

Medicine, Nursing and Health Sciences

Biomedicine Discovery Seminar

Monash Biomedicine Discovery Institute



The Neurobiology of Obesity: Reward, Interoception and Choice Systems



Thursday 3 November 2016



12:00 – 1:00pm



Level 3 Seminar Room
15 Innovation Walk
Clayton campus

Abstract

Obesity has been traditionally viewed as an energy regulation disorder, and research on its brain underpinnings has been focused on the hypothalamus. Nevertheless, increases in food availability and changes in lifestyle have made evident that extra-hypothalamic brain systems including frontal-striatal systems involved in motivated behaviour and decision-making are needed to control weight. I will present evidence from brain imaging studies showing that striatal, insula and prefrontal cortical systems involved in reward processing, interoception and food choices are linked to obesity, and can hinder attempts to control weight.



Presenter

A/Professor Antonio Verdejo-Garcia

PhD, Masters Degree

Psychology and MICCN, Monash University

About the presenter

Antonio currently holds the position of Associate Professor in the School of Psychological Sciences and the Monash Institute of Cognitive and Clinical Neurosciences (MICCN) at Monash University. Antonio's research focuses on the cognitive and neural mechanisms underpinning reward learning, executive control and decision-making, and their implications for addiction and obesity. He has published >150 peer-reviewed articles, and his research has been continuously funded via national and international competitive research schemes since 2009. His work has attracted over 8,000 citations and has been translated into clinical trials and policy recommendations.



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