



ADVANCING SCIENCE, SERVING SOCIETY

Taiwan MLC 2012

Translational Medicine
and Why We Need
Faster Cures



Science, the Flagship Publication

Science

AAAS

- Over 105,000 full-text articles in the database, growing each week
- *Science* has published articles by over 150 Nobel Laureates since 1977
- *Science* - 1 of 6 indicators to rank world universities for the Academic Ranking of World universities (ARWU)



New Life Science Journals

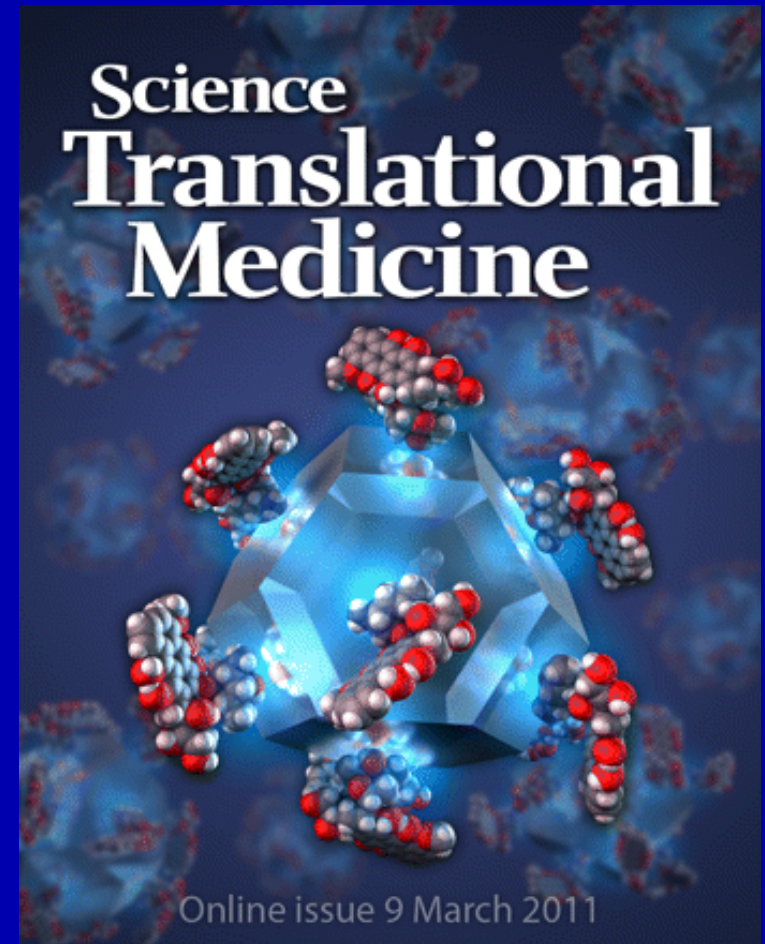


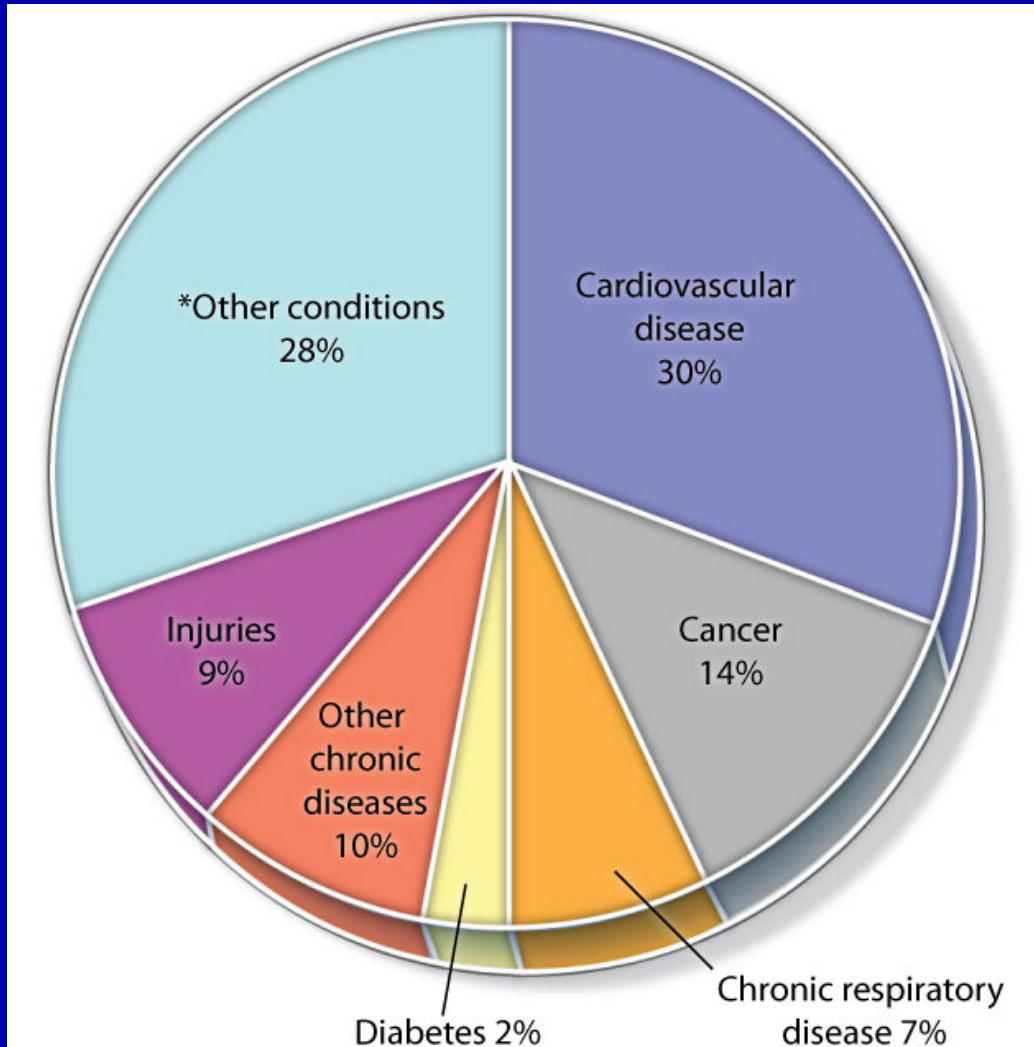
- ISI Web of Knowledge
2011 Impact Factors
- *Science Signaling*:
2011 Impact Factor =
7.5
- *Science Translational
Medicine*: 2011 Impact
Factor = 7.8

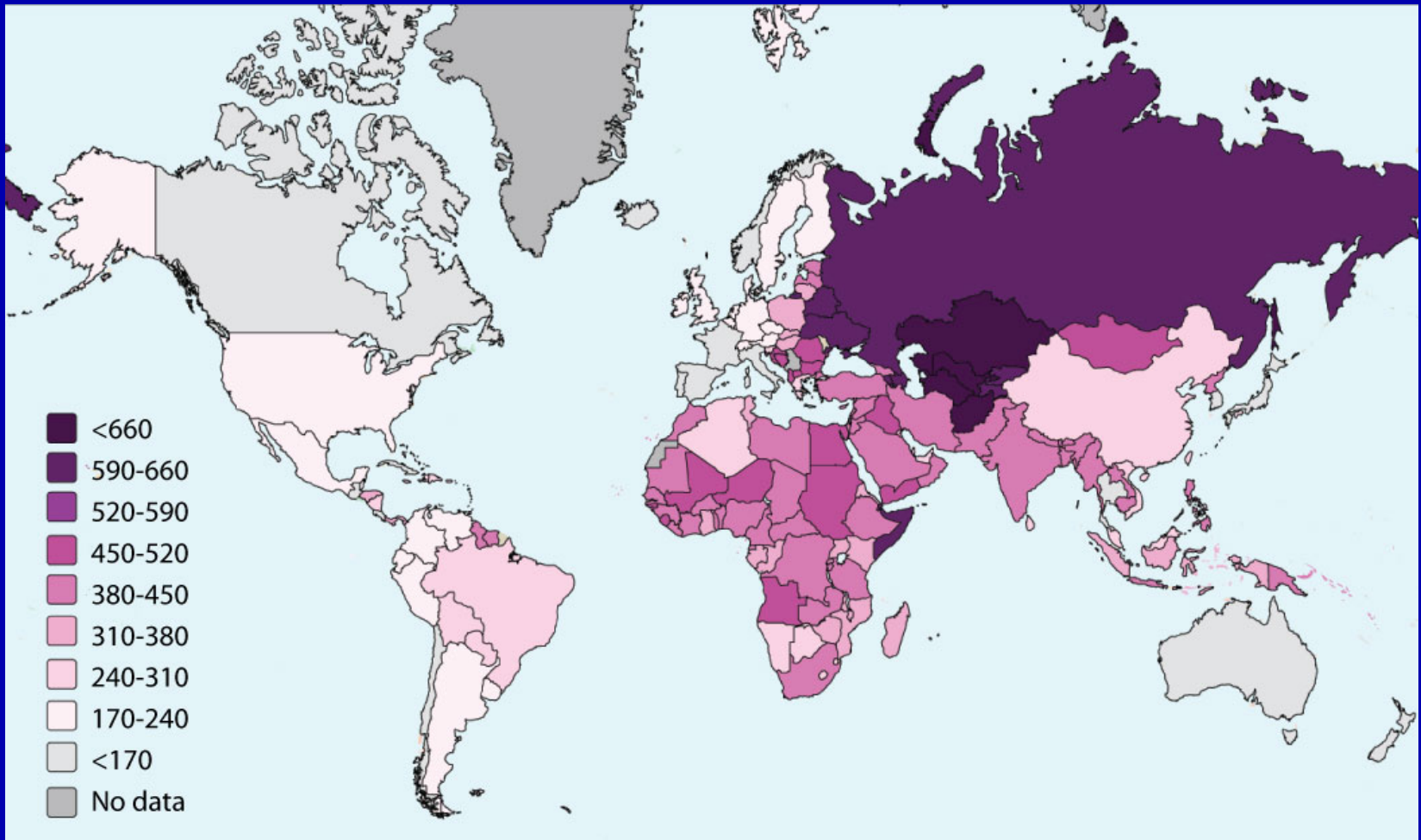


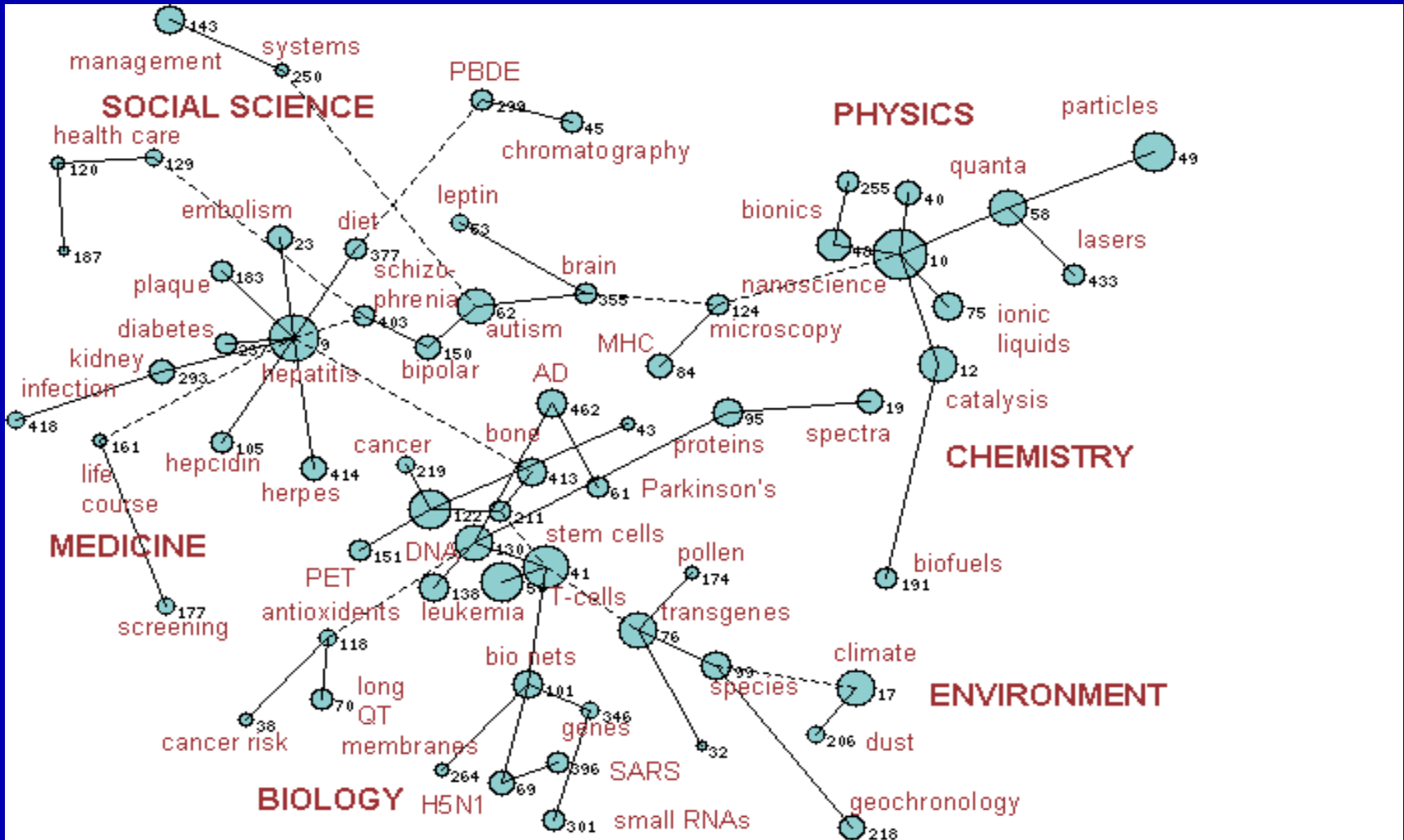
“Translation of the promise of basic discoveries to realize novel therapeutics, diagnostics and approaches to management that benefit the public health.”

Garret A. FitzGerald, M.D.
University of Pennsylvania,
Chief Scientific Advisor,
Science Translational Medicine

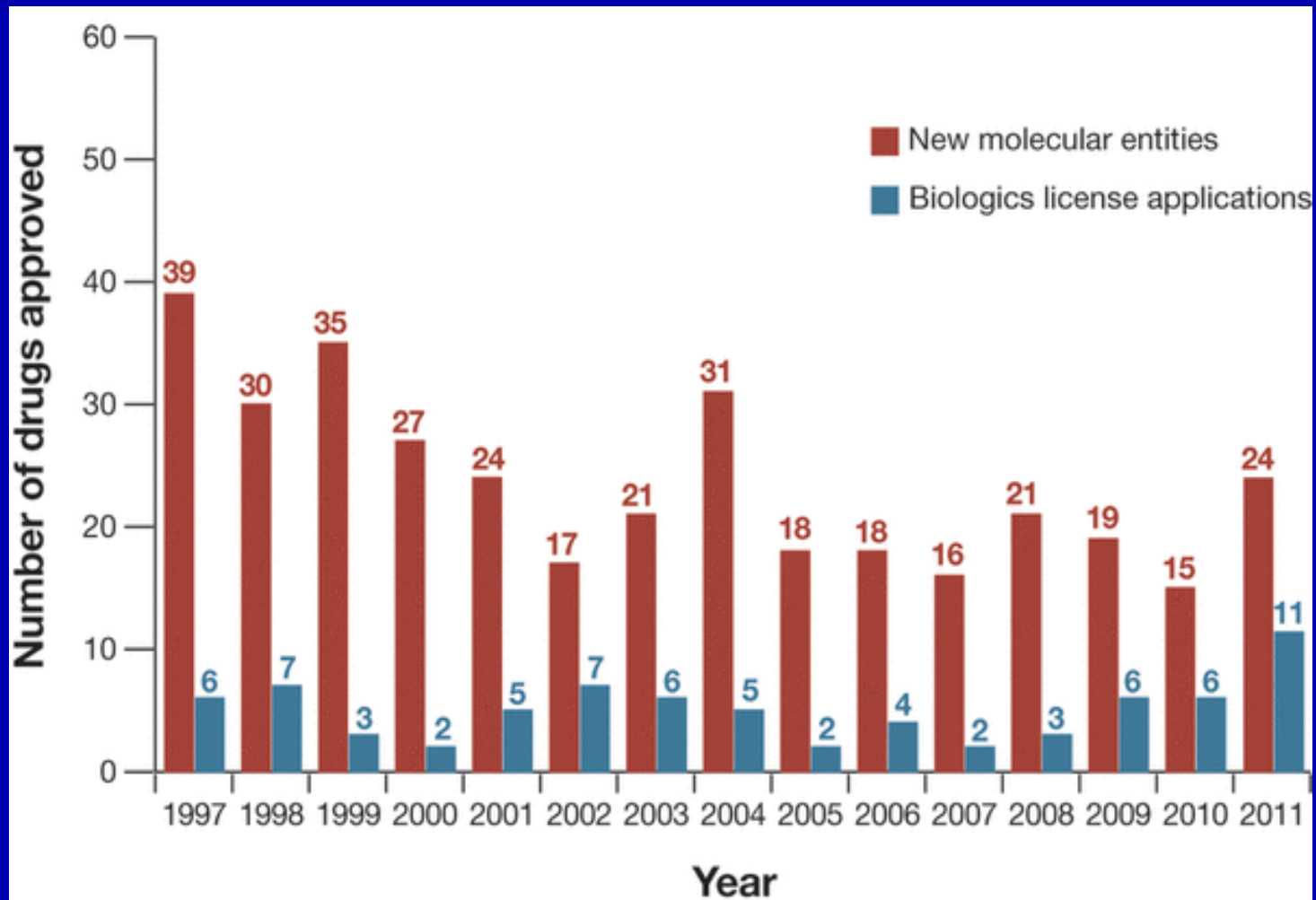






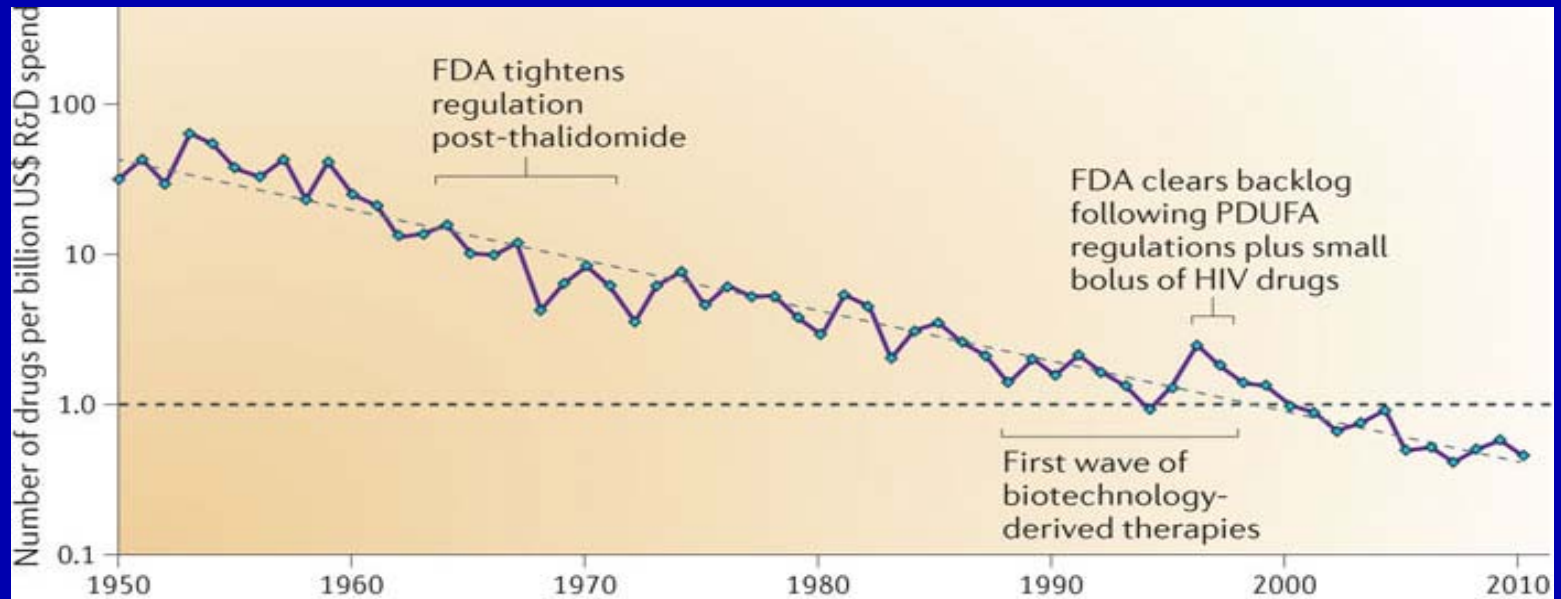


Invest a billion for 12 years to earn \$75million
Roche, dalcetrapib and 3.5%

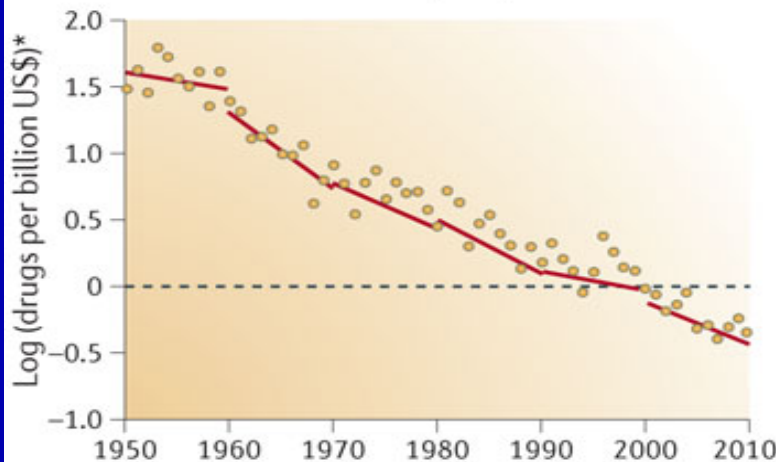


**Perhaps a 1:40,000 chance of becoming
an approved drug!**

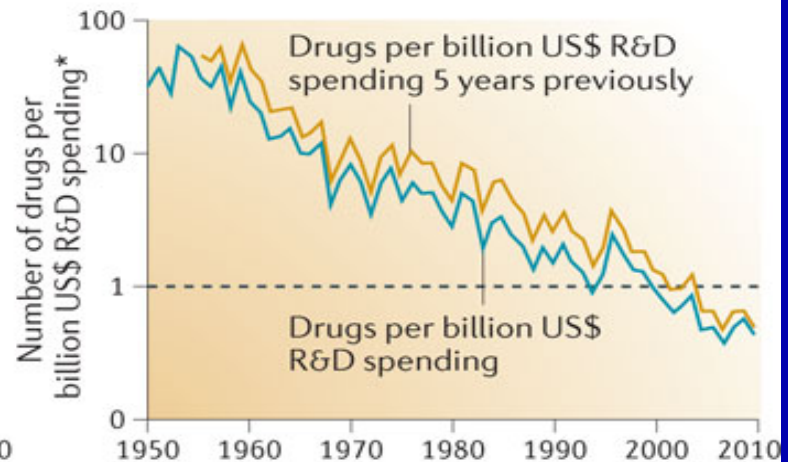




b Rate of decline over 10-year periods



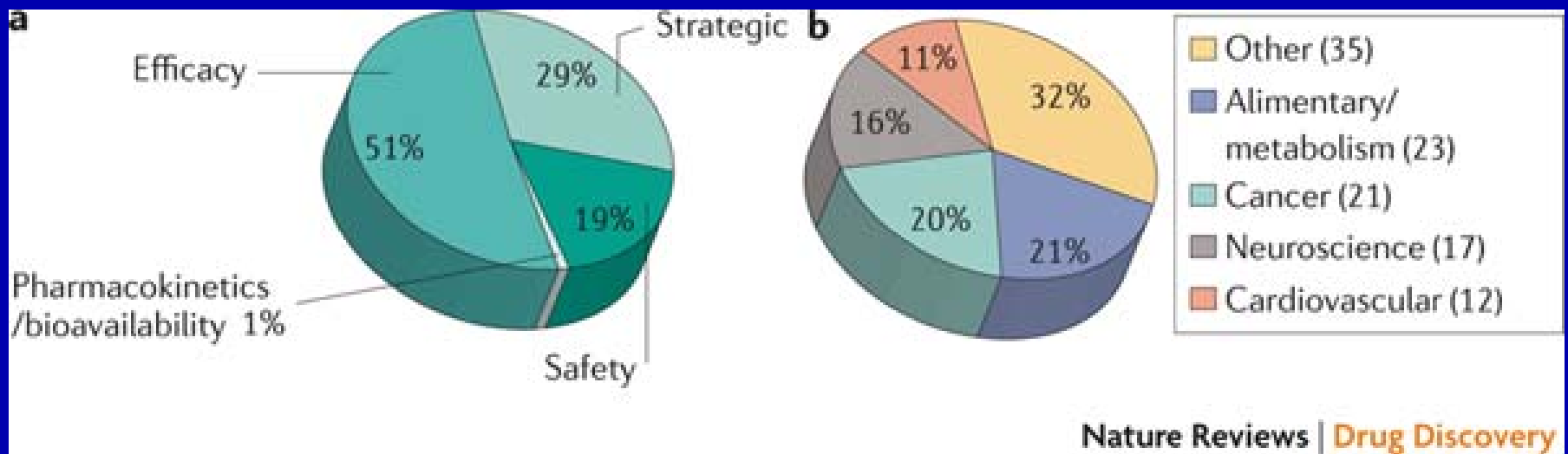
c Adjusting for 5-year delay in spending impact



\$300 Billion in Mergers and Acquisitions so far in 2012

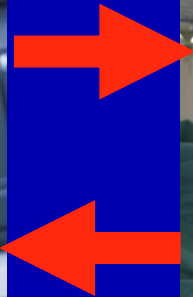


Success rates have fallen from 28% (2006/2007)
to 18% (2008/2009)



Missing expertise that projects across the translational divide
an understanding of mechanism and variability in drug
response

Social forum to improve communication
between
basic researchers AND applied clinicians



- NEJM/Lancet/JAMA
 - Important patient-based trials that inform clinical practice
- *Science*/NATURE
 - Novel basic discoveries that change fundamental understanding
- *Science Translational Medicine*
 - Results that mark genuine progress toward improvements in clinical practice in all areas of medicine

- Unique scope and mission
- Authoritative commentaries
- State of the Art Research Reviews
 - Overviews of diseases to identify bottlenecks that prevent progress to clinical advances
- Cutting-edge original research

Gene Therapy

- National Taiwan University and Hospital

Cancer

- National Cheng Kung University, China Medical University/Hospital and Chang Gung University/Hospital

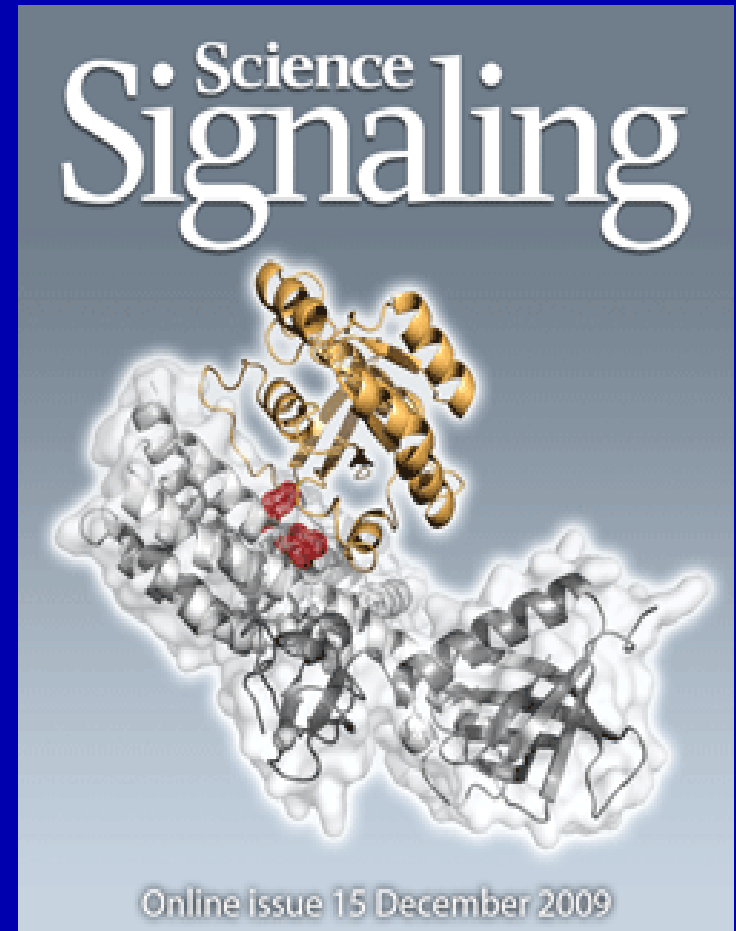
Fibrosis

- National Taiwan University Hospital

Genomic Medicine Society and Conference on Biomarkers and Translation



- Multidisciplinary life science journal
- Signal transduction mechanisms control biological systems
- These mechanisms provide target to develop therapeutic agents to combat disease



PubMed: Results for Cell Signaling Terms



- *Science Signaling* ranked in the top 22 % of all Journals in Cell Biology
- *Science Signaling* 2010 Impact Factor 6.12
- Signal transduction - intensely active field of biomedical research!
- 330,683 results in PubMed for “signal transduction”
- 482,130 results in PubMed for “signaling” or “signalling”

Cellular Signaling and Signal Transduction: A “hot” field of basic research

Geotoxic Stress

- Institute of Biomedical Sciences, Academia Sinica

Tumorigenesis

- Sun Yat-sen University Cancer Center
- National Health Research Institutes
- China Medical University and Hospital
- Asia University

Cell Migration

- Chang Gung Memorial Hospital and University

Guides users through the key features of the *Science* website

Show users how to:

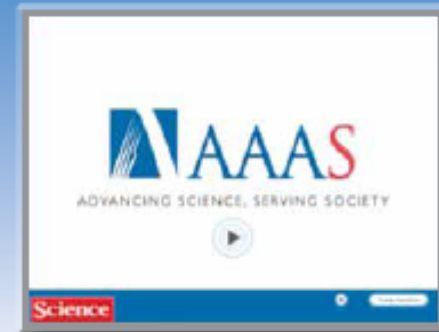
- Access *Science* content
- Find daily *Science* news
- And more!

ScienceOnline.org/tutorial

Science Online Tutorial

The tutorial shows users key features of the *Science* Website including:

- How to access *Science* content
- How to browse *Science* articles
- Where to find daily up-to-date *Science* news
- And more!



Visit ScienceOnline.org/tutorial to watch the tutorial in these available languages!

English	Arabic	Polish
Spanish	French	Chinese
Portuguese	Japanese	Korean

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iPod touch, and Android
phones.

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Thank you!