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Biofundamentals™
Introduction to Evolutionary & Molecular Biology
syllabus | home | labs
course information | questions
using Biofundamentals

Using Biofundamentals
1.1. Phasing activity
1.2. Protein diversity & design
1.3. Evolution's logic
1.4. Adaptation & selection
1.5. Processes, genes & traits (bioRxiv)
1.6. New adaptive processes
1.7. Admiring & averaging
1.8. Little thermodynamics
1.9. Water & Mito structure
1.10. Cell division & growth
1.11. Going through membranes
1.12. Carrying genes & zooming
1.13. Capturing energy
1.14. Storing energy
1.15. Catalytic symiosis

1.16. Chemical basis of heredity
1.17. Nucleic acids
1.18. DNA replication
1.19. Molecular cloning
1.20. Adaptations & proteins
1.21. Many adaptations
1.22. Assembly & turnover
1.23. Regulating proteins

1.24. Genomes & genes
1.25. In silico evolution

Biofundamentals™ is an attempt to build a more conceptually coherent, rigorous and engaging introductory course in modern biology (bioRxiv).

We are currently enhancing Biofundamentals into a book and building enhanced beSocratic activities, which should be ready by Summer 2014. We also hope to have the course available on Altice.co by that point.

Videos on using the text & constructing arguments.

Each reading includes questions to answer and ponder, as well as a beSocratic activities designed to help you consolidate your learning. Class time is spent considering the most difficult ideas.

Our goal is not to sort students by improve teaching by placing difficult ideas in a coherent context.

Biofundamentals™ is part of a larger curricular redesign effort that includes CSM: Calculus, Systems, and Modeling, CLUE: Chemistry, life, the universe & everything, and perhaps a more relevant physics course based on the evolution of physics.

MERLOT | Educause Learning Resource, Inc. Be Boulder. University of Colorado Boulder

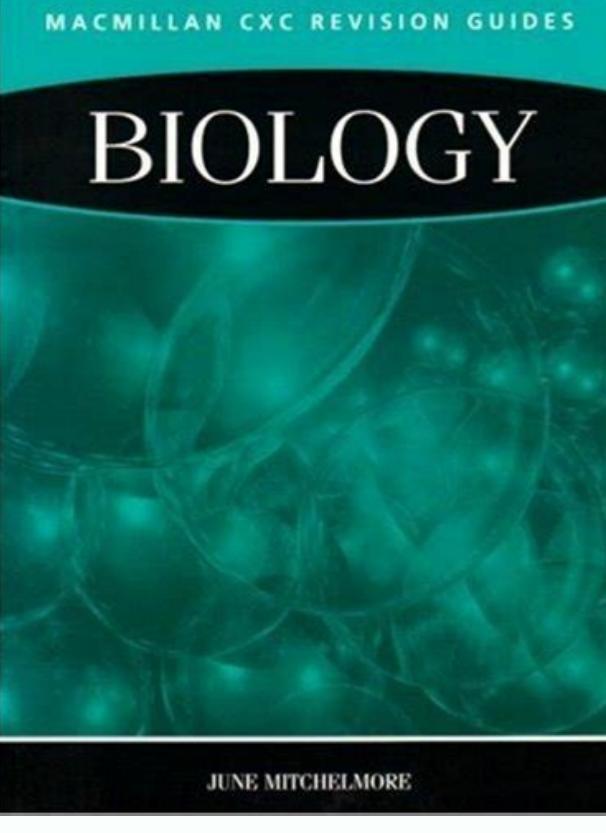
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Common Core 6-8 Science:

Understand the new science standards to help your child learn and succeed

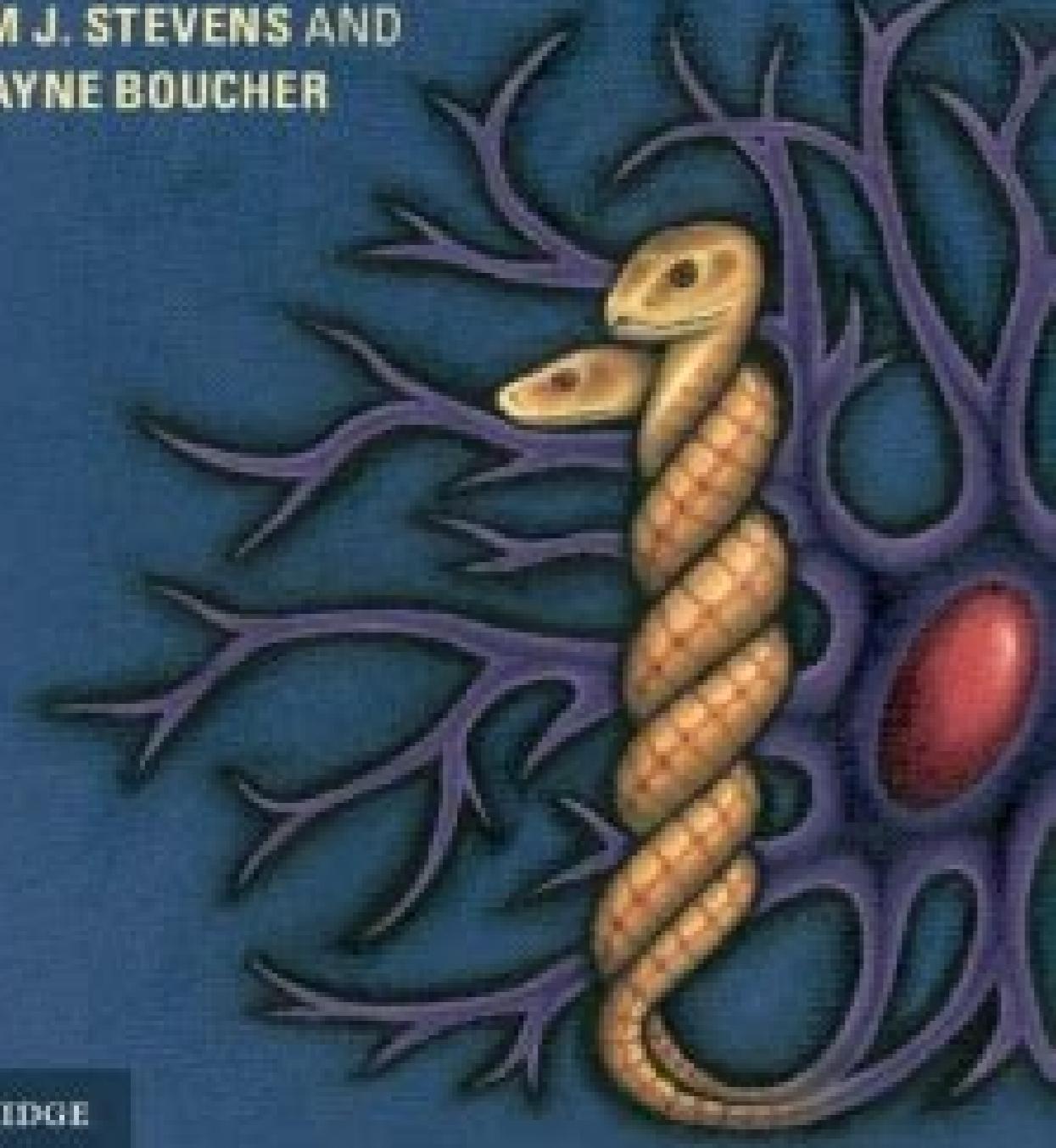
Laurie Bloomfield, MAT



Python Programming for Biology

Bioinformatics and Beyond

TIM J. STEVENS AND WAYNE BOUCHER



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★ LEARN FROM HOME



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