

Development of antibacterial and antiviral surface on implants

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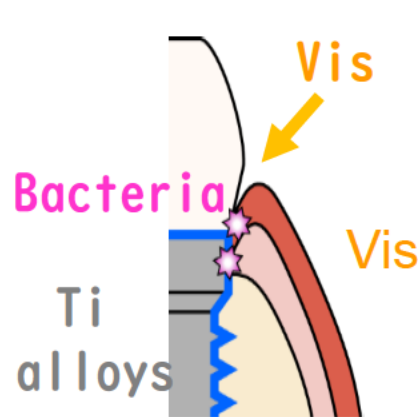
<https://narushimalab-material-tohoku.jp/>

Dental implant



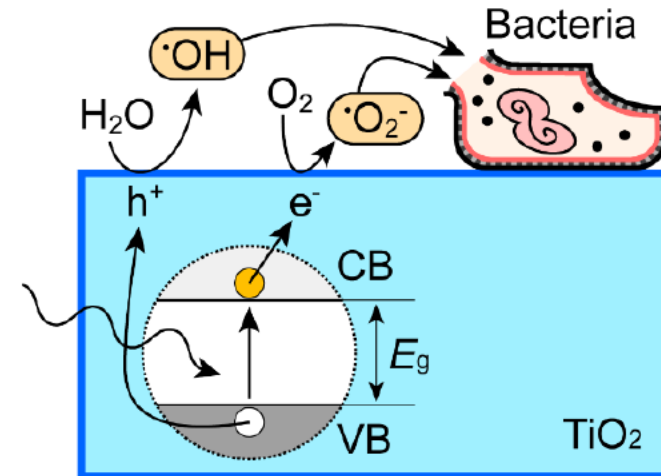
<http://www.swjo.jp/norvel-smile/index.html>

Bacterial infection caused by bacteria adhering to the dental implants



Photocatalytic active-TiO₂ film

Anti-bacterial activity of photocatalytic TiO₂



Effective for anti-virus!

In this lecture, the students develop photocatalytic TiO₂ films on Ti substrates with excellent antibacterial activity by sol-gel process. Through the process from preparation to analysis and evaluations, you can enjoy and experience your interest in manufacturing.