







# Houston is a Top Ranked City for Young Professionals

Forbes rated Houston the coolest city in US  
#1 US city for STEM nerds; #1-10 on many lists

Houston is Science City – over 100 years

Economic growth in biomedicine and biotech  
Jlabs, TMCX, BCM Innovations

Diversity of people, ideas and opportunities

Educational opportunities: 7 grad, public health,  
dentistry, 2 phar, 2 nursing, law schools

Activities; sports, culture, music, churches

Low cost of living; housing, shopping, groceries









# SMART Program Activities

National recruiting of ~ 80 diverse undergrads

Paid research internship

Research in more than 20 biomedical areas

Special interest research discussion groups

Final student research presentation

Interact with faculty, Ph.D. students, post-docs

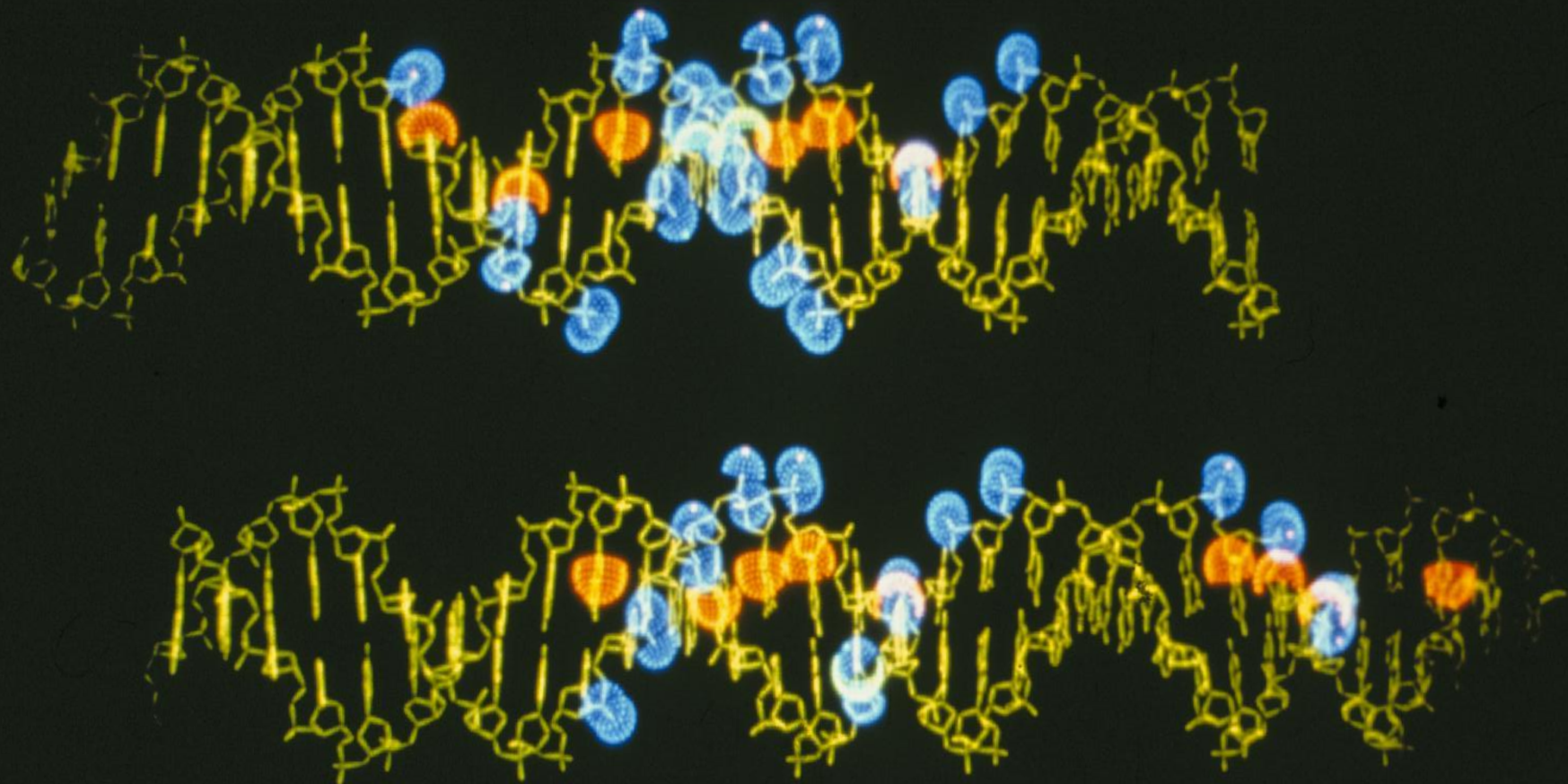
Daily seminar series for undergrads

GRE PREP workshops

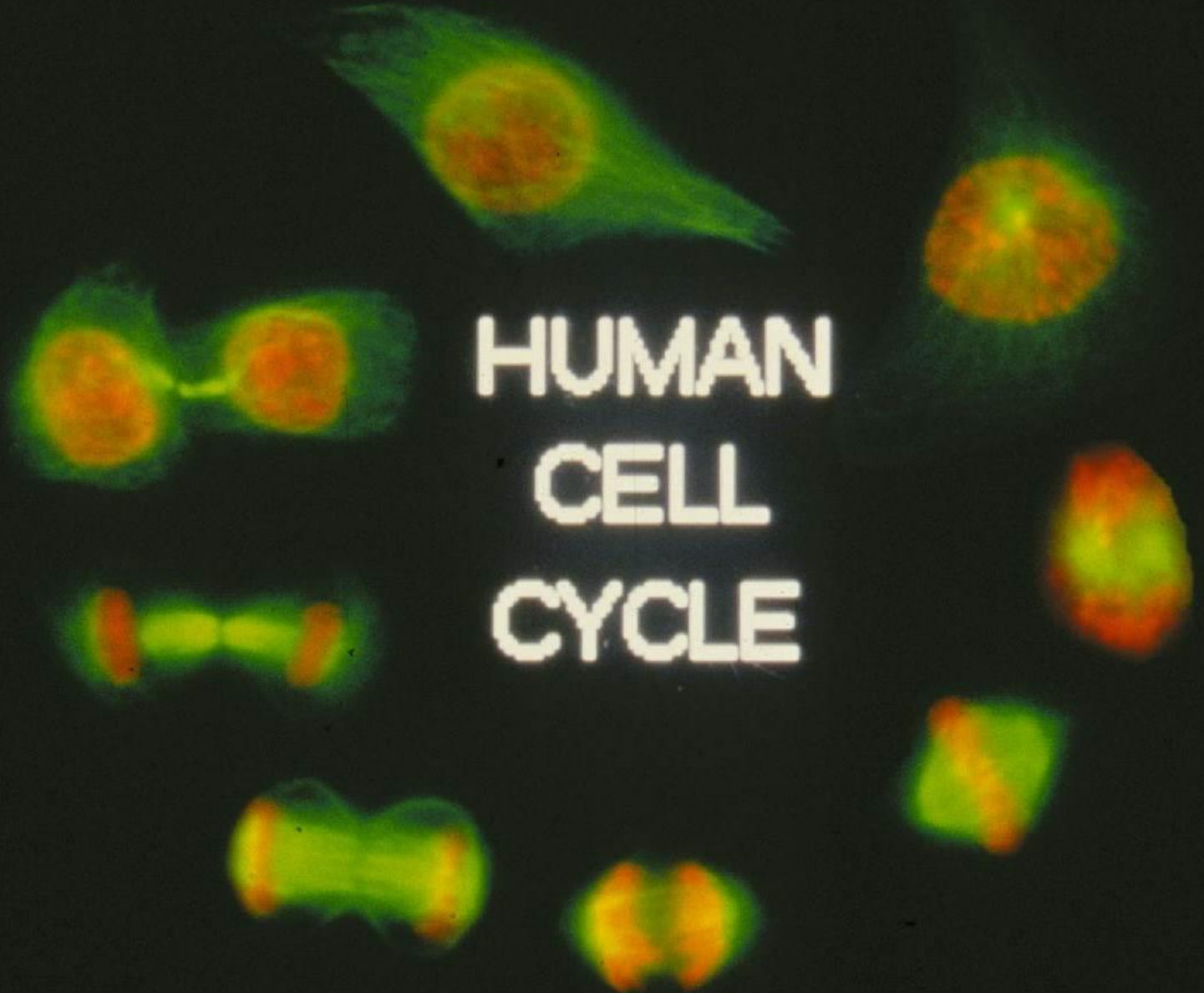
Limited clinical opportunities

Shared dormitory housing





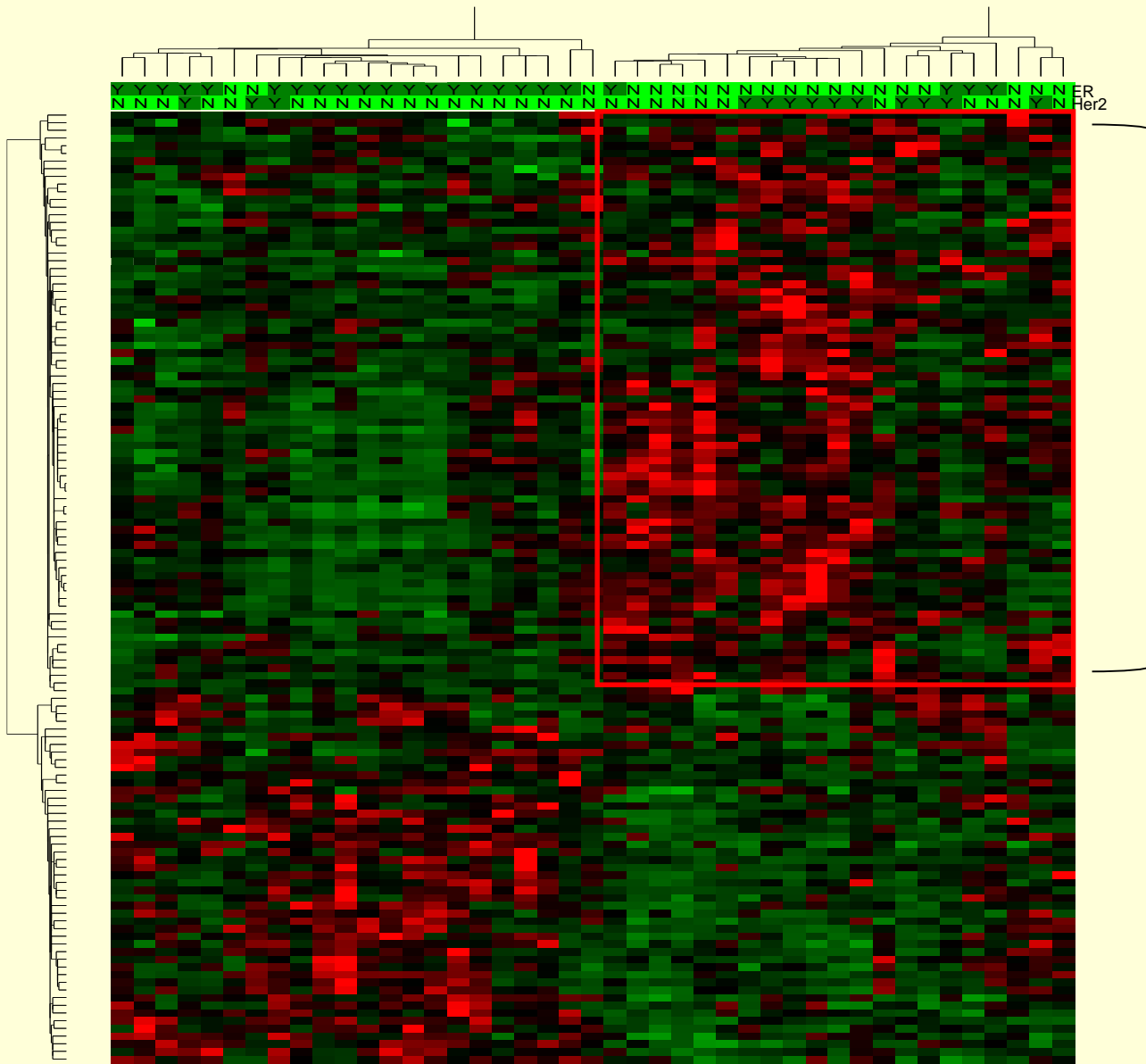
# HUMAN CELL CYCLE



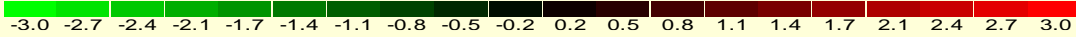


ER-positive

ER-negative

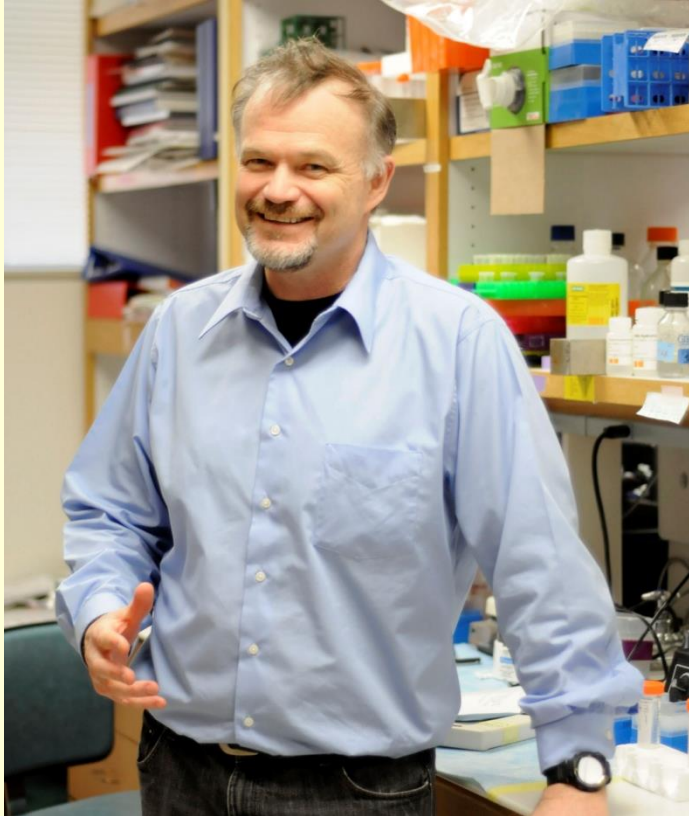


**Kinases elevated  
in first set of ER-  
negative breast  
tumors**



# New Frontiers in Genomics

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Richard Gibbs, Ph.D.  
Director, BCM Human  
Genome Sequencing Center

1<sup>st</sup> human genome – 10 yrs, \$3B  
Less than \$10K now  
Soon \$1K

Sequenced the genomes of humans and a host of model organisms, Gibbs and his colleagues sequenced the genome of Dr. James Watson, Nobel Laureate and father of the Human Genome Sequencing Project.

Routinely sequencing patient DNA to find disease causing mutations

BCM only US site with a Genome Seq, Mouse Phenotyping, Microbiome Seq, Pediatric Cancer Seq Centers





# National School of Tropical Medicine

Only School in US; Dean Peter Hoetz, MD, PhD

Maria Elena Bottazzi, PhD, Assoc Dean and Professor

Diseases of the poorest 1 billion

Focus is on vaccine development

Sabin Vaccine Institute moved from Washington, DC

\$.50 per child per year for best medicines we have

Tiffany Williams, MD/PhD

Undergrad Georgetown, started med sch UCSF

BCM for PhD, microbiome genomics project in Gambia