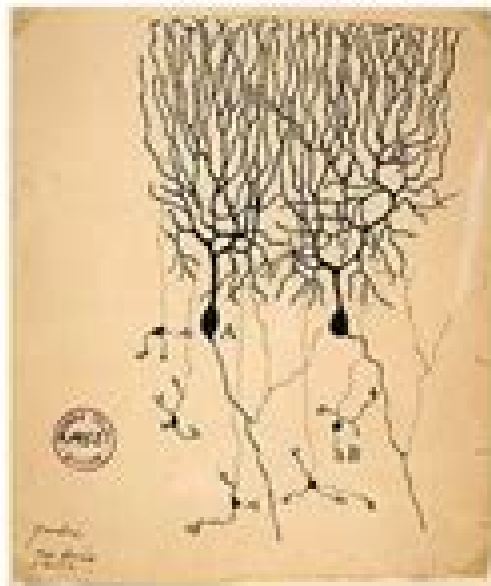


# What is (computational) neuroscience?

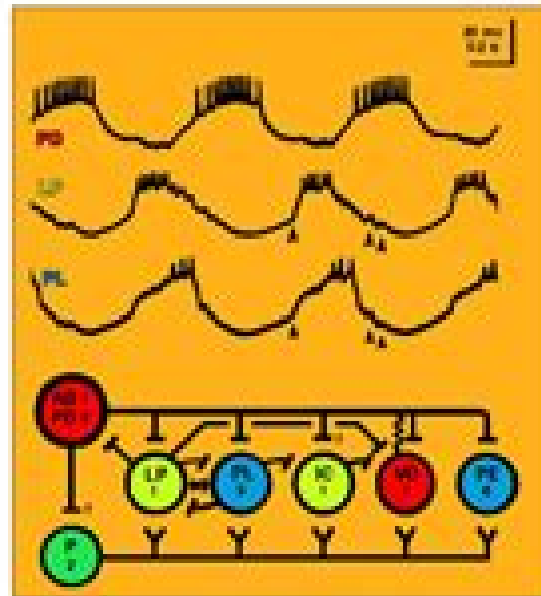
John Rinzel (NYU), Kiev, 2011

Neuroscience is the scientific study of the nervous system. It is an interdisciplinary science that involves biology, chemistry, computer science, engineering, linguistics, mathematics, medicine, physics, psychology and even philosophy.

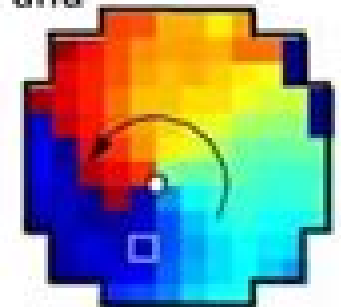
Different approaches are used to study the molecular, cellular, developmental, structural, functional, evolutionary, computational, and medical aspects of the nervous system.



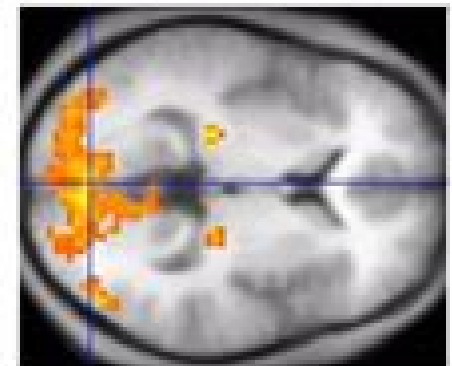
Golgi – staining  
Ramon y Cajal -- anatomy  
Nobel Prize:



Selverston lab, 1960s  
Neural circuit for chewing  
In lobster.



Wu lab, 2004  
Spiral waves in cortex (diam: 3-4 mm)



fMRI, 1990s  
BOLD signal . brain areas

# Introduction To Computational Neuroscience

**F Rizvi**



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