

If you are looking for review materials, practice MCQs and FRQs and full length practice exams, consider Ms. Wuerth's book [Barron's AP Biology](#), she hopes you find it useful!

AP Daily 4.3 - Signal Transduction

1. Signal transduction pathways are important because they allow cells to respond to changes in their _____
2. In the example with epinephrine, the binding of epinephrine to its _____ ultimately leads to the breakdown of _____ leading to increased levels of _____ being available to the cell.
3. Signaling pathways that target gene expression can alter the amount or types of _____ in a cell.
4. Programmed cell death (also known as _____) can also be a result of signal transduction
5. _____ allows bacteria to detect changes in population density.
6. Why would some cells respond to the ligand epinephrine while other cells do not?