

One of the most impactful things I learned in this immunology class was how the immune system distinguishes between self and non-self through mechanisms like MHC presentation and T-cell selection. This concept is connected directly to what I've learned in cell biology, where understanding gene expression and protein interaction is essential. Seeing how antigen presentation works helped clarify how the immune system can identify and eliminate infected or abnormal cells while usually avoiding healthy ones. It also helped me better understand that autoimmune diseases develop when this system breaks down. This knowledge is essential in biomedicine, where immune responses often play a central role in disease progression and treatment outcomes. Learning these concepts made me more confident in reading scientific literature and connecting biological systems across different courses. Overall, this class strengthens my ability to think critically about how the body protects itself and how that protection can sometimes go wrong.