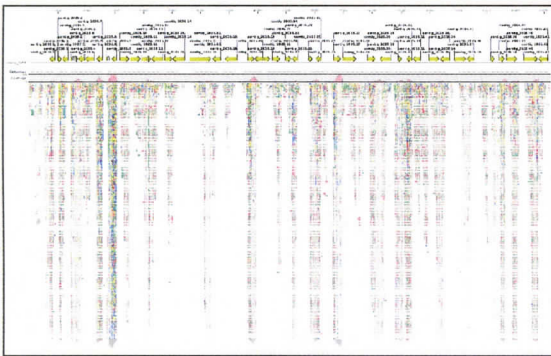


Fundamentals of Genomics

16:682:534:01; 16:215:604:01; 11:115:423:01



CREDITS: 3

FORMAT: Lecture/Seminar

SCHEDULE Meets twice weekly, 80 minutes
Tuesday and Thursday, 5th period

LOCATION: Rm 124 Foran Hall, Cook Campus

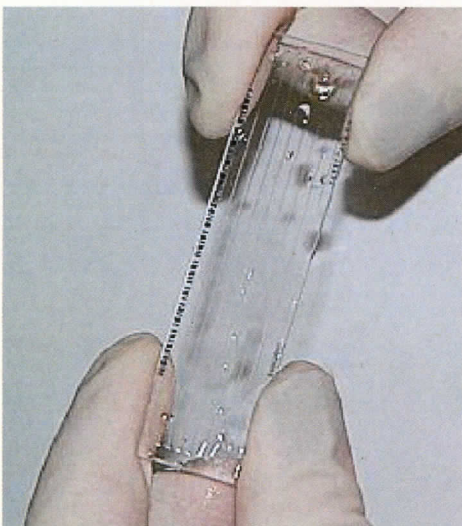
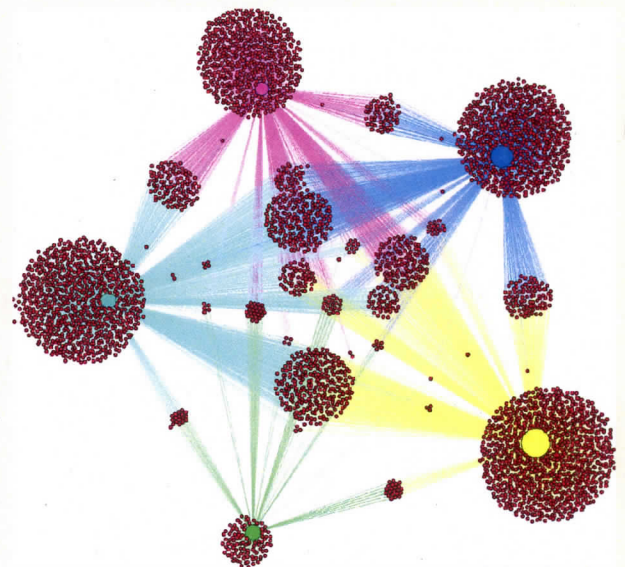
ORGANIZER/LEAD INSTRUCTOR:
Debashish Bhattacharya
Biochemistry and Microbiology

CO-INSTRUCTOR
Dana C. Price
Plant Biology



SYNOPSIS:

This course will provide an introduction to genome science to undergraduate and graduate students with a variety of backgrounds such as microbiology, biochemistry, animal and plant science, and ecology/evolution who are confronted with the growing influence of this field in their work but may not be knowledgeable in its uses and limitations. The lectures will provide an overview of genomics technology and provide real-life examples in the life sciences with a particular focus on microbial biology and evolution.



OUTCOMES:

Students will leave the course with knowledge of the foundations of modern genomics, including experimental design, data acquisition, analysis, and interpretation.

PRE-REQUISITES:

General Biochemistry 403 or Introduction to Molecular Biology and Biochemistry Research 315 or Genetics 380 (one of the three) OR Fundamentals of Evolution 251 or Principles of Evolution 486 (one of the two)