



ABASS CONTEH MD/PHD

Radiation Oncologist

Summary

Radiation Oncology resident with extensive experience in clinical oncology, research, and mentorship. Skilled in advanced radiation techniques, SBRT, SRS and HDR brachytherapy from a comprehensive Radiation Oncology residency at Stanford. Demonstrated research expertise in tumor biology, DNA damage response, and innovative training tools using AI for resident education. Committed to advancing oncology care through evidence-based practice, research, and technology-driven educational approaches.

Education

Stanford University	Palo Alto, CA
Residency Radiation Oncology	06/2022 - 06/2026
Indiana University School of Medicine (IUSM)	Indianapolis, IN
Doctor of Medicine	2021
Indiana University School of Medicine (IUSM)	Indianapolis, IN
Doctor of Philosophy	2019
Purdue University	West Lafayette, IN
Bachelor of Science	2011

HONORS & AWARDS

Biochemistry Certificate of Excellence — Biochemistry Certificate of Excellence in Research: IUSM, Indianapolis, IN	
Annual Diabetes Symposium Certificate of Excellence	— Annual Diabetes Symposium certificate of excellence in research: IUSM, Indianapolis, IN
ENDO Annual Meeting & Expo Abstract Travel Award	— ENDO Annual Meeting & Expo Abstract Travel Award: Endocrine Society, Chicago, OH
APSA 2016 Travel Award — APSA 2016 Travel Award: American Physician Scientist Association, Chicago, OH	
Cardiovascular Research Recognition Award — Cardiovascular Research Recognition Award: Experimental Biology, San Diego, CA	
Experimental Biology Travel Award — Experimental Biology Travel Award: Experimental Biology, San Diego, CA	
Health Sciences Distinguished Student — Health Sciences Distinguished Student: Purdue University, West Lafayette, IN	

Skills

Radiation Oncology Techniques: IMRT, VMAT, SBRT, HDR Brachytherapy, Eclipse, Aria, MIM

Research Expertise: Molecular Biology, FLASH Radiation, Oxidative Stress, Animal Research

Projects

RadOnc Smart Learn - AI-Enhanced Radiation Oncology Board Exam Preparation Tool https://radoncsmartlearn.com/	Stanford University 2024 - Present
Developed an AI-powered interactive training application to simulate Radiation Oncology oral board exams, providing real-time scenarios, adaptive questioning, and performance assessment	

Projects

Differential Impact of FLASH versus Conventional Radiation on Tumor Genesis and DNA Damage Responses	Stanford University
Evaluated the contrasting effects of FLASH versus conventional radiation on tumorigenesis and DNA damage in C57BL6 mice	2024 - Present
The Role of Lipoyxygenase and Interleukin-6 on Islet β -Cell Oxidative Stress and Dysfunction	Indiana University School of Medicine
	01/2017 - 01/2019
Concomitant Targeting of Met and Epidermal Growth Factor Receptor in Pancreatic Cancer	Indiana University School of Medicine
	01/2015 - 01/2017
Cardiovascular effects of the Glucagon like peptide1 receptor activation in lean and obese animals	Indiana University School of Medicine
	01/2013 - 01/2014
A case study of dislodgeable residues from lawns and urinalysis of children and dogs from 30 households using lawn care services.	Purdue University
	01/2009 - 01/2009
Altered Taste Preferences for Sweet in Dietary Obese Rat fed with High Fat or High Carbohydrate Diets.	Penn State Medical College
	01/2009 - 01/2009
Analysis of CRIPT loss of function mutants	Purdue University
	01/2007 - 01/2007

Volunteering

Tutoring for the Purdue HORIZONS student support Program	
Provided tutoring to Freshmen and Sophomores for Biology and Chemistry	2009 - 2011
Student Outreach Clinic	
Volunteered at IUSM Free Student Health Clinic	2011 - 2013
Hanover Day	
Served on a panel to discuss research experiences and encouraged Hanover college students to engage in research	2017 - 2019
Undergraduate independent study Mentor	
Mentored and supervised an Undergraduate biomedical engineering student in completing research thesis	2016 - 2017
Riley Children's Foundation Research Gives Hope	
Performed demonstrations of research to raise funding for pediatric research	2017 - 2019
Regeneron Mentor	
Mentored and supervised high school students engaged in Research	2018 - 2019
The Bloom Project	
Mentor for at risk young males, ages 12-18 in Indiana	2019 - 2020
American Physician Scientists Association Mentor for Undergraduates	
Mentor for undergraduate students interested in applying to medical school especially those pursuing MD/PhD programs	2019 - 2020

Publications

- Journal of Biological Chemistry, DOI:10.1074/jbc.RA118.007102 02/2019
Platelet-type 12-lipoxygenase deletion provokes a compensatory 12/15-lipoxygenase increase that exacerbates oxidative stress in islet β -cells
•Abass M. Conteh, Christopher A. Reissaus, Marimar Hernandez-Perez, Swetha Nakshatri, Ryan M. Anderson, Raghavendra G. Mirmira, Sarah A. Tersey, Amelia K. Linnemann
- Diabetes 05/2018; 67(8):db171280., DOI:10.2337/db17-1280 05/2018
Interleukin-6 Reduces β -Cell Oxidative Stress by Linking Autophagy With the Antioxidant Response
•Michelle R. Marasco, Abass M. Conteh, Christopher A. Reissaus, John E. Cupit V, Evan M. Appleman, Raghavendra G. Mirmira, Amelia K. Linnemann
- . Oxidative medicine and cellular longevity, DOI:10.1155/2018/1324739 03/2018
An In Vivo Zebrafish Model for Interrogating ROS-Mediated Pancreatic β -Cell Injury, Response, and Prevention
•Abhishek A. Kulkarni, Abass M. Conteh, Cody A. Sorrell, Anjali Mirmira, Sarah A. Tersey, Raghavendra G. Mirmira, Amelia K. Linnemann, Ryan M. Anderson
- Diabetes; DOI:10.2337/db17-0215 08/2017
Inhibition of 12/15-Lipoxygenase Protects Against β Cell Oxidative Stress and Glycemic Deterioration in Mouse Models of Type 1 Diabetes
•Marimar Hernandez-Perez, Gaurav Chopra, Jonathan Fine, Abass M. Conteh, Ryan M. Anderson, Amelia K. Linnemann, Channele Benjamin, Jennifer B. Nelson, Kara S. Benninger, Jerry L. Nadler, David J. Maloney, Sarah A. Tersey, Raghavendra G. Mirmira
- Diabetes; DOI:10.2337/db16-1206 05/2017
Glucagon Like Peptide-1 Receptor Activation Augments Cardiac Output and Improves Cardiac Efficiency in Obese Swine Following Myocardial Infarction
•Daniel J Sassoon, Johnathan D Tune, Kieren J Mather, Jillian N Noblet, Mackenzie A Eagleson, Abass M Conteh, Joshua T Sturek, Adam G Goodwill
- Basic Research in Cardiology; DOI:10.1007/s00395-016-0563-4 07/2016
Obesity alters molecular and functional cardiac responses to ischemia/reperfusion and glucagon-like peptide-1 receptor agonism
•Daniel J. Sassoon, Adam G. Goodwill, Jillian N. Noblet, Abass M. Conteh, B. Paul Herring, Jeanette N. McClintick, Johnathan D. Tune, Kieren J. Mather
- Cancer letters; DOI:10.1016/j.canlet.2016.05.037 06/2016
Combined targeting of TGF- β , EGFR and HER2 suppresses lymphangiogenesis and metastasis in a pancreatic cancer model
•Jesse Gore, Imade E. Imasuen-Williams, Abass M. Conteh, Kelly E. Craven, Monica Cheng, Murray Korc
- Basic Research in Cardiology. DOI: 10.1007/s00395-014-0426-9. 09/2014
Glucagon-like peptide-1 (7–36) but not (9–36) augments cardiac output during myocardial ischemia via a Frank–Starling mechanism
•Adam G Goodwill, Johnathan D Tune, Jillian N Noblet, Abass M Conteh, Daniel Sassoon, Eli D Casalini, Kieren J Mather
- Reviews in Endocrine and Metabolic Disorders; DOI:10.1007/s11154-014-9290-z Date period
Cardiovascular and hemodynamic effects of glucagon-like peptide-1
•Adam G Goodwill, Kieren J Mather, Abass M Conteh, Daniel J Sassoon, Jillian N Noblet, Johnathan D Tune
- Arteriosclerosis Thrombosis and Vascular Biology; DOI:10.1161/ATVBAHA.114.303033 05/2014
Perivascular Adipose Tissue and Coronary Vascular Disease
•Meredith Kohr Owen, Jillian N Noblet, Daniel J Sassoon, Abass M Conteh, Adam G Goodwill, Johnathan D Tune
- Science of The Total Environment; DOI:10.1016/j.scitotenv. 04/2013
Detection of herbicides in the urine of pet dogs following home lawn chemical application
•Deborah W Knapp, Wendy A Peer, Abass Conteh, Alfred R Diggs, Bruce R Cooper, Nita W Glickman, Patty L Bonney, Jane C Stewart, Lawrence T Glickman, Angus S Murphy
- Appetite; DOI:10.1016/j.appet.2010.04.167 04/2010
Differential effects of high-energy diets on sensitivity to dopamine receptor antagonists in reducing intake of sucrose and fructose in rats
•C. E. Pritchett, A. Conteh, A. Hajnal

Passions



Computer Programming

R, Python, Javascript



Reading

Reading fiction and epic fantasy books



Video Games

Playing MMORPG, strategy, action, and thriller video games



Exercise

Exercise through weight lifting