



Research Fellowships

Mani Alikhani, DMD, MS, PhD

Dr. Mani Alikhani is a faculty at Harvard School of Dental Medicine and the Forsyth Institute.

He obtained his BS in Physics, MS in Biomedical Engineering, and PhD in Molecular Biology.

He has a DMD degree from Tufts University, and a Certificate of Orthodontics from New York University.

Dr. Alikhani is renowned for his innovative approaches to accelerated tooth movement and non-surgical treatment of severe malocclusions.

Program Director





Research Fellowships



CTOR and Stevens Institute of Technology have joined forces to create the following programs:

- Fellowship in Translational Research (1 year)

- Fellowship/Master's Degree in Bioengineering (2 year)

- Fellowship/PhD programs in Biomedical Engineering or Biomedical Sciences (4 years)

If you have a strong desire to contribute to advancements in Orthodontics, then you will need rigorous training in translational research. The CTOR Fellowship in Translational Orthodontics Research will give you that training. Equally important, the MS or PhD you earn in combination with the CTOR Fellowship will give you the clinical and engineering credentials needed to succeed, whether your career goal is to lead an academia-based or practice-based Orthodontics research program.

Research Fellowships

Fellowship in Translational Research 1 Year Program

CTOR Research Fellowship includes 2 modules of 6 months each. This is a full time translational research training opportunity with exposure to didactic and hands on experience on different research methodology (histology, immunostaining, microCT, molecular biology techniques), animal research and clinical trials.

Application Deadline: May 1st, 2024

*Application fee: \$50 USD

Program Duration: September 16, 2024 to August 1, 2025

Tuition Fee: \$45,000

Research Fellowship

Fellowship in Translational Research 1 Year Program

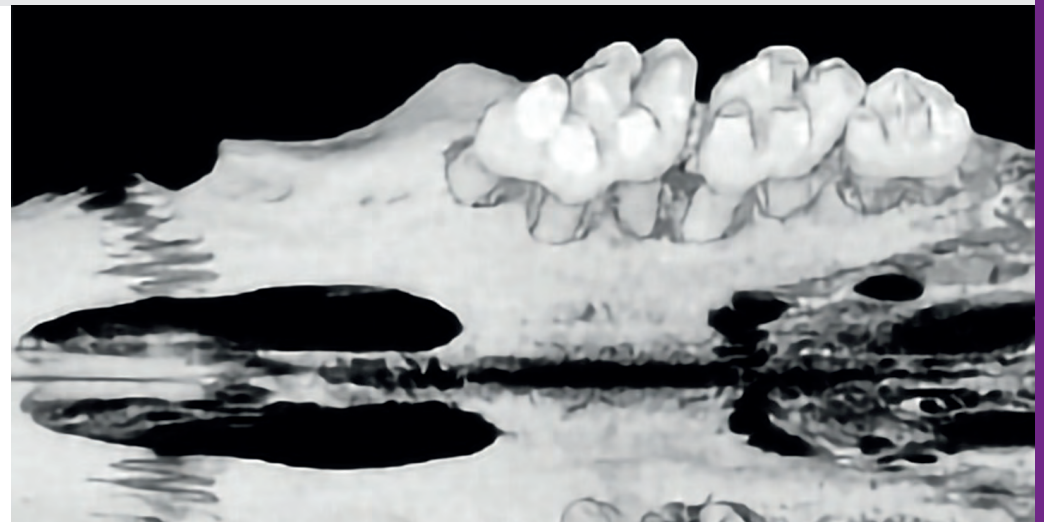
Module I: Fundamental of Research

This fellowship is designed to provide fundamental training in craniofacial and orthodontics research for clinicians that want to widen their skills and knowledge on conducting animal and clinical research, with the objective of accelerating translation of findings into clinical applications.

Course Highlights

- Research Designs and Protocol Development
- Animal research models
- Laboratory Safety
- Histology and immunostaining
- Light and Fluorescence Microscopy
- Protein Analysis
- ELISA methodology
- RNA and DNA Analysis.

Research Fellowship



Fellowship in Translational Research 1 Year Program

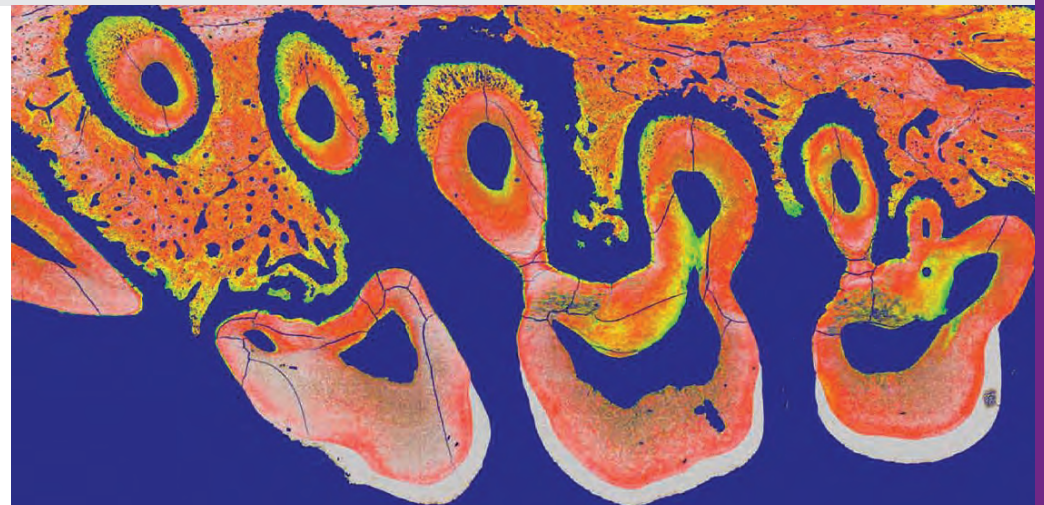
Module II: Translational Research

The translational research module utilizes the skills acquired in Module I to bridge the gap between basic science and clinical practices. Fellows will also have the opportunity to present their research results at national and international professional conferences and publish in high-impact journals

Course Highlights

- Clinical trials research
- Data analyses
- Histomorphometry
- Micro-CT Analysis
- Original publications in peer reviewed journals
- Ethics in Biomedical Research
- Grant writing skills
- Poster/Oral presentations at national & international conferences

Research Fellowship





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Orthodontics!**