

# Role of orexin and opioid dynorphin peptides in obesity behavioral dysregulation

Luis Nicolás Luarte Rodríguez

## Obesity health risks

- Fast growth in modern society
- Environmental variables are critical in obesity

## Homeostatic and hedonic feeding behavior

- Definition
- Behavioral controllers of feeding behavior
  - Value assignment to choice

## Behavioral controllers under the cafeteria diet

- Definition of cafeteria diet
- Cafeteria diet induced obesity
- Decision-making dysregulations in obesity
  - Temporal discounting

## Feeding neurobiology in obesity

- Orexin and dynorphin regulating hedonic intake
  - State-dependent effect (obese / non-obese)
  - Site-specific effect
- Orexin/Dynorphin modulation of food preferences
  - Modulation of the reward properties of food
  - Effects on reward systems (reward prediction error)

## Conclusions