



# CBI Virtual Symposium

**Tuesday, May 12th & Wednesday, May 13th, 2020**  
**9am-1pm**

**Organized by:** NIH Chemical Biology Interface Programs from Univ. of Delaware, Stony Brook Univ., Johns Hopkins Univ., Univ. of Pennsylvania and Univ. of Maryland Baltimore County

## Tuesday May 12th

9:00am Opening remarks  
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9:10am Keynote Speaker



**Dr. Carmen Drahl**  
"Science  
Communication:  
It's what I do, but so  
must you"

\*Image by RosaLovesDC

.....  
10am Student Talks  
.....  
11:30am Career Panel Q&A

**Dr. Simone Sidoli, Asst. Prof, Albert Einstein  
College of Med.**

**Dr. Anumita Saha-Shah, Sr. Scientist, Merck**

**Dr. Janet Reed, Partner at Potter Anderson  
& Corroon LLP**

**Dr. Michelle Bond, Program Director,  
NIGMS**

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12:10pm Student Poster Session

## Wednesday May 13th

9:00am COVID-19 Panel

**Dr. Susan Weiss (UPenn)**

"Coronavirus life cycle: identification of potential targets for antiviral therapies"

**Dr. Carolyn Machamer (JHU)**

"Intracellular assembly and egress of coronaviruses"

**Dr. Carlos Simmerling (SBU)**

"Modeling the 'spike' on the surface of the COVID-19 virus"

.....  
10am Student Talks  
.....

10:40am Break  
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10:50am Student Talks  
.....

11:30am Break  
.....

11:40am Student Talks  
.....

12:10pm Student Poster  
Session

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## ***Schedule of Graduate Student Talks***

### **Tuesday May 12th**

**10:00am Katie Nelson (UDel)**

"An *in vitro* placenta model with tunable ECM to study transplacental drug transport"

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**10:20am Taylor Barrett (UPenn)**

"Studies of Thioamide Positional Effects on Serine Protease Activity Enable Two-Site Stabilization of Cancer Imaging Peptides"

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**10:50am Jodi Kraus (UDel)**

"Solid-state NMR structure of human cofilin-2 bound to F-actin reveals isoform specific conformation and unique binding mode"

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**11:10 Melanie Johnston (JHU)**

"The role of residue R99 in DXP Synthase conformational dynamics"

### **Wednesday May 13th**

**10:00am Erica Sinner (JHU)**

"Sequential methylations by radical SAM enzymes generate structural diversity in carbapenem antibiotics"

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**10:20am Forrest Bowling (SBU)**

"Crystal structure of human PLD1 provides insight into activation by PI(4,5)P2 and RhoA"

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**10:50am Rachael Knoblauch (UMBC)**

"Tuning Light-Activated Antimicrobial Character from a Carbon Nanodot Architecture"

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**11:10am Juan Serrano (UPenn)**

"Targeting APOBEC3A's genomic mutagenic activity with functionalized DNA dumbbells"

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**11:40am Zachary Stillman (UDel)**

"Evaluating UiO-66 Metal-Organic Framework (MOF) Nanoparticles as Carriers for Pulmonary Drug Delivery"

.....

**12:00pm Danielle Cervasio (SBU)**

"Chemical approaches towards regulated gene therapy in astrocytes"