



Máster Universitario en  
Neurociencia Cognitiva  
y del Comportamiento

## **Charla Dr. Jan Theeuwes: "Top-down, bottom-up and selection history-driven selection"**

~~Fecha~~ el Mié, 29/01/2025 - 15:00

### **Top- down, bottom- up and selection history- driven selection**



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Fecha y hora: 29 de enero. 15:00h.

Lugar: Sala de Conferencias 1, CIMCYC

**Abstract:** The current presentation introduces an integrated tripartite framework for understanding attentional control, highlighting the interaction and competition among top-down, bottom-up, and selection-history influences. We will explore recent behavioral, EEG, and fMRI studies that focus on how selection history shapes attentional control. Our findings suggest that selection history continuously adapts the weights within a so-called "spatial priority map," which dynamically governs the deployment of covert and overt attention at any given moment. Locations that previously contained relevant information are up-regulated, while locations with a higher probability of containing distracting information are down-regulated. In this framework, selection follows the priority landscape formed by combining various

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signals, such as current goals and bottom-up saliency, with priority weights influenced by previous selection episodes.