



Tooth Bioengineering: A window to the future of dentistry

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Abstract:

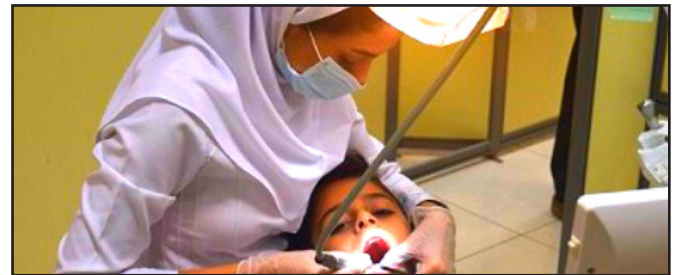
Tooth loss as one of the most debilitating defects both functionally and esthetically, affects over 276 million people worldwide. Drawbacks of available treatment options such as Fixed Partial Dentures (FPDs), Removable Partial Dentures (RPDs), and dental implants indicate a desire to a more promising approach to deal with edentulism.

From the pegs-shaped bamboo sticks carved by ancient Chinese 4000 years ago, to the most recent dental implants, there was an ongoing desire to replace the missing teeth with something similar to the tooth. Therefore, regeneration of tooth in morphological and functional form could be the only perfect answer to lost tooth replacement. Recent advances in developmental biology, stem cell biology, materials science, and tissue engineering have brought an unprecedented hope to bioengineer the whole tooth as a novel treatment.

In this lecture, we are going to discuss the most recent accomplishments of whole tooth bioengineering and evaluate the challenges and limitations that should be addressed before introducing the bioengineered teeth to the future dental clinics.

Biography:

Ehsan Farjood is prosthodontist and former assistant professor at Bandarabbas dental school, Iran. He obtained his DDS and MSc from Shiraz University of Medical Sciences (SUMS) in 2009 and 2013 respectively. He has been working as a prosthodontist and implantologist in



private practice in Bandarabbas since 2013. His favourite fields of study are digital dentistry, 3D printers, and dental tissue engineering. He published a paper, titled "Rapid prototyping technologies and their applications in prosthodontics, a review of literature" which got more than a 100 citations since 2015.

Publication of speakers:

1. Kianoosh Torabi, Ehsan Farjood, Shahram Hamedani, "Rapid Prototyping Technologies and their Applications in Prosthodontics, a Review of Literature", *J Dent (Shiraz)*, Mar;16(1):1-9, 2015.
2. Hanieh Mehrpour, Ehsan Farjood, Rashin Giti, Alireza Barfi Ghasrdashti, Hossein Heidari, "Evaluation of the Flexural Strength of Interim Restorative Materials in Fixed Prosthodontics", *J Dent (Shiraz)*, Sep;17(3):201-6, 2016.
3. Ehsan Farjood, Mahroo Vojdani, Kiyanoosh Torabi, Amir Ali Reza Khaledi, "Marginal and internal fit of metal copings fabricated with rapid prototyping and conventional waxing", *J Prosthet Dent*, Jan;117(1):164-170, 2017.

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