## **Quantitative Microbiology**

PHYS 176/276 Instructor: Terry Hwa Winter 2025

course website: https://matisse.ucsd.edu/courses/ w25-quant-microb/





























protein = defined sequence of 20 amino acids protein synthesis: ribosomes aa-tRNA aa-tRNA aa-tRNA aa-tRNA aa-tRNA aa-tRNA aa-tRNA barran tRNA charging flux  $J_i = k_i[RS_i] \frac{[a_i]}{K_{a,i} + [a_i]} \cdot \frac{[tR_i]}{K_{tR,i} + [tR_i]}$ 

























