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1 Animals and Environments

Introduction

- ▶ What is physiology?
 - o Form and function of organisms; the study of how organisms work.
- ▶ Central questions of physiology: Mechanism and Origin.
- ▶ Mechanism:
 - refers to the components of living organisms and understanding how components interact to enable the organism to function.
- ▷ Origin:
 - asks why a mechanism exists, or what is the mechanistic adaptive significance of the mechanism.
- ▶ August Krogh,

"For such a large number of problems there will be some animal of choice or a few such animals on which it can be most conveniently studied."

Homeostasis

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Physiology and Time

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2 Molecules and Cells in Animal Physiology

Cell Membranes

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Enzyme Fundamentals

3 Genomics and Proteomics

4 Physiological Development

5 Transport of Solutes and Water

27 Water and Salt Physiology: Mechanisms

7 Nutrition, Feeding, and Digestion