

Faculty Name:

Santiago Correa

Faculty Email:

sc5159@columbia.edu

Lab:

Nanoscale Immunoengineering Lab

Project Title:

Molecular engineering of immunomodulatory hydrogels

Description:

Students will work at the intersection of chemistry, materials engineering, and biology and will contribute to on-going efforts to develop self-assembling materials that can provide immunomodulatory cues to immune cells.

Students will learn to use bioconjugate techniques to introduce new functionality in polysaccharide or protein-based biopolymers, and will learn analytical techniques to characterize these materials at the molecular or macromolecular level. Students will also assist in developing assays to determine the impact of engineered materials on cultured cells.

Location of Research:

On Site

of hrs/week:

35

Department/Program:

Biomedical Engineering

Eligibility:

BS, First Year, BS, Second Year, BS, Third Year, BS, Fourth Year

To apply, please contact:

(Santiago Correa) sc5159@columbia.edu, (Robert Hincapie) rh3223@columbia.edu