

Joshua Alan Moore

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Education

Rice University

Fall '18 - present

Houston, TX

Ph.D. Biochemistry

Penn State University

Fall '15

Hershey, PA

M.Sc. Biomedical Science

University of Texas

Spring '13

Austin, TX

B.S. Cell/Molecular Biology

Positions

VP Equity and Inclusion

'21-'22

Rice University

Graduate Student Association

President

'21-'22

Biochemistry

Graduate Student Association

President

'21-'22

Black Graduate Association

Vice President

'20-'21

Biochemistry

Graduate Student Association

Honors and Awards

Marine Biological Lab (MBL) Scholarship | NICHD 'Fall 21

Travel Award | Biocience Department Rice University Fall '21

Ruth L. Kirschstein National Research Service Award | NICHD '20-

Excellence in Teaching Award | Biociences Rice University Fall '21

Bob Loren Watt Gradaute Scholarship | Rice University Fall '18

Evan Atwell Gradaute Scholarship | Rice University Fall '18

Houston Livestock Show & Rodeo Fellowship | Rice University Fall '18

Button-Waller Scholarship | Pennsylvania State University Fall '13

Biomedical Science Scholarship | Pennsylvania State University Fall '13

Publications

1. Scovell JM, Bournat JC, Szafran AT, Solis M, **Moore J**, Rivera A, Chen CH, Zhang J, Wilken N, Seth A, Jorgez CJ; PRSS50 is a testis protease responsible for proper sperm tail formation and function. Development 15 April 2021; 148 (8): dev197558. doi: <https://doi.org/10.1242/dev.197558>

2. Howard IV AGA, Baker PA, Ibarra-García-Padilla R, **Moore JA**, Rivas LJ, Tallman JJ, Singleton EW Westhiemer JL, Corteguera JA, and Uribe RA. "An atlas of neural crest lineages along the posterior developing zebrafish at single-cell resolution". elife Feb 2021, doi: 10.7554/eLife.60005

3. Ren YA, Monkkonen T, Lewis MT, Bernard DJ, Christian HC, Jorgez CJ, **Moore JA**, Landua JD, Chin HM, Chen W, Singh S, Kim IS, Zhang XH, Xia Y, Phillips KJ, MacKay H, Waterland RA, Ljungberg MC, Saha PK, Hartig SM, Coll TF, Richards JS.

"S100a4-Cre-mediated deletion of Patched1 causes hypogonadotropic hypogonadism: role of pituitary hematopoietic cells in endocrine regulation". JCI Insight. 2019 Jul2;5(14):e126325. doi: 10.1172/jci.insight.126325. PMID: 31265437; PMCID: PMC6675546.

4. Miller WP, Yang C, Mihailescu ML, **Moore JA**, Dai W, Barber AJ, Dennis MD.

"Deletion of the Akt/mTORC1 Repressor REDD1 Prevents Visual Dysfunction in a Rodent Model of Type 1 Diabetes". Diabetes. 2017 Oct 26;db170728.

5. **Moore JA**, Miller WP, Dennis MD. "Glucosamine induces REDD1 to suppress insulin action in retinal Müller cells". Cellular signaling. 2016 May 31;28(5):384-90

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Mentoring

Bionetworks Program
Rice University
Alexis Barnett | Undergrad
Summer '21

Bioscience 306
Rice University
Mignote Tadess | Undergrad
Fall '20-Spring'22
Sage Simmons | Undergrad
Fall '19-Spring'20

SDB: Choose Development!
Rice University
Jessa Westheimer | Undergrad
Summers '19/'20

Academic Societies

Society for Developmental Biology
Spring '19- Present
Graduate Student Member

Fronteins in Stem Cells and Regeneration
Marine Biological Laboratory
Oct. '21
Graduate Student Member

International Zebrafish Society
Fall '21 - present

Jessa Westheimer | Undergrad

Research Experience

Department of Biosciences- Biochemistry and Cell Biology Program, Rice University, US

Graduate Research Assistant, Rosa Uribe's Lab *Mar 2019-Present*
Identifying the mechanism by which Bone Morphogenic protein signaling regulates the colonization and differentiation of the Enteric Nervous system from the Neural Crest using Zebrafish as a Model organism.

Department of Urology, Baylor College of Medicine, US
Research Associate, Carolina Jorgez's Lab *Mar 2017-Jul 2018*
Male fertility utilizing biochemical, clinical and genetic techniques to elucidate the genetic and physiological changes that occur during male infertility

Talks/Posters/Lectures

Bone Morphogenic Protein loss depletes ENS progenitors | Frontiers in Stem Cells and Regeneration,'21

Defining the Functional Role of Bone Morphogenic Protein in ENS colonization | Annual Society for Developmental Biology Conference,'20

Defining the Functional Role of Bone Morphogenic Protein in ENS colonization | Texas Zebrafish Conference, '19 (Poster)

Identification of Bone Morphogenic Protein (BMP) pathway components in Enteric Nervous System (ENS) colonization | Rice University Bioscience retreat, '19 (Poster)

Wnt4 loss leads to occurrence of cryptorchidism | Texas Reproductive Medicine Conference, '18 (Poster)

Role of Serine Protease (Prss50) in Male Germ Cell Meiosis | Center for Reproductive Medicine Research Day, '17 (Poster)