

In-class writing assignment 10-4-2018

Prompt:

The introduction to a research paper has two important purposes—to describe important information established by previous researchers and to identify the gap in knowledge that the research that was performed was intended to fill.

In the paper by Pokholok, what previous information do the authors present about the function of signaling transduction pathways and what gap our knowledge did they intend to fill?

Answer:

Previous information included that signal transduction pathways mediate cellular responses to external signals by modifying gene expression. This control was thought to not occur at the controlled genes but recent evidence showed that Hog1 protein did associate physically with some controlled genes and that signal kinases had been found in the nucleus.

The gap in knowledge is whether association of such kinases with targeted genes was general, meaning that many kinases might associate with their targeted genes.