

MARCOS EMMANUEL JASO-VERA, Ph.D.

Department of Biology - Science Center
Oberlin College and Conservatory
119 Woodland Street, Oberlin, OH 44074
PHONE: (727)564-4821 E-MAIL: mjasover@oberlin.edu
[ORCID](#) [LinkedIn](#)

EDUCATION

- 2016 - 2020 **Ph.D. - Genetics and Molecular Biology.**
Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional. Mexico City
Dissertation title: [Study of *Escherichia coli* post-transcriptional regulation](#)
Dissertation advisors: Jaime García-Mena, Ph.D., Bulmaro Cisneros-Vega, Ph.D., Efraín Garrido-Guerrero, Ph.D., María Teresa Estrada-García, Ph.D., Everardo Curiel-Quesada, Ph.D.
- 2013 - 2015 **M.Sc. - Biomedical Science.**
Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional. Mexico City
Thesis: [Characterization of Tc53 and Tc80 in *Trypanosoma cruzi* \(Spanish\)](#)
- 2007 - 2013 **B.Sc. - Dual Major: Biotechnology and Chemistry (Honours).**
Instituto Politécnico Nacional. Mexico City. License No. 8052471
Thesis: NorA efflux bomb as a biocide resistance mechanism in *Staphylococcus epidermidis* (Spanish)

ACADEMIC APPOINTMENTS

Visiting Assistant Professor of Biology

Oberlin College and Conservatory, Oberlin, Ohio, USA

August 2026 - Present

Parasitology – BIOL 339 (Fall 2026)

Taught a theory course focused on parasites with medical and veterinary importance. Topics included protozoans, like *Entamoeba histolytica*, *Giardia duodenalis*, and *Trypanosoma brucei*; worms, like *Taenia solium*, and *Ascaris lumbricoides*; and arthropods, like *Aedes aegypti*, and *Rhodnius prolixus*.

First Year Seminar Program: *The Dark Matter of Life* – 089 (Fall 2026)

Discussed about the importance of biodiversity and the discovery of species in the development of science, society, and arts, while teaching them to develop the required skills needed for their integration into college life.

Microbiology with Laboratory – BIOL 306 (Spring 2027, scheduled)

Development of a course for the study and understanding of bacteria and their importance for human health and industry.

Courses were designed using Active Learning, with a Backward design of the learning objectives, using peer discussions, and collaborative learning as the main tools for the student involvement in class.

TEACHING AND MENTORING EXPERIENCE

Research Mentoring

Johns Hopkins All Children's Hospital, Saint Petersburg, Florida, USA

Natural Sciences Summer Research Program – Awardee F. Topham (Eckerd College) **Spring 2025 – Summer 2026**

Guidance of the student Topham through the different protocols for Molecular Biology for the cloning of plasmids for expression of recombinant proteins. The protocols discussed were end-point PCR, cloning using T4 ligase, enzymatic DNA restriction, DNA electrophoresis in agarose, ampicillin-agar plate preparation, and bacterial transformation.

SACRED program – Mentoring Ph.D. Candidate Saul J Flores (University of Maryland) **Fall 2025 – Spring 2026**
The STEM Advancement for Community, Research, Education, and Development (SACRED) program provides guidance, connection, and opportunities for personal and professional growth, aligning with the principles of Vision, Strength, Connection, and Impact.

Summer Internship Program – for S. Dinesan (University of South Florida) **Summer 2025**
Guidance of the student Dinesan through the different protocols for Molecular Biology for the cloning of plasmids for expression of recombinant proteins. The taught and discussed protocols were end-point PCR, enzymatic DNA restriction, DNA electrophoresis in agarose, and DNA gel purification.

Student Internship Program – MPH Candidate I. Patel (Columbia University) **Winter 2022—Summer 2023**
Mentored internship student Patel in molecular biology and genetics. Led the discussion and instruction of molecular biology experiments with the student and supervised her during the data analysis. Some of the protocols taught were PCR, TaqMan qPCR, DNA electrophoresis in agarose, DNA gel purification, and SANGER sequencing analysis. Guided the student for the elaboration and presentation of slides, discussing about her results with the PI. She formed part of the first publication of the laboratory.

Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional, Mexico City, Mexico

Data discussion and troubleshooting – for M.Sc. E. Solis-Romo **Spring – Summer 2019**
Led discussion and data analysis of M.Sc. Solis-Romo during protocol development and data collection for the student's thesis work. Topics included plasmid cloning, bacteria mutagenesis, DNA extraction, and PCR verification for mutations in bacteria genome.

NYU Langone Medical Center, New York City, New York, USA

RNA biology and protocols – for MD. G. Quarta **Fall 2018**
Training MD Quarta in *in-vitro* synthesis, radio labeling, pull-down of RNA, and polyacrylamide gel electrophoresis. The training also consisted in troubleshooting and protocol optimization.

Invited Lecturer

Department of Biology, Science Center at Oberlin College, Oberlin, Ohio, USA

Microbiology Seminar **Winter 2026**
Microbiology class with the topic: Horizontal Gene Transfer: a driver in bacterial evolution, 1 hour. This was a remote class with student interaction and built using Bloom's Taxonomy.

James Center at Eckerd College, Saint Petersburg, Florida, USA

Biochemistry II Undergraduate Laboratory **Spring 2024**
Molecular Biology class with the topic: Real time PCR and its applications, 2 hours. The class was built using a Backward Design of the Learning Objectives and the Bloom Taxonomy.

Microteaching Online session

Center for the Integration of Research, Teaching, and Learning

The College Classroom **Winter 2025**
Genetics class with the topic: Post-transcriptional gene regulation, 30 minutes. The class was built using a Backward Design of the Learning Objectives and the Bloom Taxonomy. The session opened with an activity for peer-discussion, and it closed with a formative assessment.

COURSES AND PEDAGOGICAL TRAINING

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| Feb 2026 | "Quick Tips for Teaching" . Winter 2026 Workshop from The Center for the Integration of Research, Teaching, and Learning (CIRTL) |
| Dec 2025 | "The College Classroom" . Fall 2025 18 hours Course from The Center for the Integration of Research, Teaching, and Learning (CIRTL) |
| Sep 2025 | "The Metacognitive Feedback Loop" . Fall 2025 Workshop from The Center for the Integration of Research, Teaching, and Learning (CIRTL) |
| Sep 2025 | "Exploring Different Mentoring Styles" . Mentoring Webinar for Professional members from the American Heart Association (AHA) |

- Mar 2025 **“Better Teaching Through Neurodiversity: Supporting Students’ Executive Functioning”**. Spring 2025 Workshop from The Center for the Integration of Research, Teaching, and Learning (CIRTL)
- Feb 2025 **“An Introduction to Evidence-Based Undergraduate STEM Teaching”**. 2024-2025 Online Course from The Center for the Integration of Research, Teaching, and Learning (CIRTL)
- July 2024 **“Navigating the Academic Hand-off: Graduate Students and Postdocs as Scientific Trainers”**. Summer 2024 Workshop from The Center for the Integration of Research, Teaching, and Learning (CIRTL)
- June 2024 **“Quick Take: How to Plan a Single Class Session”**. Summer 2024 Workshop from The Center for the Integration of Research, Teaching, and Learning (CIRTL)

RESEARCH EXPERIENCE

Postdoctoral Research Fellow - Johns Hopkins University School of Medicine

Nov 2021 – July 2026

Supervisor: Xiangbo Ruan, Ph.D.

Endocrinology and Metabolism Department. Saint Petersburg, United States of America.

- Successful application for a fellowship from the American Heart Association.
- Showed that SNPs located in lncRNAs are involved in the expression of lncRNAs' metabolic regulators.
- Involved in research on post-transcriptional regulation in the liver and cardiomyocyte. Non-sense Mediated Decay proteins were studied and their involvement in different human liver diseases using different mouse models, cell lines, and human tissue. In addition, BSL2 work was performed on mice using Adeno-Associated Virus for overexpression and gene knockout.
- Mentoring and teaching basic protocols for Molecular Biology and Genetics to 3 undergraduate students and 1 Ph.D. candidate.
- Management and administration of the Laboratory. Purchases using the SAP system, resolving workflow issues, and direct contact with suppliers and IT.
- Outreach and presentation of our work at institutional and national conferences, modifying content according to audience (undergraduates, graduate students or professors).
- Successful organization of meetings and events for the trainee community in Tampa Bay area.

Ph.D. Candidate - Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional

Supervisor: Jaime García-Mena, Ph.D.

Spring 2016 – Fall 2020

Department of Genetics and Molecular Biology. Mexico City, Mexico.

- Showed that the RNA degradosome in bacteria is a dynamic complex by using FRET.
- Mentoring and teaching basic protocols for Molecular Biology and Genetics to a M.Sc. Student, and mentorship of one undergraduate student.
- Outreach and presentation of our work at international conferences.

Graduate visitor student - New York University School of Medicine

Fall 2016 – Winter 2018

Supervisor: Evgeny Nudler, Ph.D.

Department of Biochemistry and Molecular Pharmacology. New York City, United States of America.

- Development of a protocol for the discovery of target molecules for riboswitches using *in-vitro* experiments.
- Teaching molecular biology protocols to graduate students.

M.Sc. Researcher Student - Centro de Investigación y Estudios Avanzados del Instituto Politécnico Nacional

Supervisor: Rebeca Georgina Manning-Cela, Ph.D.

Summer 2013 – Summer 2015

Department of Molecular Biomedicine. Mexico City, Mexico.

- Showed that putative target proteins in *Trypanosoma cruzi* are involved in the parasite intracellular differentiation.
- Outreach and presentation of our work at institutional and international conferences.

Undergraduate Research Assistant, Escuela Nacional de Ciencias Biológicas – IPN Summer 2009 – Winter 2012

Supervisor: Juan Carlos Cancino-Díaz, Ph.D.

Department of Microbiology. Mexico City, Mexico.

- Successfully showed that gene promoter and 5' mRNA mutations are involved in the resistance of bacteria to ethidium bromide and benzalkonium chloride.
- Outreach and presentation of our work at institutional and international conferences

AWARDS, HONORS, AND RESEARCH FUNDING

- Aug 2026 – Present **Candidate (Candidato), Sistema Nacional de Investigadores (SNII)**, Mexico
National research recognition awarded through the *Cátedras de la Diáspora* program in recognition of scholarly productivity and research trajectory.
- Apr 2024 – Mar 2026 **Research Supplement to Promote Diversity in Science**. American Heart Association.
Award ID: [24DIVSUP1291162](#).
Human-specific regulation of hepatic lipogenesis by hLMR1
PI: Jaso-Vera; Mentor: Ruan; Co-Mentor: Osborne
Total award: \$151,564.00 USD
- Mar 2016 – Feb 2020 **CONACyT's Fellowship for graduate students** No. 556942 (Ph.D.). Funding from the Mexican government for graduate education.
Study of Escherichia coli post-transcriptional regulation
Total award: \$672,000.00 MXN
- Sep 2013 – Aug 2015 **CONACyT's Fellowship for graduate students** No. 556942 (M.Sc.). Funding from the Mexican government for graduate education.
Caracterización de Tc53 y Tc80 en Trypanosoma cruzi
Total award: \$242,000.00 MXN
- Jan 2009 – July 2012 **PIFI undergraduate fellowship** (Programa Institucional de Formación de Investigadores – Institutional Program for Researchers' Formation). Fellowship No. 20100412. Institutional funding for undergraduate students.
Total award: \$84,000.00 MXN

PUBLICATIONS

1. **Jaso-Vera ME**, Takaoka, S., & Ruan, X. Function and Regulation of Non-sense Mediated mRNA Decay in Alcoholic Hepatitis. **IN PREPARATION**
2. **Jaso-Vera ME**, Takaoka S, Faccioli LAP, Hu Z, Soto-Gutierrez A, Ruan X. (2026). hLMR1, a hepatocyte-specific long noncoding RNA that represses amino acid catabolism through pre-mRNA interaction in human liver. *PLoS One*. 21(7):e0353674. doi: [10.1371/journal.pone.0353674](#)
3. Takaoka S, **Jaso-Vera ME**, Ruan X. (2025) Human-Specific Suppression of Hepatic Fatty Acid Catabolism by RNA-Binding Protein HuR. *Noncoding RNA*. 11(5):65. doi: [10.3390/ncrna11050065](#)
4. Takaoka S, **Jaso-Vera ME**, Ruan X. (2024). Disrupted Post-Transcriptional Regulation of Gene Expression as a Hallmark of Fatty Liver Progression. *Int J Mol Sci*. 25(20):11054. doi: [10.3390/ijms252011054](#)
5. **Jaso-Vera ME**, Takaoka S, Patel I, Ruan X. (2024) Integrative regulation of hLMR1 by dietary and genetic factors in nonalcoholic fatty liver disease and hyperlipidemia. *Hum Genet*. 143(7):897-906. doi: [10.1007/s00439-024-02654-5](#)
6. **Jaso-Vera ME**, Domínguez-Malfavón L, Curiel-Quesada E, García-Mena J. (2021). Dynamics of the canonical RNA degradosome components during glucose stress. *Biochimie*, 187, 67-74. doi: [10.1016/j.biochi.2021.05.006](#)
7. García-Gómez E, **Jaso-Vera ME**, Juárez-Verdayes MA, Alcántar-Curiel MD, Zenteno JC, Betanzos-Cabrera G, Peralta H, Rodríguez-Martínez S, Cancino-Díaz ME, Jan-Roblero J, Cancino-Díaz JC. (2017). The ^{95A}G mutation in the 5'untranslated region of the norA gene increases efflux activity in Staphylococcus epidermidis isolates. *Microb Pathog*. 103:139-148. doi: [10.1016/j.micpath.2016.12.021](#)

PUBLISHED ABSTRACTS

- **Marcos E. Jaso Vera**, Shohei Takaoka, Xiangbo Ruan; 1089: FUNCTION AND REGULATION OF NONSENSE-MEDIATED MRNA DECAY IN METABOLIC DYSFUNCTION-ASSOCIATED STEATOHEPATITIS. *The Liver Meeting* November 2025: 1089. https://www.aasld.org/sites/default/files/2025-10/HEP_82_S1-FINAL.pdf
- **Marcos E. Jaso Vera**, Shohei Takaoka, Xiangbo Ruan; 507-P: Human Liver-Specific Regulation of Lipogenesis by Long Noncoding RNA hLMR1. *Diabetes* 14 June 2024; 73 (Supplement_1): 507-P. doi: [10.2337/db24-507-P](https://doi.org/10.2337/db24-507-P)
- Shohei Takaoka, **Marcos E. Jaso Vera**, Xiangbo Ruan; 1570-P: A Human Unique Role of RNA-Binding Protein HuR in Nonalcoholic Steatohepatitis. *Diabetes* 14 June 2024; 73 (Supplement_1): 1570-P. doi: [10.2337/db24-1570-P](https://doi.org/10.2337/db24-1570-P)

ORAL PRESENTATIONS

- Oct 2025 "Function and regulation of nonsense-mediated mRNA decay in metabolic dysfunction-associated steatohepatitis." National Diversity in STEM Conference. Columbus, Ohio.
- Oct 2024 "Nonsense-Mediated RNA Decay in liver pathophysiology." Johns Hopkins All Children's Hospital Fellow Seminar Series. Saint Petersburg, Florida.
- Apr 2024 "Amino Acid and Lipid Metabolic Regulation by the LncRNA hLMR1 in Hepatocytes." RNA Biology and Therapeutics Trainee Retreat, Johns Hopkins University and Moffitt Cancer Center. Saint Petersburg, Florida.
- May 2022 "Regulation of hepatic cholesterol synthesis by a human-specific lncRNA in health and disease." Johns Hopkins All Children's Hospital Fellow Seminar Series. Saint Petersburg, Florida.

POSTER PRESENTATIONS

- Nov 2025 **Jaso-Vera, M. E.**, Takaoka, S., Ruan, X. "Suppression of hepatic amino acid catabolism by the human-specific lncRNA hLMR1". 2nd RNA Biology and Therapeutics Retreat, Moffitt Cancer Center and Johns Hopkins All Children's Hospital. Saint Petersburg, Florida, United States of America
- Nov 2025 **Jaso-Vera, M. E.**, Takaoka, S., Ruan, X. "Function and regulation of nonsense-mediated mRNA decay in metabolic dysfunction-associated steatohepatitis". The Liver Meeting, American Association for the Study of Liver Diseases. Washington DC., United States of America
- Mar 2024 **Jaso-Vera, M. E.**, Takaoka, S., Ruan, X. "Human liver-specific regulation of lipogenesis by long non-coding RNA hLMR1". Central Florida Triangle Metabolism Symposium, Johns Hopkins All Children's Hospital. Saint Petersburg, Florida, United States of America
- Apr 2023 **Jaso-Vera, M. E.**, Takaoka, S., Ruan, X. "A LncRNA-pre-mRNA Interaction Mediated Suppression of Amino Acid Catabolism in Human Fatty Liver Diseases". NCI RNA Biology Symposium. NIH. Bethesda, Maryland, United States of America
- Mar 2023 **Jaso-Vera, M. E.**, Takaoka, S., Ruan, X. "The LncRNA hLMR1 Promotes NAFLD through AA Catabolic Repression". Central Florida Triangle Metabolism Symposium, Johns Hopkins All Children's Hospital. Saint Petersburg, Florida, United States of America
- Oct 2022 **Jaso-Vera, M. E.**, Takaoka, S., Ruan, X. "hLMR1 integrates genetic factors and carbohydrate signaling to promote NAFLD". Central Florida Triangle Metabolism Symposium, Johns Hopkins All Children's Hospital. Saint Petersburg, Florida, United States of America
- Nov 2019 **Jaso-Vera, M. E.**, Solis-Romo, E., Domínguez-Malfavón, L., Luisi, B., García-Mena, J. "Study of RNA Degradosome in vivo dynamics using FRET". "VI Conference of Biochemistry and Molecular Biology of Bacteria and XLI National Conference of Microbiology". Asociación Mexicana de Microbiología and Sociedad Mexicana de Bioquímica. Oaxaca City, Oaxaca, Mexico

Aug 2012 **Jaso Vera, M. E.**, Juárez Verdayes, M. A., Cancino Díaz, M. E., Cancino Díaz, J. C. "La Bomba de Eflujo NorA como Mecanismo de Resistencia al Bromuro de Etidio en *Staphylococcus epidermidis*". "VII International Conference, XVIII National Conference of Biochemical Engineering and X Biomedicine and Molecular Biotechnology Scientific Meeting". Colegio Mexicano de Ingenieros Bioquímicos. Ixtapa, Guerrero, Mexico

OTHER COURSES

July 2026 **"Sequenced-based Small Molecule Targeting of RNA"**. 1 hour Non-Coding RNA Webinar from the Multidisciplinary Digital Publishing Institute.

Aug 2025 **"Data Science: Foundations using R"**. 155 hours specialization courses from Johns Hopkins University through Coursera for R programming and data analysis. Credential ID X55EOLCF2AVX

Aug 2025 **"Reproducible Research"**. 7 hours course from Johns Hopkins University through Coursera for R programming and data report. Credential ID 4PLSZ71Q79GW

July 2025 **"Exploratory Data Analysis"**. 55 hours course from Johns Hopkins University through Coursera for R programming and data analysis. Credential ID WA4GTB5197W1

June 2025 **"Getting and Cleaning Data"**. 19 hours course from Johns Hopkins University through Coursera for R programming and data analysis. Credential ID V7EL219B0G04

May 2025 **"R Programming"**. 57 hours course from Johns Hopkins University through Coursera for R programming and data analysis. Credential ID V7EL219B0G04

May 2025 **"Library Preparation for Next Generation Sequencing Applications"**. Johns Hopkins All Children's Hospital Course from the Shared Resources Department

Apr 2025 **"Digital Droplet PCR: principle, protocol and data análisis"**. Johns Hopkins All Children's Hospital Course from the Shared Resources Department

Mar 2025 **"Setting Up Your K Award Application for Success"**. Online Course from CareerVolt covering the basics for NIH K award program application.

Sep 2024 **"Writing an Effective Teaching Philosophy Statement"**. Fall 2024 Workshop from The Center for the Integration of Research, Teaching, and Learning (CIRTL)

Aug 2024 **"Focus on Peer Review"**. Nature Masterclasses Course

Feb 2023 **"The Data Scientist's Toolbox"**. 17 hours course from Johns Hopkins University through Coursera for basic R and Rstudio data analysis. Credential ID SSW2CRQ9GAZ8

Nov 2021 **"Responsible Conduct of Research"**. CITI Program course. Credential ID 46028732

Aug 2020 **"Integradora: Incorpora a Elsevier en tu ciclo de investigación"**. Elsevier course for databases use. CINVSTAV. Mexico City

Aug 2019 **"T5: Programación para principiantes con Python"**. Python programming basic workshop. Encuentro de bioinformática en México 2019 (Bioinformatic conferences in Mexico, 2019). Centro de Ciencias Genómicas, UNAM. Cuernavaca, Morelos

July 2019 **"T1: Introducción a R y R Studio"**. Rstudio basic workshop. Encuentro de bioinformática en México 2019 (Bioinformatic conferences in Mexico, 2019). Centro de Ciencias Genómicas, UNAM. Cuernavaca, Morelos

Feb 2019 **"Nutritium Forum 2019"**. Instituto Danone de México. Mexico City

Aug 2014 **"UP TO DATE ON CHAGAS DISEASE"**. Pre-congress course. International Congress of Parasitology (ICOPA) XIII. World Federation of Parasitology. Mexico City

Aug 2012 **“Tecnologías para el Análisis Genético”** (Technologies for genetic analysis) 2nd edition. INMENGEN-Mexico. Mexico City

SCIENCE COMMUNICATION

Nov 2025 [“2nd RNA Biology and Therapeutics Retreat”](#), IFBR insights website, Johns Hopkins All Children’s Hospital.

Oct 2025 [“Commensal Bacteria and Evolution”](#), Johns Hopkins University School of Medicine Biomedical Odyssey Blog.

Jun 2025 [“Entangling the Concept of What is Alive: The Obelisks”](#), Johns Hopkins University School of Medicine Biomedical Odyssey Blog.

Apr 2025 [“Hurricanes Milton and Helene Visit Florida: A Post Doc’s Perspective”](#), Johns Hopkins University School of Medicine Biomedical Odyssey Blog.

Aug 2024 [“The Fight Against the Brain-Eating Amoeba”](#), Johns Hopkins University School of Medicine Biomedical Odyssey Blog.

Jun 2024 [“The First RNA Biology and Therapeutics Trainee Retreat at JHU in Florida”](#), Johns Hopkins University School of Medicine Biomedical Odyssey Blog.

May 2024 [“A Viral Solution to Antibiotics Weakness”](#), Johns Hopkins University School of Medicine Biomedical Odyssey Blog.

Feb 2024 [“GWAS, The Key to Your Health”](#), Johns Hopkins University School of Medicine Biomedical Odyssey Blog.

SERVICE AND OUTREACH

2026 – Present Ad hoc Reviewer for Frontiers in Nutrition. ISSN: 2047-783X. ISSN: 2296-861X

2025 – Present Ad hoc Reviewer for the European Journal of Medical Research. ISSN: 2047-783X

2021 – Present Ad hoc Reviewer for the Journal of Translational Medicine. ISSN: 1479-5876

July 2026 Reviewer of Undergraduate Abstracts for presentation, SACNAS NDiSTEM Conference, Long Beach, CA

Apr 2026 Laboratory Tour for Highschool students on *Bring your child to work day*

Jul – Nov 2025 Organizer of the 2nd JHU/Moffit Cancer Center RNA Biology and Therapeutics Retreat. A total of 32 participants registered, with 16 abstracts being presented as oral or poster presentations. The Johns Hopkins University School of Medicine

Oct 2025 Mentor Judge for Graduate Oral presentations, SACNAS NDiSTEM Conference, Columbus, OH

Oct 2025 Mentor, 10th annual 1on1 Mentoring Workshop, SACNAS NDiSTEM Conference, Columbus, OH

Feb 2024 – Oct 2025 Author for the Biomedical Odyssey Blog of the Johns Hopkins University School of Medicine

2024 – 2025 Translation of educational materials to Spanish - “Teach ASM” Antimicrobial Stewardship Program. American Society for Microbiology

Feb – Sep 2024 LinkedIn Learning Pilot Program for the American Society for Microbiology

Jan – Apr 2024 Organizer of the 1st JHU/Moffit Cancer Center RNA Biology and Therapeutics Trainee Retreat. A total of 26 participants registered, with 11 abstracts being presented as oral presentations. The Johns Hopkins University School of Medicine

2022 – 2024 Institute of Fundamental Biomedical Research (IFBR) Postdoctoral Committee Member. Johns Hopkins All Children's Hospital. The Johns Hopkins University School of Medicine

MEMBERSHIPS

- Postdoc/New Professional Membership. Society for the Advancement of Chicanos/Hispanics and Native Americans in Sciences
- Former member of the [Biomedical Odyssey Blog](#) of the Johns Hopkins University School of Medicine.
- Postdoctoral Membership. American Society for Microbiology
- Student/Trainee Membership. American Heart Association

TECHNICAL SKILLS FOR TEACHING

- Molecular Biology: PCR/qPCR/ddPCR, cloning, CRISPR editing, RNA-protein assays, DNA/RNA/Protein extraction from cells and tissue.
- Bioinformatics: R programming, data visualization, statistics.
- Microscopy: FRET/fluorescence.
- Model Systems: Mouse handling, primary hepatocyte isolation, bacterial genetics, cell culture.
- BSL2: Adenovirus and Adeno-Associated virus cloning, purification, transduction in cells, and infection in mice models.