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3D Bioprinting: Seminar and Introductory Workshop

Friday, 25 August 2017, 10am- 12pm,
Dept of Microbiology and Immunology, room 208

*“3D Printing for bone and periodontal regeneration:
Challenges and opportunities”*

Professor Saso Ivanovski

**Professor of Periodontology, School of Dentistry and Oral Health,
Griffith University, Queensland, Australia**

Saso Ivanovski is the Professor of Periodontology and the research lead in Tissue Engineering and Regenerative Medicine at the Menzies Health Institute Queensland. He is a practicing clinician and a registered specialist in periodontics. Saso leads a research group with an interest in the clinical and biological aspects of bone and periodontal regeneration, and has published over 100 full length papers in the peer-reviewed international literature.

Seminar Abstract

Tissue engineering is a multi-disciplinary field which aims to incorporate aspects of cell and molecular biology and material science in order to regenerate lost or damaged tissues and organs. A variety of tissue engineering approaches have been proposed for alveolar bone and periodontal regeneration, involving a combination of different cell types, bio-scaffolds and biologically active molecules. This lecture will discuss novel bone tissue engineering approaches using 3D bioprinting and biofunctionalization of scaffolds with growth factors and drugs. The feasibility of combining these approaches with established surgical techniques will be explored, and their potential for clinical utilisation will be critically evaluated.

Introductory 3D Bioprinter Workshop

An introduction to the basic features of the recently acquired, *GeSIM 3.1 Bioscaffolder*, and a hands-on viewing of the instrument will follow the seminar.

Registration

To register your interest for either the seminar or viewing the Bioscaffolder or both, contact Dr. Jaydee Cabral via email, jcabral@chemistry.otago.ac.nz, by 14 August 2017.

Prof. Ivanovski will be available for individual meetings from 2-4:30 pm. Contact Jaydee to book a time.

