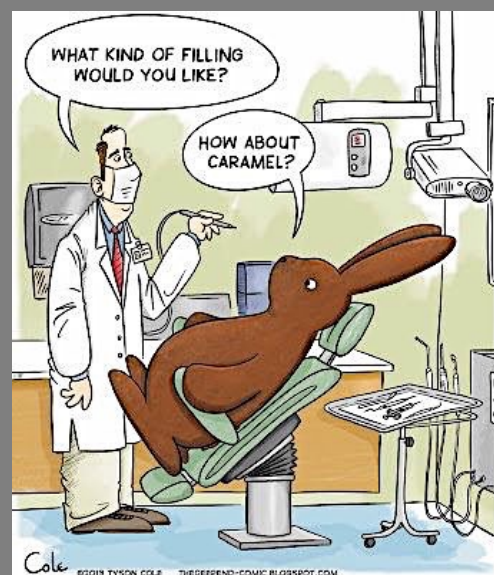
One of the important effects that researchers noticed was how - after only 6 days of exposure - the chemical reactions with the ceramic materials degraded the nucleic acids in the bacterial cells, which, in turn, dramatically reduced their ability to produce essential proteins and fats.

One of the microscopy techniques revealed the formation of peroxy-nitrite with the bacterial cells. Peroxy-nitrite is an unstable compound that damages DNA, proteins and other important cell molecules.

The researchers note how by changing the surface chemistry of silicon nitride - either by chemical etching or thermal oxidation - they could influence peroxy-nitrite formation and affect bacteria in different ways. Although further studies are necessary, the findings do show that silicon nitride offers a new and promising way to treat gum disease.

Link to full article: <http://www.medicalnewstoday.com/articles/308784.php>

Laugh Out Loud



Noel Laboratories, Inc. would like to thank everyone who was able to attend our Open House on May 5th. Congratulations to Dr. Jon Hollister, who was the winner of our iPad Mini giveaway!

