



## NEXTGEN

*Sheraton San Diego Hotel & Marina, Marina Tower*

THURSDAY, JANUARY 31, 2019

### SESSION I

**Ariane Pessentheiner & Mike Vaill** *UC San Diego • Session I Leaders*

- 1:00–1:10 **Ariane Pessentheiner & Mike Vaill**  
Opening Remarks
- 1:10–1:25 **Meghan Altman** *UC San Diego*  
Human influenza A virus hemagglutinin glycan evolution follows a temporal pattern to a glycan limit
- 1:25–1:40 **Ben Kellman** *UC San Diego*  
Exploring the impact of protein structure on glycosylation
- 1:40–1:55 **Raymond Zurich** *UC San Diego*  
Enhanced wound induced neogenesis of hair and fat through heparan sulfate deficiency
- 1:55–2:10 **Austen Michalak** *UC San Diego*  
DNA barcoded soluble glycopolymer microarrays for improving detection of glycan interactions

~ Break ~

### SESSION II

**Ariane Pessentheiner** *UC San Diego • Session II Leader*

- 2:30–2:45 **Mariana Barboza** *UC Davis*  
Mouse tissue-specific cell surface metaglycomes revealed by nano-LC-MS/MS analysis
- 2:45–3:00 **Taryn Lucas** *UC San Diego*  
Development of mucin mimetic array platforms to systematically evaluate viral binding
- 3:00 – 3:15 **Lan Na** *UC Davis*  
Enhancing structure integrity of heparosan glycosyltransferase (PmHS2) enabled to produce heparosan oligosaccharides in gram scale
- 3:15 – 3:30 **Allison Coady** *UC San Diego*  
Siglecs modulate the innate immune response to fungal pathogens

~ Break ~

*All talks are off-record*



## **NEXTGEN** (*continued*)

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### **SESSION III**

**Mike Vaill** *UC San Diego* • *Session III Leader*

- 3:45–4:00 **Daniel Honigfort** *UC San Diego*  
Building the spectator glycocalyx to investigate the barrier functions of mucin-like structures on the cell surface
- 4:00–4:15 **Mitali Tambe** *Sanford Burnham Prebys Medical Discovery Institute*  
NGLY1 regulates Aquaporins: Implications in NGLY1 deficiency disorder
- 4:15–4:30 **Kayvon Pedram** *Stanford University*  
A mucin-specific protease improves molecular analysis of mucin domain proteins
- 4:30–4:45 **Ryan Weiss** *UC San Diego*  
ZNF263 is a novel transcriptional regulator of heparin biosynthesis

### **POSTER PITCHES**

**Sudeshna Saha** *UC San Diego*

**Eshani Nandita** *UC Davis*

**Sonal Mahajan** *Institute of Microbial Technology*

**Nina Gao** *UC San Diego*

**Ariane Pessentheiner & Mike Vaill** *UC San Diego*  
Closing Remarks

5:00 - 7:00 **Reception**

*All talks are off-record*