



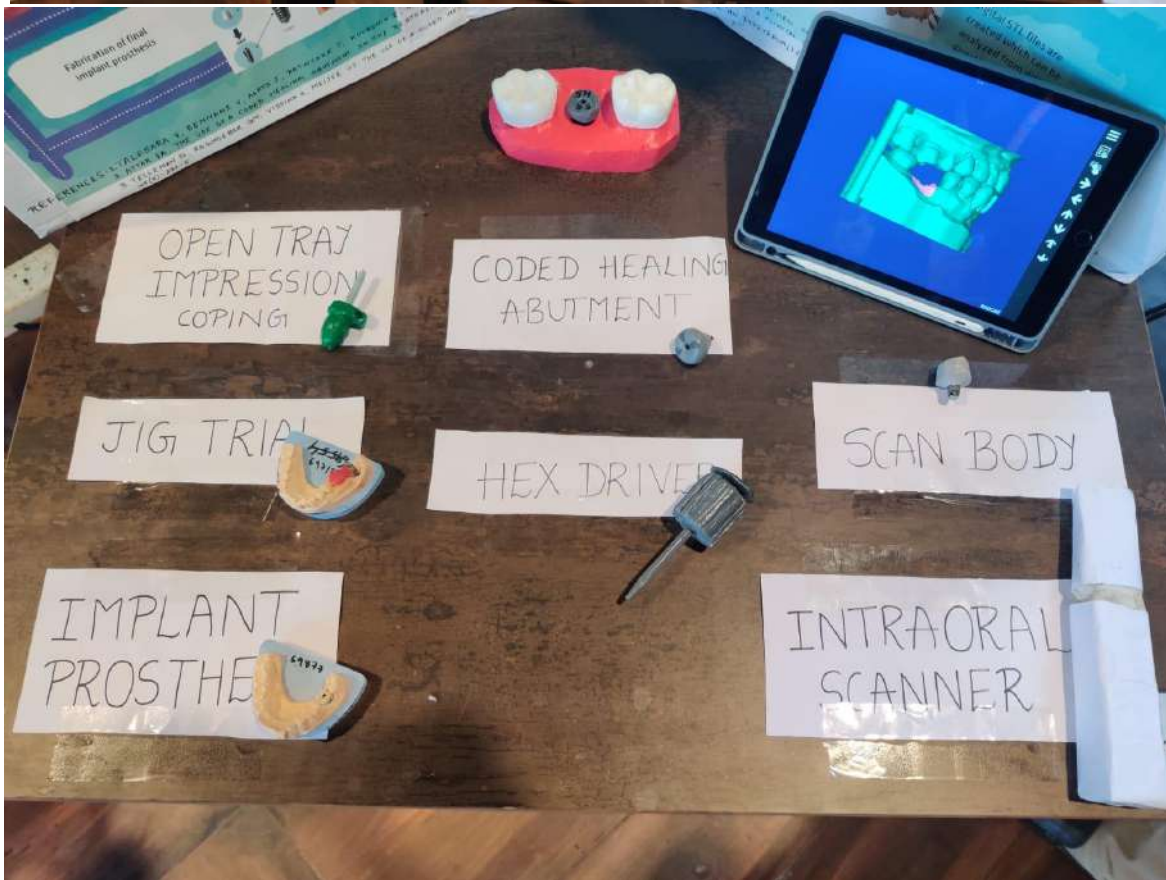
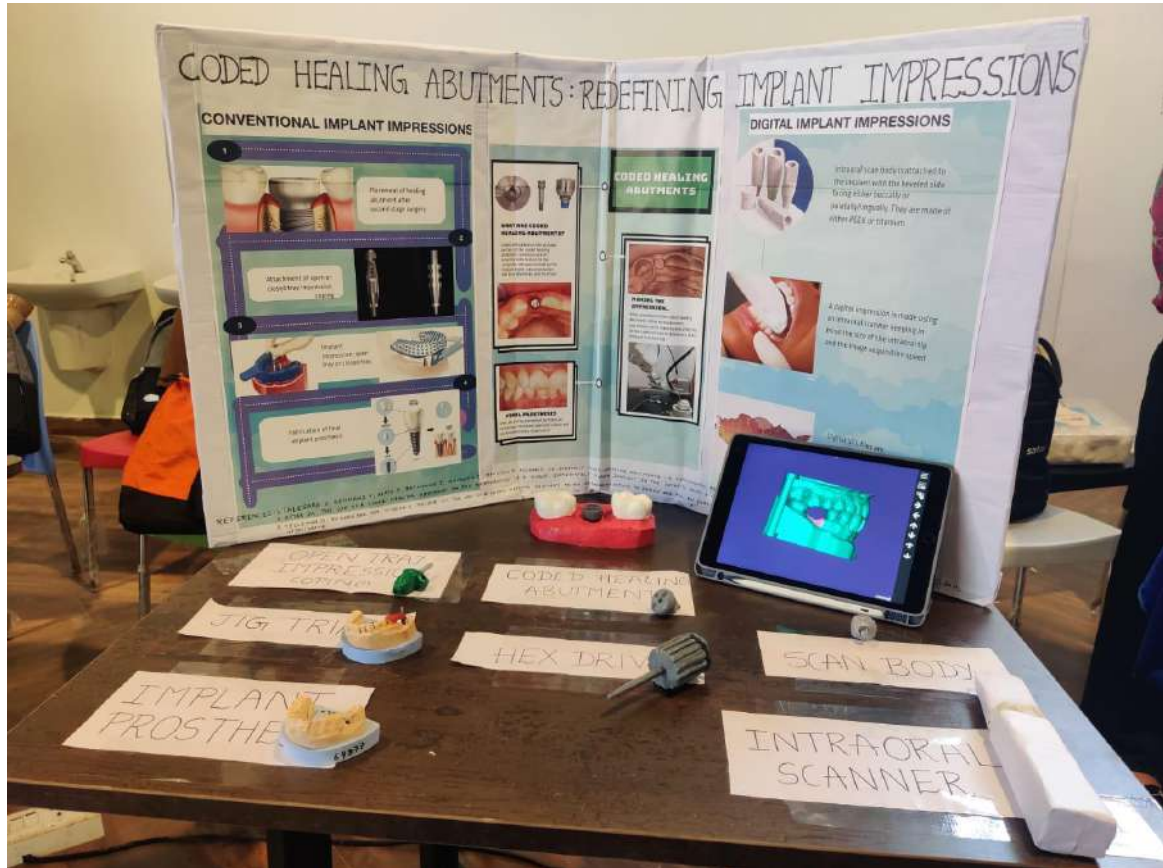
**Models made by Plaster**



**Models made by Plaster**



**Creativity by Wire Bending**



**Table Clinic**



## Table Clinic

### THE BIOENGINEERED TOOTH — STEM CELL DENTAL IMPLANTS

#### Introduction

- Stem cells are nonspecific cells with powerful self-regeneration properties and they are capable of organizing other cell types in the body
- Types - Totipotent, Pluripotent, Multipotent

#### Case Report

A research study published in the reputed *Journal of Dental Research* has discussed the possibility of using a new tissue engineering technique for growing a brand-new natural tooth by using relevant stem cells

#### Discussion

- A three-dimensional scaffold was made from safe and natural materials.
- Scaffolds were introduced into the extraction pockets created in the incisor and molar region
- Two growth factors were introduced into the scaffold, and the growth patterns were observed over time.
- After the passage of nine weeks, the scientists could see the development of the periodontal ligament, alveolar bone

#### Results and Conclusion

Like every other form of therapy, stem cell therapy is faced with the same predicament that it may not work successfully on everybody. The human body's immune system may reject foreign stem cells, and therefore, a stem cell dental implant requires some degree of compatibility for it to be successful.

Assessment of the hardness of the bioengineered tooth. Knoop microhardness values of the enamel (left) and dentin (right) of the bioengineered tooth at 11-weeks post transplantation were compared with those of normal teeth from 3- and 5-week-old mice.

Ref: Ohnishi M, Tsuji T. Whole Tooth Regeneration as a Future Dental Treatment. *Adv Exp Med Biol*. 2015;881:255-69.  
 Ikeda T, Morita K, Hatake K, Maeda K, Hakumura T, Takano-Taniguchi T, Ogiwara M, Mizuno M, Kozugai S, Tsuji T. Fully functional bioengineered tooth replacement as an organ replacement therapy. *Proc Natl Acad Sci U S A*. 2009 Aug 11;106(32):13473-80.  
 Ali LA. Stem cells: sources, and regenerative therapies in dental research and practice. *World J Stem Cells*. 2013 Aug 20;7(1):1047-53.

## Poster presentation in conference

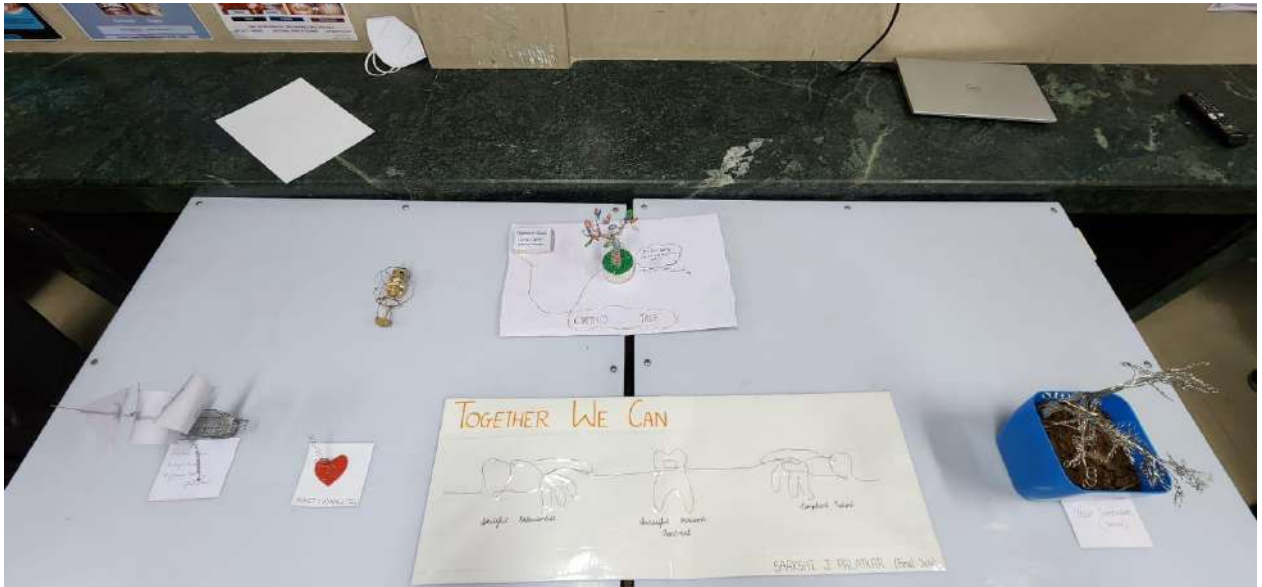
Department of Orthodontics and Dentofacial Orthopedics



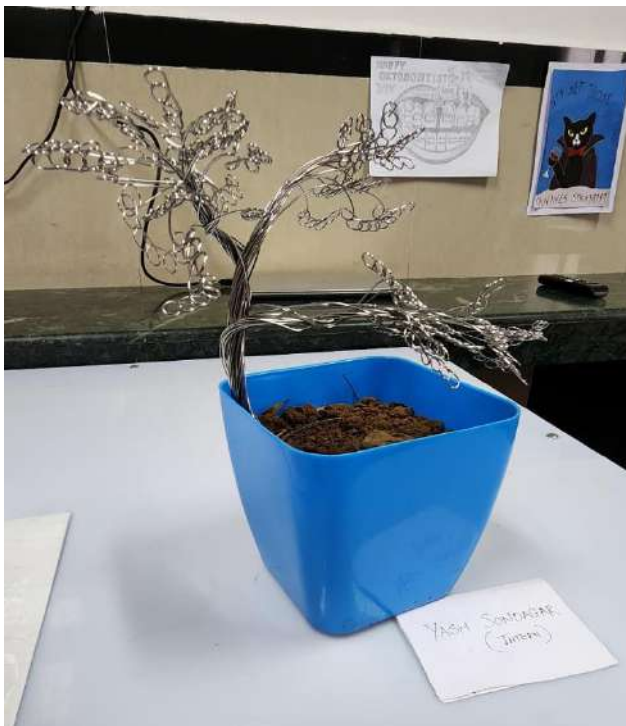
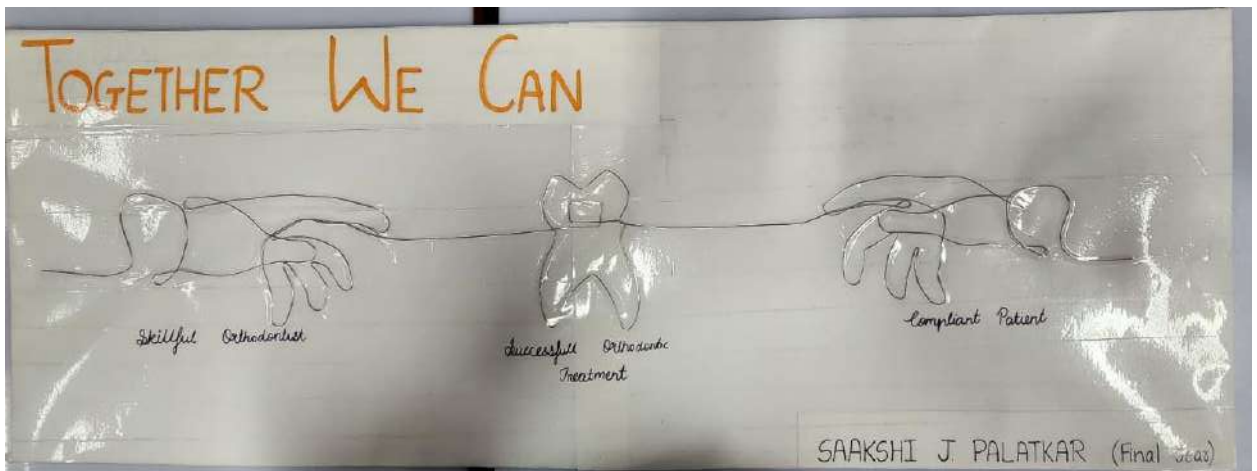
Rangoli



Wire bending

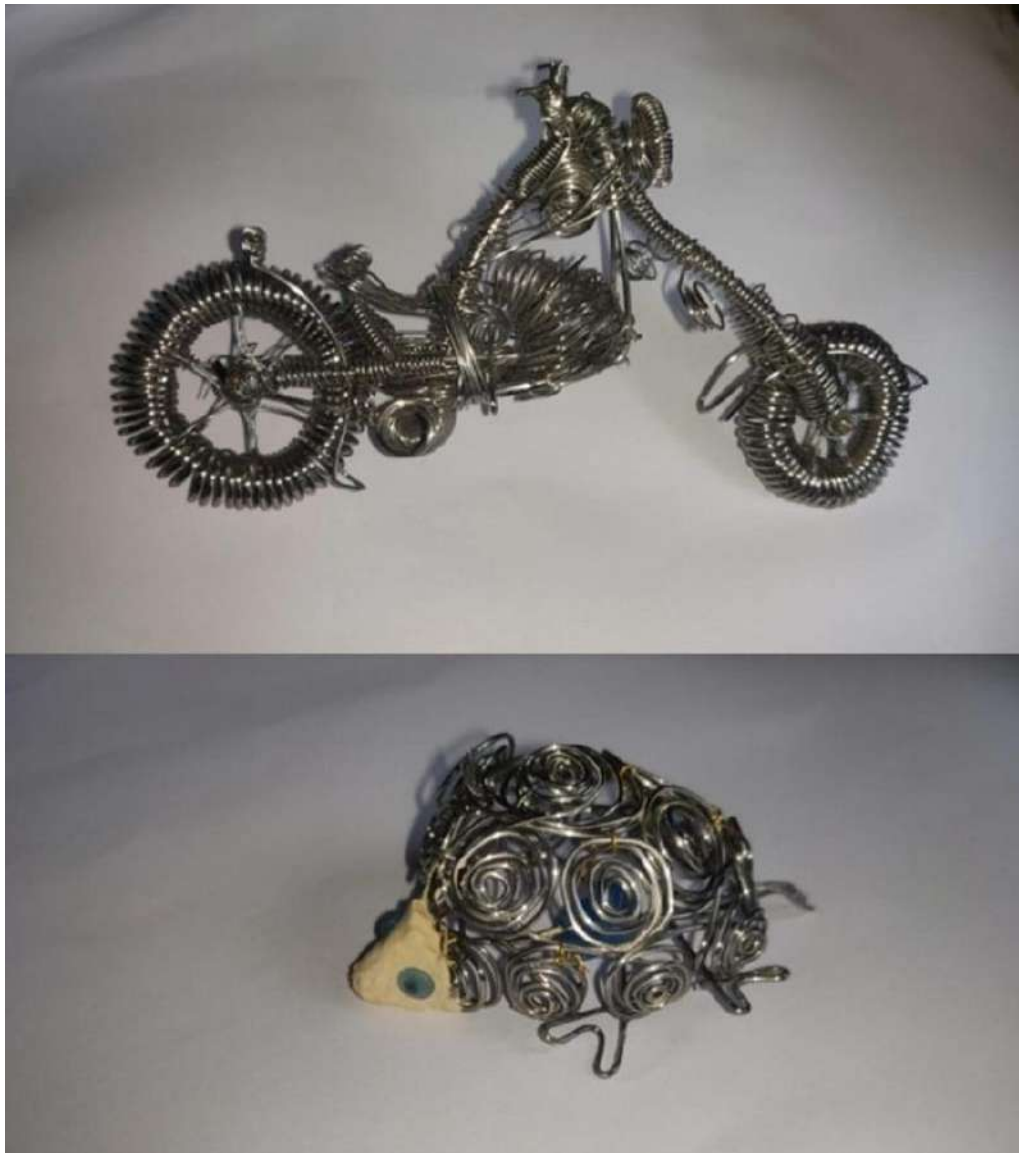


## Wire bending





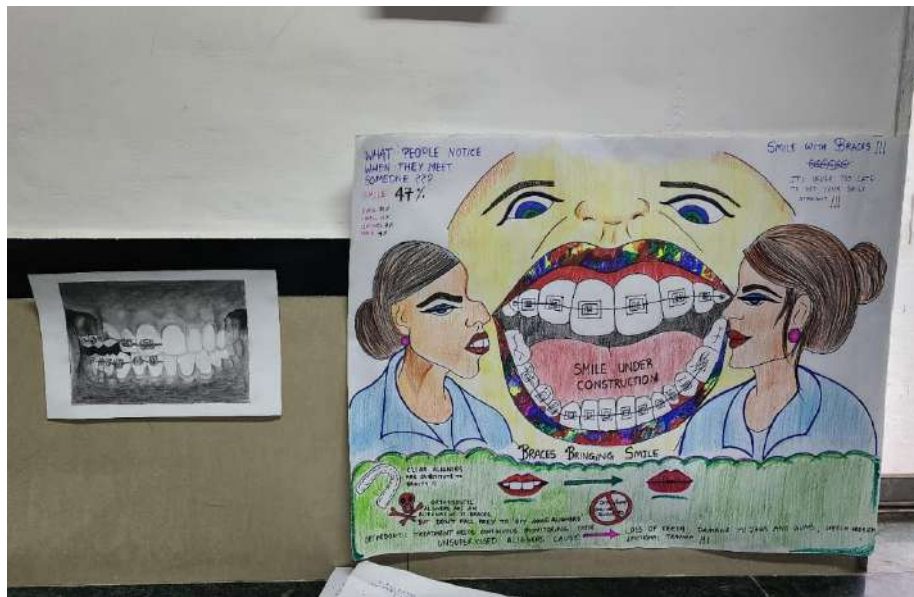
## Wire bending







**Posters making competition**





## INDIAN ORTHODONTIC SOCIETY

*Appreciates & Congratulates*

**Government Dental College & Hospital, Mumbai**

for achieving 2nd prize in Creative Wire Bending

**NATIONAL ORTHODONTIST WEEK CELEBRATION 2023**

which was aimed to create  
Orthodontic Awareness among General Public

*IOS would like to thank you for your good work,  
Together we can*

**Dr Jayesh S Rahalkar**  
President, Indian Orthodontic Society

**Dr Sanjay Labh**  
Hon Secretary, Indian Orthodontic Society

**Department of orthodontics  
and dentofacial orthopedics**



## Department of Oral Pathology & Microbiology



**GOVERNMENT DENTAL COLLEGE & HOSPITAL, MUMBAI**  
Department of Oral Pathology & Microbiology

स्वच्छ  
मुख अभियान  
सदाशुद्ध मुख नित्य  
समायवेरिया नाही जग्या

*Celebrating*  
**NATIONAL ORAL PATHOLOGIST DAY**  
25<sup>th</sup> February 2023

**ACADEMIC ACTIVITIES**

Poster Competition	23-02-2023	Individual
Soap Carving	23-02-2023	Individual
Plaster Models	23-02-2023	Group
Photography Competition	23-02-2023	Individual
Rangoli Competition	06-03-2023	Group
Face Painting	06-03-2023	Group

**Prize Distribution:- Date: 06<sup>th</sup> March, 2023 Time: 11.00 am.**

Guidelines for the competitions will be shared shortly. Kindly fill the google form attached for the registration of competitions. Do not miss this opportunity to display your talents.  
<https://forms.gle/DBn32PtCSpaAz8V7>



**Late Dr. H. M. Dholakia**  
Late Oral Chief Pathologist of India  
27 February 1916-'81 / April 2022

**Dr. Dimple Padawe**  
Senior Lecturer  
Government Dental College & Hospital, Mumbai

**Dr. Tabita Joy**  
Assistant Professor  
Department of Oral Pathology & Microbiology

**Dr. Manisha Ahire**  
Assistant Professor  
Department of Oral Pathology & Microbiology

**Dr. Yogita Athane**  
Assistant Professor  
Department of Oral Pathology & Microbiology

**Dr. Priyanka Pachpande**  
Assistant Professor  
Department of Oral Pathology & Microbiology

## Rangoli competition



## Face painting competition



## Plaster model competition



## Poster competition



## Soap carving competition





## Department of Pediatric and Preventive Dentistry

Post-graduate students of Department of Pediatric and Preventive Dentistry presented a table top presentation on Sensory Adapted Dental Environment (SADE) at Harmony 2024 – Kairos at Government Dental College and Hospital Mumbai. Dental Anxiety is associated with general dental care, the anticipation of treatment, fear of the unknown, fear of pain and relationship with dental professionals in the dental office. Children with developmental disorders experience motor, perceptual, language, sensory, cognitive, and behavioural impairments which can create difficulties in undertaking oral hygiene measures. In the regular dental setup, disabled children are sensitive and easily invoked to sensory stimuli. SADE has been developed, based upon the Snoezelen environment, and may potentially be suitable in reducing dental anxiety and facilitating a calming effect in the dental clinic among children. SADE uses a multisensory environment, a combination of mesmerising sound, good lighting, vibration, tactile sensation, and aroma. The aim of implementing these sensory adaptations is to regulate sensory responses and facilitate in the reduction of anxiety. The SADE table top model shows the modifications that are done to make a regular dental environment into a Sensory Adapted Dental Environment.





Department of Public Health Dentistry





GPS Camera Location

Mumbai Maharashtra India 33°C

Govt. Dental College and Hospital, Building, 4th Floor, St. George Hospital Compound, P

Lat: 18.94 | Long: 72.84

07/06/2024 11:13 am, IST

Fri, 7 Jun



GPS Map Camera

Mumbai, Maharashtra, India

WRRQ+325, Chhatrapati Shivaji Terminus Area, Fort, Mumbai, Maharashtra 400001, India

Lat 18.940083°

Long 72.837583°

26/09/22 11:52 AM GMT +05:30



33°

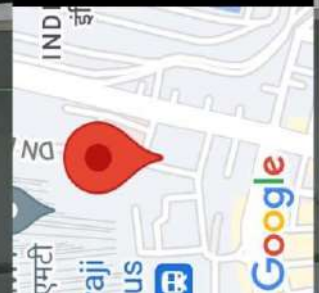
Mumbai Maharashtra India

Govt. Dental College and Hospital, Building, 4th Floor, St. George Hospital Compound, P

Lat: 18.94 | Long: 72.84

07/06/2024 11:14 am, IST

Fri, 7 Jun



## Photography competition

held on the occasion of Dr. Babasaheb Ambedkar Jayanti and Rotaract club photography competition.

Participants Dr. Shah Nida and Dr. Rashmi Ingle





## Rangoli Competition

held on the occasion of National Oral Medicine and Radiology Day.

Participants Dr. Shweta Vilvadrinath, Dr. Surabhi Srivastava, Dr. Rashmi Ingle, Dr. Nitika Aggarwal, Dr. Siddhi Rane, Dr. Anusree J