

Màster Biomedicina

Nom de l'assignatura: *New Therapies and Translational Research in metabolic pathologies*

Crèdits: 3 ECTS

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Subject areas:

Diabetes treatment. (8h)

Physical activity and diet.
Insulin treatment for diabetes.
Oral antidiabetic drugs.
New approaches in the treatment of type 1 and type 2 diabetes mellitus

Treatment of obesity (8h)

- Global strategies of treatment: the "pyramid" of treating obesity. -
- Treating of obesity versus treating its side effects. (1h)
- Dietary treatment of obesity. Low calorie diets, ketogenic diets, etc. (1h).
- Pharmacological treatment of obesity. Historical development of anti-obesity drugs. Drug action on the hunger / satiety system, on the absorption and on energy expenditure. (3h)
- Surgical treatment of obesity: bariatric surgery. Endocrine and metabolic basis of the effects of bariatric surgery. Other surgery strategies (2h).

SEMINAR: RIMONABANT, HISTORY OF A FAILED ANTI-OBESITY DRUG (1h)

Bibliography

Reviews in magazines:

International Journal of Obesity (www.nature.com/ijo/)

Obesity (<http://www.obesity.org/publications/obesity-journal.htm>)

Obesity reviews (<http://onlinelibrary.wiley.com/journal/10.1111/28ISSN%%291467-789X>)

Cell Metabolism (www.cell.com/cell-metabolism/)

Endocrinology (<http://endo.endojournals.org/>)

Nature Reviews Endocrinology (<http://www.nature.com/nrendo/index.html>)

Cardiovascular Pathologies and Atherosclerosis Therapy. (8h)

- Dyslipemia Therapy.
- Molecular targets for hypolipidemic drugs.
- Investigational drugs in the control of hypercholesterolemia and diabetic dyslipidemia.