Mindluster Platform

About the course Insulin Signaling Cascade Effects

Insulin Signaling Cascade course, in this course delves into the intricate molecular pathways triggered by insulin binding to its receptor, regulating glucose metabolism and other cellular processes. Students will explore the key components of the insulin signaling cascade, including receptor activation, tyrosine phosphorylation, and downstream signaling events involving PI3K/Akt and MAPK pathways. Through lectures and laboratory demonstrations, learners will gain insights into the physiological effects of insulin on glucose uptake, glycogen synthesis, protein synthesis, and lipid metabolism. Additionally, we'll discuss the dysregulation of insulin signaling in metabolic disorders such as type 2 diabetes mellitus and potential therapeutic interventions targeting this pathway.

Medical Category's Courses

Course Lesson(6)

Lesson 1 : **Overview of Glycolysis Basics for Beginners Biochemistry Lesson**

Lesson 2 : **Insulin Signaling Cascade and Downstream Effects Biochemistry Lesson**

Lesson 3 : **Glucose Transporters GLUTs and SGLTs Biochemistry Lesson**

Lesson 4 : **Gluconeogenesis Pathway Overview Enzymes Co Factors and Precursors**

Lesson 5 : **Glycogen Metabolism Glycogenolysis Pathway Enzymes and Regulation**

Lesson 6 : **Glucose Alanine Cycle Cahill Cycle Nitrogenous Waste Transport and Removal**

Related courses

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Male Reproductive

Anatomy

Pharynx

Endocrine

General Embryology

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