

GlycoBootcamp 2023 Schedule

Week 1					
Time	Monday, July 10, 2023	Tuesday, July 11, 2023	Wednesday, July 12, 2023	Thursday, July 13, 2023	Friday, July 14, 2023
Lecturer	<i>Kamil Godula & Philip Gordts</i>	<i>Jeffrey Esko</i>	<i>Philip Gordts</i>	<i>Gulcin Pekkurnaz</i>	<i>Alejandro Toledo</i>
Topic	Overview (PG, in person) Glycolipids (KG in person)	GAGs (in person)	N-Linked Glycans (in person)	O-Linked Glycans (virtual)	Glycoproteomics (virtual)
8:30 - 9:20	Lecture (Overview PG) & Breakfast BRF2 5A03 (Conference Room)	Lecture & Breakfast BRF2 5A03 (Conference Room)	Lecture & Breakfast BRF2 5A03 (Conference Room)	Lecture & Breakfast BRF2 4103 (Conference Room)	Lecture & Breakfast BRF2 4103 (Conference Room)
9:20 - 9:30	Break	Break	Break	Break	Break
9:30 - 10:30	Lecture (Glycolipids) KG 9:30-10:15am BRF2 5A03 (Conference Room)	Lab Orientation (BC,MP) 9:30-9:45am BRF2 4243 (Lab)	Lab Orientation (BC,MP) 9:30-9:45am BRF2 4243 (Lab)	Lab Orientation (BC,MP) 9:30-9:45am BRF2 4243 (Lab)	Lab Orientation (BC,MP) 9:30-9:45am BRF2 4243 (Lab)
	Lab, Safety, Waste Orientation (BC, MP, JS) 10:15-10:30am BRF2 4243 (Lab)	O-Glycan Workup (BC,MP) 9:45 - 10:30am BRF2 4243 (Lab)	Hydrolysis of N-Glycan for Monos, Sia and aliquot for MALDI and proc. (BC,MP) 9:45-10:15am BRF2 4243 (Lab)	Drying GAG disaccharide (BC,MP) 9:45-10:00am BRF2 4243 (Lab)	Drying of Aniline tagged HS and CS-DP2 (BC, MP) 9:45-10:00am BRF2 4243 (Lab)
			Drying GAG for CS and HS digestion (BC,MP) 10:15-10:30am BRF2 4243 (Lab)	DMB tagging of Sia from N-glycans (BC,MP) 10:00-10:30am BRF2 4243 (Lab)	Procainamide tagging of N-glycan (BC) 10:00-10:30am BRF2 4243 (Lab)
10:30 - 12:30	Ganglioside Extraction (CP) BRF2 4243 (lab)	Lyophilization (O-Gly) (BC,MP) 10:30-11:00am BRF2 4243 (Lab)	O-Glycan Workup (BC,MP) BRF2 4243 (Lab)	Permethylolation of N-Glycans (BC) BRF2 4243 (Lab)	Permethylolation of O-Glycan (BC, MP) BRF2 4243 (Lab)
		Purification of GAG (BC,MP) 11:00-12:30pm BRF2 4243 (Lab) [To be continued after lunch if necessary]			
12:30 - 1:30	Lunch BRF2 Patio 2A	Lunch BRF2 Patio 2A	Lunch BRF2 Patio 2A	Lunch BRF2 Patio 2A	Lunch BRF2 Patio 2A
1:30 - 2:15	N-glycan release (PNGase-F digestion) (BC,MP) BRF2 4243 (Lab)	N-Glycan purification (BC,MP) BRF2 4243 (Lab)	N-glycan Monos and Sia Workup (BC,MP) BRF2 4243 (Lab)	DMB-Sia UPLC-FL running (BC,MP) BRF2 4243 (Lab)	UPLC-FL of Procainamide tagged N-glycan (BC, MP) BRF2 4243 (Lab)
2:15 - 3:00	GAG Release (Pronase Digestion) (BC,MP) BRF2 4243 (Lab)		GAG Digestion (BC,MP) BRF2 4243 (Lab)	HPAEC-PAD of mono from N-glycans (BC,MP) BRF2 4243 (Lab)	
3:00 - 3:15	Break BRF2 4th Flr, South Patio	Break BRF2 4th Flr, South Patio	Break BRF2 4th Flr, South Patio	Break BRF2 4th Flr, South Patio	Break BRF2 4th Flr, South Patio
3:15 - 4:00	O-Glycan Release (Reductive β-Elimination) (BC,MP) BRF2 4243 (Lab)	N-Glycan purification contd. (BC,MP) BRF2 4243 (Lab)	PNGaseF Digestion (CP) BRF2 4243 (Lab)	Sia and Mono on N-glycan (BC,MP) BRF2 4243 (Lab)	PAGE-PNGaseF Analysis (CP) BRF2 4243 (Lab)
4:00 - 5:30	Ganglioside Analysis (CP) BRF2 4243 (Lab)		PAGE-PNGaseF (CP) BRF2 4243 (Lab)	Aniline Tagging (BC,MP) BRF2 4243 (Lab)	Happy Hour 4:00pm BRF2, Patio 2A

COLOR LEGEND	Ganglioside Analysis	O-Glycan Analysis	Happy Hour	Heparin ELISA	Data Analysis / Presentation Prep
	N-Glycan Analysis	GAG Analysis	Histology		Modeling

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Week 2					
Time	Monday, July 17, 2023	Tuesday, July 18, 2023	Wednesday, July 19, 2023	Thursday, July 20, 2023	Friday, July 21, 2023
Lecturer	<i>Kayvon Pedram</i>	<i>Kamil Godula</i>	<i>Geert-Jan Boons</i>	<i>Daniel Bojar</i>	<i>Rob Woods</i>
Topic	Visualizing Glycans (virtual)	Glycoengineering/Inhibitors (in person)	Lectins & Microarrays (virtual)	Bioinformatics (virtual)	Modeling (virtual)
8:30 - 9:20	Lecture & Breakfast BRF2 5A03 (Conference Room)	Lecture & Breakfast BRF2 5A03 (Conference Room)	Lecture & Breakfast BRF2 5A03 (Conference Room)	Lecture & Breakfast BRF2 5A03 (Conference Room)	Lecture & Breakfast BRF2 5A03 (Conference Room)
9:20 - 9:30	Break		Break	Break	Break
9:30 - 9:45	Lab Orientation (JS) Histology Primer BRF2 5A03 (Conference Room)		Lab Orientation (SL) BRF2 5A03 (Conference Room)	Practical Training on Glycan Modeling BRF2 5A03 (Conference Room)	
9:45 - 10:30	Histology (JS) 9:45-10:00am BRF2 4217, Bay MM (Lab) Digestion and Block (15 mins)	Break 9:45-10:00am	Hep-ELISA: Wash, Add Primary Ab (SL) 9:45-10:15am BRF2 4243 (Lab)		
	Drying & spotting of N-/O-Glycan & Ganglioside for MALDI (BC,MP) 10:00-11:00am BRF2 4243 (Lab)	Data Analysis for N-/O-glycan, GAG and Ganglioside (BC, MP) 10:00-11:15am BRF2 4243 (Lab)	Data Analysis for N-/O-glycan, GAG and Ganglioside (BC, MP) 10:15-11:30am BRF2 5A03 (Conference Room)		
10:30 - 12:00	GRIL-LC-MS (BC, MP) 11:00-12:00pm BRF2 4243 (Lab)	Histology Secondary (JS) 11:15am-12:00pm BRF2 4217, Bay MM (Lab) Washes (15 mins); Add Secondary (15 mins)	Hep-ELISA: Wash, Add Secondary Ab (SL) 11:30am-12:00pm BRF2 4243 (Lab)		
12:00 - 1:00	Lunch BRF2 Patio 2A	Lunch BRF2 Patio 2A	Lunch BRF2 Patio 2A		Lunch BRF2 Patio 2A
1:00 - 2:00	Histology: Treatments (JS) 1:00-3:00pm BRF2 4217, Bay MM (Lab) Peroxidase and Avidin/Biotin Block	Histology (JS) 1:00-3:00pm BRF2 4217, Bay MM (Lab) Washes, Development, Coverslip	Hep-ELISA: Wash and Develop (SL) BRF2 4243 (Lab)	Data Analysis and Presentation Prep BRF2 5A03 (Conference Room)	Final Presentation (8) BRF2 5A03 (Conference Room)
2:00 - 3:15	Histology: Primary Abs (JS) 3:00-3:15pm BRF2 4217, Bay MM (Lab) Add Primary Abs (15 mins)	Break 3:00-3:15pm BRF2 4th Flr, South Patio	Nanozoomer Histology Slide Scanner BRF2 5A03 (conference room, Zoom)		
3:15 - 3:30	Break BRF2 4th Flr, South Patio	Hep-ELISA: Blocking (SL) BRF2 4243 (Lab)			
3:30 - 3:45	Hep-ELISA: Adsorption (SL) BRF2 4243 (Lab)	Data Analysis for N-/O-glycan, GAG and Ganglioside (BC, MP) BRF2 4243 (Lab)	Break BRF2 5A03 (conference room)	Break BRF2 5A03 (conference room)	
3:45 - 4:15	Lab Recap/Q&A (JS, SL, CP, BC) BRF2 4243 (Lab)		Data Analysis and Presentation Prep: Label PNGase Gel and Ganglioside TLCs (CP) BRF2 5A03 (Conference Room)	Data Analysis and Presentation Prep BRF2 5A03 (Conference Room)	
4:15 - 4:45					Happy Hour 4:15pm BRF2, Patio 2A
4:45 - 5:30	Data Analysis and Presentation Primer (CP, JS, SL) BRF2 5A03 (Conference Room)	Hep-ELISA: Protein Incubation (SL) BRF2 4243 (Lab)			
5:30 +					

COLOR LEGEND	Ganglioside Analysis	O-Glycan Analysis	Happy Hour	Heparin ELISA	Data Analysis / Presentation Prep
	N-Glycan Analysis	GAG Analysis	Histology		Modeling