Emelyn Mariel Salazar Castillo, Ph.D.

EDUCATION

Ph. D.	Instituto Venezolano de Investigaciones Científicas (Venezuela)	Feb 2018	Immunology
B. S.	Universidad Central de Venezuela (Venezuela)	Dec 2009	Bioanalytical Chemistry

PROFESSIONAL EXPERIENCE

2025-Present Assistant Professor, Department of Biological and Health Sciences
Texas A&M University-Kingsville

- *Teaching, research and university service for the equivalent of 12 semester hours (for a total of 12 Teaching Load Credits) each fall and spring semester. Fulfilling the duties and responsibilities of teaching personnel as stated in the Faculty Handbook.*

2023-2024 Adjunct Professor, Department of Biological and Health Sciences
Texas A&M University-Kingsville

- *Teaching l course(s) for a total of 3 teaching load credits (TLCs), participating in departmental meetings and fulfilling the duties and responsibilities of teaching personnel as stated in the Faculty Handbook.*

2018-2025 Postdoctoral Researcher, National Natural Toxins Research Center
Texas A&M University-Kingsville

- *Conduct independent research, mentor undergraduate and graduate students, keep detailed records of procedures and data, validate strategic decision-aid models, and develop procedures to improve efficiency and accuracy of data collection and analysis.*

2017-2018 Professional Associated with Research A1, Pathophysiology Laboratory
Instituto Venezolano de Investigaciones Científicas (Venezuela)

- *Performed specific tests to evaluate hemostasis and inflammatory responses in clinical specimens and experimental models.*
  Evaluated the effect of coral snake venoms in the innate immunity and the efficacy of antivenoms produced in South America against coral snakes.

TEACHING EXPERIENCE

2025-Present Assistant Professor, Department of Biological and Health Sciences
Texas A&M University-Kingsville

2023-2024 Adjunct Faculty, Department of Biological and Health Sciences
Texas A&M University-Kingsville

2023-Present Adjunct Graduate Faculty, Department of Chemistry
Texas A&M University-Kingsville

2017-2018 Lecturer, Center of Graduate Studies - Immunology program
Instituto Venezolano de Investigaciones Científicas (Venezuela)

PROFESSIONAL ACTIVITIES

Alternate member, Institutional Animal Care and Use Committee (IACUC), Texas A&M University-Kingsville, 2022-Present.
Member, International Society on Toxinology, 2021-Present.
Member, North American Society on Toxinology, 2019-Present.

Reviewer, *Animals*, 2023.
Reviewer, *Biologics*, 2022.
Reviewer, *PLoS Neglected Tropical Diseases*, 2022.
Reviewer, *Life*, 2020.
Reviewer, *Toxins*, 2020.
Reviewer, *Journal of Molecular Medicine*, 2019.

SELECTED PUBLICATIONS

Salazar, E., Cirilo, A., Reyes, A., Barrientos, M., Galan, J., Sánchez, E. E., Suntravat, M. (2024). Snake venom Cysteine-Rich Secretory Protein from Mojave rattlesnake venom (Css-CRiSP) induces acute inflammatory responses on different experimental models. *Toxicon X*, *21,* 100180.

Willard, N.K., Salazar, E., Oyervides, F.A., Wiebe, C.S., Ocheltree, J.S., Cortez, M., Perez, R.P., Markowitz, H., Iliuk, A., Sanchez, E.E., Suntravat, M., Galan, J.A. (2021). Proteomic identification and quantification of snake venom biomarkers in venom and plasma extracellular vesicles. *Toxins, 13(9)*, 654.

Sánchez, E.E., Migl, C., Suntravat, M., Rodriguez-Acosta, A., Galan, J.A., Salazar, E. (2019). The neutralization efficacy of expired polyvalent antivenoms: An alternative option. *Toxicon, 168,* 32-39.

Salazar, E., Salazar, A.M., Taylor, P., Ibarra, C., Rodríguez-Acosta, A., Sánchez, E., Pérez, K., Brito, B., Guerrero, B. (2018). Pro-inflammatory response and hemostatic disorder induced by venom of the coral snake *Micrurus tener tener* in C57BL/6 mice. *Toxicon. 150,* 212-219.

Taylor, P., Salazar, E., Barrios, M., Salazar, A.M., Abad, M.J., Shealy, D., Arocha-Piñango, C.L., Guerrero, B. (2016). Role of the inflammatory response in the hemorrhagic syndrome induced by the hemolymph of the caterpillar of *Lonomia achelous*. *Toxicon. 121,* 77-85.

SELECTED PRESENTATIONS

Salazar, E. *Evaluation of the modulatory effect of North American pit viper venoms on the innate immune response using an experimental model of monocyte-derived macrophages.* Venom Week VIII. July 2022. Scottdale, Arizona.

Salazar, E. *Snake venom: Effects on Hemostasis.* Latin American Committee of Hemostasis and Thrombosis (CLAHT) Seminar cycles: Venezuelan Topics. June 2022. On-line.

Salazar, E. *Biochemical characterization and comparative analysis of two Phospholipases A2 from venoms of North American snakes.* 20th World Congress of the International Society on Toxinology "Toxinology in the 21st century: Public health impact from basic, translational and clinical sciences". September 2019. Buenos Aires, Argentina.

GRANTS/AWARDS/HONORS/ETC.

Honors and Awards

Excellence IVIC Scholarship recipient, Instituto Venezolano de Investigaciones Científicas (Venezuela), 2010-2015.

Reach the World Award Grant to attend the XXV Congress of the International Society of Thrombosis and Haemostasis, 2015.

Researcher A1 in the Stimulus Program for Innovation and Research (PEII), of the Ministry of Popular Power for Science, Technology and Innovation of Venezuela, 2015-2018.