

ASRC - City College of New York

Seminar in Biochemistry, Biophysics & Biodesign

SEMINAR LOCATION:

**ASRC Main Auditorium
85 St. Nicholas Terrace**

For non-CUNY attendees,
advance registration is required;
please contact Hyacinth
Camillieri at
hcamillieri@gc.cuny.edu

THE SEMINAR WILL ALSO BE AVAILABLE VIA ZOOM:

[Click here for Zoom link](#)

Meeting ID: 966 7763 1144

Passcode: asrc-ccny

HOST:

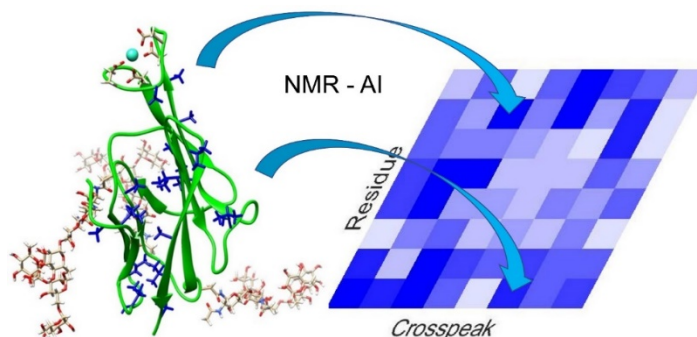
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FOR MORE INFORMATION, CONTACT:

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ADVANCED SCIENCE
RESEARCH CENTER
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CITY UNIVERSITY OF NEW YORK



Wednesday, Nov. 15, 2023

Coffee & tea 11:30 AM

Seminar 12:00 – 1:00 PM

James H. Prestegard

Emeritus Professor

Dept. of Chemistry and Dept. of Biochemistry & Molecular Biology
University of Georgia, Athens, GA

NMR in the age of AI: What can it tell us about glycans and glycoproteins?

ABSTRACT Artificial Intelligence (AI) has had an impact on structural biology, both by providing structures of proteins that allow us to focus more on their functional properties and by providing tools that allow us to analyze data more efficiently. I will present two examples from our NMR investigation of glycans and glycoproteins; one applying new resonance assignment strategies for the sparsely isotope labeled glycoprotein, CEACAM1, and one applying a neural net analysis to ring conformations of a monosaccharide found in heparin. Both provide insight into properties of molecules that impact our health, but they also provide an opportunity to learn about the potential and limitations of some exciting new tools for structural biology.