

# AMI AMINI-SALARI, MD, DMD, PHD

Board-Certified Oral & Maxillofacial Surgeon

*Specialized in full scope of oral & facial surgery, implant dentistry and facial esthetics.  
Research scientist in bone tissue engineering and regeneration.*

## AFFILIATIONS

**Newton Wellesley Hospital** [Newton, MA]  
Chief, Division of Oral & Maxillofacial Surgery

**Nevins Dental Center** [Boston, MA]  
Associate Oral & Facial Surgeon

**Newton Dental Associates** [Newton, MA]  
Associate Oral & Facial Surgeon

## PROFESSIONAL AWARDS & RECOGNITIONS

<b>Top Dentist Award</b> , Boston Magazine	2020, 2021, 2022, 2023, 2024, 2025
<b>Top 10 Under 10 Award</b> , Massachusetts Dental Society	2024
<b>40 Under 40 Award</b> , Incisal Edge Magazine	2024

## EDUCATION

<b>Massachusetts General Hospital</b> Oral & Maxillofacial Surgery Residency	2014 – 2020
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<b>Harvard Medical School</b> MD	2015 – 2017
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<b>University of Connecticut Health Center</b> DMD	2007 – 2014
PhD (Concentration: Skeletal, Craniofacial and Oral Biology)	2009 – 2013

<b>Stony Brook University</b> BA (Biochemistry, Summa Cum Laude Distinction)	2004 – 2007
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## AFFILIATIONS

<b>American College of Oral &amp; Maxillofacial Surgeons</b>	Diplomate
<b>American Association of Oral &amp; Maxillofacial Surgeons</b>	
<b>Massachusetts Dental Society</b>	

## SERVICE

Mission of Mercy, Massachusetts	2025
Mission of Mercy, Connecticut	2013, 2014

## PRESENTATIONS

***Full Arch Immediate Loading with Zygomatic and Pterygoid Implants.*** Invited Speaker, Massachusetts General Hospital- Harvard Oral & Maxillofacial Surgery Grand Rounds. November 19 2025.

***Remote Anchorage All-on-X Approach using PATZI Protocol in Full Arch Rehabilitation: Interactive 2-Day Cadaver Course.*** Invited Lecturer, Noris Medical. Dallas TX. March 15-16, 2025.

***Full Arch Immediate Loading with Zygomatic and Pterygoid Implants.*** Invited Speaker, Massachusetts General Hospital Oral & Maxillofacial Surgery Grand Rounds. Boston, MA. October 4 2024.

***Full Arch Immediate Loading with Zygomatic and Pterygoid Implants.*** Invited Lecturer, Noris Medical. Boston MA. December 14 2023.

## CERTIFICATES

<b>Basic Life Support</b>	Present - 2027
<b>Advanced Cardiovascular Life Support</b>	Present - 2027
<b>Pediatric Advanced Life Support</b>	Present - 2027

## RESEARCH EXPERIENCE

### **PhD Thesis**

Cato Laurencin, MD, PhD (Orthopaedic Surgery, UConn) 2009 – 2013

NIH Individual F30 Fellowship

Thesis: Optimal Biodegradable Scaffolds and Progenitor Cells for Effective Bone Regeneration

Aim: To develop an optimized biodegradable scaffold, seeded with clinically- relevant progenitor cells to promote enhanced bone regeneration and vascularization.

Mina Mina, DMD, PhD (Pediatric Dentistry, UConn) 2009

NIH T32 Institutional Fellowship

### **Howard Hughes Medical Institute (HHMI) Fellowship**

2006 – 2007

Lorne Golub, DMD, MD (Periodontology, Stony Brook University)

### **Regeneron Pharmaceuticals**

David Glass, MD (Regeneron Pharmaceuticals) 2001 – 2007

## UNITED STATES PATENTS

Nukavarapu SP, Laurencin CT, **Amini AR**. Gradient porous scaffolds. US Patent App. 14/136,410.

## **PUBLICATIONS**

### **Research Manuscripts**

**Amini-Salari AR**, Glomski K, Ahn D, Tannyhill RJ. (2020) Case Report: Mandibular Intraosseous Angiofibroma – A Rare Clinical Entity. J Oral Maxillfacial Surgery.

**Amini AR**, Xu TO, Chidambaram R, Nukavarapu SP. (2016). Oxygen Tension Controlled Matrices with Osteogenic and Vasculogenic Cells for Vascularized Bone Regeneration *in vivo*. Tissue Engineering Part A. 2016

Mikael PE, **Amini AR**, Basu J, Arellano-Jimenez M, Sanders MM, Laurencin CT, Carter BC, Nukavarapu SP. (2013) Functionalized Carbon Nanotube Reinforced PLGA Scaffolds for Bone Regenerative Engineering: Fabrication, *in vitro* and *in vivo* Evaluation. Biomedical Material. 9(3). 2014.

**Amini AR**, Laurencin CT, Nukavarapu SP. (2012) Differential analysis of peripheral blood- and bone marrow-derived endothelial progenitor cells for enhanced vascularization in bone tissue engineering. J Orthop Res. 2012 Sep;30(9):1507-15.

**Amini AR**, Adams D, Laurencin CT, Nukavarapu SP. Optimally Porous and Biomechanically Compatible Scaffolds for Large Area Bone Regeneration. Tissue Engineering. 2012 Jul;18(13-14):1376-88.

**Amini AR**, Laurencin CT, Nukavarapu SP. (2012) Differential analysis of peripheral blood- and bone marrow-derived endothelial progenitor cells for enhanced vascularization in bone tissue engineering. J Orthop Res. 2012 Sep;30(9):1507-15.

Nukavarapu SP, **Amini AR**. (2011) Optimal scaffold design and effective progenitor cell identification for the regeneration of vascularized bone. Conf Proc IEEE Eng Med Biol Soc. 2011: 2464-7.

Latres E, **Amini AR**, Amini, AA. et al. (2005) Insulin-like Growth Factor (IGF-1) Inversely Regulates Atrophy-induced Genes via the Phosphatidylinositol 3-Kinase/Akt/Mammalian Target of Rapamycin (PI3K/Akt/mTOR) Pathway. Journal of Biological Chemistry. 280 (4): 2737-44.

### **Review Papers**

**Amini AR**, Laurencin CT, Nukavarapu SP. (2012) Bone Tissue Engineering: Recent Advances and Challenges. Crit Reviews BME. 40(5): 363–408.

**Amini AR**, Wallace JS, Nukavarapu SP. (2011) Short-term and long-term effects of orthopedic biodegradable implants. J Long Term Eff Med Implants. 21(2):93-122.

### **Book Chapters**

**Amini AR**, Laurencin CT, Nukavarapu SP. Chapter 580. Tissue Engineering of Skeletal Tissues. In: Luginbuehl R and Hofstetter W, editors. Encyclopedia of Human Biology 3rd Edition. Oxford: Elsevier; 2013. [In preparation]

Igwe J, **Amini AR**, Mickael P, Nukavarapu SP, Laurencin CT. Nanostructured scaffolds for Bone Tissue

Engineering. In: Zilberman M, editor. Studies in Mechanobiology, Tissue Engineering and Biomaterials. Verlag Berlin Heidelberg: Springer; 2011.

## Abstracts

**Amini AR**, Laurencin CT, Nukavarapu SP. Implantation of Autologous Endothelial Progenitor Cells (EPCs) as a Conduit for Enhanced Vascularized Bone Regeneration. AAOMS 95th Annual Meeting. Orlando, FL. October 2013. [**Oral Presentation**]

**Amini AR**, Laurencin CT, Nukavarapu SP. Peripheral blood-derived endothelial progenitor cells for vascularized bone tissue engineering. Tissue Engineering and Regenerative Medicine Society- Europe (TERMIS-EU 2013). Istanbul, Turkey. June 17-20, 2013. [**Oral Presentation**]

**Amini AR**, Laurencin CT, Nukavarapu SP. Scaffold Optimization and Pre-Vascularization Strategies for Large-Area Bone Regeneration. Society for Biomaterial Annual Meeting. Boston, MA. April 10-13, 2013. [**Oral Presentation**]

**Amini AR**, Laurencin CT, Nukavarapu SP. Effective Progenitor Cell Populations for Vascularized Bone Tissue Engineering. International Association for Dental Research (IADR)/American Association for Dental Research (AADR). Seattle, WA. March 20-23, 2013. [**Oral Presentation**]

**Amini AR**, Laurencin CT, Nukavarapu SP. Oxygen Tension Controlled Matrices For Enhanced Bone Tissue Engineering. Biomedical Engineering Society (BMES) 2012 Annual Meeting. Atlanta, GA. October 24-27, 2012. [**Oral Presentation**]

**Amini AR**, Laurencin CT, Nukavarapu SP. Pre-Vascularization of Optimally-Porous Scaffolds for Enhanced Vascularization and Bone Formation In Vivo. Society for Biomaterial 2012 Fall Symposium. New Orleans, LA. October 4-7, 2012. [**Oral Presentation**]

**Amini AR**, Laurencin CT, Nukavarapu SP. Development and Evaluation of Optimized Scaffolds Pre-seeded with Effective Progenitor Combination for Vascularized Bone Regeneration. Orthopaedic Research Society (ORS) Conference. San Francisco, CA. February 4-7, 2012.

Igwe J, **Amini AR**, Nukavarapu SP. Fabrication and Evaluation of a Novel Scaffold System with High-Density Cell Seeding for Bone Regeneration: An Investigation of Cell Density Enhanced Osteogenic Expression. Orthopaedic Research Society (ORS) Conference. San Francisco, CA. February 4-7, 2012.

**Amini AR**, Laurencin CT, Nukavarapu SP. Comparative Analysis of Endothelial Progenitor Cells Isolated from Peripheral Blood and Bone Marrow for Enhanced Vascularization in Bone Tissue Engineering Applications. Tissue Engineering and Regenerative Medicine Society (TERMIS) Conference. Houston, TX. December 11-14, 2011. [**Oral Presentation**]

Mikael PE, **Amini AR**, Igwe J, Nukavarapu SP. Carbon Nanotubes composite scaffolds for Bone Tissue Engineering: Mechanical and In Vivo Investigation. Biomedical Engineering Society (BMES) Conference. Hartford, CT. October 12-15, 2011.

Nukavarapu SP, **Amini AR**. Optimal Scaffold Design and Effective Progenitor Cell Identification for the Regeneration of Vascularized Bone. 33rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Boston, MA. August 30-September 3, 2011. [**Oral Presentation**]

**Amini AR**, Laurencin CT, Nukavarapu SP. Design and Characterization of Fully Osteoconductive Scaffolds for Homogeneous and Enhanced Bone Regeneration. Society for Biomaterials Conference. Orlando, FL. April 13-16, 2011. [**Oral Presentation**]

**Amini AR**, Mikael P, Adams D, Laurencin C, Nukavarapu S. Design and Characterization of Fully Osteoconductive Scaffolds for Homogeneous and Enhanced Bone Regeneration. Orthopaedic Research

Society (ORS) Conference. Long Beach, CA. January 13-16, 2011.