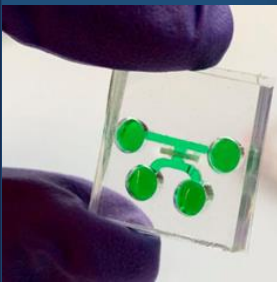
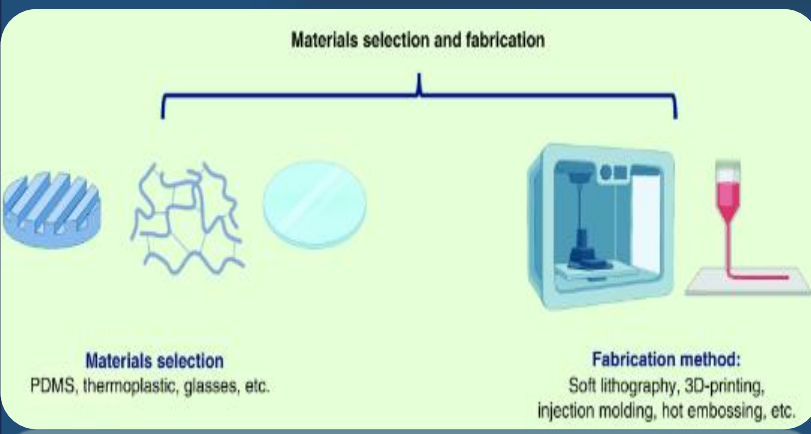
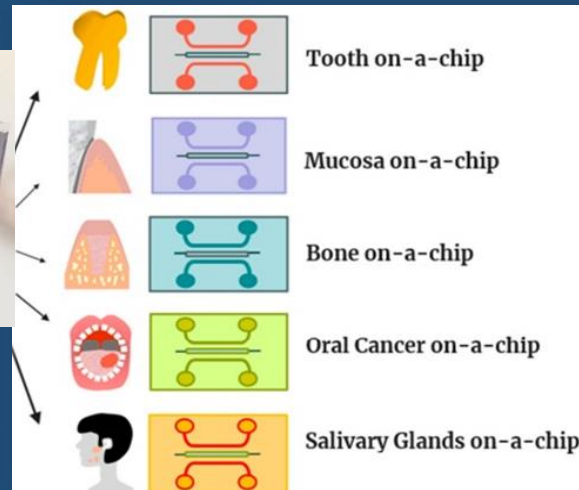


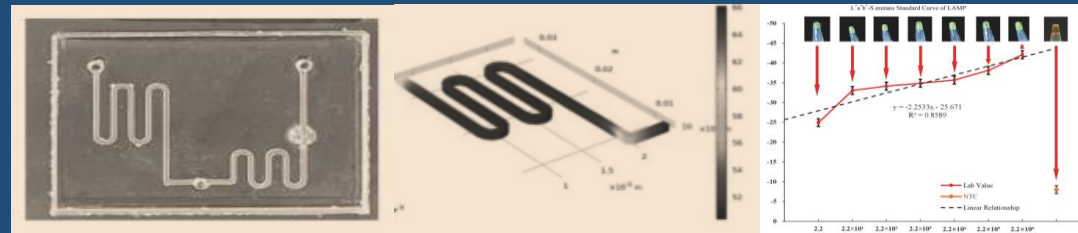
LAB-ON-A-CHIP TECHNOLOGY IN RESTORATIVE DENTISTRY AND ENDODONTICS – MICRO TECH, MAJOR IMPACTS



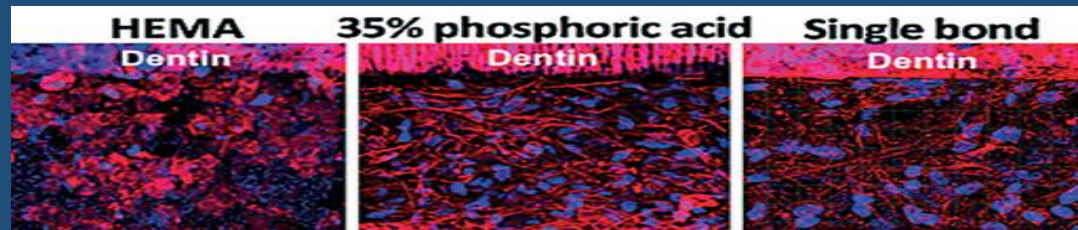
Lab on a chip
=Miniaturized
laboratory



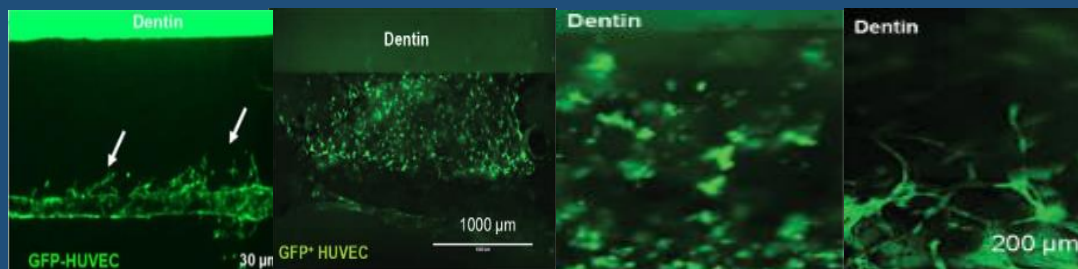
1) Rapid bacterial detection and analysis



2) Material Testing



3) Regenerative Endodontics



Advantages

- Non invasive
- Rapid results
- In vivo like structure

Challenges

- Standardization
- Cost effective
- Scalability

Future directions

- AI Integration
- Personalized treatment