The Notch signaling system has been shown to play a role in at least two aspects of inner ear development: specification of the prosensory patches and differentiation of hair cells.

Summarize the strengths and weaknesses of a simple lateral inhibition model based on the Notch system as an explanation for these two aspects of inner ear differentiation. Be careful to focus on analyzing the arguments rather than simply describing the components of the Notch pathway (i.e., don’t repeat your answers to quiz #4, presuming that you described the role of the Notch pathway in directing apoptosis in limb development as part of that assignment).

Limit your summary to two pages; be sure to cite your sources.

Due May 8