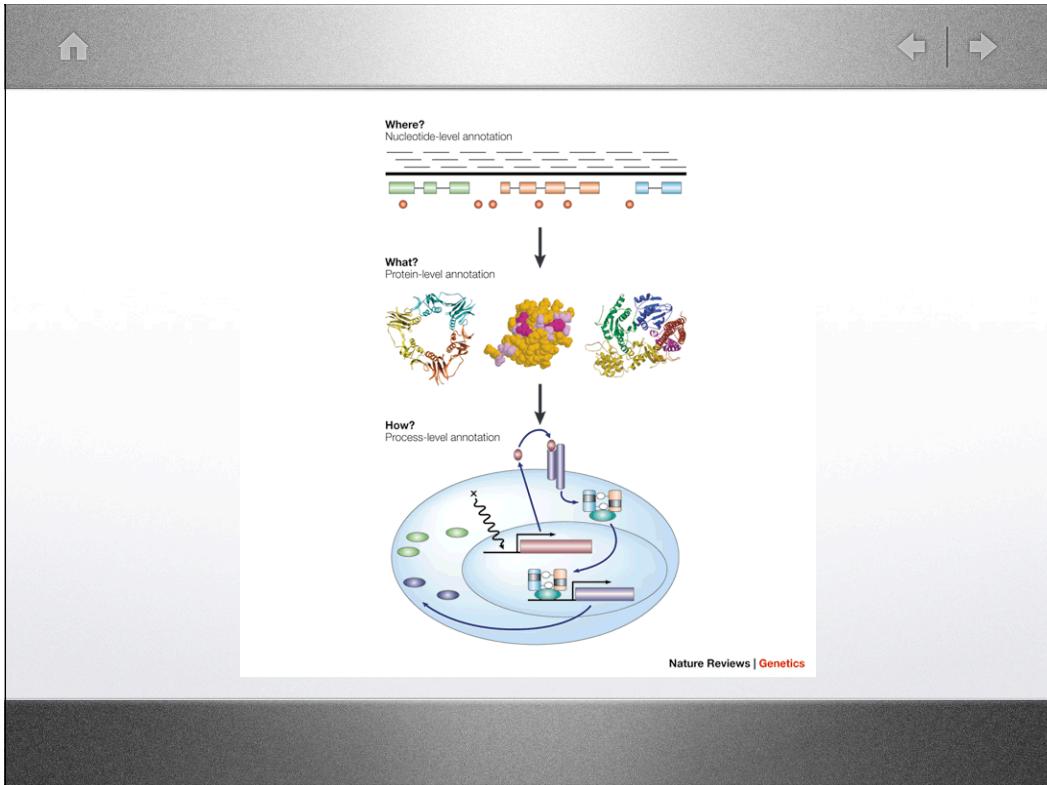
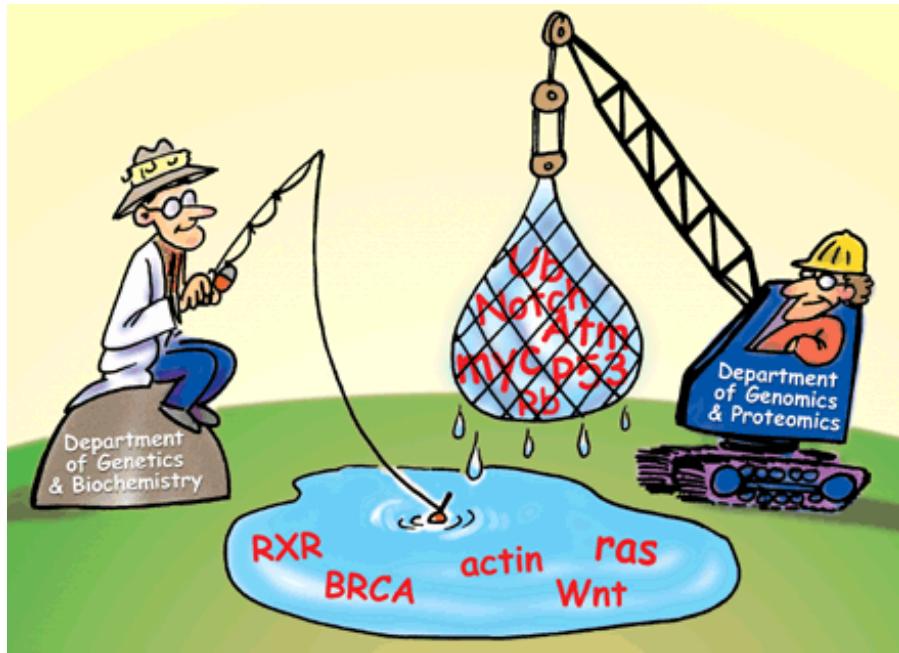


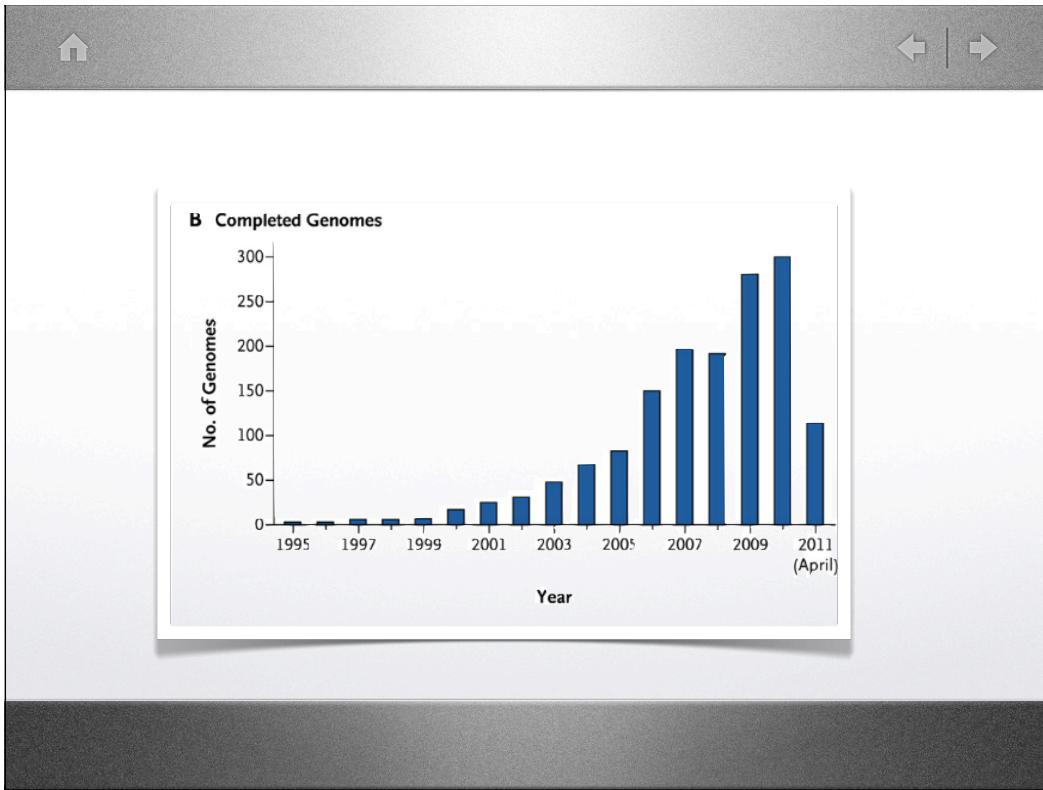


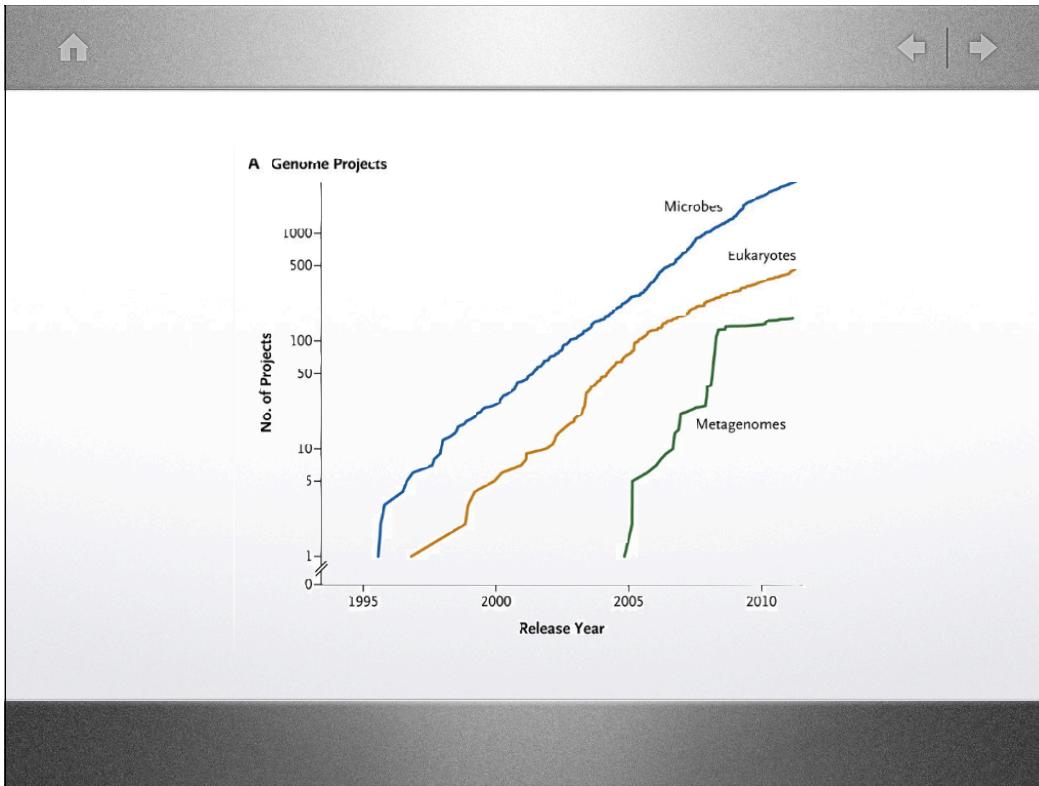
Análisis Genómicos

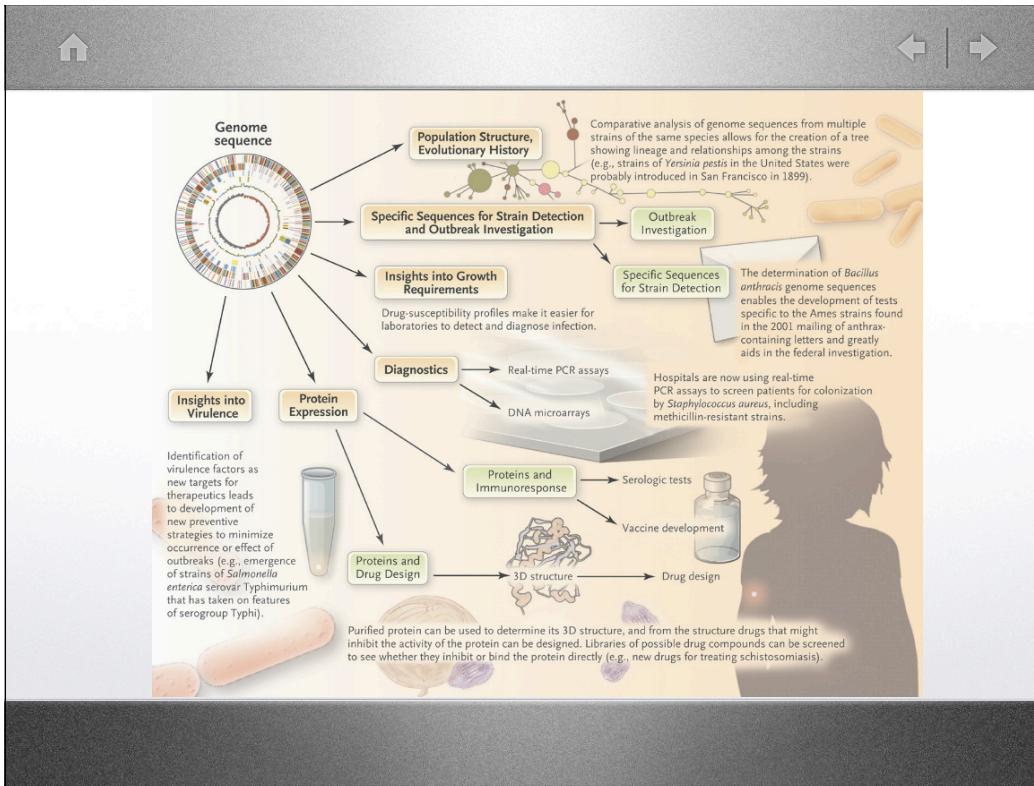
Dr. Francisco P. Chávez





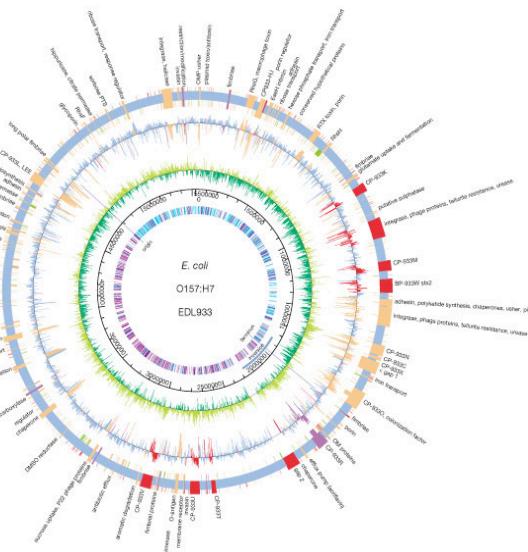






Genómica comparativa

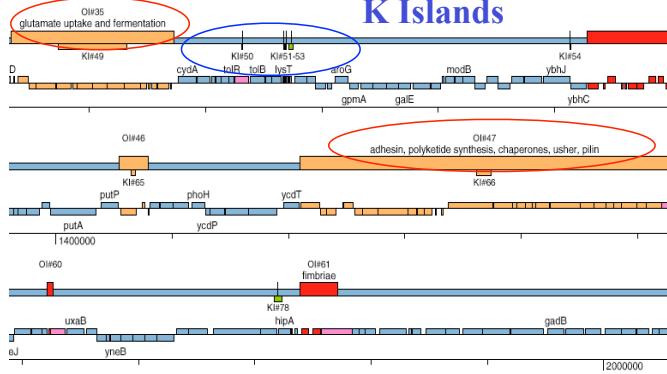
Gastrogenomics



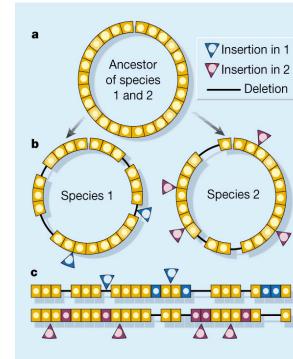
Nature (2001) **409**, 529-533

Gastrogenomics

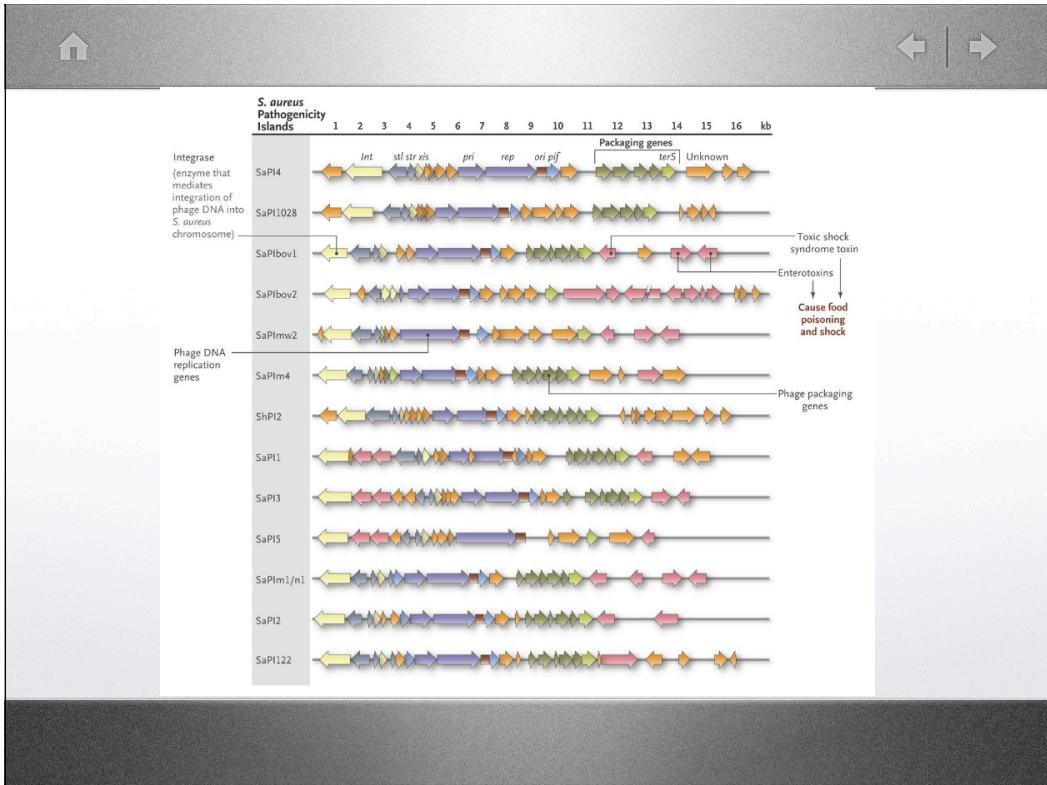
O Islands



K Islands

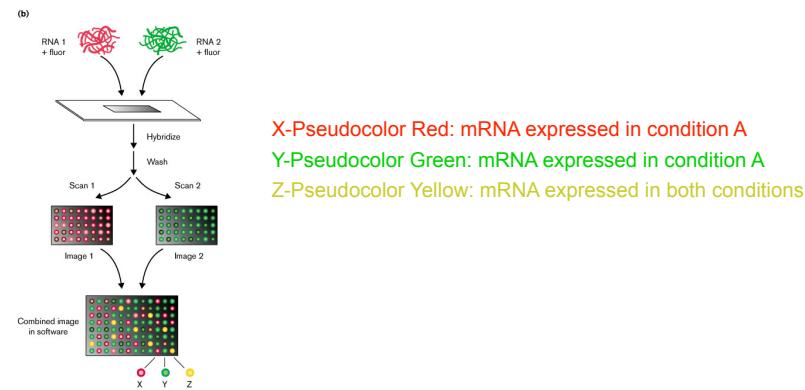
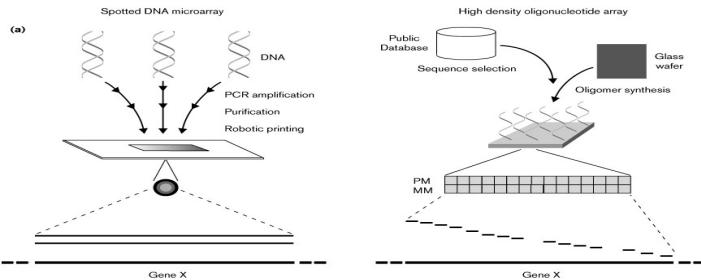


Nature (2001) **409**, 529-533

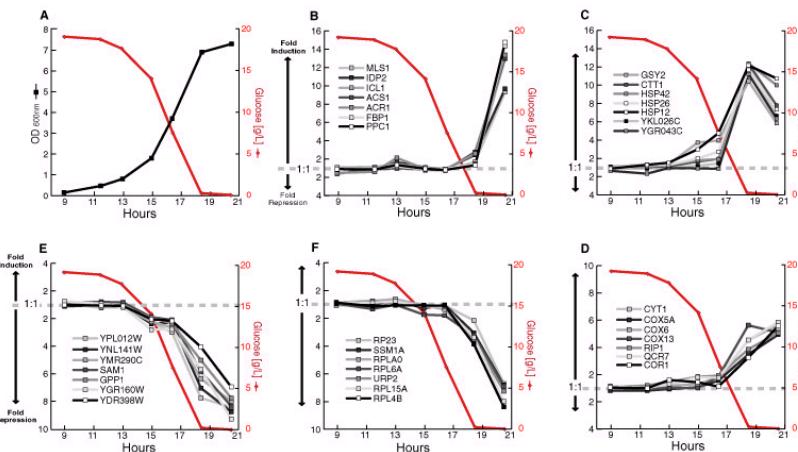


Genómica funcional

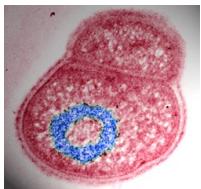
Principles of Microarray



Metabolic pathway and Genetic Control

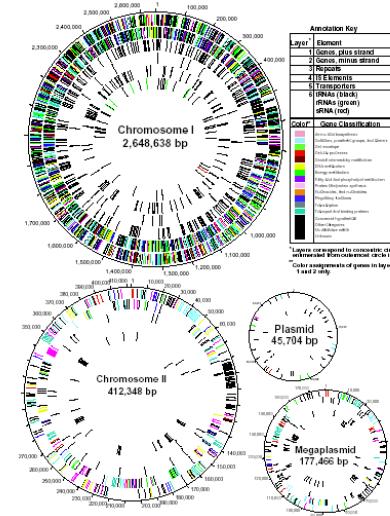


Science 278: 680-686 (1997)



Deinococcus radiodurans

The World's Toughest Bacterium



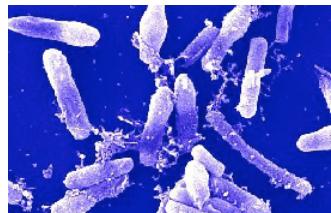
Science (1999) 286, 1571-1577

PNAS (2003) 100, 4191-4196

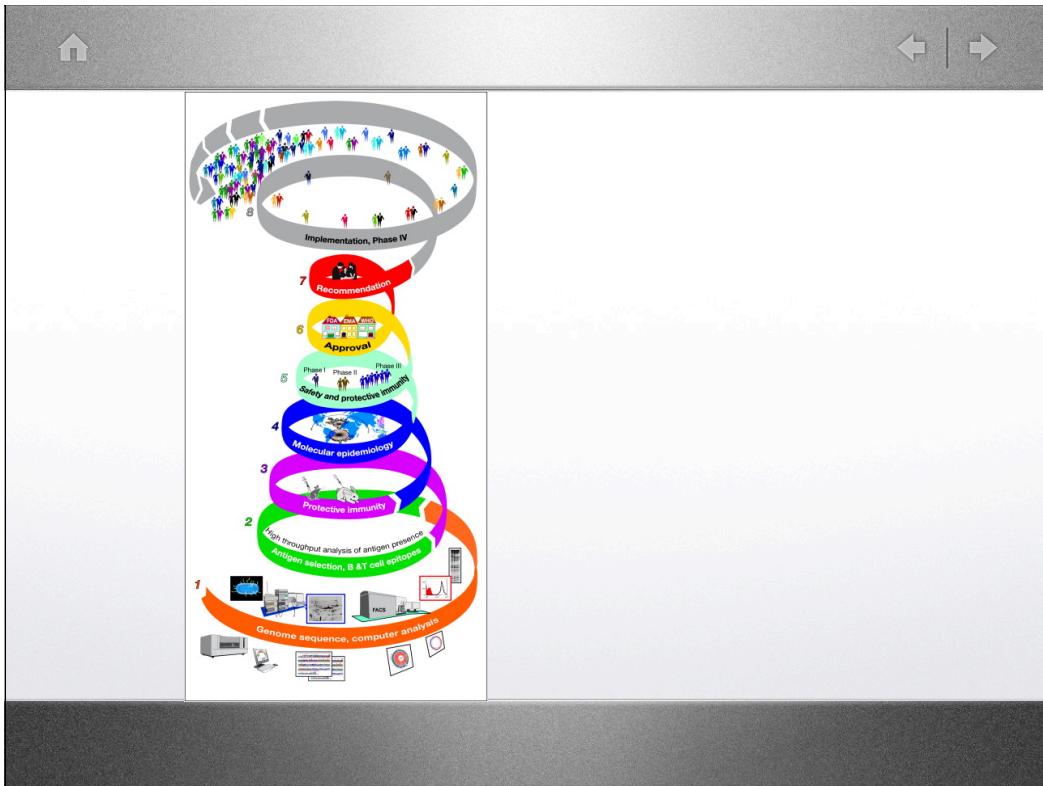


Bacillus anthracis genome

Desde Pasteur hasta el bioterrorismo

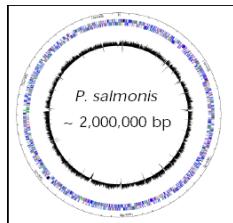
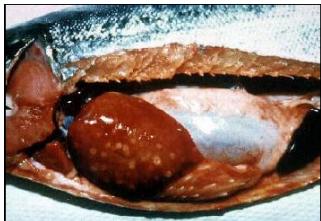


Vacunas Genómicas



First Chilean genome

Piscirickettsia salmonis

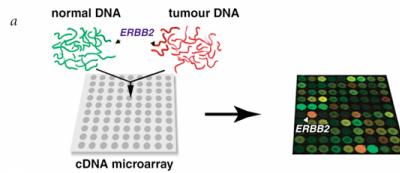


- *Piscirickettsia salmonis* is an obligated intracellular pathogen of salmon.
- Sequenced by a Chilean Consortium (Fundación Chile, Fundación Ciencia para la Vida y Novartis Animal Health).
- The draft (95% of the genome) comprises approximately 2,000,000 bp circular genome and 1500 ORFs.

Otros Análisis Genómicos



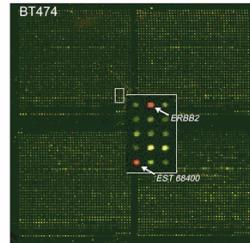
Human Breast Cáncer



For each cDNA element on the array, the ratio of the intensity fluorescence measured for the two fluors is represents the relative DNA copy number of that gene in the two samples.

Pseudo Red: Increased DNA copy number
Pseudo Green: Decreased DNA copy number
Pseudo Yellow: No change

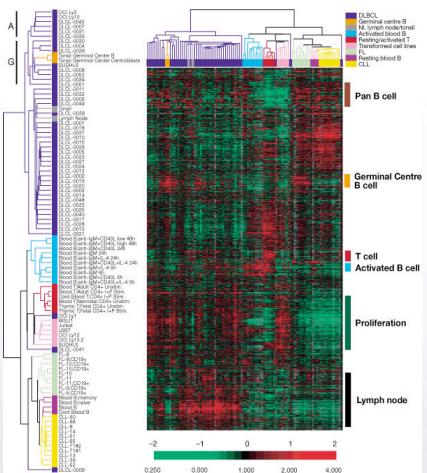
b



Nature Genetics 23, 41 - 46 (1999)



B-Cell Lymphomas

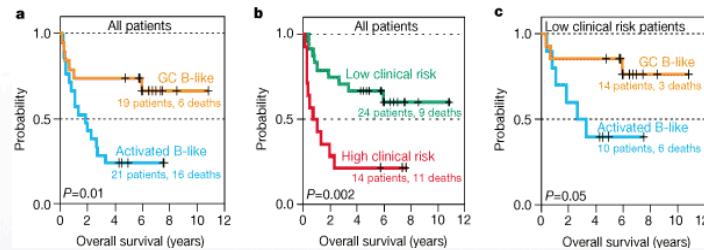


1.8 million
measurements of
gene expression from
128 microarray
analyses of 96
samples of normal and
malignant
lymphocytes

Nature **403**, 503 - 511 (2000)

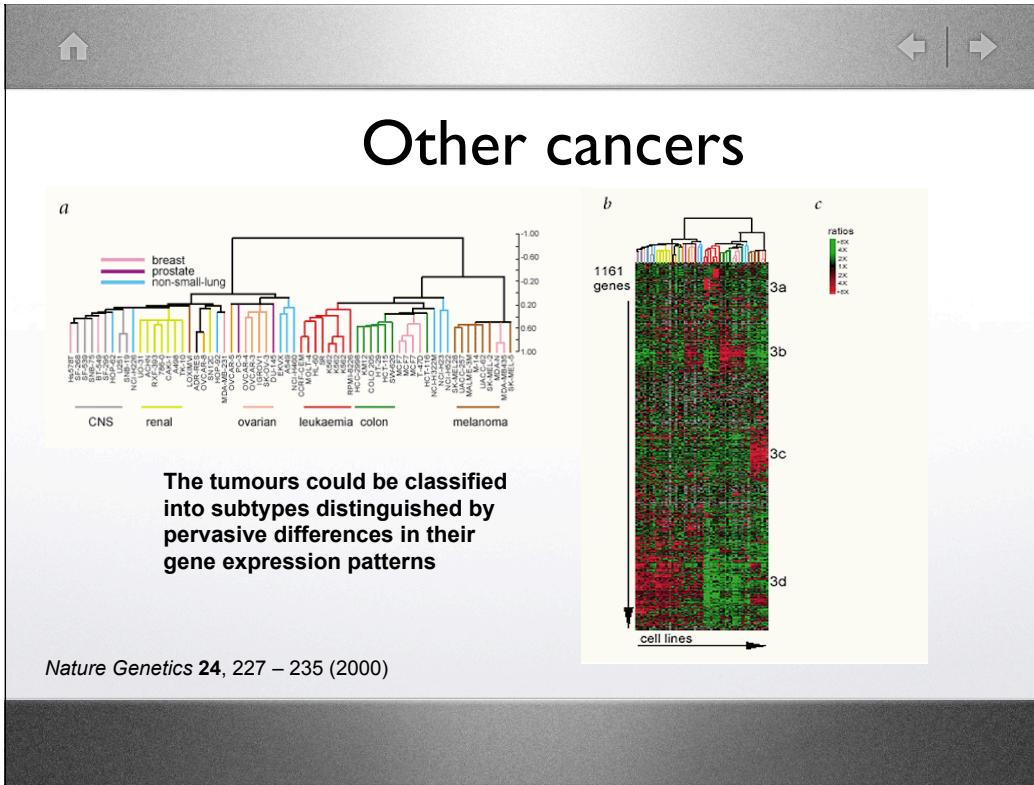


B-Cell Lymphomas



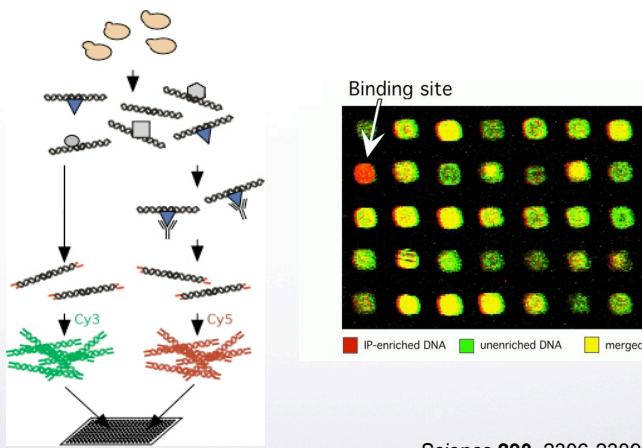
Clinically distinct DLBCL (diffuse large B-cell lymphoma)
subgroups defined by gene expression profiling

Nature **403**, 503 - 511 (2000)

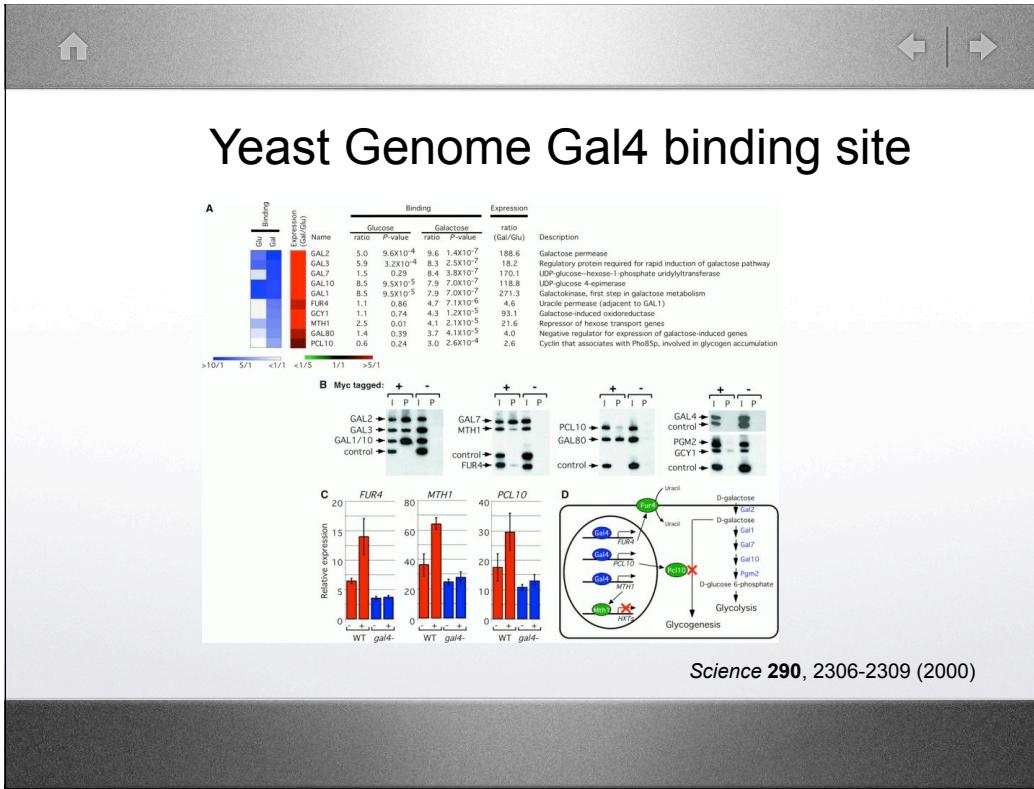


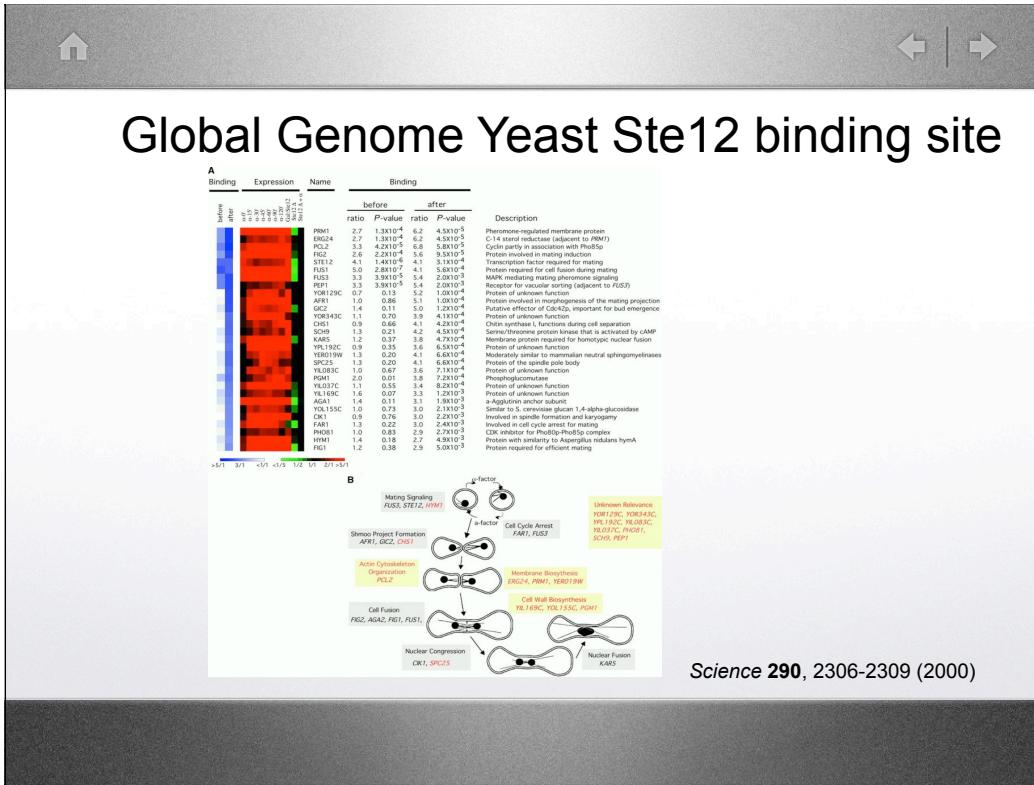


Chip (Chromosome immunoprecipitation)



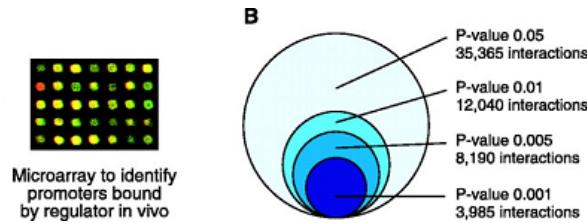
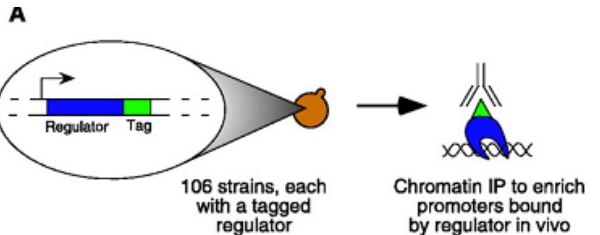
Science 290, 2306-2309 (2000)







Transcriptional regulatory Network



Science **298**, 799-804 (2002)

