

KIMBERLY ANN RIVERA-CARABALLO

Phone: (713) 500-6118

EDUCATION

2014- 2019 B.S. Microbiology
magna cum laude
University of Puerto Rico at Humacao

RESEARCH EXPERIENCE

- ***Oncolytic herpes virus armed with a blocking antibody against integrin-β1 to treat glioblastoma***, guided by Dr. Balveen Kaur
UT MD Anderson Cancer Center UTHealth
October 2020-
- ***Evaluating the mechanisms and impact of HSV-P10 on Akt/AMPK/mTOR signaling in glioma***, guided by Dr. Balveen Kaur
UT MD Anderson Cancer Center UTHealth
July 2019- November 2020
- ***Characterizing Quaking and LRPPRC interaction***, tutorial research guided by Dr. Jian Hu
UT MD Anderson Cancer Center UTHealth
March 2020- June 2020
- ***Effects of oHSV on tumor cell lines overexpressing FIH-1***, tutorial research guided by Dr. Balveen Kaur
UT MD Anderson Cancer Center UTHealth
January 2020- March 2020
- ***Catenin Function in Vertebrate Development***, tutorial research guided by Dr. Pierre McCrea and Ryan Baumert
UT MD Anderson Cancer Center UTHealth
August 2019- December 2019
- ***Phosphorylation profile of Tumorhead during Xenopus laevis development***, Guided by Dr. Edwin Traverso and Dr. Brenda Cádiz
University of Puerto Rico at Humacao
August 2015- June 2019
- ***Analyzing cell viability of HepG2 cells after synergistic effect of TNF-α and IFNγ in idiosyncratic-drug induced liver injury***, Guided by Dr. Patricia Ganey, Dr. Robert Roth, and Holly Mollon
Michigan State University
January 2018- February 2018

- ***The Expression of Excitatory Amino Acid Transporter mRNA During Methylmercury Exposure in Mouse Spinal Cord Astrocytes and Neuroblastoma Spinal Cord -34 Cells***, Guided by Dr. William Atchison and Duanghathai Wiwatratana
Michigan State University August 2017- December 2017
- ***The Expression of Excitatory Amino Acid Transporter 1 and 2 mRNA During Methylmercury Exposure in Spinal Cord Astrocytes***, Guided by Dr. William Atchison and Duanghathai Wiwatratana
Michigan State University May 2017- July 2017
- ***The susceptibility of spinal cord motor neuron cell line (NSC 34) and spinal cord astrocytes during methylmercury exposure***, Guided by Dr. William Atchison and Duanghathai Wiwatratana
Michigan State University August 2016- December 2016
- ***Initial Characterization of the Interleukin-1 Receptor knockout rat for use as a model to study the inflammatory basis of 2,3,7,8-tetrachlorodibenzo-p-dioxin-mediated hepatotoxicity***, Guided by Dr. Norbert Kaminski and Dr. Ashwini Phadnis-Moghe
Michigan State University May 2015- August 2015

INTERNSHIPS

- ***MSU ENDURE Academic Year Scholar***, Bridge to the Ph.D. in Neuroscience (BPNP) program, Michigan State University August 2017- December 2017
- ***Undergraduate Research assistant***, Neurotoxicology, Pharmacology and Toxicology department, Michigan State University May 2017- August 2017
- ***MSU ENDURE Academic Year Scholar***, BPNP
Michigan State University August 2016- Present
- ***Undergraduate Research assistant***, Immunotoxicology, Pharmacology and Toxicology department, Michigan State University May 2015- August 2015

POSTER & ORAL PRESENTATIONS

- ***Modern Trojan Horse: Oncolytic Virus against Cancers***
 - 2021 Virtual GSBS Student Research Day elevator speech June 2021
- ***Catenin Function in Vertebrate Development***
 - End-of-tutorial talks, Genetics and Epigenetics Program December 2019
 - End-of-tutorial talks, Neuroscience Program December 2019
- ***Phosphorylation Profile of the Tumorhead Protein Throughout *Xenopus laevis* Development***
 - 2019 Junior Technical Meeting (JTM) and the Puerto Rico Interdisciplinary Scientific Meeting (PRISM), Puerto Rico April 2019

- ***The Expression of Excitatory Amino Acid Transporter mRNA During Methylmercury Exposure in Mouse Spinal Cord Astrocytes and Neuroblastoma Spinal Cord -34 Cells***
 - Oral Presentation at 37th Puerto Rico Interdisciplinary Scientific Meeting and 52nd ACS Junior Technical Meeting, Puerto Rico April 2018
 - Poster Presentation at 57th Annual Meeting and ToxExpo, Texas March 2018
- ***The Expression of Excitatory Amino Acid Transporter 1 and 2 mRNA During Methylmercury Exposure in Spinal Cord Astrocytes***
 - Poster Presentation at ABRCMS 2017 Annual Conference, Arizona November 2017
 - Poster Presentation at SACNAS National Conference, Utah October 2017
 - Poster Presentation at Mid-SURE Symposium, Michigan July 2017
- ***The susceptibility of spinal cord motor neuron cell line (NSC 34) and spinal cord astrocytes during methylmercury exposure***
 - Poster Presentation at 6th Annual NIH BP-ENDURE, California November 2016
 - Poster Presentation at SOT 56th Annual Meeting and ToxExpo March 2017
- ***Initial Characterization of the Interleukin-1 Receptor knockout rat for use as a model to study the inflammatory basis of TCDD-mediated hepatotoxicity***
 - Poster Presentation at SACNAS National Conference, Washington D.C. October 2015
 - Poster Presentation at Ana G. Méndez, Carolina Campus, undergraduate research symposium, Puerto Rico October 2015
 - Oral Presentation at BPNP final summer research presentation, Michigan August 2015
 - Poster Presentation at Mid-SURE Symposium, Michigan July 2015

AWARDS & DISTICTIONS

- UTHealth Biomedical Informatics, Genomics and Translational Cancer Research Training Program (BIG-TCR) predoctoral fellowship December 2021
- 2021 Virtual GSBS Graduate Student Research Day Elevator Speech Competition- 2nd place award June 2021
- SOT Diversity Initiatives Endowment Career Development Award March 2018
- Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP) undergraduate research program February 2018
- 2018 Perry J. Gehring Diversity Student Travel Award November 2017
- ABRCMS 2017 Annual Conference Student Travel Award September 2017
- 2017 SACNAS National Conference travel scholarship October 2017
- 2017 Society of Toxicology Undergraduate Diversity Program Travel Award November 2016
- ABRCMS 2016 Annual Conference Partial Student Travel Award September 2016
- Society of Toxicology Undergraduate Diversity Program Travel Award November 2016
- 2015 SACNAS National Conference travel scholarship October 2015
- NSF Research Experience for Undergraduates; NIEH First Time Research Experiences in Environmental Health Sciences Programs funding, Michigan State University May 2015

CERTIFICATES, WORKSHOPS & CONFERENCES

- Society for NeuroOncology Virtual Annual Meeting November 2020
- Society for Developmental Biology 77th Annual Meeting, Oregon July 2018
- Hands on Basic Cell Culture Methods and Apoptosis Workshop at ChemTox Lab by Dr. Beatriz

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| Zayas, UMET Puerto Rico | May 2018 |
| ➤ We have never been individuals: How symbiosis is transforming our knowledge of development, genetics and evolution, seminar by Dr. Scott Gilbert, UPR Humacao | April 2018 |
| ➤ How the turtle gets its shell: Developmental biology and the origins of evolutionary diversity, seminar by Dr. Scott Gilbert, UPR Humacao | April 2018 |
| ➤ Exploring the DNA binding specificity of human transcription factors, seminar by Dr. Jose Rodriguez Martinez, UPR Humacao | April 2018 |
| ➤ Acetylcholine Receptors: a conundrum of structure and diversity of diseases, seminar by Dr. Jose Lasalde, UPR Humacao | March 2018 |
| ➤ New insight into the role of estrogen receptor and epidermal growth factor receptor signaling in human breast cancer, seminar by Dr. Esther Peterson, UPR Humacao | February 2018 |
| ➤ 57 th Annual Meeting and ToxExpo, Texas | March 2018 |
| ➤ Society for Neuroscience, Washington | November 2017 |
| ➤ ABRCMS 2017 Annual Conference, Arizona | November 2017 |
| ➤ SACNAS National Conference, Utah | October 2017 |
| ➤ Puerto Rico INBRE and COBRE Symposium | May 2017 |
| ➤ MIT Center for Brains, Minds and Machines and UPRRP IDI-BD2K workshop | March 2017 |
| ➤ Puerto Rico Society of Microbiology Semi Annual Meeting: Microbiology of Sex, Ana G. Mendez University, Carolina Campus | January 2017 |
| ➤ Society for Neuroscience, California | November 2016 |
| ➤ Michigan SOT 2016 Fall Meeting | October 2016 |
| ➤ SOT Annual Conference, Louisiana | March 2016 |
| ➤ SACNAS National Conference, Maryland | October 2015 |
| ➤ 4th Microbiology Student Research Symposium in Microbiology “Passing the Torch of Research and Ethics to the Next Generation” | October 2015 |
| ➤ Chemical Hygiene and Laboratory Safety Training | August 2016 |
| ➤ Radiation Safety Initial Training | June 2015 |
| ➤ Animal Handling Training | June 2015 |
| ➤ MSU Bridge to the Ph.D. in Neuroscience Workshop, Humacao | March 2015 |
| ➤ YSL Sign Language Learning Center Graduation certificate, Guaynabo | June 2014 |

SKILLS

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| • Fluent in Spanish, English, and basic Sign Language | • Cell culture |
| • Public Speaking | • Cell transfection |
| • Microsoft Office: Word, Power Point and Excel; data entry | • Immunostaining |
| • Microscopy | • Flow Cytometry |
| • Micropipette handling | • Genotyping |
| • DNA and RNA isolation | • Western Blot |
| • PCR and RT-PCR | • Frog <i>in vitro</i> fertilization |
| • Aseptic techniques | • Frog embryo microinjection |
| • Bacterial culture | • Mouse handling |
| • Bacterial cloning | • Murine dissection |
| | • Mice intracranial surgery |

ASSOCIATIONS

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| ➤ GSBS First Generation Student Group; Secretary | August 2020- |
| ➤ UPRH General Biology Students' Association; member | August 2019 |

	Kimberly Ann Rivera-Caraballo
➤ UPRH Microbiology Students' Chapter; member	August 2019
➤ Society of Toxicology ToXchange community; Undergraduate Affiliate	February 2018
➤ MSU Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS) chapter member	August 2017
➤ Hispanic Organization of Toxicologists; member	March 2017
➤ Society for Neuroscience; member	October 2016
➤ American Society for Pharmacology and Experimental Therapeutics; member	October 2015
➤ Graduate Women in Science Undergraduate Mentoring Program, mentee	October 2015
➤ AEOP eCybermission; virtual judge	October 2015
➤ National Research Mentoring Network; mentee	October 2015
➤ American Society of Pharmacology & Experimental Therapeutics; member	October 2015
➤ UPRH General Biology Students' Association; member	August 2015
➤ UPRH Microbiology Student Chapter; Vocal	August 2014
➤ UPRH SACNAS; member	August 2014

VOLUNTEER WORK & EXTRACURRICULAR ACTIVITIES

➤ Secretary, GSBS First Generation Student Group	2020-
➤ Mentor, MSU Virtual Bridge to the PhD in Neuroscience summer research	June 2020
➤ Volunteer for UTHHealth Cares community health screenings, Houston, TX	January 2020
➤ Volunteer at Science Night by Outreach Program, Houston TX	January 2020
➤ Tutor for High School students with special needs, Humacao, PR	May 2019
➤ 2018 SOT Undergraduate Diversity Program Peer Mentor, San Antonio, TX	March 2018
➤ World Youth Day, Krakow, Poland	July 2016
➤ Math tutor, Education Solution Providers, Humacao, PR	September 2015
➤ Volunteer, AEOP eCybermission	October 2015

REFERENCES

Dr. Balveen Kaur,
Ph.D. advisor,
UT MD Anderson UTHHealth GSBS
(713) 500-6131
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Dr. Jian Hu
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Dr. Pierre McCrea
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