## Undergraduate Research in the Biomedical Areas at Fairfield University

## November 3

Tuesday, 12:30pm

Live Webinar via Zoom Conference



Speaker: Andres Leonardo Carrano, Ph.D.

Dean of the School of Engineering Professor of Mechanical Engineering Fairfield University Fairfield, CT

Hosts: Rajiv R. Ratan, M.D., Ph.D. & Christine E. Hughes

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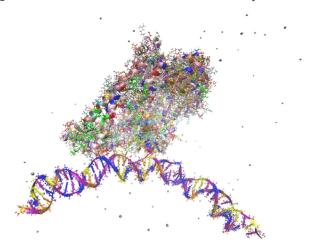
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## **Abstract**

Fairfield University, known as the modern Jesuit University, was founded in 1942 and is located in Fairfield, Connecticut - about 30 miles away from the Burke Neurological Institute. It boasts outstanding programs in engineering (biomedical, electrical, mechanical, and computer science), science (neuroscience, biochemistry, chemistry and biology), as well as a nationally ranked school of nursing. Many of the students in these programs are sought after by R&D labs, national labs, industries and federal agencies for internships. This talk will provide detail on some of these programs and will survey an array of research projects related to the medical sciences that engaged undergraduate students at Fairfield University.



- 1. Engineering of bio-mimetic substratum topographies for enhanced early colonization of filamentous algae. Khoshkhoo A, Carrano AL, Blersch DM, Kardel K. PLoS One. 2019 Jul 5;14(7):e0219150. doi: 10.1371/journal.pone.0219150. eCollection 2019. PMID: 31276527 2. Gabriel Proano-Pena, Andres L Carrano, David M Blersch. "Analysis of very-high surface area 3D-printed media in a moving bed biofilm reactor for wastewater treatment" PLoS One. 2020 Aug 27;15(8):e0238386. doi: 10.1371/journal.pone.0238386. eCollection
- 2020. PMID: 32853235

  3. Marshall MM, Carrano AL, Dannels WA. Adapting Experiential Learning to Develop Problem-Solving Skills in Deaf and Hard-of-Hearing

