

9. Antibody Therapeutics
1 unit, David Scheinberg, September 23, 2026

Didactic session 1
Antibody structure and function
Workshop 1

Didactic session 2
antibody conjugates
Workshop 2

Please read before class:

Gardner TJ, Lee JP, Bourne CM, Wijewarnasuriya D, Kinarivala N, Kurtz KG, Corless BC, Dacek MM, Chang AY, Mo G, Nguyen KM, Brentjens RJ, Tan DS, Scheinberg DA. Engineering CAR-T cells to activate small-molecule drugs in situ. *Nat Chem Biol.* 2022 Feb;18(2):216-225. doi: 10.1038/s41589-021-00932-1. Epub 2021 Dec 30. PMID: 34969970; PMCID: PMC9152922.

Malviya M, Aretz ZEH, Molvi Z, Lee J, Pierre S, Wallisch P, Dao T, Scheinberg DA. Challenges and solutions for therapeutic TCR-based agents. *Immunol Rev.* 2023 Nov;320(1):58-82. doi: 10.1111/imr.13233. Epub 2023 Jul 16. PMID: 37455333; PMCID: PMC11141734.

Zhang Y. Evolution of phage display libraries for therapeutic antibody discovery. *MAbs.* 2023 Jan-Dec;15(1):2213793. doi: 10.1080/19420862.2023.2213793. PMID: 37222232; PMCID: PMC10210849. Zhang Y. Evolution of phage display libraries for therapeutic antibody discovery. *MAbs.* 2023 Jan-Dec;15(1):2213793. doi: 10.1080/19420862.2023.2213793. PMID: 37222232; PMCID: PMC10210849.