

Syndecan-4 in cell signaling and membrane trafficking

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Statements

Syndecan-4 in cell signaling and membrane trafficking

1. The role of syndecan-4 in development is unclear, but syndecan-4 is important for survival.
2. Syndecan-4 is an acute response molecule that is important in assembling cell migratory signaling complexes.
3. Binding of syndecan-4 to PDZ-domain containing protein(s) is important for proper subcellular targeting of active enzymes.
4. Oligomerization of syndecan-4 upon ligand binding directs both the ligand and syndecan-4 into macropinosomes.
5. *“No law of nature, however general, has been established all at once; its recognition has always been preceded by many presentiments. The establishment of a law, moreover, does not take place when the first thought of it takes form, or even when its significance is recognized, but only when it has been confirmed by the results of the experiment. The man of science must consider these results as the only proof of the correctness of his conjectures and opinions.”* - Dmitriy Ivanovich Mendeleev
6. Science is a way to satisfy one's curiosity at the public's expense.
7. It is impractical to study evolutionarily conserved cellular mechanisms in complex mammals such as mice instead of simpler organisms.
8. Cell biology is a suitable research territory for people who need to see in order to believe.
9. *“I assure you that you'll hear either nothing or something really good about me.”*
-Nikolai Vasilevich Gogol
10. *“[O]ur moral judgments and evaluations...are only images and fantasies based on a physiological process unknown to us.”* - Friedrich Nietzsche