

Welcome to
the Bioinformatics Class!

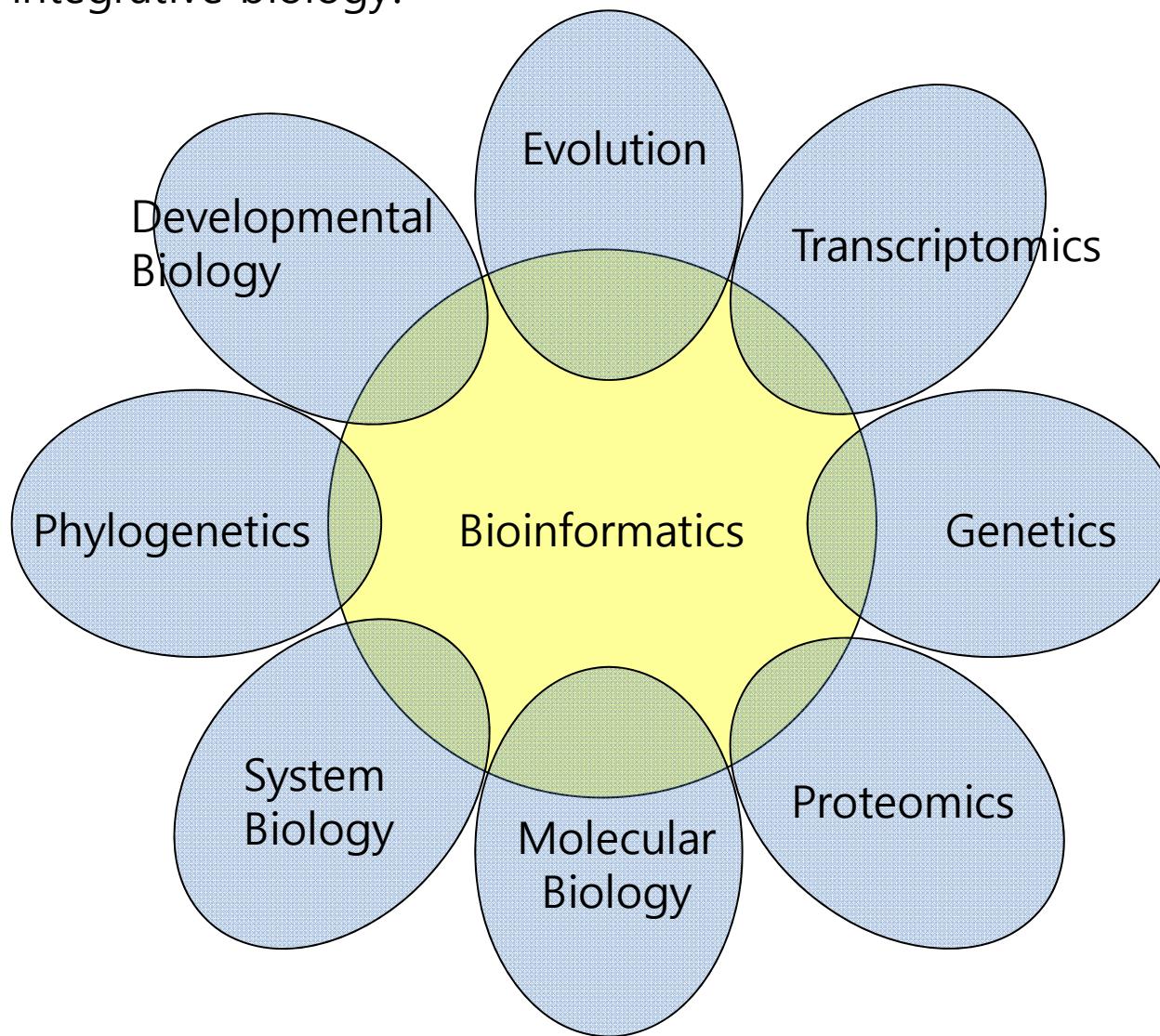




**Bucket science is for kids
informatics is for scientists**

BIOINFORMATICS ?

- BT(Bio Technology) + IT(Information Technology)
- Truly integrative biology!



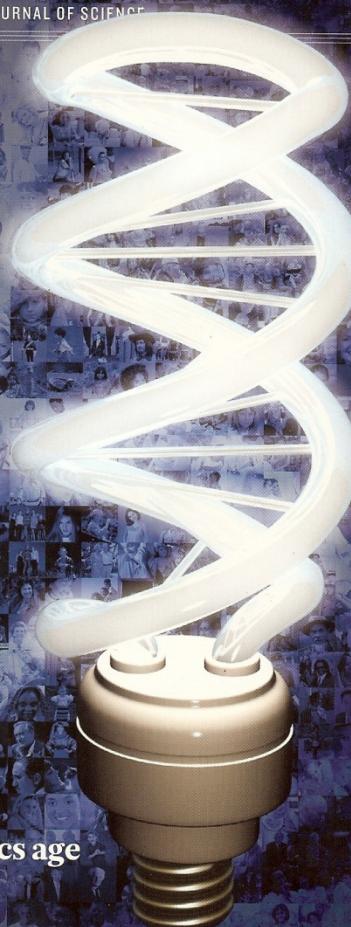
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THE INTERNATIONAL WEEKLY JOURNAL OF SCIENCE

THE FUTURE IS BRIGHT

Reflections on the first ten
years of the human genomics age



GENOMICS

THE END OF THE BEGINNING

Eric Lander on the impact of
the human genome sequence

PAGE 187

METHODS

MORE BASES PER DOLLAR

Elaine Mardis on the march
of sequencing technology

PAGE 198

HEALTH

FROM LAB TO CLINIC

A road map to
genomic medicine

PAGE 204

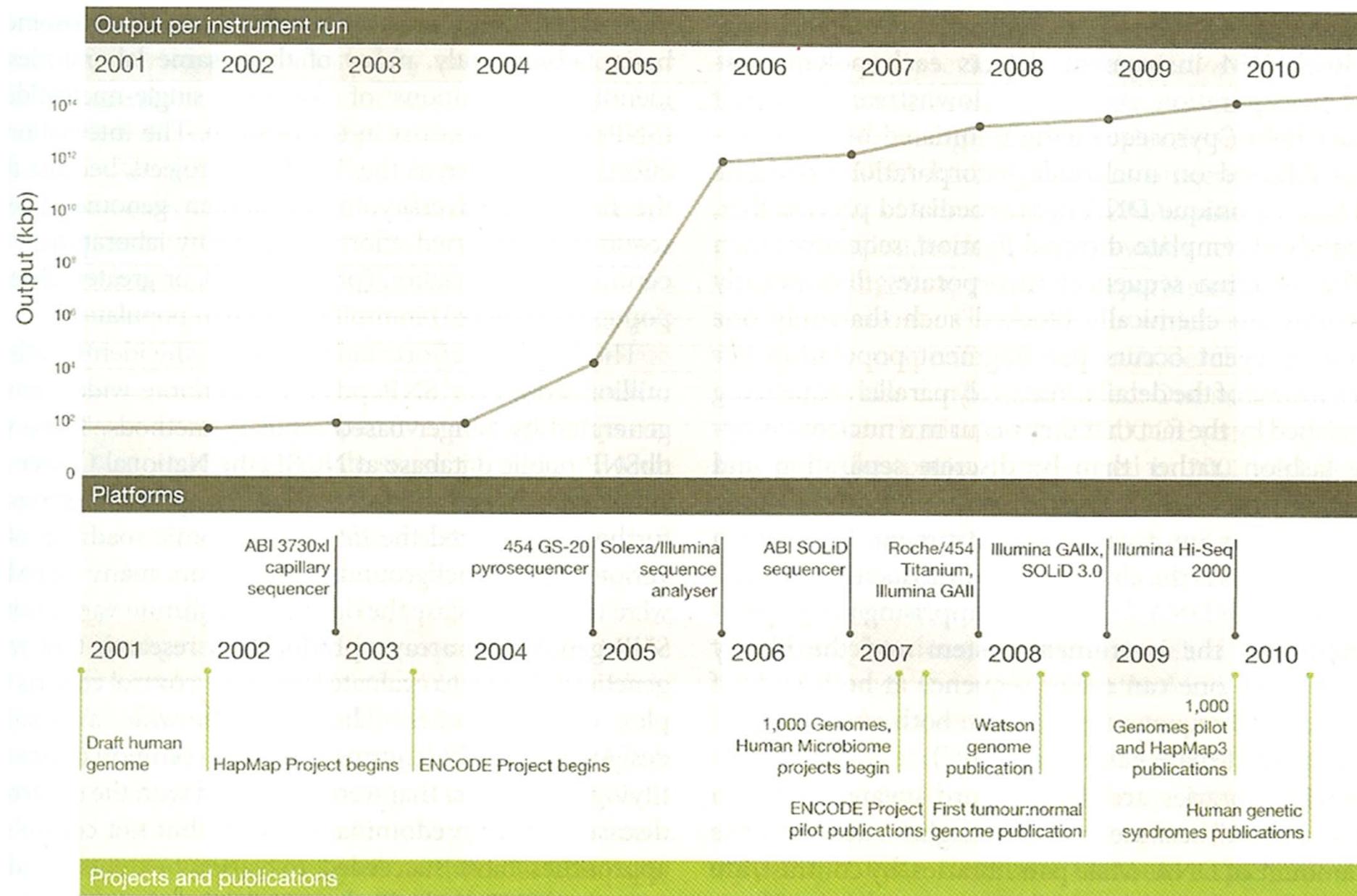
NATUREASIA.COM

10 February 2011

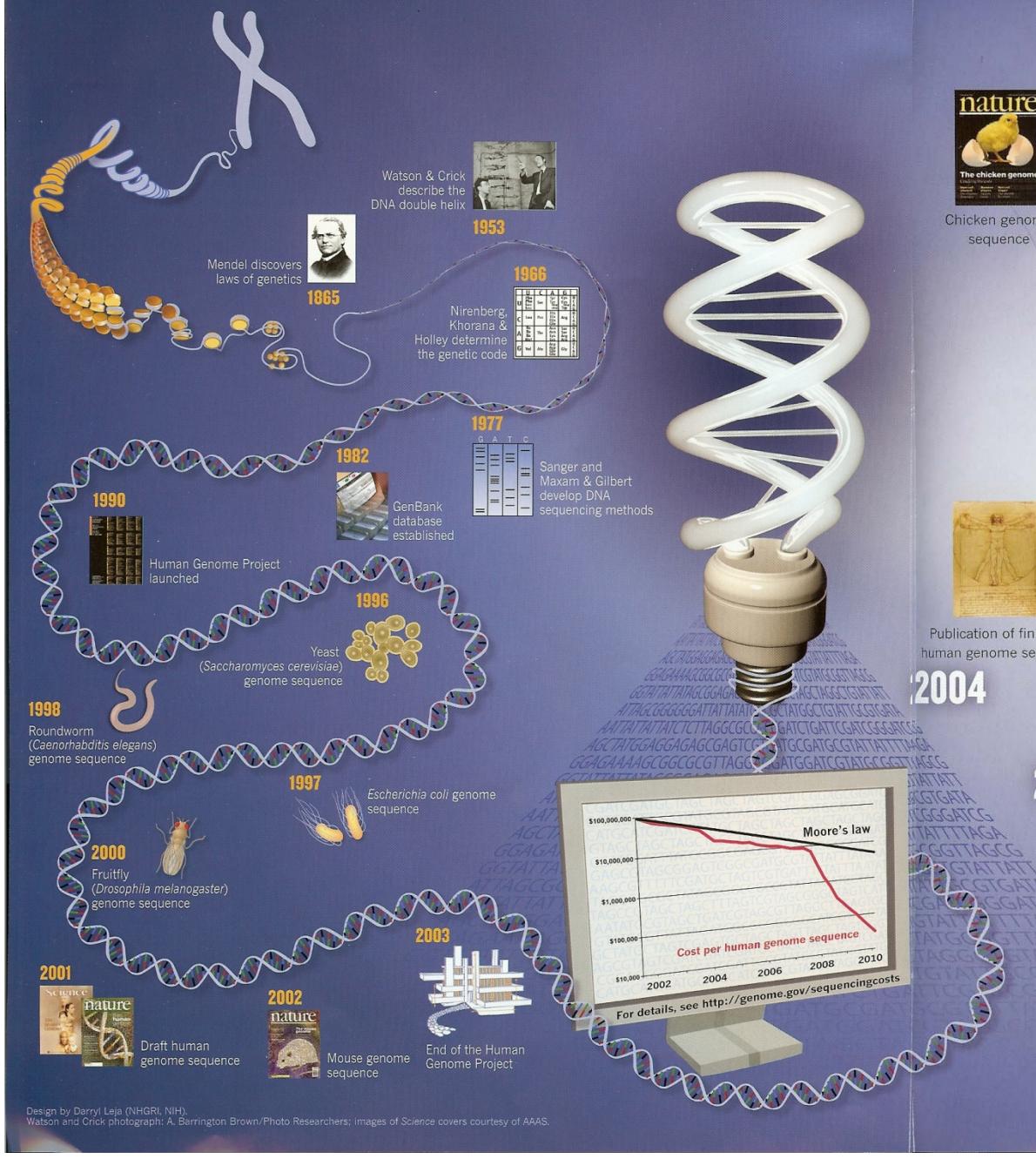
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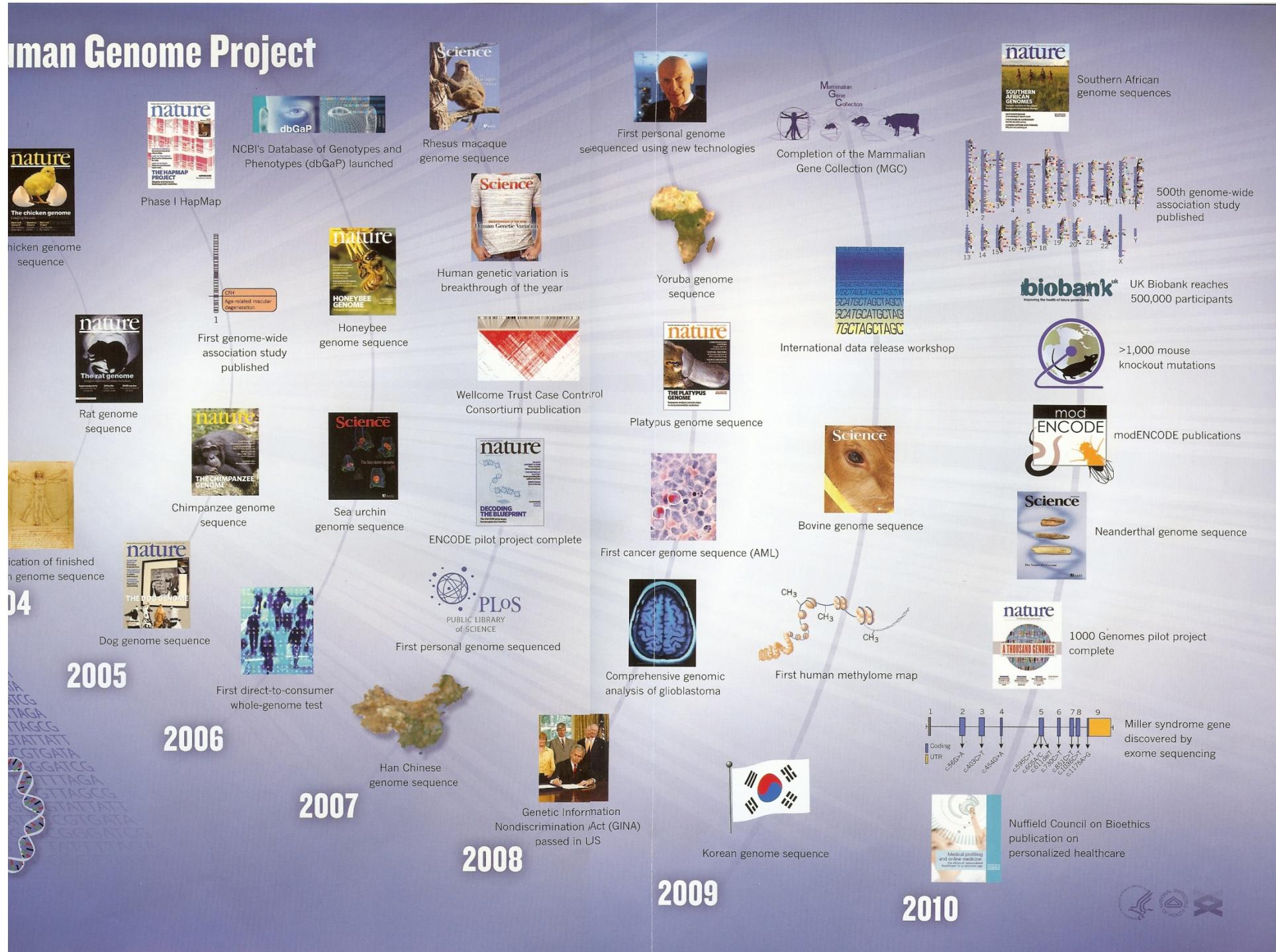
個人購読 개인구독 个人订阅



Genomic achievements since the Human Genome Project



Human Genome Project



14 October 2011 | \$10

Science



AAAS

I hope so...

최초의 한국인 게놈 해독 논문: 김성진박사 게놈

Downloaded from genome.cshlp.org on August 11, 2009 - Published by Cold Spring Harbor Laboratory Press



The first Korean genome sequence and analysis: Full genome sequencing for a socio-ethnic group

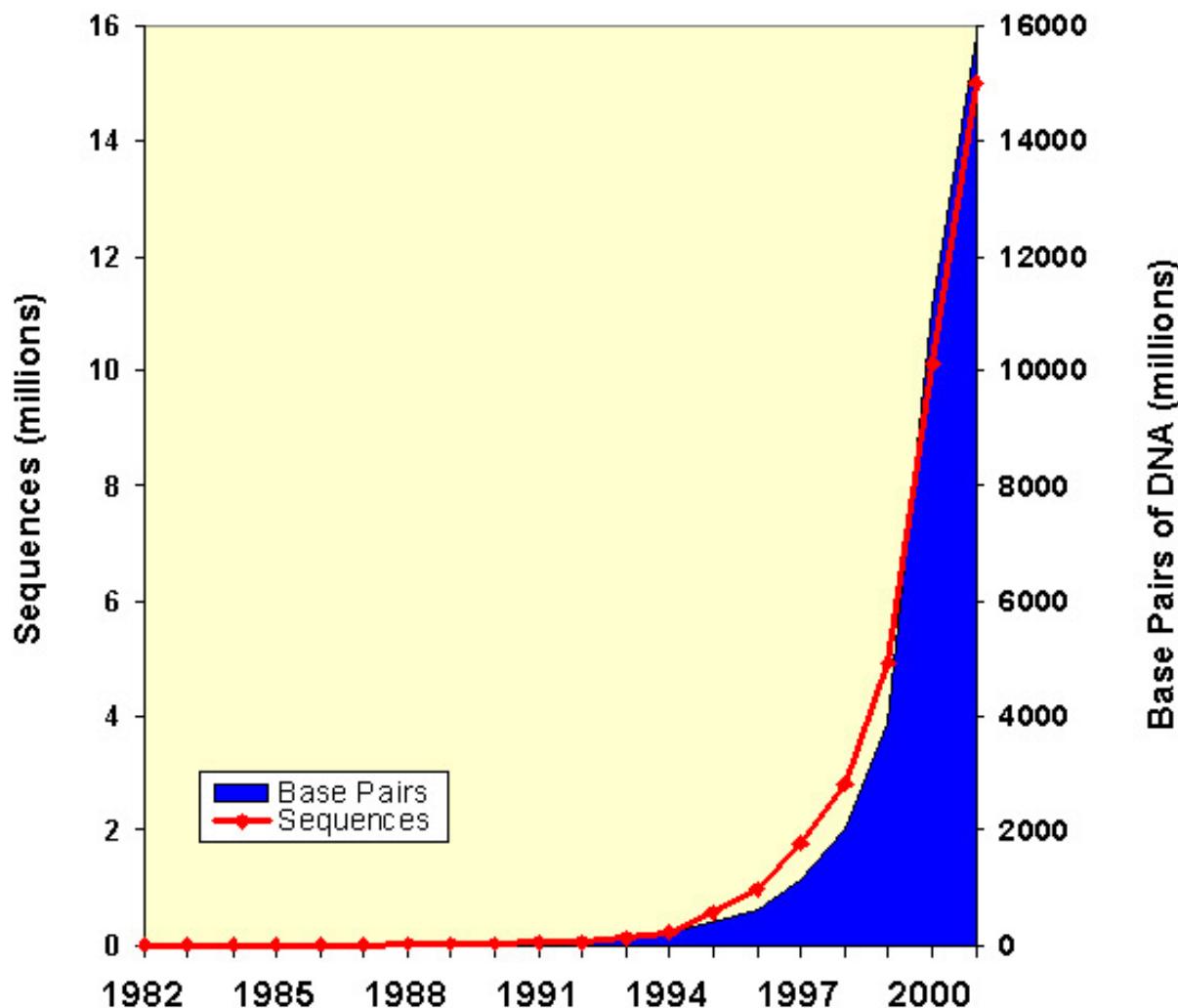
Sung-Min Ahn, Tae-Hyung Kim, Sunghoon Lee, et al.

Genome Res. published online May 26, 2009
Access the most recent version at doi:[10.1101/gr.092197.109](https://doi.org/10.1101/gr.092197.109)



GenBank에 축적되는 염기서열 개수와 염기 수

Growth of GenBank



같이 시청해 봅시다!

[http://www.ted.com/talks/richard_resnick_welcome_to_the_genomic_revolution.html
?quote=1064](http://www.ted.com/talks/richard_resnick_welcome_to_the_genomic_revolution.html?quote=1064)

Today's key word and
Take home message:

NGS (Next Generation Sequencing):
High-throughput revolutionary DNA
sequencing technique