COURSE DETAIL

MOLECULAR NUTRITION
Country Denmark
Host Institution Aarhus University
Program(s) Aarhus University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Health Sciences Biological Sciences
UCEAP Course Number 111
UCEAP Course Suffix
UCEAP Official Title MOLECULAR NUTRITION
UCEAP Transcript Title MOLECULAR NUTRITION
UCEAP Quarter Units 8.00
UCEAP Semester Units 5.30

Course Description

This course provides a basic introduction to human nutrition with emphasis on the underlying molecular mechanisms and aspects. Topics include: an introduction to the anatomy and physiology of the gastrointestinal system, including an introduction to the natural bacterial microbiota in the digestive system and its influence on human nutrition and health; the study types used in human nutrition studies; energy balance and macro nutrients in human nutrition; a detailed mapping of the structure and mechanisms of action of vitamins, and their influence on human health; an overview of minerals and trace elements in food and the importance on health conditions; "functional foods" and selected additives and their mechanism of action and impact on health; the relation between diet and the development of lifestyle diseases. The course involves laboratory exercises of glucose tolerance test after intake of different food components and DEXA body scanning.

Language(s) of Instruction
English

Host Institution Course Number
555171U005

Host Institution Course Title
MOLECULAR NUTRITION

Host Institution Course Details
https://kursuskatalog.au.dk/en/course/120811/Molecular-Nutrition

Host Institution Campus
Aarhus

Host Institution Faculty
Natural Sciences

Host Institution Degree
Bachelor

Host Institution Department
Molecular Biology and Genetics

Course Last Reviewed
2023-2024

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