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Tooth engineering

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Contemporary dentistry restores missing teeth by dentures or dental implants, both associated with their own limitations. To overcome these, tooth engineering a novel concept of regenerating a whole new tooth is under current research. It may revolutionize the oral health care system and quality of life for millions of people. It needs stem cells, biodegradable scaffold materials and signalling molecules. Stem cells are essentially the building blocks of a body and have a unique ability to renew themselves and give rise to the more specialized cell types. They can be delivered upon scaffolds that provide biophysical support for cell recruitment, adhesion proliferation, differentiation, and metabolism. Appropriate exogenous signals can be given to regenerate a tooth *de novo* within the oral cavity. We hope that the rapid scientific and technological advancement will provide new information and solutions that will allow regenerated teeth to become a routine treatment for individuals with missing teeth.

Biography

Neha Bhaveshbhai Kaswala has cleared her final year BDS ranking 5th in the university and is currently doing internship from K M Shah Dental College and Hospital, S V University, Gujarat, India. She has presented an e-poster on veracity of virtual dentistry in international digital dental conference 2016, hyderabad. She has also attended annual world dental congress, FDI 2014. She was awarded with first prize for best poster presentation on "Lab diagnosis of Malaria". She was awarded with 2nd prize in table clinics at Gyandeep 2016, SV University and also attended lecture series by Indian Society of Periodontology.

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