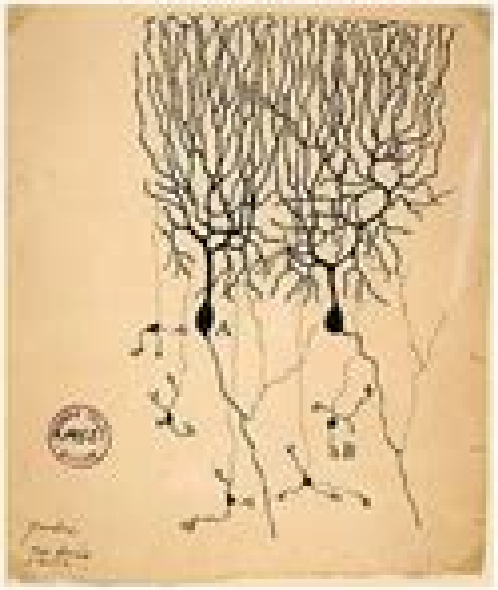
What is (computational) neuroscience?

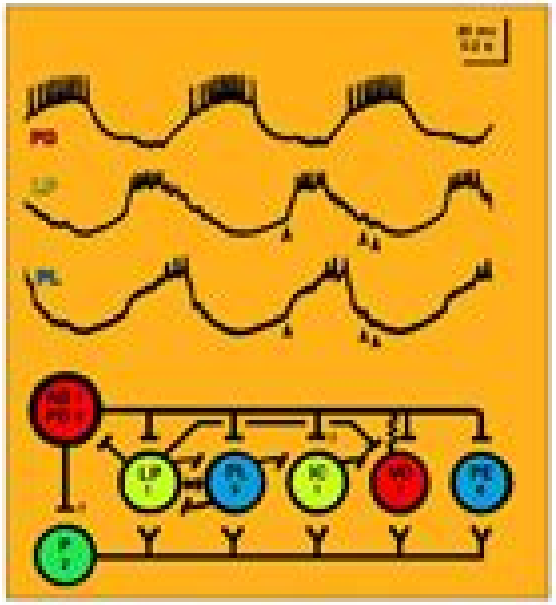
John Rinzel (NYU), Kiev, 2011

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

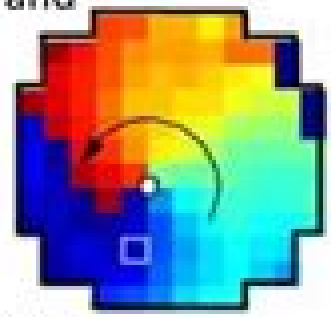
Different approaches are used to study the molecular, cellular, developmental, structural, functional, evolutionary, computational, and medical aspects of the nervous system.



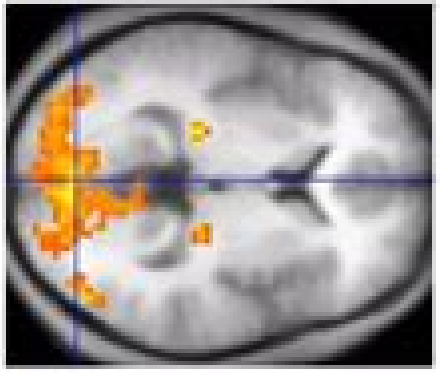
Golgi – staining
Ramon y Cajal -- anatomy
Nobel Prize:



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

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Michael Seilmaier

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