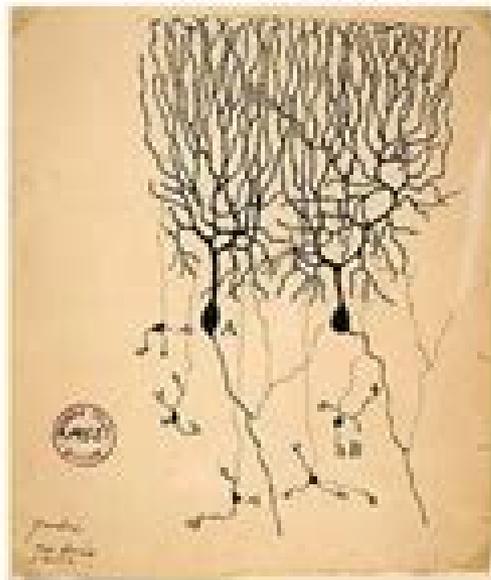


What is (computational) neuroscience?

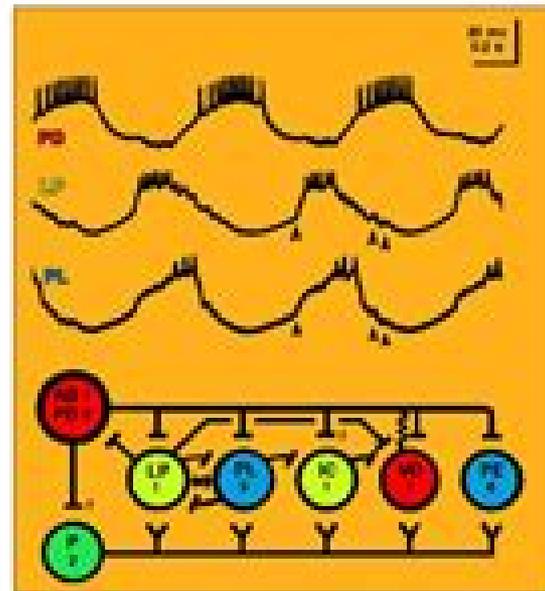
John Rinzel (NYU), Kiev, 2011

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.

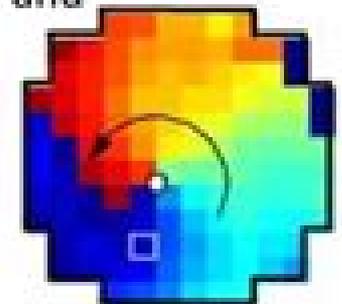
Different approaches are used to study the molecular, cellular, developmental, structural, functional, evolutionary, computational, and medical aspects of the nervous system.



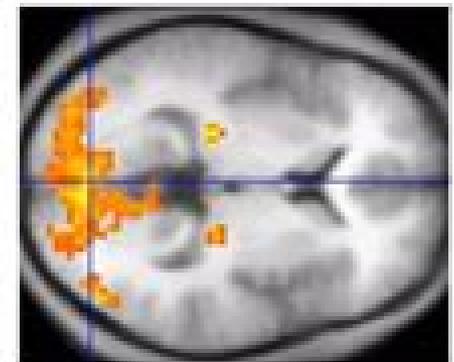
Golgi – staining
Ramon y Cajal -- anatomy
Nobel Prize:



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

Yijin Wang



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Table of Contents Introduction To Computational Neuroscience

1. Understanding the eBook Introduction To Computational Neuroscience
 - The Rise of Digital Reading Introduction To Computational Neuroscience
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Computational Neuroscience
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Introduction To Computational Neuroscience
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Computational Neuroscience
 - Personalized Recommendations
 - Introduction To Computational Neuroscience User Reviews and Ratings
 - Introduction To Computational Neuroscience and Bestseller Lists
5. Accessing Introduction To Computational Neuroscience Free and Paid eBooks
 - Introduction To Computational Neuroscience Public Domain eBooks
 - Introduction To Computational Neuroscience eBook Subscription Services
 - Introduction To Computational Neuroscience Budget-Friendly Options

6. Navigating Introduction To Computational Neuroscience eBook Formats
 - ePub, PDF, MOBI, and More
 - Introduction To Computational Neuroscience Compatibility with Devices
 - Introduction To Computational Neuroscience Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Computational Neuroscience
 - Highlighting and Note-Taking Introduction To Computational Neuroscience
 - Interactive Elements Introduction To Computational Neuroscience
8. Staying Engaged with Introduction To Computational Neuroscience
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Computational Neuroscience
9. Balancing eBooks and Physical Books Introduction To Computational Neuroscience
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Computational Neuroscience
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Introduction To Computational Neuroscience
 - Setting Reading Goals Introduction To Computational Neuroscience
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Introduction To Computational Neuroscience
 - Fact-Checking eBook Content of Introduction To Computational Neuroscience
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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