Mindluster Platform

About the course Hedgehog Signaling Pathway in Vertebrates

Hedgehog Signaling Pathway course, in this course is a vital cellular pathway regulating growth and development in vertebrates. In this course, we will learn about the Hedgehog Signaling Pathway, its key components, and its role in embryonic development, tissue regeneration, and disease. Through lectures and case studies, students will gain insights into how dysregulation of this pathway contributes to various disorders, including cancer and birth defects, and explore potential therapeutic interventions targeting this pathway.

Medical Category's Courses

Course Lesson(20)

Lesson 1 : **Insulin Signaling Cascade and Downstream Effects Biochemistry Lesson**

Lesson 2 : **mTOR Signaling Pathway Regulation by the Lysosome**

Lesson 3 : **AMPK Signaling Pathway Regulation and Downstream Effects**

Lesson 4 : **Ras Raf MEK ERK Signaling Pathway Overview Regulation and Role in Pathology**

Lesson 5 : **mTOR Signaling Pathway mTOR Complexes Regulation and Downstream effects**

Lesson 6 : **JAK STAT Signaling Pathway**

Lesson 7 : **AKT Signaling Pathway Regulation and Downstream Effects**

Lesson 8 : **Ras Raf MAPK Pathway and Cancer Mutations Cancer Pathogenesis and Chemotherapy**

Lesson 9 : **Notch Signaling Pathway Purpose and Mechanism**

Lesson 10 : **Wnt Î² Catenin Signaling Pathway Overview Purpose and APC Mutations**

Lesson 11 : **Non Canonical NF kB Signaling Pathway Mechanism and Function**

Lesson 12 : **Introduction to Hedgehog Signaling Hedgehog Protein Synthesis and Release**

Lesson 13 : **Hedgehog Signaling Pathway in Invertebrates Mechanism and Role in Development**

Lesson 14 : **Hedgehog Signaling Pathway in Vertebrates Purpose and Mechanism**

Lesson 15 : **Inositol Triphosphate IP3 and Calcium Signaling Pathway Second Messenger System**

Lesson 16 : **mTOR Signaling Pathway Nutrient and Cell Stress Regulation**

Lesson 17 : **Introduction to RANKL RANK OPG Signaling Pathway**

Lesson 18 : **JAK STAT Signaling Pathway Regulation**

Lesson 19 : **Ras Raf MEK ERK Signaling and the mTOR Pathway Interactions and Regulation**

Lesson 20 : **AKT Signaling Pathway Regulation by the Insulin Signaling Cascade**

Related courses

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