

STRUCTURE & FUNCTION

Describe an example of a structure-function relationship at the molecular level in animals.

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Describe an example of a structure-function relationship at the cellular level in animals.

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Describe an example of a structure-function relationship at the tissue level in animals.

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Describe an example of a structure-function relationship at the organ level in animals.

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Describe an example of a structure-function relationship at the organism level in animals.

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Describe how the physical properties of water contribute to transpiration

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Describe how the physical properties of water contribute to plasma membrane structure

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Describe how the physical properties of water contribute to thermoregulation in endotherms

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Discuss the levels of protein structure & the role of specific bonds at each level

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Discuss how the structure of a protein affects enzyme activity

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Discuss the difference in structure between cellulose & starch & how that affects digestion in animals

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Discuss how the structure of a protein affects a muscle contraction.

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Describe an adaptation that increases surface area in an animal system. Explain how this improves the function of the system

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Describe a countercurrent exchange system & explain its adaptive advantage

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Describe a function that requires the conformational change of a protein

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Describe an example of a structure-function relationship at the molecular level in plants.

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Describe an example of a structure-function relationship at the cellular level in plants.

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Describe an example of a structure-function relationship at the tissue level in plants.

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Describe an example of a structure-function relationship at the organism level in plants.

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