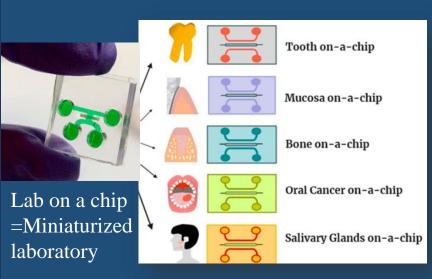
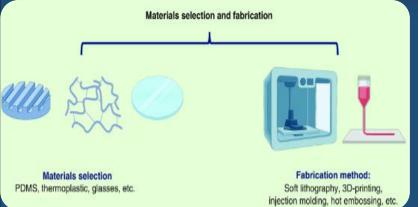






LAB-ON-A-CHIP TECHNOLOGY IN RESTORATIVE DENTISTRY AND ENDODONTICS – MICRO TECH, MAJOR IMPACTS





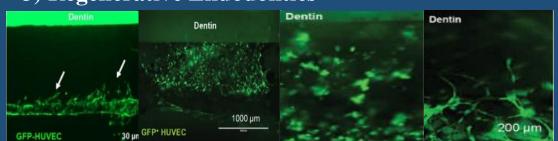
1) Rapid bacterial detection and analysis



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

The tooth on-a-chip: a microphysiologic model system mimicking the biologic interface of the tooth with biomaterials: Cristiane Miranda França, Anthony Tahayeria, Nara Sousa Rodrigues