

Glycobiology (2017) T3544

Department of Medical Laboratory Science and Biotechnology, NCKU

Course organizers: Chuan-Fa Chang Ph. D. (5796)

Time: 10:10-12:00, Thursday

Place: Room 5777, MT Building

Date (2017)	Lecture title	Speaker	Presenter
1. 09/21	Concepts of glycobiology	C. F. Chang	
2. 09/28	Monosaccharide metabolism and sugar nucleotides	C. F. Chang	
3. 10/05	General pathways for biosynthesis and biological roles	C. F. Chang	
4. 10/12	<i>N</i> -linked and <i>O</i> -linked glycosylation	C. F. Chang	
5. 10/19	EID 報告	C. F. Chang	
6. 10/26	Glycolipids and Membrane Protein Glycosylation	C. F. Chang	
7. 11/02	Nucleocytoplasmic glycosylation and the O-GlcNAc Modification	C. F. Chang	
8. 11/09	Effects on glycosylation on protein structure and function	C. F. Chang	
9. 11/16	Mid-exam	C. F. Chang	
10. 11/23	Glycosyltransferases and glycosidases	C. F. Chang	
11. 11/30	Glycoprotein trafficking and carbohydrate recognition	C. F. Chang	
12. 12/07	Glycosylation in cancer	C. F. Chang	
13. 12/14	Glycosylation in congenital and systemic diseases	C. F. Chang	
14. 12/21	Glycan structure analysis	C. F. Chang	
15. 12/28	Glycomics and bioinformatics	C. F. Chang	
16. 01/04	Student presentation 01	C. F. Chang	W. L. Lin
17. 01/11	Student presentation 02	C. F. Chang	W. L. Lin
18. 01/18	Final-exam	C. F. Chang	

Evaluation: Presentation and questions: 40%; mid-exam: 30%; final exam: 30%

Textbook: Essentials of Glycobiology, 3rd Edition

Editors: Ajit Varki, Executive Editor, Richard D Cummings, Jeffrey D Esko, Pamela Stanley, Gerald W Hart, Markus Aebersold, Alan G Darvill, Taroh Kinoshita, Nicolle H Packer, James H Prestegard, Ronald L Schnaar, and Peter H Seeberger.

<https://www.ncbi.nlm.nih.gov/books/NBK310274/>