



# 1st NATIONAL CONGRESS OF PERIODONTOLOGY

## PREDICTION-PREVENTION -PRECISION

26th - 27th JUNE 2026

Curtain raiser Webinar 16 June 2026

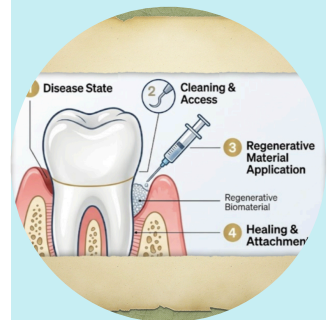
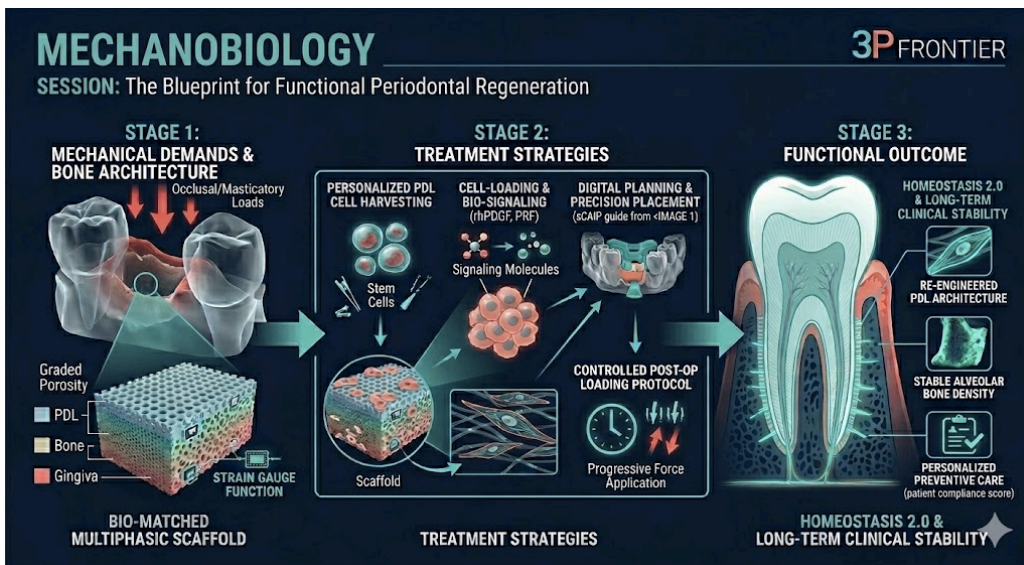
# Mechanobiology The Blueprint for Functional Periodontal Regeneration



DR R SURESH

Adjunct Faculty

IIT-MADRAS



## WHO SHOULD ATTEND ?

1

### POSTGRADUATE RESEARCHERS

Those looking to align their clinical dissertations with cutting-edge regenerative biology.

2

### PERIODONTAL CLINICIANS

Surgeons seeking to elevate the longevity of their regenerative outcomes.

3

### BIOMATERIAL ENTHUSIASTS

Innovators interested in the intersection of mechanical load and tissue-engineered scaffolds

## The Core Shift

This **WEBINAR** will highlight the importance of mechanical force on regeneration.

# The periodontium is not a static scaffold; it is a force-responsive system.

## Learn how to design for the stress of the real world."

### Key Discussion Pillars

**Beyond Defect Fill:** Moving toward the reconstruction of tissues that can withstand functional occlusal forces.

**The Biomechanical Imperative:** Replicating both the physical structure and the biomechanical behavior of the native attachment apparatus.

**Engineering the Future:** Integrating mechanobiological principles into the design of 3D-scaffolds and treatment protocols to ensure true functional restoration.

**Clinical Stability:** Leveraging mechanical force as a catalyst for regeneration to improve long-term periodontal health.

To help prepare for the "**Mechanobiology: The Blueprint for Functional Periodontal Regeneration**" webinar, here is a suggested **Pre-Webinar Reading List**. These resources will provide the necessary foundation in the biomechanics of the periodontium and current tissue engineering strategies.

1. Daghreery, A., Soares, I. P. M., Dos Reis-Prado, A. H., et al. "Advances in 3D Printed Scaffolds for Periodontal Regeneration." *Current Oral Health Reports*, 13(1):1, 2026.
2. Elrefaei, S. A., Parma-Benfenati, L., Dabaja, R., et al. "Customized 3D-Printed Scaffolds for Alveolar Ridge Augmentation: A Scoping Review of Workflows, Technology, and Materials." *Medicina*, 61(7):1269, 2025.
3. Yin, B., Dodda, J. M., Wong, S. H. D., et al. "Smart injectable hydrogels for periodontal regeneration: Recent advancements in biomaterials and biofabrication strategies." *Materials Today Bio*, 32:101855, 2025.

### Registration Details

- **Date:** 16th June 2026
- **Time:** 02:00 PM to 04: 00 PM
- **Link:** Click here : <https://tinyurl.com/periocn2026> to Register via NCP App
- **Format:** Interactive Webinar (Live Q&A included)
- **Focus:** From theoretical mechanobiology to “**Future**” chairside implementation.

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