



Keynote Speaker
THE PHILIP J. BOYNE LECTURE

Brianne Baker, PhD

Associate Professor, Biology Department
Director of Undergraduate Research
Director of Drew Summer Science Institute
Drew University
Madison, NJ

Dr. Brianne Barker earned her BS degree from Duke University, where she majored in Biology and minored in Chemistry and History. While at Duke, she performed research in the laboratory of Dr. Barton Haynes examining antibody responses to HIV vaccine candidates. She then earned her Ph.D. in Immunology from Harvard University, where her research advisor was Dr. Norman Letvin. Her dissertation was an examination of cytokine control of CD8+ T cell memory. She then received postdoctoral training in the laboratory of Dr. Jenny Ting at the University of North Carolina at Chapel Hill at the Lineberger Comprehensive Cancer Center/Department of Microbiology and Immunology, where she worked on pattern recognition receptor signaling.

Dr. Barker started her teaching career as a Visiting Assistant Professor at Hamilton College. She joined the biology faculty at Drew University as an Assistant Professor in 2013 and was promoted to Associate Professor in 2019. Her laboratory focuses on innate immune responses to viral nucleic acid, nucleic acid vaccines, and DNA damage.



F. Kurtis Kasper, Ph.D.

Associate Professor & Director of Orthodontic Research
UT Health Houston School of Dentistry
Department of Orthodontics
Houston, TX

Dr. Kasper earned a Ph.D. in Bioengineering from Rice University (2006) and a B.S. in Biomedical Engineering from Case Western Reserve University (1999). He served on the faculty of the Department of Bioengineering at Rice University for six years prior to transitioning to the Department of Orthodontics at the UTHealth School of Dentistry in July 2014, where he is an Associate Professor with Tenure and Director of Orthodontic Research.

Dr. Kasper's research applies fundamentals of engineering, materials science, and the biosciences toward the development and evaluation of biomaterial-based technologies to meet clinical needs, with a particular focus on tissue regeneration and 3D printing.

Results of Dr. Kasper's investigations have led to over 130 peer-reviewed publications, which have collectively received more than 10,000 citations (*h*-index of 55). He has authored 19 book chapters, and contributed significantly to the preparation of the undergraduate level textbook *Biomaterials: The Intersection of Biology and Materials Science*, published in 2008.

Dr. Kasper has been recognized with a variety of awards and honors, including the Educational Award of the Americas Chapter of the Tissue Engineering and Regenerative Medicine International Society (2018), the Outstanding Bioengineering Graduate Alumnus Award of Rice University (2014), the Young Investigator Award of the Society For Biomaterials (2013), the Young Alumnus Award of the Alumni Association of Case Western Reserve University (2012), the Hershel M. Rich Invention Award of Rice University (2011), the Graduate Student Association's Faculty Teaching and Mentoring Award of Rice University (2011), and the Young Investigator Award of the North American Chapter of the Tissue Engineering and Regenerative Medicine International Society (2011). Dr. Kasper was conferred honorary membership in the Southwestern Society of Orthodontists in 2018, and he was recognized with Dean's Excellence Awards at UTSD in the Scholarship of Application (2016), Scholarship of Integration (2017), and Scholarship of Discovery (2019). He was named an Honorary Admiral in the Texas Navy by Governor Rick Perry in 2013.



Mohammed A. Husain, DDS

Associate Program Director

Oral and Maxillofacial Radiology Residency Program

Section of Oral and Maxillofacial Radiology

Division of Diagnostic and Surgical Sciences

Dr. Husain is a board certified Oral and Maxillofacial Radiologist and Associate Clinical Professor at the UCLA School of Dentistry. He is the associate program director of the UCLA Oral and Maxillofacial Radiology residency program. He enjoys teaching residents and dental students and lectures widely on CBCT imaging in dentistry. His creative interests lie in exploring novel applications of CBCT data, such as 3-D printing for advanced surgical planning.



Zegar Zegar, BDS, DDS, MSD.

Diplomate American Board of Endodontics
Assistant Professor, Department of Endodontics
Loma Linda University, School of Dentistry
Private practice Redlands and San Diego, CA.

Dr. Zegar earned his BDS degree in Dental Surgery and Oral Medicine from the University of Baghdad in 2004 after which he maintained a private practice in Jordan from 2004-2008. He then earned his DDS from Loma Linda University in 2013 with 3 honors in teaching assistance, advanced clinical standing, and clinical orthodontics. During the next few years, he maintained private practices in Santa Barbara and Los Angeles, and held a position as a part-time Assistant Professor at Loma Linda University from 2013-2018. Dr. Zegar earned his Certificate in Endodontics and MSD degree from the University of Texas Health Science Center in Houston in 2018. Dr. Zegar is a Diplomate of the American Board of Endodontics. Currently, Dr. Zegar practices Endodontics in Redlands and San Diego area, and holds a part-time faculty position at Loma Linda University as Assistant Professor in the Department of Endodontics. Dr. Zegar is a member of the American Association of Endodontists, Houston Endodontic Alumni and Friends, and the AIOB.



Steve Traub, DDS.

Oral and Maxillofacial Surgeon
Albuquerque, New Mexico

Dr. Steven Traub is a private practicing oral and maxillofacial surgeon in Albuquerque, New Mexico. He returned there, his hometown, in 1981 after completing his oral and maxillofacial surgery residency at Cook County Hospital in Chicago. He obtained his dental education at Creighton University in Omaha, Nebraska. Dr. Traub is a Life Fellow of the American Association of Oral & Maxillofacial Surgeons (AAOMS), American College of Oral & Maxillofacial Surgeons (ACOMS), International Association of Oral & Maxillofacial Surgeons (IAOMS), and is a member of numerous other professional organizations including the International Academy of Independent Medical Evaluators (IAIME). He has served on the Board of Directors of the American Institute of Oral Biology (AIOB) for the past 10 years, having attended more than 30 annual meetings since 1981. Dr. Traub's first love is facial trauma & reconstructive surgery. As well, he was in on the ground floor of dental implant surgery. In fact, he started placing mandibular staple bone plates in 1982, long before cylinder implants came onto the scene. His temporomandibular joint (TMJ) surgical experience began with Dr. Dan Laskin during his OMS residency while Dr. Laskin was the director of the University of Illinois Oral & Maxillofacial Surgery Residency program. Dr. Traub lectures both nationally and internationally on immediate molar implants, facial trauma and reconstruction, and temporomandibular joint surgical treatment.



Dolly B. Tyan, PhD, D(ABHI).

Senior VP of Clinical Development – Transplantation
Professor Emeritus of pathology – Stanford university
School of Medicine
Aditxt, Inc.

Dr. Tyan is Professor Emerita of Pathology at Stanford University School of Medicine. She is an immunogeneticist with 45 years of experience and was the Medical Director of the Stanford Histocompatibility, Immunogenetics, & Disease Profiling Lab for the last 13 years, having just retired in February 2019. She is past President of the American Society for Histocompatibility & Immunogenetics, and recipient of the Paul Terasaki Clinical Science Award. She is co-inventor with Dr. Chen on an innovative technology with applications for immunology assays that will help predict and assess outcomes of vaccines and therapeutic medical products unlike any currently available. Dr. Tyan leads the clinical programs in tolerance induction for organ transplant recipient at Aditxt.