



UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Biochemistry I

1718-1-H4102D001-H4102D002M

Obiettivi

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Fornire i concetti necessari per comprendere i fenomeni biologici e cambiamenti energetici ad essi collegati

Spiegare la correlazione tra funzione e struttura molecolare, i fenomeni complessi di comunicazione, l'interazione e controllo delle funzioni delle cellule e dei tessuti;

Spiegare come le funzioni di organi possono essere regolate in base ai loro particolari processi biochimici, concentrandosi sulla integrazione metabolica

Contenuti sintetici

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Il modulo di Biochimica illustrerà l'importanza delle reazioni chimiche che sostengono la vita . Tratterà gli aspetti della Biochimica generale, della Biochimica sensoriale e metabolica umana. Inoltre descriverà dettagliatamente la Biochimica integrata di organi e tessuti. Fornirà le conoscenze utili per la migliore comprensione delle altre discipline mediche e cliniche

Programma esteso

TEMI

- Macromolecole: struttura e funzione.
- Enzimi. Controllo delle vie metaboliche. Uso diagnostico di enzimi e isoenzimi.
- energia e metabolismo: le reazioni della vita
- Il fabbisogno energetico e le spese in condizioni diverse. Bioenergetica e metabolismo in condizioni fisiologiche
- metabolismo dei carboidrati: digestione, l'assorbimento. glicolisi aerobica e anaerobica. Il metabolismo del galattosio e fruttosio. Il glicogeno, glicogenolisi.
- I lipidi e gli steroidi
metabolismo dei lipidi: la digestione e l'assorbimento. Catabolismo dei lipidi. Sintesi.
Metabolismo del colesterolo e dei suoi derivati. Il metabolismo dei corpi chetonici.
Lipoproteine plasmatiche e il loro metabolismo
- Gli aminoacidi e nucleotidi: digestione delle proteine, assorbimento e trasporto di aminoacidi. Il metabolismo degli aminoacidi. ciclo dell'urea acidi nucleici: Il metabolismo di nucleotidi purinici e pirimidinici

Prerequisiti

Conoscenze di base in Chimica e Fisica

Modalità didattica

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Lezioni frontali

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Periodo di erogazione dell'insegnamento

2° semestre

Modalità di verifica del profitto e valutazione

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Orario di ricevimento

su appuntamento
