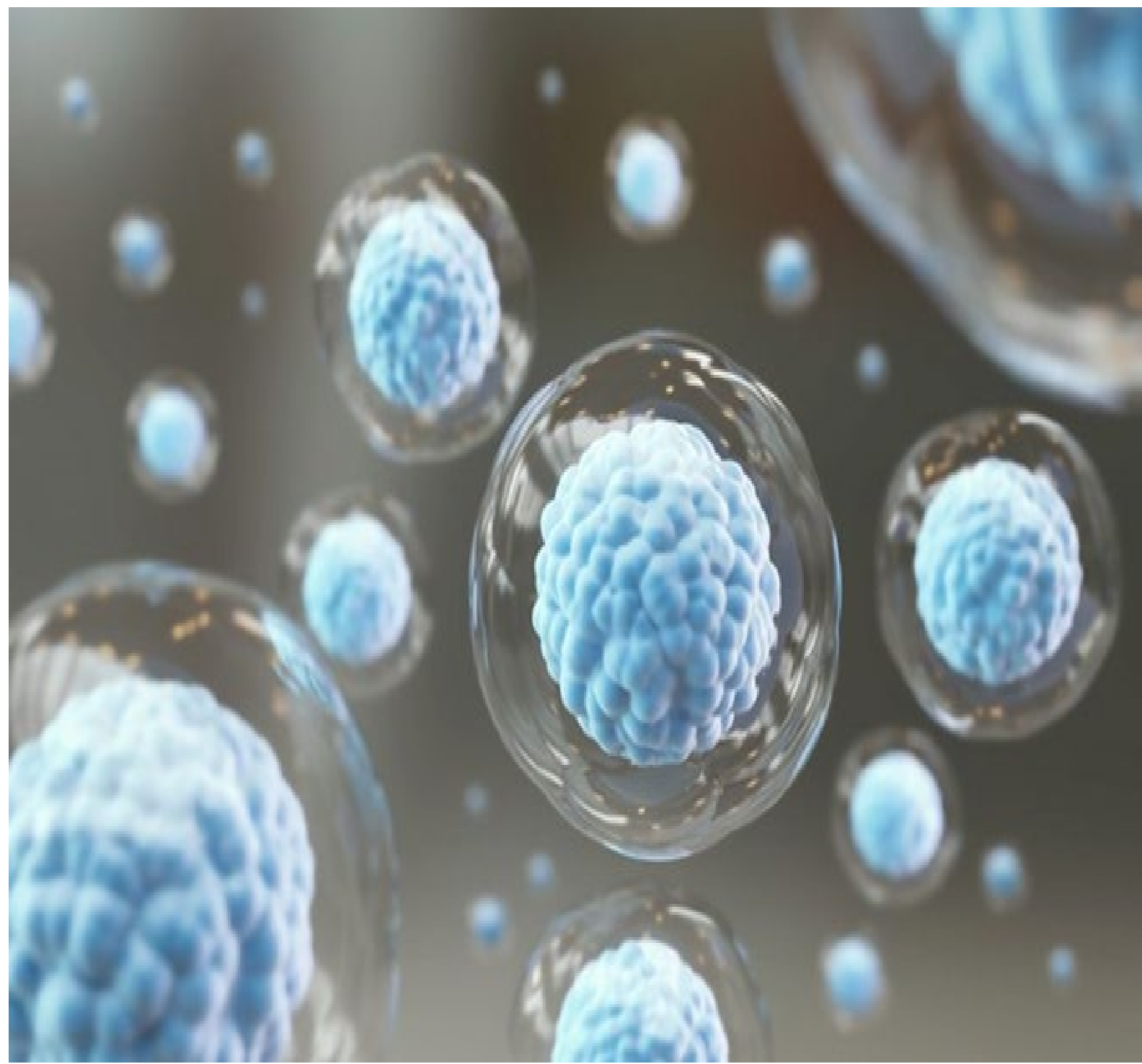


SHED Stem Cells: Antibacterial and Immunomodulatory Insights

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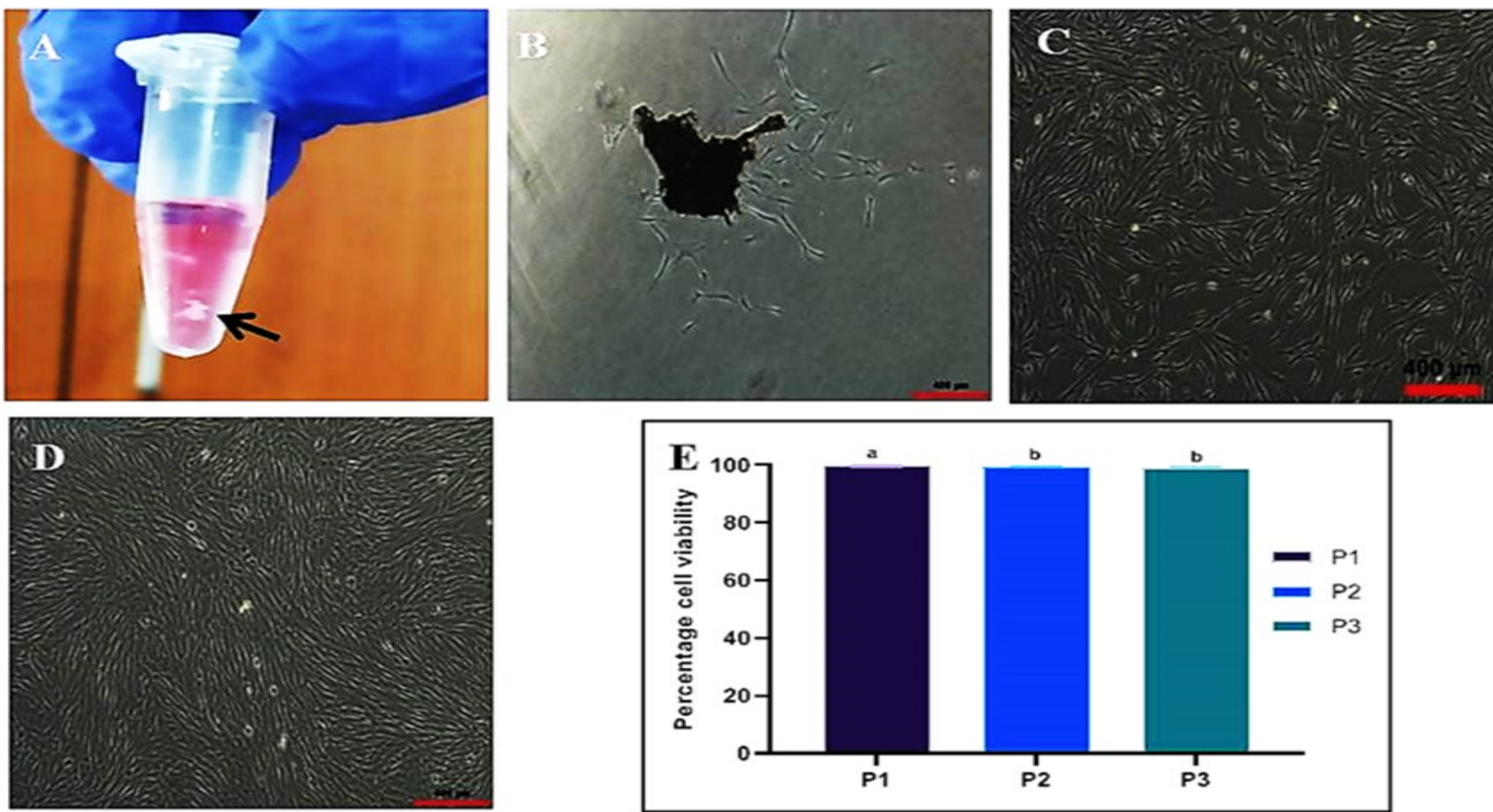
Introduction

SHED- Stem cells extracted from exfoliated teeth - resource for Stem Cell based regenerative therapy; multipotent in nature

We examined explored how SHED affects the growth of common oral bacteria, *Streptococcus mutans* and *Enterococcus faecalis*, and their role in regulating immune response

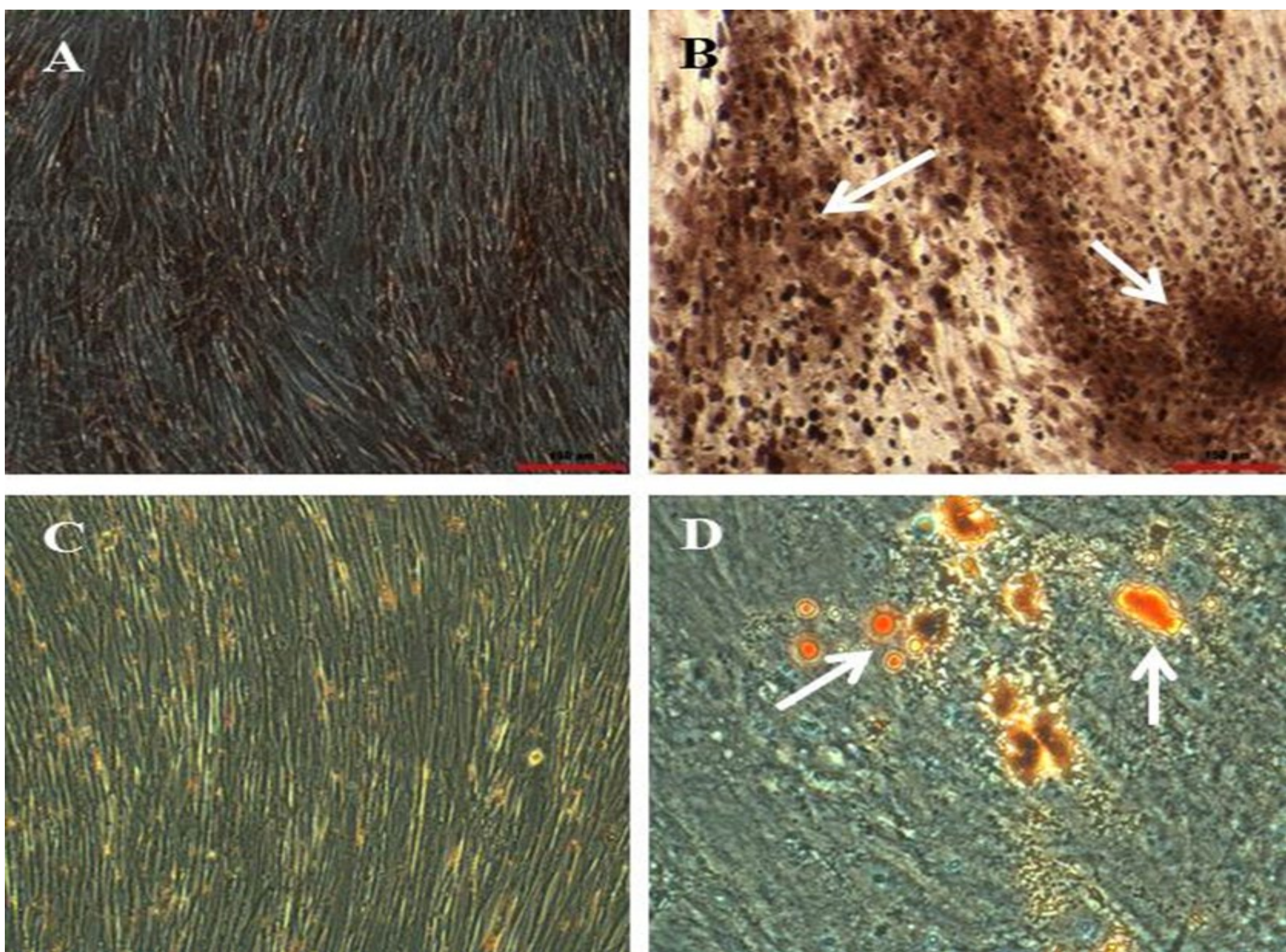
Materials and Methods

- SHEDs were obtained from deciduous teeth pulp
- Antibacterial efficacy - CFU;
- Immunomodulatory - ELISA - Cytokine levels



Results

- SHED displayed fibroblastic morphology,
- **Heightened viability;**
- **Differentiation ability** into osteocytes and adipocytes;
- **Significant reduction in *S. mutans* CFU**
- Minimal impact on *E. fecalis*;
- Stable ILs levels



Conclusion

SHED display promising antibacterial properties, and may play a role in modulating the immune system. These findings suggest SHED could be valuable in preventing or treating infections and in controlling inflammatory responses