Module 2: Expression Engineering

20.109 Lecture 7 November 1st, 2007



Sparks of inspiration

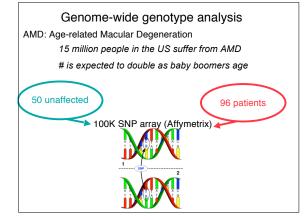
Judah Folkman



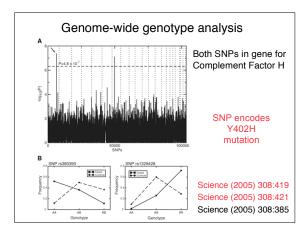
1950s Surgical Resident MGH

"the warmth of tumors made him wonder whether they, like the other tissue in the body, needed their own blood supply and whether they could be starved if that blood supply was cut off"

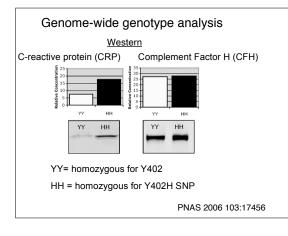




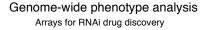












The RNAi Consortium

In a three-year, \$18 million initiative, the TRC will create a library of materials to conduct RNAi experiments on 15,000 human genes and 15,000 mouse genes. A total of 150,000 custom-designed plasmids that express short and unique pieces of RNA (known as short hairpin RNAs or shRNAs) that target specific genes will be created and validated. This fundamental resource will be made available to scientists worldwide through commercial and academic distributors. BROAD

Features: \$\$\$

automated

collaborative

ambient CO2 no lipid needed for txn

grow at RT

2

