

# **Rohan U. Parekh, MS, PhD**

## **Expert Witness: Toxicology and Pharmacology**

**KB4 Consulting, LLC**

919-518-3553

[rparekh936@gmail.com](mailto:rparekh936@gmail.com)

### **EDUCATION**

---

#### **PhD in Pharmacology and Toxicology**

Brody School of Medicine, East Carolina University  
Dissertation Title: Kinin B1 Receptor Mediated Mechanisms in Hypertension  
Greenville, NC GPA 3.8

#### **Master of Science in Analytical Chemistry**

Department of Chemistry, East Carolina University  
Greenville, NC GPA 4.0

#### **Bachelor of Science in Neuroscience**

#### **Bachelor of Science in Psychology**

College of Art and Sciences, East Carolina University  
Greenville, NC GPA 3.8

### **PROFESSIONAL EXPERIENCE**

---

#### **Program Manager, Late Stage and Commercial Product Team**

KBI Biopharma, a part of the JSR  
company  
Durham, NC  
May 2022-Present

#### **Adjunct Professor of Chemistry**

Department of Sciences, Wake Technical Community College  
Raleigh, NC  
August 2022-Present

#### **Quality Supervisor**

U.N.X., Inc.  
Greenville, NC  
August 2016- August 2018

## **Drug Safety Associate/Pharmacovigilance Manager**

QTech Solutions  
Raleigh, NC  
August 2016-August 2017

## **Research and Development Chemist**

Andor Laboratories  
Morrisville, NC  
January 2016-August 2016

## **PUBLICATIONS AND ABSTRACTS**

---

**Parekh, RU**, Robidoux, J., & Sriramula, S. (2019). Kinin B1 Receptor Blockade Prevents Angiotensin II-induced Neuroinflammation and Oxidative Stress in Primary Hypothalamic Neurons. **Cellular and Molecular Neurobiology**. *Impact Factor: 3.895*.  
<https://doi.org/10.1007/s10571-019-00778-1>

**Parekh RU**, Sriramula S. (2020). Activation of Kinin B1R Upregulates ADAM17 and Results in ACE2 Shedding in Neurons. **International Journal of Molecular Sciences**. *Impact Factor: 4.556*. doi: <https://doi.org/10.3390/ijms22010145>

Kisling A, Byrne S, **Parekh RU**, Melit-Thomas D, de Castro Brás LE, Lust RM, Clemens S, Sriramula S and Katwa LC (2021) Loss of Function in Dopamine D3 Receptor Attenuates Left Ventricular Cardiac Fibroblast Migration and Proliferation in vitro. **Frontiers in Cardiovascular Medicine**. 8:732282. doi: <https://10.3389/fcvm.2021.732282>

**Parekh, RU**, White, A., Leffler, K.E. et al. Hypothalamic kinin B1 receptor mediates orexin system hyperactivity in neurogenic hypertension. **Nature Scientific Reports** 11, 21050 (2021). <https://doi.org/10.1038/s41598-021-00522-0>

Basuli D\*, **Parekh RU\***, White A, Thayyil A and Sriramula S (2022) Kinin B1 Receptor Mediates Renal Injury and Remodeling in Hypertension. **Frontiers in Medicine Nephrology**. 8:780834. doi: <https://10.3389/fmed.2021.780834> *\*these authors contributed equally.*

White A, **Parekh RU**, Theobald D, Pakala P, Myers AL, Van Dross R, Sriramula S. Kinin B1R Activation Induces Endoplasmic Reticulum Stress in Primary Hypothalamic Neurons. **Front Pharmacol**. 2022 Mar 8;13:841068. doi: 10.3389/fphar.2022.841068. PMID: 35350763; PMCID: PMC8957924.

## **PRESENTATIONS AND PUBLIC SPEAKING EVENTS**

---

Tucker Johnson, Keith Jones, Lidia Ortega, Natalie Cataldo, JoColl Burgess, **Rohan U. Parekh**, Tuan D. Tran. The Effects of Complex Learning on Hippocampal Neurogenesis in a Mouse Model of Alzheimer's disease. Poster presentation UP122. ECU Research & Creativity Achievement week 2015. Greenville, NC.

**Rohan U. Parekh**, Myon-Hee Lee. The role of microRNA on germ cell fate specification in *Caenorhabditis elegans*. Poster presentation PR2. The Department of Internal Medicine Brody School of Medicine 29<sup>th</sup> annual Yash P. Kataria Internal Medicine Research Day 2015. Greenville, NC.

**Rohan U. Parekh**, Myon-Hee Lee. The role of PUF-9/PUF RNA-binding protein in *Caenorhabditis elegans*. Poster presentation PR2. The Department of Internal Medicine Brody School of Medicine 29<sup>th</sup> annual Yash P. Kataria Internal Medicine Research Day 2016. Greenville, NC.

**Rohan U. Parekh**, Victor Anbalagan. Sensitive Method Validation and Quantification of Vitamin D in human serum. 2016.

Amanda R. Bowman, Dong Suk Yoon, **Rohan U. Parekh**, and Myon-Hee Lee. Role of PUF-9 RNA-binding protein in Notch signaling-mediated tumorigenesis. 2016.

**Rohan U. Parekh**, Yu Yang, Ryan Cotroneo. Stabilizing Emulsions for the Manufacturing and Production of Commercial and Industrial Products. Poster presentation GP45. ECU Research & Creativity Achievement week 2017. Greenville, NC.

**Rohan U. Parekh**, Yu Yang, Ryan Cotroneo. Stabilizing Commercial Starch Based Emulsion Via a Multivariate DoE. Poster presentation GP35. ECU Research & Creativity Achievement week 2018. Greenville, NC.

Jonelle Romero, **Rohan U. Parekh**, Yu Yang. Examination of Supercritical CO<sub>2</sub>-Rock Interactions in Sequestration. Poster presentation UP133. ECU Research & Creativity Achievement week 2018. Greenville, NC.

**Rohan U. Parekh**, Kimberly Kew, Ken Soderstrom. Establishment of Method to Measure Endocannabinoid Levels in Cultured Neurons. Poster presentation. 20<sup>th</sup> Annual Neuroscience Symposium. 2018. Greenville, NC.

**Rohan U. Parekh**, Srinivas Sriramula. Kinin B1 Receptor Blockade Prevents Angiotensin II-Induced Neuroinflammation and Oxidative Stress. Poster presentation. 21<sup>st</sup> Annual Neuroscience Symposium. 2019. Greenville, NC.

Debargha Basuli, **Rohan U. Parekh**, Srinivas Sriramula. Kinin in Hypertensive Kidney Disease: A Novel Therapeutic Target. Poster presentation. American Society for Nephrology Kidney Week 2019. **\*American Society of Nephrology/American Society of Physiology Travel Award.**

**Rohan U. Parekh**, Srinivas Sriramula. Kinin B1 Receptor Blockade Attenuates Hypertension via Angiotensin II Mediated Signaling in Neurons. Poster presentation R10. Experimental Biology 2020. San Diego, CA.

**Rohan U. Parekh**, Abdel Abdel-A. Rahman, Srinivas Sriramula. Kinin B1 Receptor Mediates Orexin System Hyperactivity in Salt-sensitive Hypertension. Oral Presentation MP06. AHA Hypertension 2020 Scientific Sessions. New Orleans, LA. **\*Awarded Top Trainee Advocacy Award and selected for Oral presentation.**

## **PROFESSIONAL APPOINTMENTS AND ACTIVITIES**

---

Department of Chemistry, Adjunct Professor, Wake Technical Community College. Raleigh, NC.

Department of Pharmacology and Toxicology Graduate Student Liaison for Admissions at East Carolina University. Greenville, NC.

Reviewer for applications for the Summer Biomedical Research Program (SBRP) at the Brody School of Medicine. Greenville, NC.

Department of Chemistry Graduate Lab Coordinator, East Carolina University, Greenville, NC.

Internship Coordinator and University Representative. U.N.X., Inc. Greenville, NC.

Internship Coordinator and Department of Psychology Representative/Liaison. Build Hope Community Centers. Greenville.

Member of Eastern Carolina Chapter for the Society of Neuroscience

Member of Sigma Xi, The Scientific Research Honor Society

Member of Psi Chi, International Honor Society in Psychology

Member of American Chemical Society

Member of International Society of Pharmaceutical Engineers

Member of American Physiological Society

Member of American Society of Nephrology

Member of American Heart Association

## **TEACHING EXPERIENCE**

---

Analytical Chemistry Instructor. Department of Chemistry, Wake Technical Community College, Raleigh, NC.

Organic Chemistry Instructor. Department of Chemistry, Wake Technical Community College, Raleigh, NC.

General Chemistry Instructor. Department of Chemistry, Wake Technical Community College, Raleigh, NC.

Peer Tutor – Peer tutor for graduate physiology and medical pharmacology course

Summer Biomedical Research Program Graduate Assistant – Assisted and mentored undergraduate students in the development and execution of a research project

General Chemistry Laboratory Instructor. Department of Chemistry, East Carolina University, Greenville, NC.

Organic Chemistry Laboratory Instructor . Department of Chemistry, East Carolina University, Greenville, NC.

Organic Chemistry II Laboratory Instructor. Department of Chemistry, East Carolina University, Greenville, NC.

Quantitative and Instrumental Analysis Laboratory Instructor. Department of Chemistry, East Carolina University, Greenville, NC.

Undergraduate Mentor for East Carolina Undergraduate in laboratory, East Carolina University, Greenville, NC.