Understanding Energy Balance

This lecture will cover the basics of energy balance, including how we sense and measure energy intake and expenditure. This has very important consequences for understanding weight gain and loss.

Contents

Learning Objectives 2	
Energy Balance and Changes in Body Weight 2	
Energy Intake 2	
What is Energy Intake? 2	
How do the foods we eat affect in energy intake?	2
How do we assess energy intake? 2	
Energy Expenditure and Adaptive Thermogenesis	2
What are the components of energy expenditure?	2
How do diet and activity affect energy expenditure?	2

Learning Objectives

• Understand how metabolic rates are changed in response to diets and overfeeding.

Energy Balance and Changes in Body Weight

Energy Intake

What is Energy Intake?

How do the foods we eat affect in energy intake?

How do we assess energy intake?

Energy Expenditure and Adaptive Thermogenesis

What are the components of energy expenditure?

How do diet and activity affect energy expenditure?

How Is Energy Expenditure Determined