

## Protein Engineering

20.109 Module 2 Day 7  
Tuesday Oct 28th, 2008

---

---

---

---

---

Little things mean a lot

Genetic variation



Development



---

---

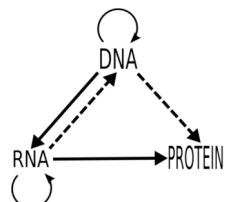
---

---

---

Touchstone for understanding gene expression:

“central dogma”



---

---

---

---

---

Measures of central dogma  
DNA/RNA/Protein



---

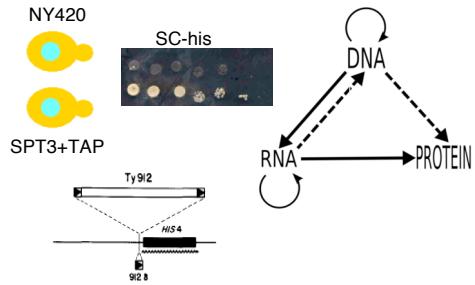
---

---

---

---

Touchstone for understanding gene expression:  
“central dogma”



---

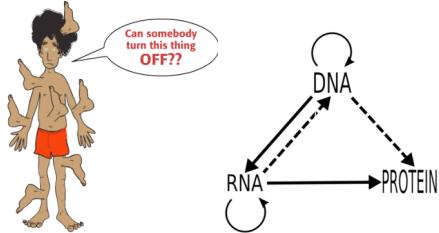
---

---

---

---

Touchstone for understanding gene expression:  
“central dogma”



<https://www.23andme.com/you/gen101/01/>

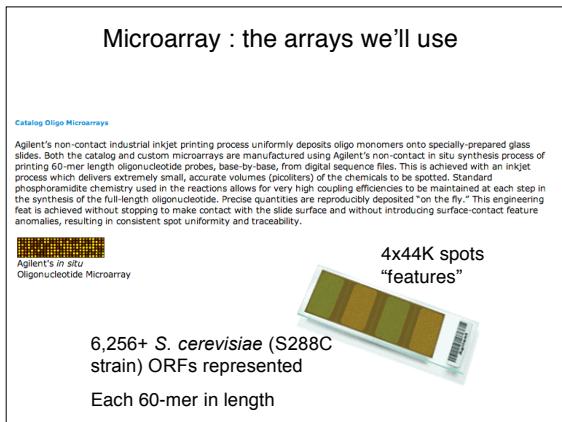
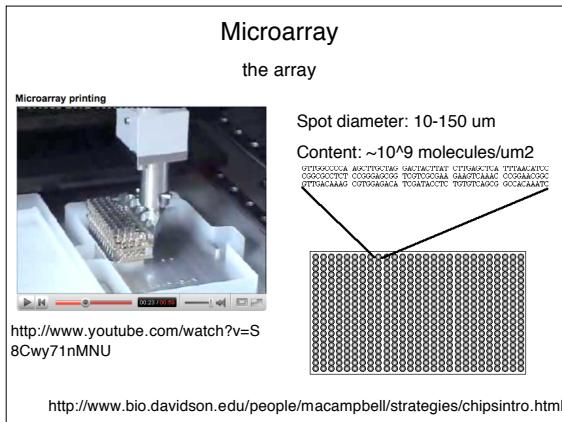
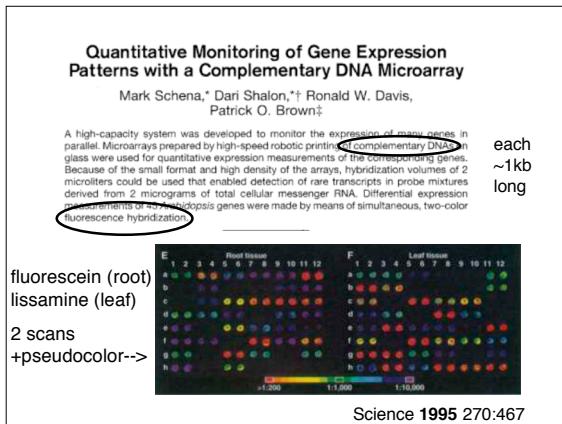
---

---

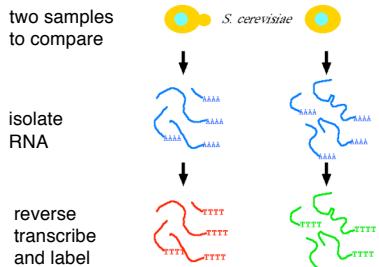
---

---

---

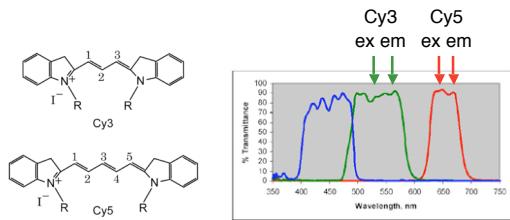


### Microarray: sample preparation



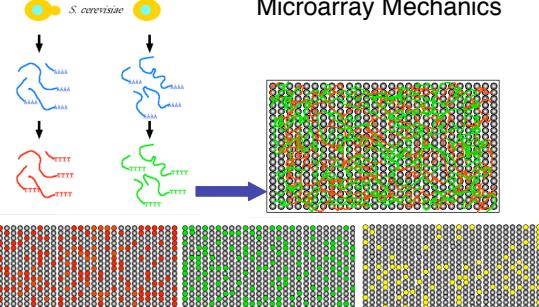
<http://www.bio.davidson.edu/people/macampbell:strategies/chipsintro.html>

### Microarray: fluorescent labels

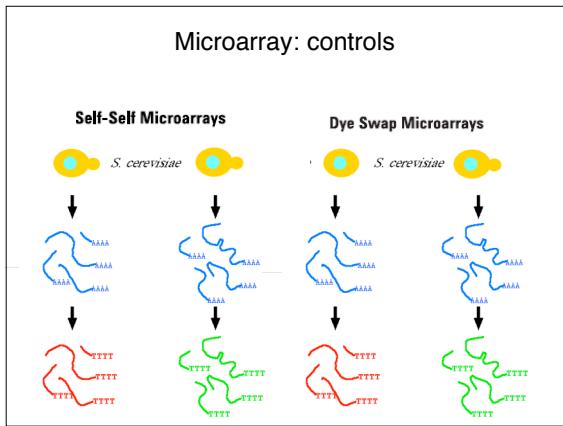


[www.qubitsystems.com](http://www.qubitsystems.com)

### Microarray Mechanics



<http://www.bio.davidson.edu/people/macampbell:strategies/chipsintro.html>




---

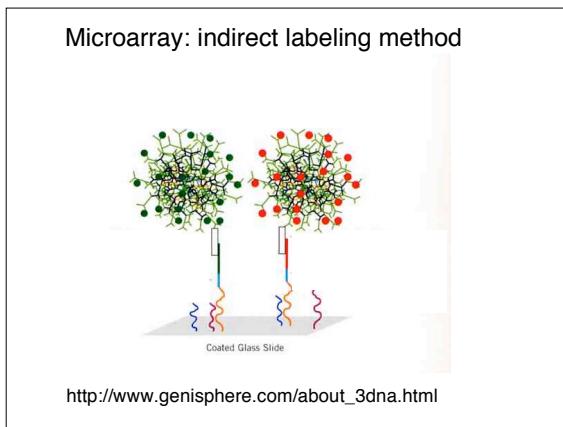
---

---

---

---

---




---

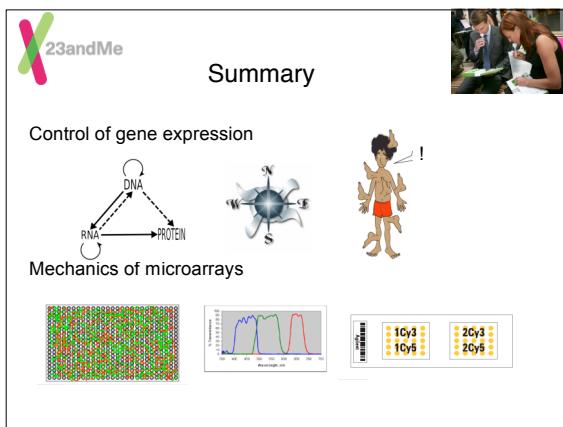
---

---

---

---

---




---

---

---

---

---

---