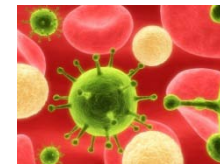




BIOSCIENCE IN THE 21ST CENTURY:

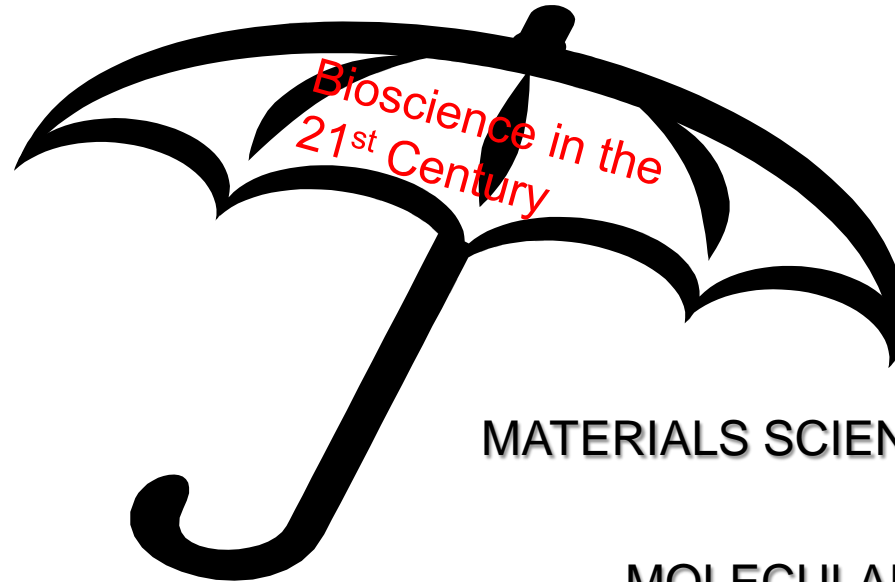
HIGHLIGHTS AND FUTURE PROSPECTS



BIOSCIENCE IN THE 21ST CENTURY

- What biologically-relevant problems confront society?
- What are the strategies for studying these problems?
- What are the prospects for solutions to these problems?

MULTIDISCIPLINARY APPROACHES



NEUROBIOLOGISTS

BIOCHEMISTS

BIOLOGICAL ENGINEERS

CHEMISTS

CELL BIOLOGISTS

PHYSICISTS

CLINICIANS

MATERIALS SCIENCE ENGINEERS

MOLECULAR BIOLOGISTS

MICROBIOLOGISTS

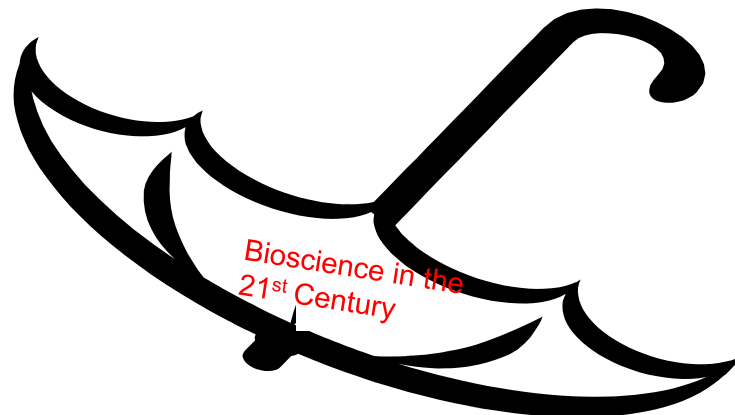
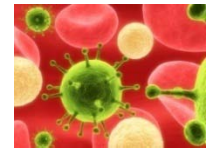
VIROLOGISTS

CHEMICAL ENGINEERS

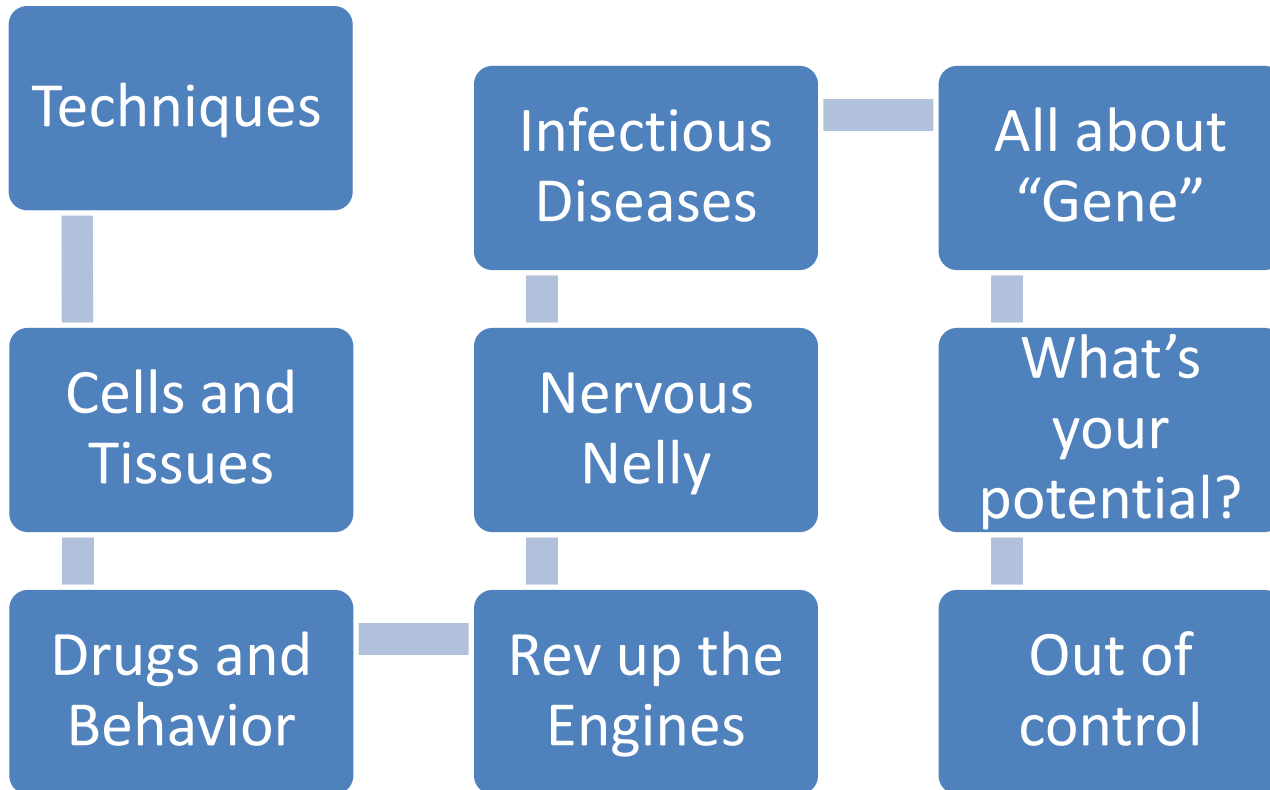
COMPUTER SCIENTISTS

SURVEY OF TOPICS IN BIOSCIENCE

- Neurophysiological processes and behavioral science
- Cancer and novel treatment strategies
- Genomics and bioinformatics
- Stem cell biology and disease treatment prospects
- Advances in engineered biosystems and biodevices
- Environmental biotechnology
- Infectious diseases
- Human physiology: cardiovascular disease, reproductive technologies, stress-related diseases



Bioscience Jeopardy

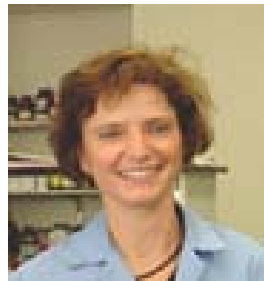
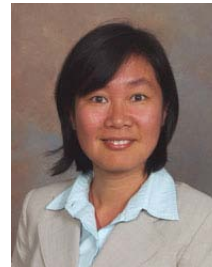
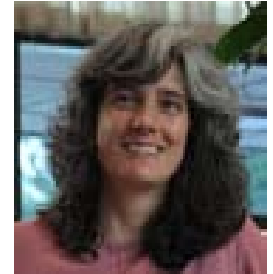


ACKNOWLEDGMENTS

Bioscience PLAYBILL: Participating Faculty and Guests

Departments and Programs represented:

Biological Sciences, Bioengineering, Chemical Engineering, Civil & Environmental Engineering, Chemistry, Computer Science & Engineering, Materials Science & Engineering



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John Glod, Robert Wood Johnson Medical School, UMDNJ

American Society for Cell Biology, iBioSeminars© lectures by Graham Hatfull, John McKinney

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THANK YOU!