



# FSC

Centro Culturale della Fondazione Collegio San Carlo

**Massimiano Bucchi**

**Scienza e società**

**La democrazia nell'epoca della tecnoscienza**

12 febbraio 2013

**diapositive**

Seminario di cultura europea

**Scienza**

**Politiche della ricerca e dinamiche sociali**

febbraio - marzo 2013



Fondazione Collegio San Carlo di Modena

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**Scienza e Società**  
**La democrazia nell'epoca**  
**della tecnoscienza**

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*12 febbraio 2013*

# Scienza come “Gallina dalle uova d’oro”

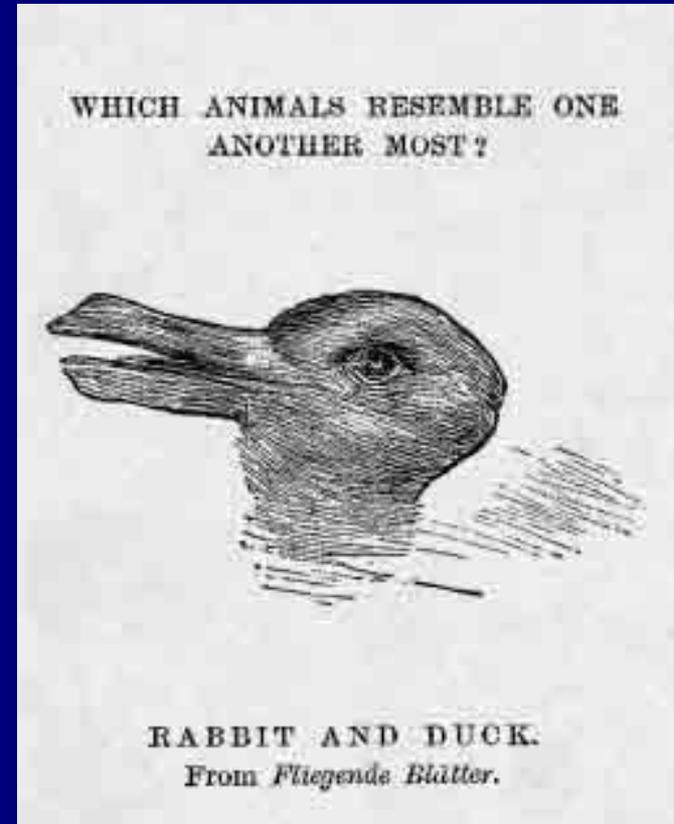
(V. Bush, *Science, the endless frontier: A report to the President*),  
1945



# Anatre o conigli?

- ☀ “quelle che nel mondo dello scienziato prima della rivoluzione erano anatre, appaiono dopo come conigli”

(T.S. Kuhn, *The Structure of Scientific Revolutions*, 1962, 2nd ed. 1969).



## Cani o gatti?

- ★ Se il Parlamento, non importa quanto tempo fa, avesse approvato una legge applicabile ai cani, non potrebbe oggi essere interpretata correttamente come applicabile ai gatti; tuttavia potrebbe essere applicata ad animali che *non erano considerati cani quando la legge fu approvata, ma che sono considerati cani adesso*

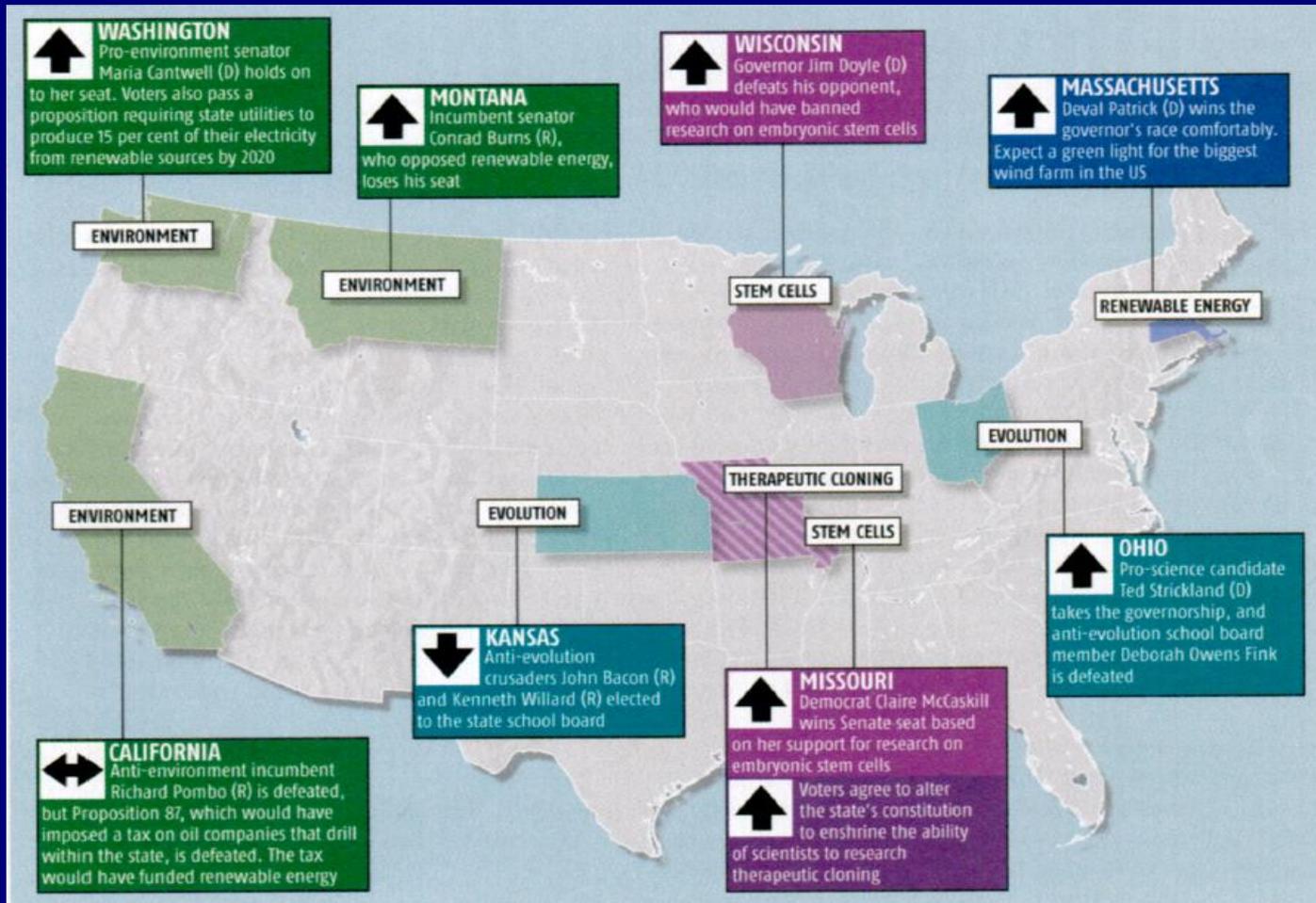
*(House of Lords, Regina v. Secretary of State for Health (Respondent) ex parte Quintavalle (on behalf of Prof-Life Alliance) (Appellant, 2003).*

# Cambiamenti nello status dell'energia nucleare

- ★ Atomic Energy Lab Kit per bambini, commercializzato negli USA tra il 1950 e il 1951 a 49,50\$



# Laboratorio degli stati o stati laboratorio?



# Tecnoscienza personalizzata?

Firefox Genetic Testing for Health, Disease & An... +

https://www.23andme.com

Più visitati Come iniziare Ultime notizie http://www.google.it/ Segnalibri

23andMe

welcome ancestry health how it works store search help

sign in register kit 0

"I found the results extremely useful..."

Ancestry  
Connect to your past.

Health  
Learn for the present.

Research  
Participate for the future.

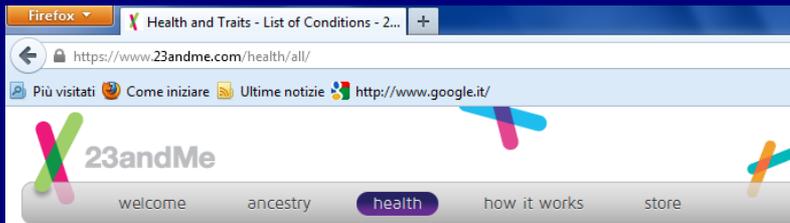
23andMe is a DNA analysis service that helps you explore your DNA.  
A little bit of spit is all it takes to start your journey.

23andMe DNA Spit Kit

Improve your life.  
\$299 was \$399

Add to Cart

# Tecnoscienza personalizzata?



## health reports: complete list

The 23andMe service includes genetic analysis on all of the following diseases and conditions. This list grows every month as new research is published.

### \* Established Research Reports

Established Research reports give you information about conditions and traits for which there are genetic associations supported by multiple, large, peer-reviewed studies. Because these associations are widely regarded as reliable, we use them to develop quantitative estimates and explanations of what they mean for you.

### Preliminary Research Reports

Preliminary Research reports are based on peer-reviewed, published research where the findings still need to be confirmed by the scientific community. They also include topics where there may be contradictory evidence. Topics may move from Preliminary Research to Established Research when and if sufficient follow-up studies are performed. New discoveries in genetics are being published all the time and we strive to keep our customers updated with the latest information on genetics and health.

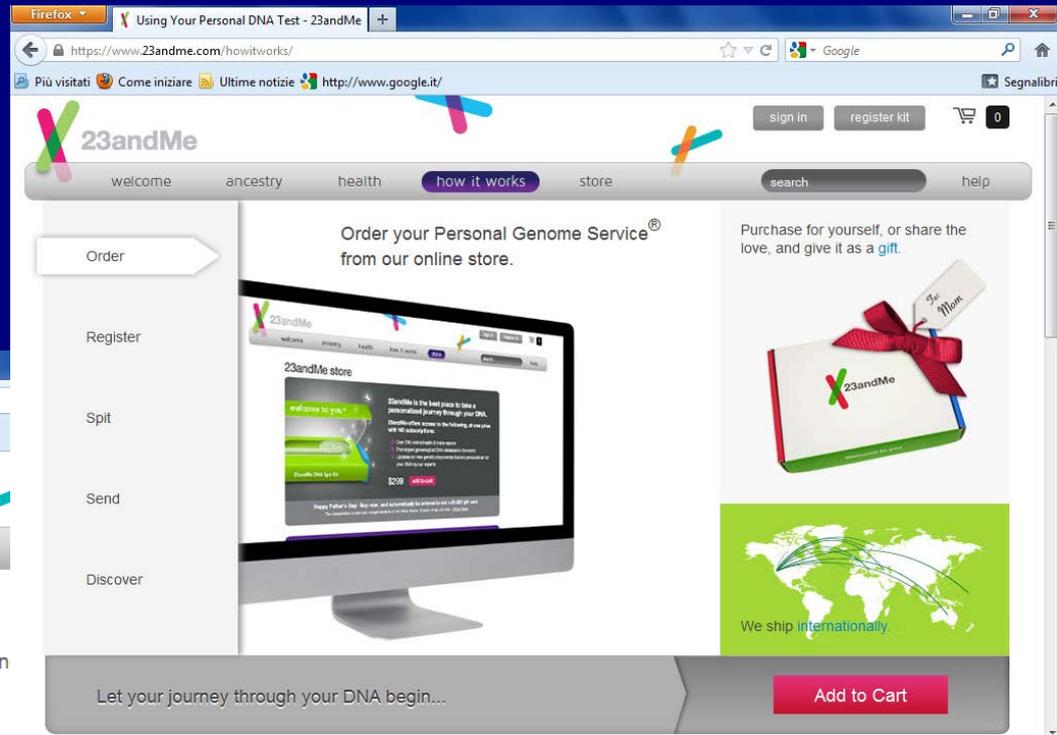
[View reports by ethnicity](#)

### Carrier Status (48)

ARSACS \*  
Agenesis of the Corpus Callosum with Peripheral Neuropathy (ACCPN) \*  
Alpha-1 Antitrypsin Deficiency \*  
Autosomal Recessive Polycystic Kidney Disease \*  
BRCA Cancer Mutations (Selected) \*

### Disease Risk (118)

Abdominal Aortic Aneurysm  
Age-related Macular Degeneration \*  
Alcohol Dependence  
Alopecia Areata  
Alzheimer's Disease \*  
Ankylosing Spondylitis



# Scienza come questione di 'gusti' e preferenze individuali?



Facebook | The Coalition that Knows that Pluto is Really a Planet - Mozilla Firefox

File Modifica Visualizza Cronologia Segnalibri Strumenti Auto

http://it-ph.facebook.com/group.php?gid=2207823165&w=wall

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### The Coalition that Knows that Pluto is Really a Planet

Battuta Info Foto Discussioni

**Ali McMillan** Definitions are relative, if we say it's a planet, it's a planet.  
1 dicembre 2008 alle ore 20:43 · Contrassegna

**Alexandra Nikolayevich To Amanda Arltzberger:**  
And in Astrology it doesn't matter if cosmic object is called star or moon, satellite, asteroid, planet, dwarf planet, it just matters that is there and it has certain symbolism, it "works" anyway, it doesn't matter what astronomers call it.) Astrologers use asteroids as well, certain mathematical p...  
Mostra tutto  
29 luglio 2008 alle ore 21:50 · Contrassegna

**Alexandra Nikolayevich To Amanda Arltzberger:**  
Astrology goes like this: It is geocentric system, it means Earth is in the middle, and the Zodiac belt to around it. Zodiac belt consists 12 Signo, and there are 10 main objects, in Astrology called all planets, only for the purpose of simplifying and easier learning and understanding, even through...  
Mostra tutto  
29 luglio 2008 alle ore 21:46 · Contrassegna

**Shiv Medrick** Ah Pluto, you're always in my heart.  
Without you, there are no PIZZAS \*sob\*  
6 giugno 2007 alle ore 8:58 · Contrassegna

**Eric Woodruff** Christ on a cracker! This group took off Abby!  
3 gennaio 2007 alle ore 6:37 · Contrassegna

**Informazioni**  
Categoria: Interessi Comuni - Scienza  
Descrizione: For all of us who grew up learning the mnemonic device:  
My Very Educated Mother Just Served Us Nine Pizzas  
...With no Pluto, there's no pizzas. Let's get serious.  
Tipo di privacy: Aperto: i contenuti sono visibili a tutti.

**Amministratori**  
Abbey Roy (Kent State) (fondatore)

Crea un'iscrizione

Härborttagning för män

Magnum Gold

Grundkurs klippklätning

Chat (0)

Completato

# Scienza come questione di 'gusti' e preferenze individuali?

**THE**  **TIMES**

Published: August 25, 2006

## Pluto cut down to size by astronomers' dwarf ruling

By Nigel Hawkes



# Quale comunicazione, per quale scienza?

“Few challenges facing America and the world are more urgent than combating climate change. The science is beyond dispute and the facts are clear.”

—PRESIDENT-ELECT BARACK OBAMA, NOVEMBER 19, 2008

## With all due respect Mr. President, that is not true.

We, the undersigned scientists, maintain that the case for alarm regarding climate change is grossly overstated. Surface temperature changes over the past century have been episodic and modest and there has been no net global warming for over a decade now.<sup>1,2</sup> After controlling for population growth and property values, there has been no increase in damages from severe weather-related events.<sup>3</sup> The computer models forecasting rapid temperature change abjectly fail to explain recent climate behavior.<sup>4</sup> Mr. President, your characterization of the scientific facts regarding climate change and the degree of certainty informing the scientific debate is simply incorrect.

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Geophysical Institute  
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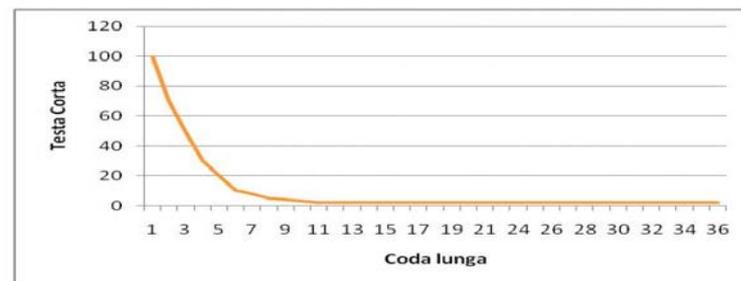


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<sup>1</sup> Raman, J., et al. *Journal of Geophysical Research*, 2008. DOI: 10.1029/2008JD129004. <sup>2</sup> Trenberth and Hurrell, 2004. <sup>3</sup> Raman, J., et al. *Journal of Geophysical Research*, 2008. DOI: 10.1029/2008JD129004. <sup>4</sup> Doughton, D. R., et al. *International Journal of Climatology*, 2007. DOI: 10.1002/joc.1411.

# Ancora animali? La coda lunga dell'expertise scientifico..

- Il numero stimato di ricercatori nel mondo è cresciuto da circa 4 milioni nel 1995 a circa 5.7 milioni nel 2007
- Il numero di articoli scientifici pubblicato in un gruppo di riviste internazionali peer reviewed è cresciuto da circa 460,000 nel 1988 a una stima di 760,000 nel 2008. (NSF, 2010)



# Per continuare la discussione..

- ☀ [www.soc.unitn.it/sus/mb.htm](http://www.soc.unitn.it/sus/mb.htm)
- ☀ [massimianobucchi.nova100.ilsole24ore.com/](http://massimianobucchi.nova100.ilsole24ore.com/)
- ☀ [www.observa.it](http://www.observa.it)

