Eduardo Encina, MPH

Current Position
Associate Health Scientist I

Discipline Areas
> Toxicology
> Epidemiology
> Microbiology

Years' Experience
1

Joined Cardno
2021

Education
> MPH, Epidemiology of Microbial Diseases, Yale University School of Public Health, 2021
> BS, Biochemistry, Loyola Marymount University, 2019

Professional Honors/Awards

Summary of Experience

Eduardo Encina is an Associate Health Scientist with Cardno ChemRisk, located in Aliso Viejo, California. He received his BS in Biochemistry from Loyola Marymount University, where he engaged in atmospheric and organic chemistry-based research. His research projects during his undergraduate career involved organic chemistry acylation improvements and quantifying environmental gas emissions. Eduardo then attended the Yale School of Public Health, where he acquired his MPH in Epidemiology of Microbial Diseases with a concentration in Public Health Modeling. His primary areas of interest include toxicology, epidemiology (healthcare management, disease surveillance, and infectious disease transmission), and computational modeling.

Significant Projects

Consumer Product Safety

Performed literature review focused on adverse dermal health effects following exposure to hexavalent chromium [Cr(VI)]. Assisted with conducting a quantitative risk assessment to characterize the risk of Cr(VI)-induced skin sensitization following the use of leather consumer products.

Litigation Support

Provided consulting services involving asbestos exposure in various occupational and residential settings, including from personal care and consumer products.

Computational Modeling

Utilized GIS software to spatially analyze urban living and environmental effects on toddler sleep patterns in Southern Connecticut. Helped create a R statistical model to track health mitigation efforts on COVID-19 transmission, and used SAS statistical software to analyze social behavioral and depression outcomes in Thailand communities.

Pharmaceuticals

Designed and lead a project to analyze the reactivity of carbon nucleophiles and their products with the goal of proposing hypothetical models to improve current acylation methods within the pharmaceutical industry. Synthesized and characterized peptides for potential peptide-based therapeutic and molecular bio-imaging applications.

Contaminated Sites

Sampled geologic seepage sites in the greater Los Angeles area to aid in the quantification of methane emission and determination of potentially hazardous emission sites.

> Marshall Sauceda Rising Scholar Award, 2019
> Alpha Sigma Nu Jesuit Honors Society, 2018

Membership and Service to Professional Societies

> American Public Health Association (2019 – present)
> Society of Toxicology (SOT) (2021)

Publications

Peer-Reviewed Publications

> Parker, J.A., E. Encina, and A.D.G. Jones. 2021. Antibacterial and antifungal properties of essential oil blends. *J Antimicrob Agents*, 7:4.

Presentations

Conference Poster Presentations

> Encina, E. 2021. Analyzing Sexual Orientation Disclosure Among Thai MSM Communities and its Associations with Depression and IPV. Poster presentation at the Yale University 7th Annual EMD Research Day Symposium in New Haven, CT. May 10.

> Encina, E., Chaudhuri, D., Camarero, J. 2018. Synthesis of Cyclotides for Peptide-based Therapeutic Usage. Poster presentation at the 11th Annual LMU Undergraduate Research Symposium in Los Angeles, CA. March 23.

> Encina E., Heller, S. 2017. Development of Acylation Methodology. Poster presentation at the 10th Annual LMU Undergraduate Research Symposium in Los Angeles, CA. March 24.

Published Abstracts

> More, S.L., J.A. Parker, C. Mathis, E. Encina, and E.S. Fung. 2021. Quantitative Risk Assessment of Skin Sensitization Induction from Hexavalent Chromium in Leather Consumer Products. Virtual Poster Presentation at the 2021 Society of Toxicology (SOT) Annual Meeting. March 12-26.