

PATRICK Y. KIM

EMPLOYMENT

University of South Florida and Tampa General Hospital, Tampa FL August 2023- Current
Assistant Professor, Department of Neurosurgery

EDUCATION and TRAINING

University of Washington Medical Center and Harborview Medical Center, Seattle WA July 2022-June 2023
Spine Surgery Fellowship, Acting Instructor Faculty

University of Mississippi Medical Center, Jackson MS July 2015-June 2022
Neurological Surgery Residency

Louisiana State University School of Medicine, New Orleans LA July 2011-June 2015
Doctor of Medicine

Tulane University, New Orleans LA 2006-2011

Master of Science, Cell and Molecular Biology

Bachelor of Science, Cell and Molecular Biology

Bachelor of Science in Management, Minor: Business

State University of New York, Binghamton NY 2003-2006

LICENSURE

American Board of Neurological Surgery Written Board Exam: Passed March 2017

United States Medical Licensing Exam Step 1, 2, 3: Passed 2013-2015

WORK EXPERIENCE

Employment in Strategic division, SK Chemicals Seoul Korea Spring 2009- 2010

Research Fellow Development Biology, Tulane University New Orleans LA Fall 2010- 2012

HONORS and LEADERSHIP

Reviewer, World Neurosurgery Spine Section 2020-Current

Reviewer, Journal of Minimally Invasive Spine Surgery and Technique 2022-Current

Medical Neuroscience & behavior I Instructor, University of Mississippi Medical Center Fall 2020-2022

CNS Annual Meeting Best Pain Basic Science Poster Abstract Presentation 2019

NSRF Best Oral Presentation in Neuroscience & Cell Biology April 2014

NSRF First Place in Poster Presentation April 2014

LSU School of Medicine Admissions Committee 2014- 2015

Governing Council, Louisiana Medical Society Student Section Fall 2011- 2014

Board of Governor, Louisiana Medical Political Actions Committee Fall 2011- 2014

Delegate, Louisiana Medical Society Orleans Parish Fall 2011- 2014

Cum Laude, Tulane University Spring 2008

RESEARCH EXPERIENCE

Ken Muneoka, Ph.D. Tulane University, New Orleans LA Spring 2007-Present

· Investigating mouse limb development and mobilizing bone precursor cells using BMP.

· Built transgenic DNA plasmid constructs for generating conditional transgenic mice.

T.J. Yoo, M.D. University of Tennessee, Memphis TN Summer 2004- 2006

· Restored β -tubulin-induced hearing loss of mice by adoptive cellular gene therapy.

· Generated knockout mice and its recovery of hearing loss.

TEACHING EXPERIENCES

AHA Basic Life Support Instructor, LSU School of Medicine Fall 2011- 2014

Medical Gross Anatomy Tutor, LSU School of Medicine Fall 2011

Head and Neck Anatomy Teaching Assistant, Tulane University Fall 2010

Gross Anatomy Teaching Assistant, Tulane University Spring 2011

Calculus Based Physics Teaching Assistant, Binghamton University Spring 2006

PUBLICATIONS and BOOK CHAPTERS

Alvernia JE, Cespedes J, **Kim P**, Simon E, Luzardo G. From the Single Adamkiewicz Artery Belief to the Evidence of an Arterial Collateral Spinal Network. World Neurosurg. 2022 Nov 13:S1878-8750(22)01576-5. doi: 10.1016/j.wneu.2022.11.034. Epub ahead of print. PMID: 36494316.

Alvernia JE, Simon E, Khandelwal K, Ramos CD, Perkins E, **Kim P**, Mertens P, Messina R, Luzardo G, Diaz O. Anatomical study of the thoracolumbar radiculomedullary arteries, including the Adamkiewicz artery and supporting radiculomedullary arteries. J Neurosurg Spine. 2022 Sep 23:1-9. doi: 10.3171/2022.5.SPINE2214. Epub ahead of print. PMID: 36152330.

L Dawson, R Brunauer, K Zimmel, P Qureshi, A Falck, **P Kim**, C Dolan, L Yu, Y Lin, B Daniel, M Yan, K Muneoka. Adult Mouse Digit Amputation and Regeneration: A Simple Model to Investigate Mammalian Blastema Formation and Intramembranous Ossification. Jove. 149. DOI:10.3791/59749, 7/12/2019

Patrick Kim, Gustavo Luzardo, Jorge Alvernia. Neurosurgery Case Review second edition, Guideline for lumbar disc herniation. Thieme. 2020

Kim HS, Singh R, Adsul NM, Oh SW, Noh JH, **Kim PY**, Park JH, Park CH, Jang IT. Symptomatic Tuberculous Ligamentum Flavum Cyst Treated by Full Endoscopic Resection: Review with Technical Notes. World Neurosurg. 2019 Feb;122:112-115. doi: 10.1016/j.wneu.2018.10.141. Epub 2018 Nov 1. PMID: 30391612.

Lindsay Dawson, Paula Schanes, **Patrick Kim**, Ken Muneoka. Blastema formation and periosteal ossification in the regenerating adult mouse digit. Wound Repair and Regeneration. 8/16/2018

Anthony DiGiorgio, **Patrick Kim**, Lindsay Lasseigne, Jared Rovichaux. Penetrating, non-ballistic head trauma: a case series & surgical techniques. JNS16-2181

Bin Zhou, Mohammad Habiby Kermany, Chun Cai, Qing Cai, Jun Woo Kim, **Patrick Kim**, Wenxia Liu, and Tai June Yoo. Murine autoimmune hearing loss mediated by CD4⁺ T cells specific for β -tubulin. Clinical Immunology Vol 138, Issue 2, Feb 2011

ABSTRACTS

Patrick Kim, Andrew Smith, Imad Khan, Hyeun Sung Harrison Kim, Christoph Hofstetter. Endoscopic Treatment of Lateral Recess and Foraminal Stenosis Arising from Fractional Curve. KASS Annual meeting 2023

Patrick Kim, Andrew Smith, Zach Smalley, Allison Strickland, Gustavo Luzardo, Jason Tullis, Jared Marks, Chad Washington. Simplifying Cervicothoracic Instrumentation with Free-Hand T1 Pedicle Screw Technique. SNS Annual Meeting 2022

Patrick Kim, Kenneth Winter, Andrew Smith, Zachary Smalley, Kristin Weaver, Mason Shifflett, Jason Tullis. Sublaminar Sutures for Stabilization and Fusion of a C3-4 Fracture Dislocation in a 11-Month-Old Infant. CNS Annual Meeting 2021. Abstract Number 490

Patrick Kim, Zachary Smalley. Anatomical Characteristics of the Artery of Adamkiewicz: A Cadaveric Study. CNS Annual Meeting 2019. Abstract Number 4098

Andrew Smith, **Patrick Kim**, Zachary Smalley. Implementation of a Spinal Surgical Preparation Protocol at an Academic Medical Center: A Quality Improvement Project. CNS Annual Meeting 2019. Abstract Number 4054

Karen Wang, Stephen Lee, Michael Hafertepe, **Patrick Kim**, Ken Muneoka. Role of NG2 expressing cells in terminal phalanx regeneration. EMBO regeneration conference 2012

Patrick Y Kim, Lindsay Dawson, Darren Cheng, and Ken Muneoka. The Role of Osteoblasts in Digit Regeneration in Mice. National Student Research Forum 2014

PRESENTATIONS

Patrick Kim, Kenneth Winter, Andrew Smith, Zachary Smalley, Kristin Weaver, Mason Shifflett, Jason Tullis. Sublaminar Sutures for Stabilization and Fusion of a C3-4 Fracture Dislocation in a 11-Month-Old Infant. CNS Annual Meeting 2021. Abstract Number 490

Patrick Kim, Jorge Alvernia. Systematic Anatomical Study of the Adamkiewicz artery and the accessory Thoracic and Lumbar Hairpin spinal cord branches. CNS Annual Meeting 2019. Best Pain Basic Science Poster Abstract Presentation

Patrick Y Kim, Lindsay Dawson, Darren Cheng, and Ken Muneoka. The Role of Osteoblasts in Digit Regeneration in Mice. National Student Research Forum 2014 (poster)

Patrick Y Kim, Lindsay Dawson, Darren Cheng, and Ken Muneoka. The Role of Osteoblasts in Digit Regeneration in Mice. LSU Medical Student Research Day 2013 (poster)

Bin Zhou, Mohammad Habiby Kermany, Chun Cai, Qing Cai, Jun Woo Kim, **Patrick Kim**, Wenxia Liu, and Tai June Yoo. β -tubulin-induced Autoimmune Hearing Loss Exacerbates in IL-10-deficient Mice and Restores by IL-10 Gene Transfer. FOCIS 2007 Annual Meeting, San Diego (poster)

Bin Zhou, Jonathan Glickstein, Mohammad Habiby Kermany, Chun Cai, Qing Cai, Jun Woo Kim, **Patrick Kim**, Wenxia Liu, and Tai June Yoo. Characterization of Immune Response in β -tubulin Induced Murine Experimental Autoimmune Hearing Loss. AAI 2007 Annual Meeting, Miami Beach (poster)

Bin Zhou, Mohammad Habiby Kermany, Chun Cai, Qing Cai, Jun Woo Kim, **Patrick Kim**, Sang Soo Lee, Wenxia Liu, Tai June Yoo. DNA Vaccination with Cockroach Allergen Bla g 1 on the Allergic Airway Inflammation. (poster)

Bin Zhou, Mohammad Habiby Kermany, Chun Cai, Qing Cai, Ingo.H. Tärner, C.G. Fathman, S. S. Lee, **Patrick Kim**, June. Woo. Kim, Tai June Yoo. Restoration Of Immune Mediated Hearing Loss By Adoptive Cellular Gene Therapy. FOCIS 2006 Annual Meeting, San Francisco (poster)

Bin Zhou, Jonathan Glickstein, Jaechun Lee, Mohammad Habiby Kermany, Qing Cai, Jun Zhang, Chun Cai, Wenxia Liu, Jun Woo Kim, **Patrick Kim**, Tai June Yoo. Characterization of immune response in β -tubulin induced murine autoimmune hearing loss. Federation of clinical immunology societies 2005 annual meeting