

Biotransformations In Organic Chemistry

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Explore the critical role of biotransformations in organic chemistry, leveraging biological systems like enzymes for highly efficient and selective reactions. This field is fundamental to modern biocatalysis and green chemistry, enabling the sustainable synthesis of complex organic compounds with reduced environmental impact.

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Biotransformations In Organic Chemistry

Phase 2 Biotransformation reaction - Phase 2 Biotransformation reaction by Animated biology With arpan 36,111 views 7 years ago 6 minutes, 37 seconds - Hi in this video I would talk about phase 2 by transformation reaction and phase 2 **biotransformation**, reaction occurs in the cell ...

Pharmacokinetics 4 - Metabolism - Pharmacokinetics 4 - Metabolism by Handwritten Tutorials 668,214 views 11 years ago 5 minutes, 20 seconds - <http://www.handwrittentutorials.com> - This tutorial is the fourth in the Pharmacokinetics series. This tutorial discusses how drugs ...

Introduction

P450 Enzymes

Metabolism Processes

Aspirin

Biotransformation: Introduction - Biotransformation: Introduction by Pharmapedia 6,951 views 6 years ago 5 minutes, 15 seconds - Biotransformation, is the **chemical**, changing of substances in the body the purpose of bio transformation is to transform fat soluble ...

Gastrointestinal | Biotransformation of Drugs and Toxins - Gastrointestinal | Biotransformation of Drugs and Toxins by Ninja Nerd 220,424 views 5 years ago 36 minutes - In this lecture Professor Zach Murphy will be teaching you about the **Biotransformation**, of Drugs and Toxins. We hope you enjoy ...

Xenobiotic Metabolism What Is Xenobiotics

Phases of Xenobiotic Metabolism

Endoplasmic Reticulum

Smooth Endoplasmic Reticulum

Cytochrome P450 Complex

Oxidation Reaction

Ultra-Rapid Metabolizers

Morphine

Glutathione S Transferase

Acetyl Transferase

Alcohol Dehydrogenase

Adh

Reactive Oxygen Species

Dna

Krebs Cycle

Glutathione

Biotransformation - Biotransformation by Animated biology With arpan 58,341 views 7 years ago 12 minutes, 40 seconds - This video explains how drugs are metabolized in the liver and how they are bio-transformed and eliminated in the urine.

Biotransformation

Phase 1 Reaction

Hydrolysis

Acetylation

Key Concepts of the Bio Transformation

Biotransformation - Biotransformation by Pharmapedia 36,926 views 8 years ago 11 minutes, 4 seconds - Let's talk about **biotransformation**, bio biologic transformation to change and so everything that you eat that is absorbed by the ...

Biotransformation, Detoxification, Metabolism of Xenobiotics - Biotransformation, Detoxification, Metabolism of Xenobiotics by Biochemistry by Dr Rajesh Jambhulkar 295,037 views 4 years ago 18 minutes - Phase 1 Reactions 1. Oxidation/ Hydroxylation involves cytochrome p450 examples- Oxidation of Alcohol, aldehydes, amines, ...

The Functional Group Concept Explained | Organic Chemistry | FuseSchool - The Functional Group Concept Explained | Organic Chemistry | FuseSchool by FuseSchool - Global Education 668,810 views 10 years ago 4 minutes, 50 seconds - The Functional Group Concept Explained | **Organic Chemistry**, | FuseSchool This is an introduction to the Functional Group ...

Introduction

What is Organic Chemistry

Alkanes

Functional Groups

biotransformation/microbial transformation/bioconversion - biotransformation/microbial transformation/bioconversion by nm 19 views 11 months ago 17 minutes - using microorganism to convert one **organic**, compound to chemically related compound.

BIOTECHNOLOGY in the Future: 2050 (Artificial Biology) - BIOTECHNOLOGY in the Future: 2050 (Artificial Biology) by Venture City 848,967 views 8 months ago 11 minutes, 35 seconds - What happens when humans begin combining biology with technology, harnessing the power to recode life itself. What does the ...

Pharmacokinetics: Drug absorption and distribution - Pharmacokinetics: Drug absorption and distribution by Osmosis from Elsevier 32,127 views 2 months ago 13 minutes, 27 seconds - Join millions of current and future clinicians who learn by Osmosis, along with hundreds of universities around the world who ...

Introduction

Absorption

Factors influencing absorption

Bioavailability

You Are a Molecular Masterpiece | Samantha Yammine | TEDxDownsviewWomen - You Are a Molecular Masterpiece | Samantha Yammine | TEDxDownsviewWomen by TEDx Talks 26,536 views 5 years ago 9 minutes, 56 seconds - Who are you? What are you made of? Science communicator, Samantha Yammine, breaks down the mystery of what makes us ...

Overview of Organic Compounds - Overview of Organic Compounds by Nucleus Biology 10,623 views 2 years ago 5 minutes, 4 seconds - #OrganicCompounds #OrganicMonomers #polymers

SCIENCE ANIMATION TRANSCRIPT: Today, we are going to be talking ...

All organic compounds contain CARBON

Macromolecule (DNA)

4 types of organic macromolecules

Phase I Metabolism - Pharmacology Lect 7 - Phase I Metabolism - Pharmacology Lect 7 by Areo Saffarzadeh 289,394 views 11 years ago 6 minutes, 56 seconds - Drug Metabolism - Phase 1 A video overview of Phase I metabolism & cytochrome P450 system (CYP450, P450). View the rest of ...

Intro

Phase I Metabolism

Alcohol dehydrogenase

How does your body process medicine? - Céline Valéry - How does your body process medicine? - Céline Valéry by TED-Ed 4,483,729 views 6 years ago 4 minutes, 13 seconds - Have you ever wondered what happens to a painkiller, like ibuprofen, after you swallow it? Medicine that slides down your throat ...

Basic Organic Chemistry Concepts - Full Review - Basic Organic Chemistry Concepts - Full Review by Transcended Institute 4,435 views 5 months ago 7 hours, 9 minutes - In this video we cover Basic **Organic Chemistry**, Concepts in full.

Functional Groups Organic Chemistry - Functional Groups Organic Chemistry by Najam Academy 644,307 views 2 years ago 6 minutes, 12 seconds - This lecture is about functional groups in **organic chemistry**,. In this animated lecture. Q: What is functional group? Ans: An atom or ...

HYDROCARBONS

WHAT IS FUNCTIONAL GROUP?

LIST OF FUNCTIONAL GROUPS

CLASSIFYING ORGANIC COMPOUNDS

Carbenes Part 1: Properties and Formation - Carbenes Part 1: Properties and Formation by Professor Dave Explains 39,328 views 3 years ago 7 minutes, 3 seconds - We've learned about a variety of different unstable carbon species, like carbocations, carbanions, and carbon radicals. But there ...

Carbon-Containing Compounds

Types of Carbon Species

Types of Carbenes highly reactive carbon species

Preparation of Carbenes

PROFESSOR DAVE EXPLAINS

Xenobiotics part 2 (Phase 2 and 3 reactions) - Xenobiotics part 2 (Phase 2 and 3 reactions) by Medical Biochemistry by Dr Nikunj Modi 5,693 views 3 years ago 17 minutes - In this video phase 2 and 3 of xenobiotic metabolism is explained. Methylation is exception in phase 2 particularly for mercury, ...

drug metabolism phase 1 and phase 2 | biotransformation | L-9, U-1 | medicinal chemistry 4th semester - drug metabolism phase 1 and phase 2 | biotransformation | L-9, U-1 | medicinal chemistry 4th semester by Carewell pharma 298,661 views 2 years ago 19 minutes - In this Video we Cover, 1. physicochemical properties in relation to biological action By @Carewell pharma drug metabolism drug ...

biotransformation - biotransformation by pharmacy fun 42,203 views 7 years ago 3 minutes, 59 seconds - reference= LEON SHARGEL pathways of **biotransformation**,.

BIOTRANSFORMATION - BIOTRANSFORMATION by Dr.koshal yadav 289 views 1 year ago 17 minutes - BIOTRANSFORMATION, , introduction, definition, concept behind it, drug metabolism, liver is the main site ,GIT TRACT ,lungs ...

Organic Molecules / Organic Chemistry (updated) - Organic Molecules / Organic Chemistry (updated) by Beverly Biology 22,623 views 6 years ago 11 minutes, 6 seconds - This video discusses Carbon as the building block of **organic**, molecules. Teachers: This PowerPoint can be purchased from my ...

Organic Molecules

Methane (CH₄)

Carbon creates 4 bonds to be stable

BIOTRANSFORMATIONS | BIOTECHNOLOGY | APPLICATIONS | ADVANTAGES | BENEFITS | BIOCATALYST - BIOTRANSFORMATIONS | BIOTECHNOLOGY | APPLICATIONS | ADVANTAGES | BENEFITS | BIOCATALYST by PHARMAROCKS MEDICINE 10,642 views 3 years ago 38 minutes - BIOTRANSFORMATIONS Biotransformation, is a process in which microorganisms convert **organic**, compounds into its structurally ...

biotransformation phase I and phase II Reactions - biotransformation phase I and phase II Reactions by COURSES OF ZOOLOGY 3,551 views 2 years ago 15 minutes - this video describes the **biotransformation**, phase I and phase II reaction.

Phase I & Phase II Biotransformation - Phase I & Phase II Biotransformation by TheAncientScholar 83,766 views 10 years ago 23 minutes - What are the differences between these two phases of drug

biotransformation,/metabolism?

Introduction

Phase II

Draw a picture

Draw a line

Electrophilic

Hydrolysis

Glucuronidation

User Customized Biotransformations with MedChem Studio™ and MedChem Designer™ - User Customized Biotransformations with MedChem Studio™ and MedChem Designer™ by Simulations Plus, Inc. 1,302 views 8 years ago 8 minutes, 32 seconds - This video illustrates features in MedChem Studio and MedChem Designer that allow one to create customized **biotransformation**, ...

Introduction

Biotransformation example

Inplace transformation

Perform reaction

Phase 2 biotransformation

Outro

Biotransformation of drugs -part 2 | phase 1 & 2 reactions | Pharmacokinatic - Biotransformation of drugs -part 2 | phase 1 & 2 reactions | Pharmacokinatic by MK MediGuide Lectures 37,133 views 3 years ago 14 minutes, 16 seconds - Biotransformation, of drugs -part 2 | phase 1 & 2 reactions | Pharmacokinatic Metabolism or **biotransformation**, of drugs or ...

Introduction

Hofmann elimination

Phase 1 reactions

Oxidation reactions

Reduction reactions

Phase 2 reactions

Conclusion

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