Mindluster Platform

About the course Pentose Phosphate Pathway Regulation

Pentose Phosphate Pathway course, in this course we will delve into the intricate mechanisms of the Pentose Phosphate Pathway (PPP), exploring its pivotal role in cellular metabolism. Students will uncover the biochemical reactions involved in the generation of pentose sugars, NADPH, and ribose-5-phosphate, essential for nucleotide synthesis and cellular redox balance. Emphasis will be placed on understanding the regulation, significance, and metabolic interconnections of the PPP in various physiological contexts, including its implications in health and disease.

Medical Category's Courses

Course Lesson(34)

Lesson 1 : **Biochemistry Michaelis Menten Equation**

Lesson 2 : **Biochemistry Enzyme Inhibition**

Lesson 3 : **Biochemistry Michaelis Menten Lineweaver Burk Plot**

Lesson 4 : **Metabolism Glycolysis**

Lesson 5 : **Metabolism Regulation of Glycolysis**

Lesson 6 : **Metabolism Transition Stage Preparatory Phase**

Lesson 7 : **Metabolism Regulation of the Transition Stage**

Lesson 8 : **Metabolism The Krebs Cycle**

Lesson 9 : **Metabolism Electron Transport Chain Overview**

Lesson 10 : **Metabolism Electron Transport Chain DETAILED Part 1**

Lesson 11 : **Metabolism Electron Transport Chain DETAILED Part 2**

Lesson 12 : **Metabolism Electron Transport Chain DETAILED Part 3**

Lesson 13 : **Metabolism Glycogenesis**

Lesson 14 : **Metabolism Glycogenolysis**

Lesson 15 : **Metabolism Regulation of Glycogen Metabolism**

Lesson 16 : **Metabolism Gluconeogenesis**

Lesson 17 : **Metabolism Regulation of Gluconeogenesis**

Lesson 18 : **Metabolism Fatty Acid Synthesis Part 1**

Lesson 19 : **Metabolism Fatty Acid Synthesis Part 2 Updated**

Lesson 20 : **Metabolism Triglyceride Synthesis**

Lesson 21 : **Metabolism Mobilization of Triglycerides**

Lesson 22 : **Metabolism Fatty Acid Oxidation Part 1**

Lesson 23 : **Metabolism Fatty Acid Oxidation Part 2**

Lesson 24 : **Metabolism Amino Acid Metabolism**

Lesson 25 : **Metabolism Urea Cycle**

Lesson 26 : **Metabolism Ketone Metabolism**

Lesson 27 : **Metabolism Pentose Phosphate Pathway**

Lesson 28 : **Metabolism Regulation of Pentose Phosphate Pathway**

Lesson 29 : **Metabolism The Metabolic Map Carbohydrates**

Lesson 30 : **Metabolism The Metabolic Map Lipids**

Lesson 31 : **Metabolism The Metabolic Map Proteins**

Lesson 32 : **Metabolism Cholesterol Metabolism**

Lesson 33 : **Metabolism Lipoprotein Metabolism Chylomicrons VLDL IDL LDL HDL**

Lesson 34 : **Metabolism Nucleotide Synthesis Purine Pyrimidine Synthesis**

Related courses

Infection Control

Male Reproductive

Anatomy

Pharynx

Endocrine

General Embryology

for Business Contact
business@mindluster.com