

## GlycoBootcamp 2021 Schedule

Week 1					
Time	Monday, July 19, 2021	Tuesday, July 20, 2021	Wednesday, July 21, 2021	Thursday, July 22, 2021	Friday, July 23, 2021
<b>Lecturer</b>	<i>Jeffrey Esko &amp; Ryan Porell</i>	<i>Jeffrey Esko</i>	<i>Kamil Godula</i>	<i>Kamil Godula</i>	<i>Lance Wells</i>
<b>Topic</b>	<b>Overview (JE, in person) Glycolipids (RP, Zoom)</b>	<b>GAGs (in person)</b>	<b>N-Linked Glycans (in person)</b>	<b>O-Linked Glycans (in person)</b>	<b>Glycoproteomics (Zoom)</b>
8:30 - 9:20	<b>Lecture (Overview)</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)
9:20 - 9:30	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor
9:30 - 10:20	<b>Lecture (Glycolipids)</b> BRF2 4103 (Conference Room)	<b>Lab Orientation (BC)</b> BRF2 4243 (Lab)	<b>Lab Orientation (BC/PA)</b> BRF2 4243 (Lab)	<b>Lab Orientation (BC)</b> BRF2 4243 (Lab)	<b>Lab Orientation (BC)</b> BRF2 4243 (Lab)
10:20 - 10:35	<b>Lab Orientation-(JF)</b> BRF2 4103 (Conference Room)	<b>O-Glycan Workup (BC)</b> BRF2 4243 (Lab)	<b>O-Glycan Cleanup (BC)</b> BRF2 4243 (Lab)	<b>Start Mono/Sia (BC)</b> BRF2 4243 (Lab)	<b>DMB Tagging and UPLC Setup (BC)</b> BRF2 4243 (Lab)
10:35 - 12:10	<b>Ganglioside Extraction (JF)</b> BRF2 4243 (Lab)				<b>Lyophilization (N-Gly, O-Gly) (BC)</b> BRF2 4243 (Lab)
12:10 - 1:00	<b>Lunch</b> South Patio, 4th floor Grab & Go	<b>Lunch</b> South Patio, 4th floor Grab & Go	<b>Lunch</b> South Patio, 4th floor Grab & Go	<b>Lunch</b> South Patio, 4th floor Grab & Go	<b>Lunch</b> South Patio, 4th floor Grab & Go
1:00 - 2:15	<b>PNGaseF Digestion (BC)</b> BRF2 4243 (Lab)	<b>N-Glycan Purification by SPE (BC)</b> BRF2 4243 (Lab)	<b>PAGE-PNGaseF (PA)</b> BRF2 4243 (Lab)	<b>DMB Sample Prep (BC)</b> BRF2 4243 (Lab)	<b>Data Analysis (Mono) (BC)</b> BRF2 4243 (Lab)
2:15 - 3:00	<b>O-Glycan Release (Reductive <math>\beta</math>-Elimination) (BC)</b> BRF2 4243 (Lab)	<b>GAG Purification (DEAE + PD10) (BC)</b> BRF2 4243 (Lab)		<b>HPAEC-PAD (BC)</b> BRF2 4243 (Lab)	<b>Data Analysis (N-Glycan) (BC)</b> BRF2 4243 (Lab)
3:00 - 3:15	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor
3:15 - 4:00	<b>GAG Release (Pronase Digestion) (BC)</b> BRF2 4243 (Lab)	<b>GAG Purification contd. (BC)</b> BRF2 4243 (Lab)	<b>PAGE-PNGaseF contd. (PA)</b> BRF2 4243 (Lab)	<b>N-Glycan Workup (BC)</b> BRF2 4243 (Lab)	<b>DMB-HPLC-FL (BC)</b> BRF2 4243 (Lab)
4:00 - 5:30	<b>Ganglioside Analysis (JF)</b> BRF2 4243 (Lab)			<b>Aniline Tagging (BC)</b> BRF2 4243 (Lab)	<b>Data Analysis (Sia) (BC)</b> BRF2 4243 (Lab)
5:30 +				<b>Happy Hour</b> Bjs	

Week 2					
Time	Monday, July 26, 2021	Tuesday, July 27, 2021	Wednesday, July 28, 2021	Thursday, July 29, 2021	Friday, July 30, 2021
<b>Lecturer</b>	<i>Nissi Varki</i>	<i>Kamil Godula</i>	<i>Rick Cummings</i>	<i>Brett Crawford</i>	<i>Rob Woods</i>
<b>Topic</b>	<b>Histology (Zoom)</b>	<b>Glycoengineering (in person)</b>	<b>Lectins &amp; Microarrays (zoom)</b>	<b>Biotechnology (zoom)</b>	<b>Modeling (in person)</b>
8:30 - 9:20	<b>Lecture</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)	<b>Lecture</b> BRF2 4103 (Conference Room)
9:20 - 9:30	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor
9:30 - 9:45	<b>Lab Orientation (BC/PA)</b> BRF2 4103 (Conference Room)	<b>Lab Orientation (JF/PA)</b> BRF2 4103 (Conference Room)	<b>Lab Orientation (KG)</b> BRF2 4103 (Conference Room)	<b>Lab Orientation (KG/JF)</b> BRF2 4103 (Conference Room)	<b>Practical Training on Glycan Modeling</b> BRF2 4103 (Conference Room)
9:45 - 10:35	<b>GRIL-LC-MS (BC)</b> BRF2 4243 (Lab)	<b>Data Analysis</b> BRF2 4243 (Lab)	<b>Discuss TLC Results (JF)</b> BRF2 4103 (Conference Room)	<b>Process Microarrays (KG/JF)</b> BRF2 4243 (Lab)	
10:35 - 12:10	<b>PM-O-Glycan (BC)</b> BRF2 4243 (Lab)	<b>Discussion of GlycoAnalytics (BC)</b> BRF2 5A03 (Conference Room)		<b>Microarray Printing (KG/JF)</b> BRF2 4243 (Lab)	
12:10 - 1:10	<b>Lunch</b> South Patio, 4th floor Grab & Go		<b>Lunch</b> South Patio, 4th floor Grab & Go	<b>Lunch</b> South Patio, 4th floor Grab & Go	<b>Lunch</b> South Patio, 4th floor Grab & Go
1:10 - 2:10	<b>Lectin Histology (PA)</b> BRF2 4217, Bay BB (Lab)	<b>Lectin Histology Secondary (PA)</b> BRF2 4217, Bay BB (Lab)	<b>Cyclooctyne Fluorophore Treatment (JF)</b> BRF2 4218 (Tissue Culture Room)	<b>Visualize Microarrays (KG/JF)</b> BRF2 4243 (Lab)	<b>Final Presentation (10)</b> BRF2 4103 (Conference Room)
2:10 - 3:00		<b>Data Analysis and Presentation Prep</b> BRF2 4103 (Conference Room)	<b>Nanozoomer Histology Slide Scanner</b> BRF2 4103 (conference room, Zoom)		
3:00 - 3:30	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	<b>Break</b> South Patio, 4th floor	
3:30 - 3:45	<b>Cell Culture Setup (JF)</b> BRF2 4218 (Tissue Culture Room)	<b>Glycosylation Inhibitor Treatment (JF)</b> BRF2 4218 (Tissue Culture Room)	<b>Cell Fluorescence Imaging (JF)</b> BRF2 4218 (Tissue Culture Room)	<b>Data Analysis and Presentation Prep contd.</b> BRF2 4103 (Conference Room)	<b>Happy Hour</b> Draft Republic

<b>COLOR</b>	Ganglioside Analysis	O-Glycan Analysis	Monosaccharide Analysis	Metabolic Analysis	Common for All Glycan Types
<b>LEGEND</b>	N-Glycan Analysis	GAG Analysis	Lectin Histology	Microarray Analysis	Happy Hour Party