

Biología Molecular aplicada al Diagnóstico Médico

Módulo I: Clase 1



Introducción al curso

Dr. Martín Vázquez

Círculo Médico de Rosario

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DNA sequencing
is the technology that experienced
the *most dramatic advances*
in the human history

the last ten years

2005

2015

50,000 b

day

1 equipment

18,000,000,000,000 b

day

1 equipment

0.000016

human genomes

day

100,000,000 USD

600

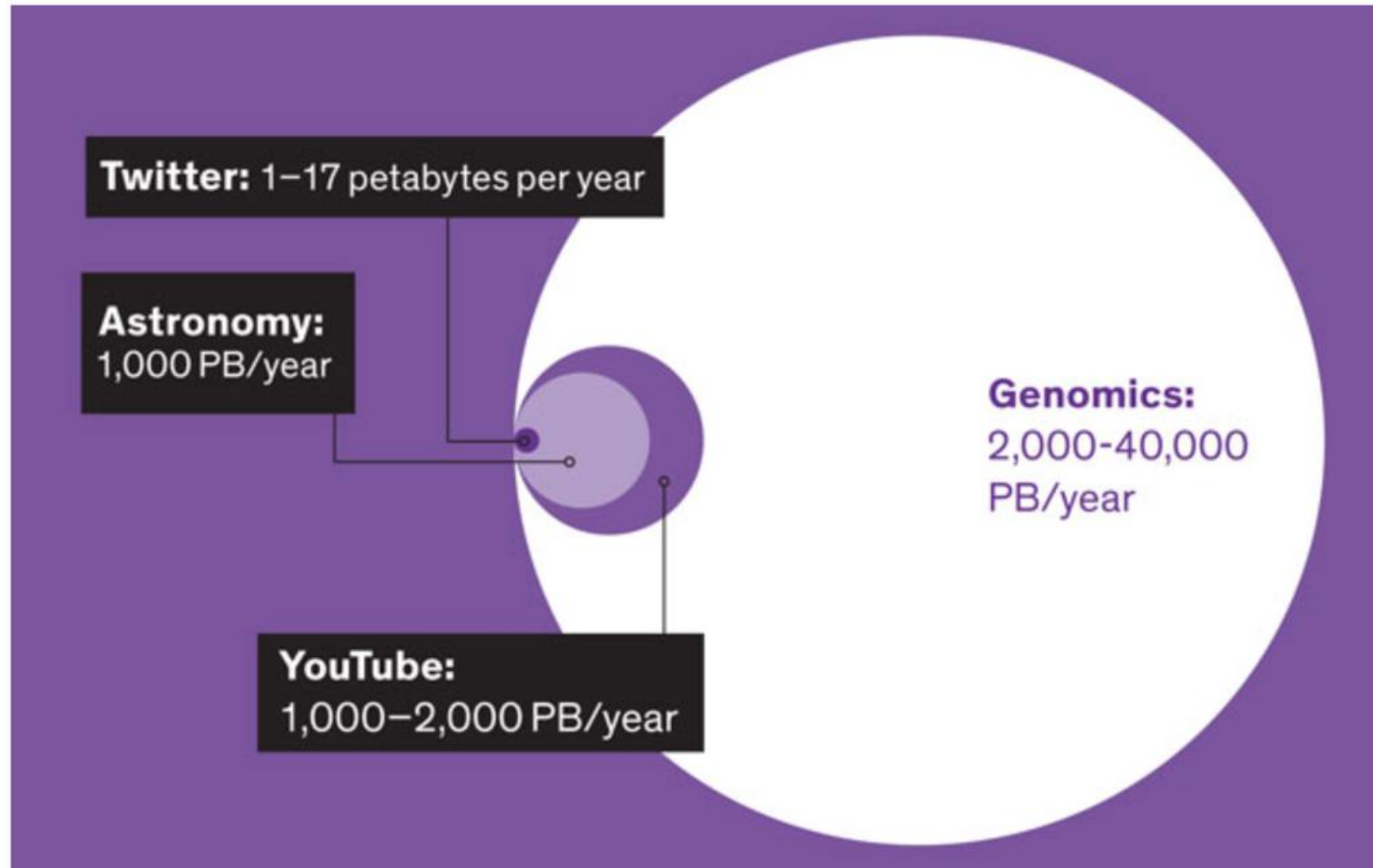
human genomes

day

1,000 USD



Projected annual storage in 2025



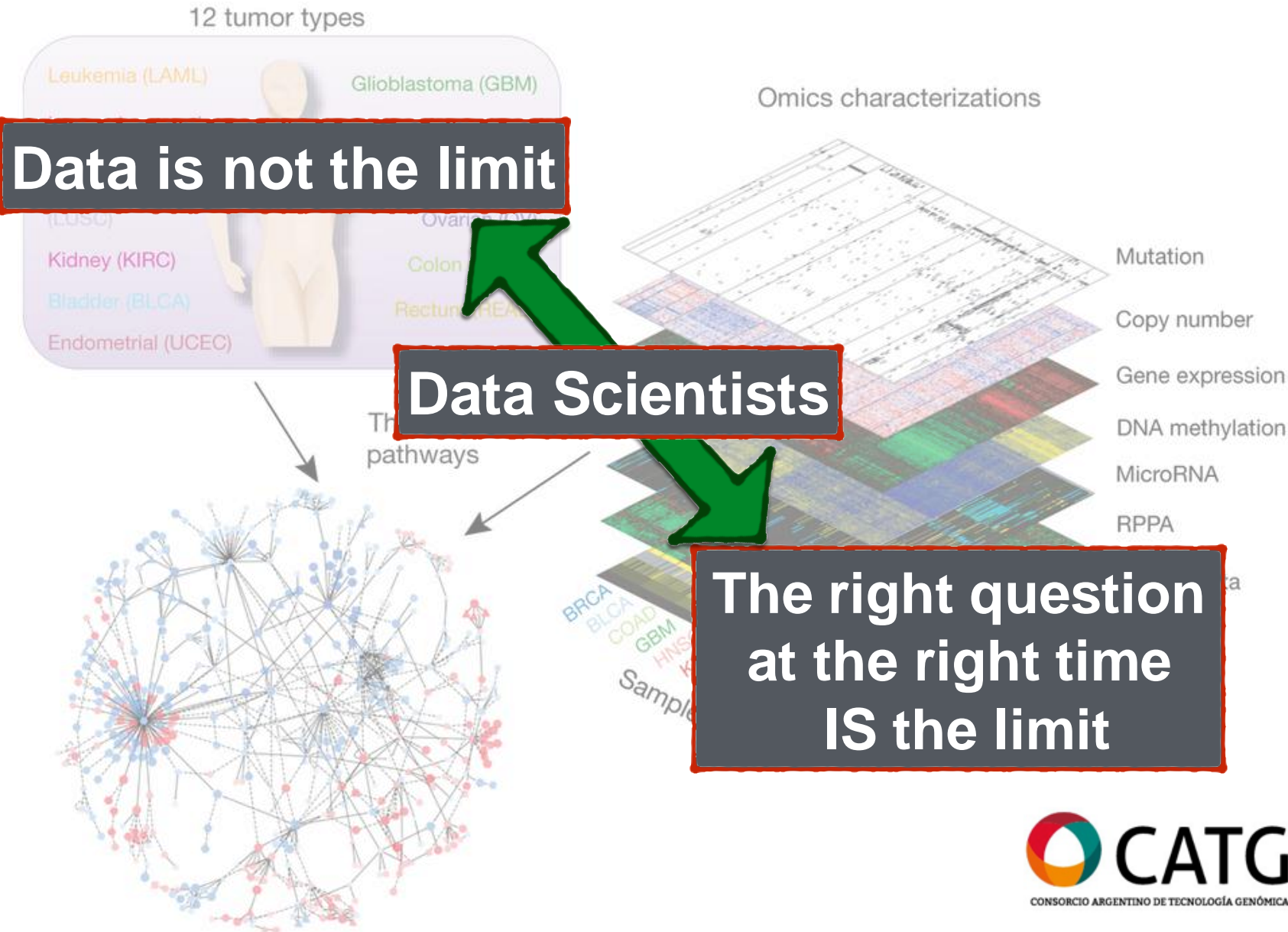
*Biological interpretation
(social, legal issues)
at the backend*



*Technology
at the forefront*



Big Data in genomics



Genomics route to the clinic

Research

Clinical Diagnostics



Genomics route to the clinic

CAREERS

TRANSITIONS From building houses to building molecules p.13

FUTURE PLANS Three steps to prepare for the next five years [gnature.com/fpdr](#)

NATUREJOBS For the latest career listings and advice [www.naturejobs.com](#)

DR. SCHWARTZ/GETTY



GENETICS

Fluent in DNA

As genomics migrates to the clinic, job options are emerging for genetic counsellors to explain the meaning in mutations.

Genetic Counsellor
Is the next big thing
in hot professions