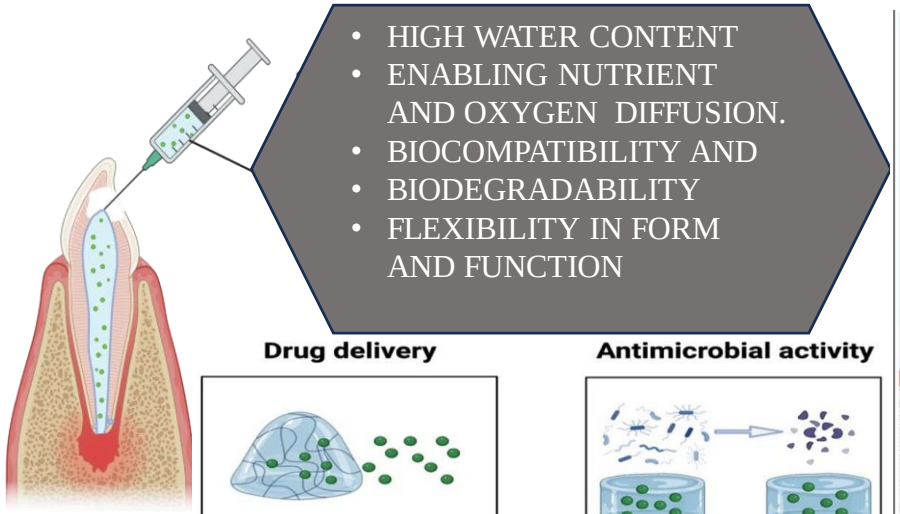
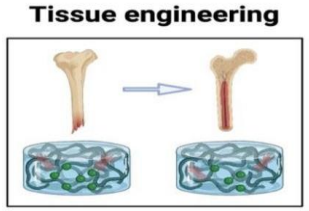
39th IACDE National Conference

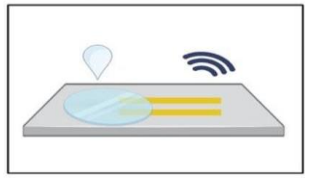
GEL-ICIOUS DENTISTRY
INJECTING HYDROGELS TO LEAD THE WAY

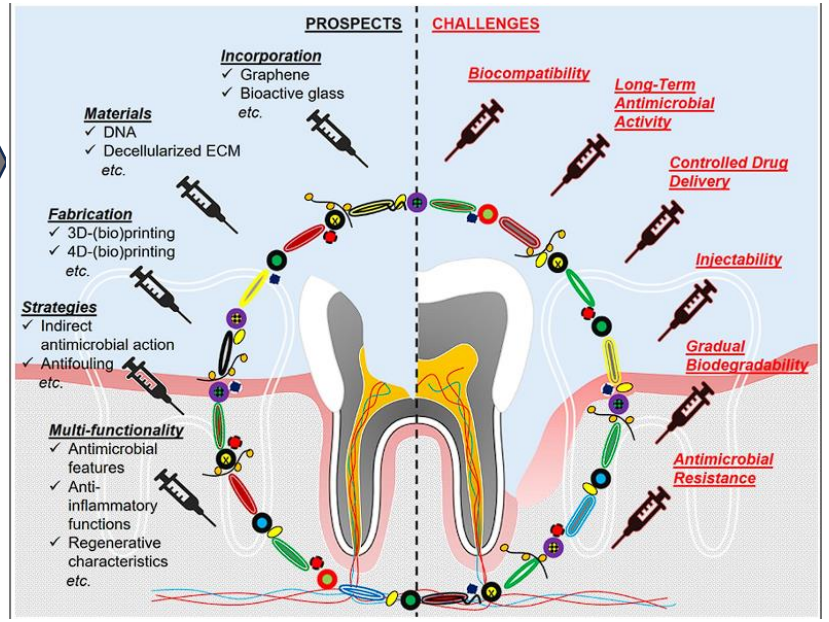
HYDROGELS ARE INJECTABLE SCAFFOLDS THAT OFFER A PROMISING APPROACH FOR THE REGENERATION OF DENTAL TISSUES AFFECTED BY DISEASES LIKE PERIODONTITIS, DENTAL CARIES, PULP NECROSIS, AND ORAL CANCERS. THEIR UNIQUE PROPERTIES ALLOW THEM TO ADDRESS BOTH STRUCTURAL AND BIOLOGICAL CHALLENGES IN THE ORAL ENVIRONMENT



- HIGH WATER CONTENT
- ENABLING NUTRIENT AND OXYGEN DIFFUSION.
- BIOCOMPATIBILITY AND
- BIODEGRADABILITY
- FLEXIBILITY IN FORM AND FUNCTION







SYNTHETIC HYDROGELS
EXAMPLES: POLYETHYLENE GLYCOL (PEG), POLYLACTIC ACID (PLA), AND GELATIN METHACRYLATE (GEIMA).