

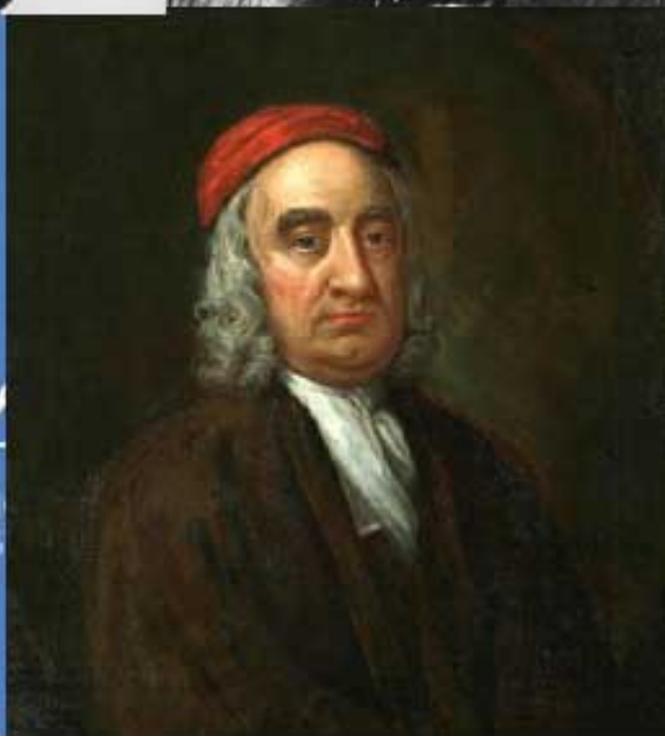
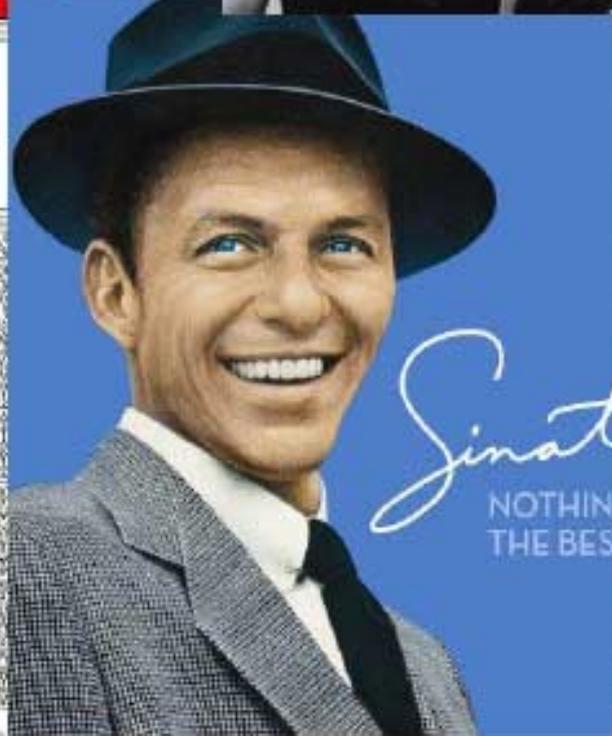
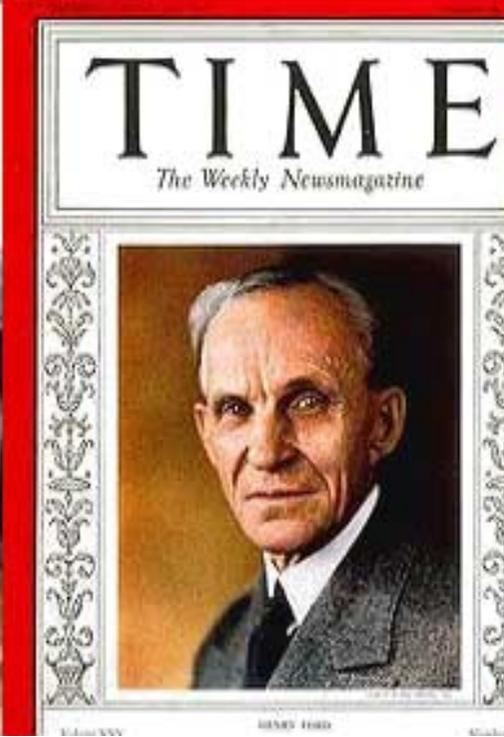
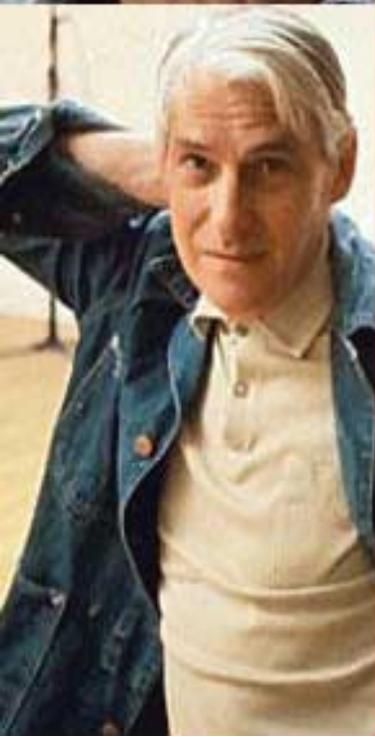


DAVOS

KLOSTERS

Willkommen • Welcome

graubünden



What do the following people have in common?

- **Ronald Reagan (U.S. President)**
- **Winston Churchill (Prime minister)**
- **Frank Sinatra (singer)**
- **Henry Ford (car mogul)**
- **Jonathan Swift (author)**
- **Aaron Copeland (composer)**
- **Willem De Kooning (painter)**
- **Rita Hayworth (actress)**

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- Jonathan Swift (author)
- Aaron Copeland (composer)
- Willem DeKooning (painter)
- Rita Hayworth (actress)

They all died with Dementia of the Alzheimer type.



1952



1952

Whatever
happened to
our sexual
relations?



whatever
happened to
our sexual
relations?

I don't know.
I don't even
think we got
a Christmas
card from them
this year.







Hypertension

THE AMERICAN HEART ASSOCIATION



American
Heart
Association®

Benefits in Cognitive Function, Blood Pressure, and Insulin Resistance Through Cocoa Flavanol Consumption in Elderly Subjects With Mild Cognitive Impairment : The Cocoa, Cognition, and Aging (CoCoA) Study

Giovambattista Desideri, Catherine Kwik-Urbe, Davide Grassi, Stefano Necozione, Lorenzo Ghiadoni, Daniela Mastroiacovo, Angelo Raffaele, Livia Ferri, Raffaella Bocale, Maria Carmela Lechiara, Carmine Marini and Claudio Ferri

Hypertension. 2012;60:794-801; originally published online August 14, 2012;
doi: 10.1161/HYPERTENSIONAHA.112.193060

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Print ISSN: 0194-911X. Online ISSN: 1524-4563



- **The time required to complete Trail Making Test A and Trail Making Test B was ($P<0.05$) lower and**
- **Verbal fluency test score was ($P<0.05$) better in subjects assigned to high flavanols.**
- **Changes of insulin resistance explained $\approx 40\%$ of composite z score variability through the study period (partial $r^2=0.4013$; $P<0.0001$)**



Conclusion

- **“Regular consumption of cocoa flavanols might be effective in improving cognitive function in elderly subjects with mild cognitive impairment”.**

- **We found a significant inverse relationship between flavonoid intake and dementia in a 5-year follow-up study of a cohort of 1367 elderly subjects.**
- **The age-adjusted RR of dementia was 0.55 for the two highest tertiles compared to the lowest (95% CI: 0.34 ± 0.90 ; $p = 0.02$).**



**Bisson JF, Nejdi A, Rozan P, Hidalgo S,
Lalonde R, Messaoudi M.**

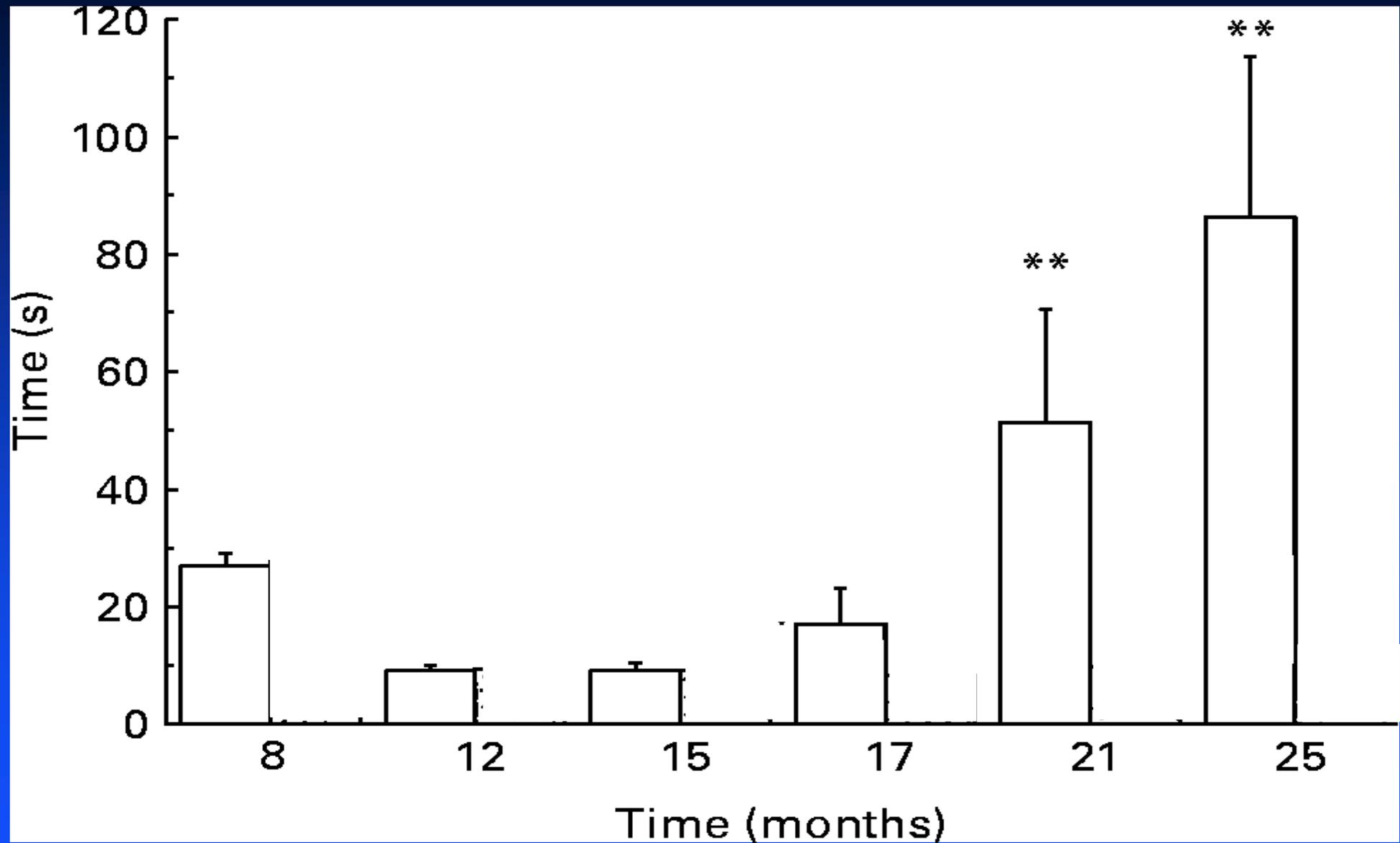
**Effects of long-term administration
of a cocoa polyphenolic extract
(Acticoa powder) on cognitive
performances in aged rats.**

Br J Nutr. 2008 Jul;100(1):94-101.

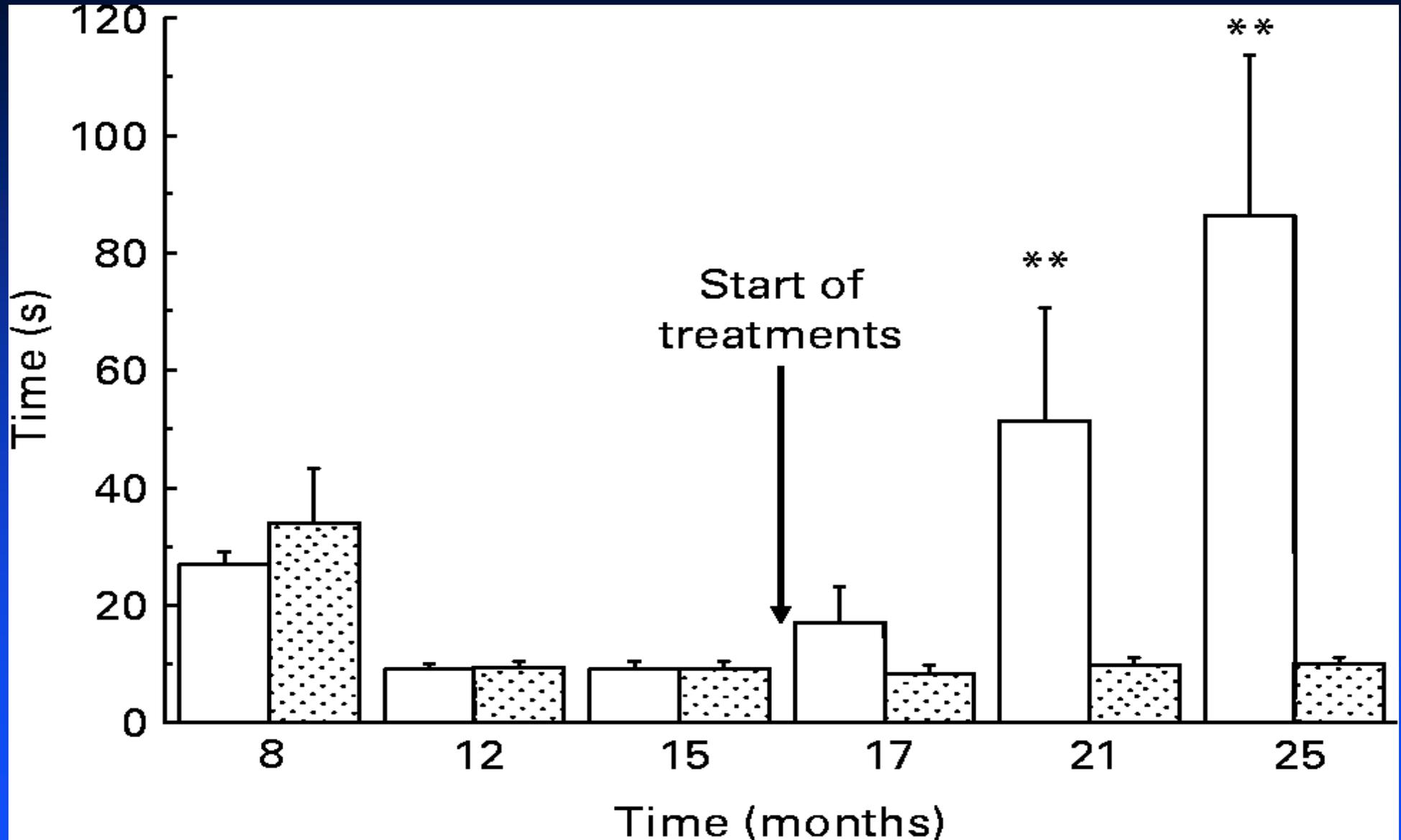
Water maze performances



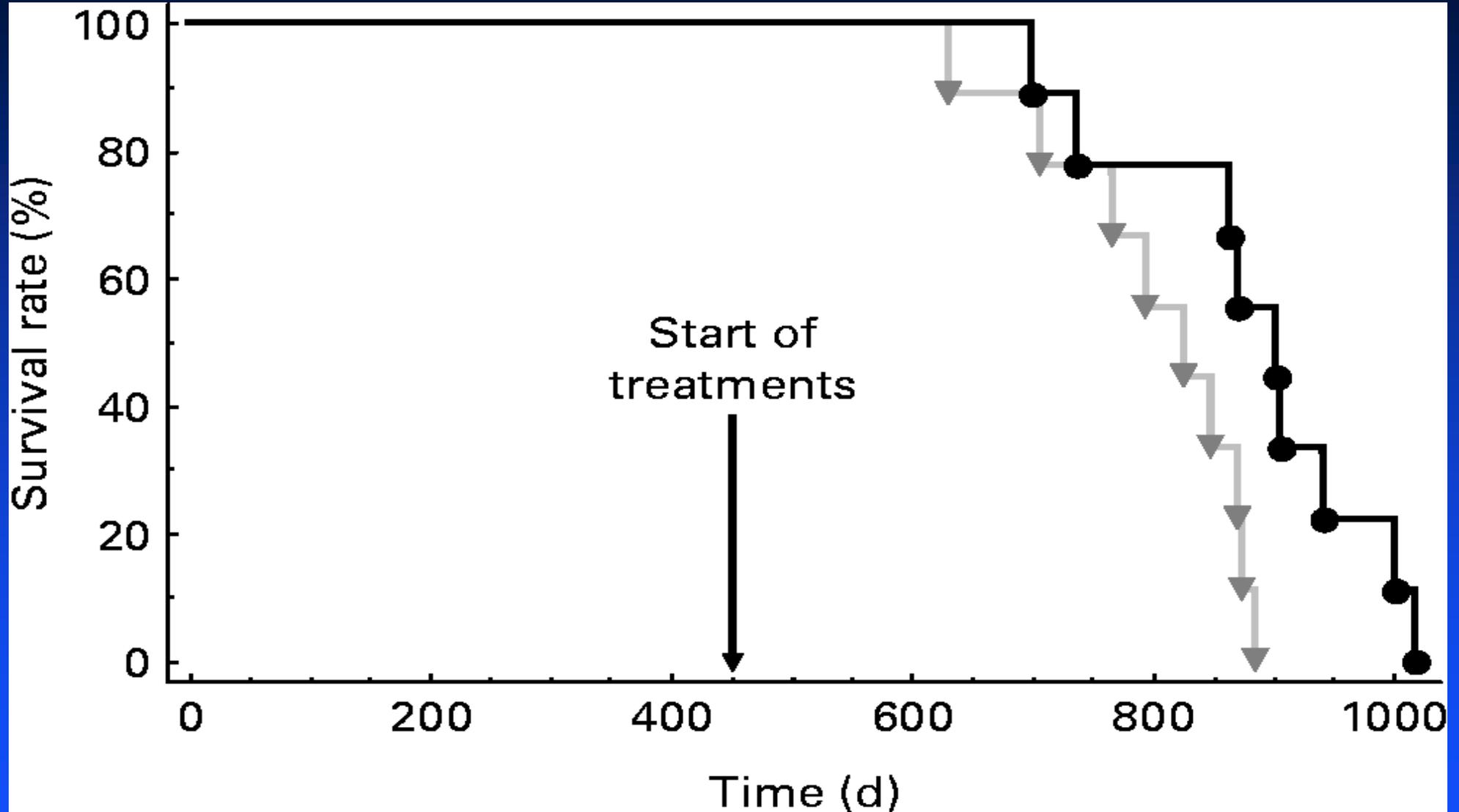
Water maze performances



Water maze performances with cocoa



Survival Rates



- **Acticoa powder improved cognitive performances in water maze paradigms and increased lifespan.**
- **These results suggest that Acticoa powder may be beneficial in retarding age-related brain impairments, including cognitive deficits in normal ageing...**

RESEARCH ARTICLE

Expand

A flavonol present in cocoa [(–)epicatechin] enhances snail memory

Lee Fruson, Sarah Dalesman and Ken Lukowiak*

+ Author Affiliations

* Author for correspondence (lukowiak@ucalgary.ca)

Received January 16, 2012.

Accepted July 2, 2012.



SUMMARY

Dietary consumption of flavonoids (plant phytochemicals) may improve memory and neuro-cognitive performance, though the mechanism is poorly

Circulation

JOURNAL OF THE AMERICAN HEART ASSOCIATION



American
Heart
Association®

Cocoa and Cardiovascular Health

Roberto Corti, Andreas J. Flammer, Norman K. Hollenberg and Thomas F. Lüscher

Circulation. 2009;119:1433-1441

doi: 10.1161/CIRCULATIONAHA.108.827022

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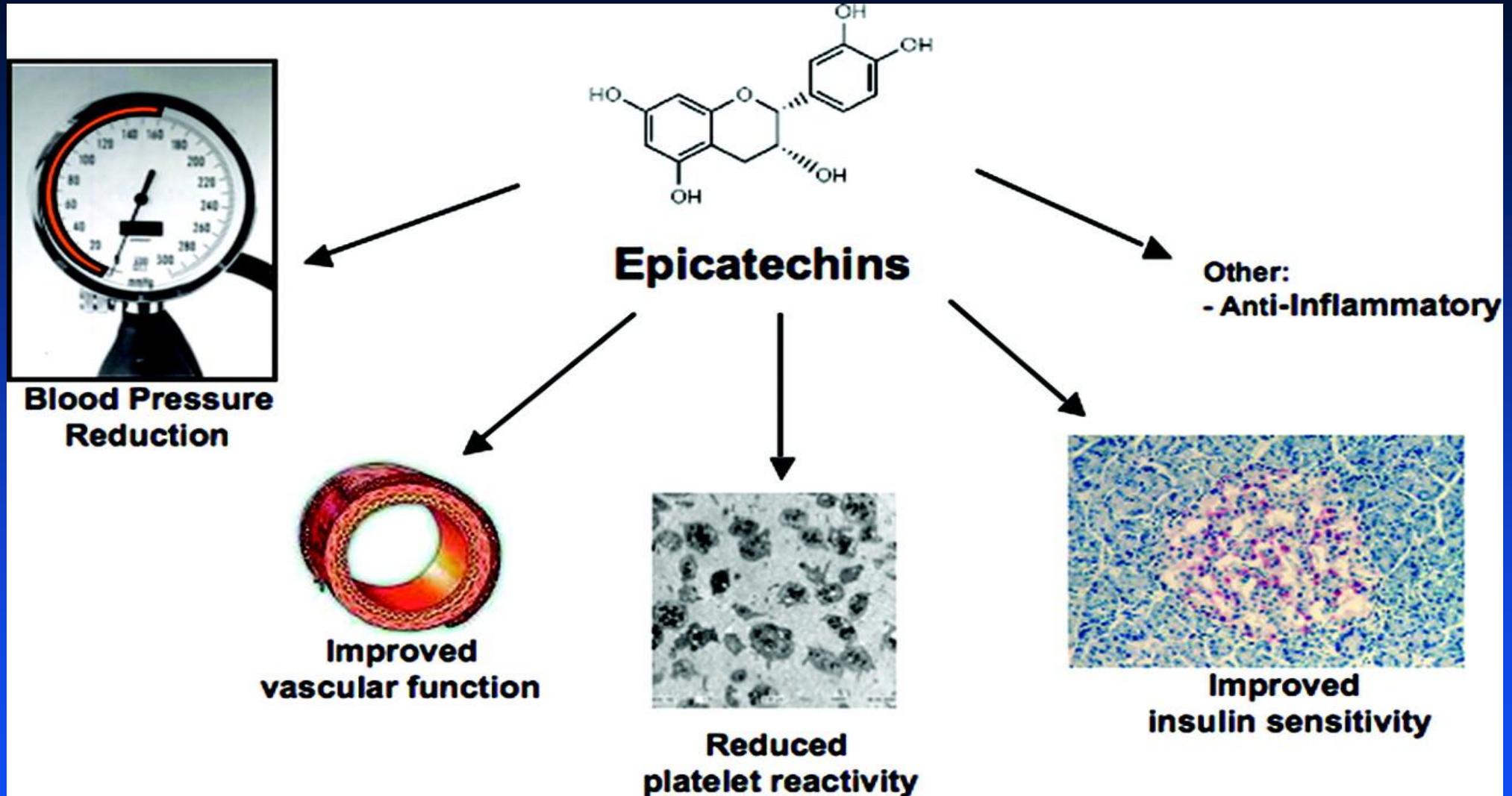
The online version of this article, along with updated information and services, is located on the
World Wide Web at:

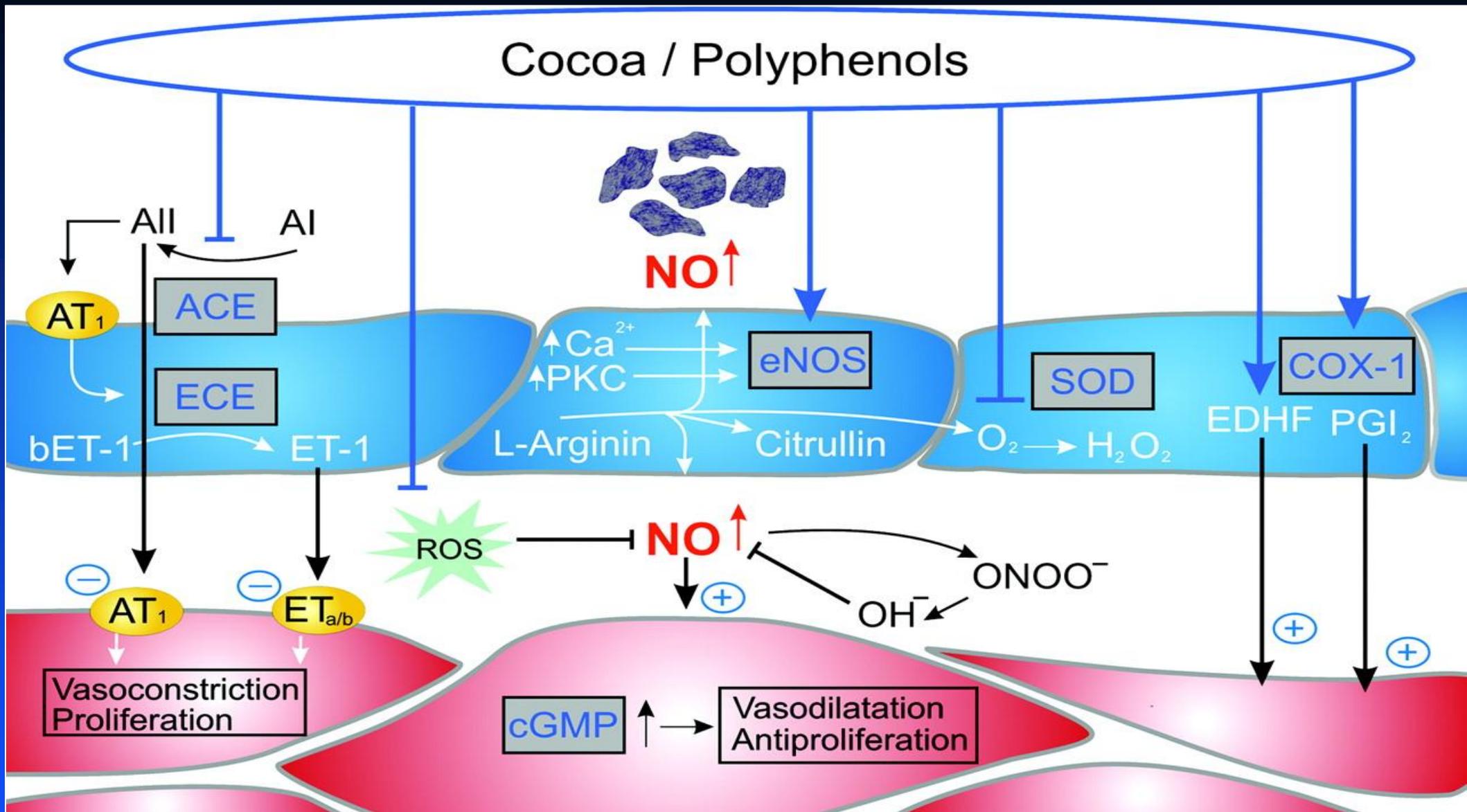
<http://circ.ahajournals.org/content/119/10/1433>



Corti R et al. *Circulation* 2009;119:1433-1441

Health-relevant effect of epicatechins.



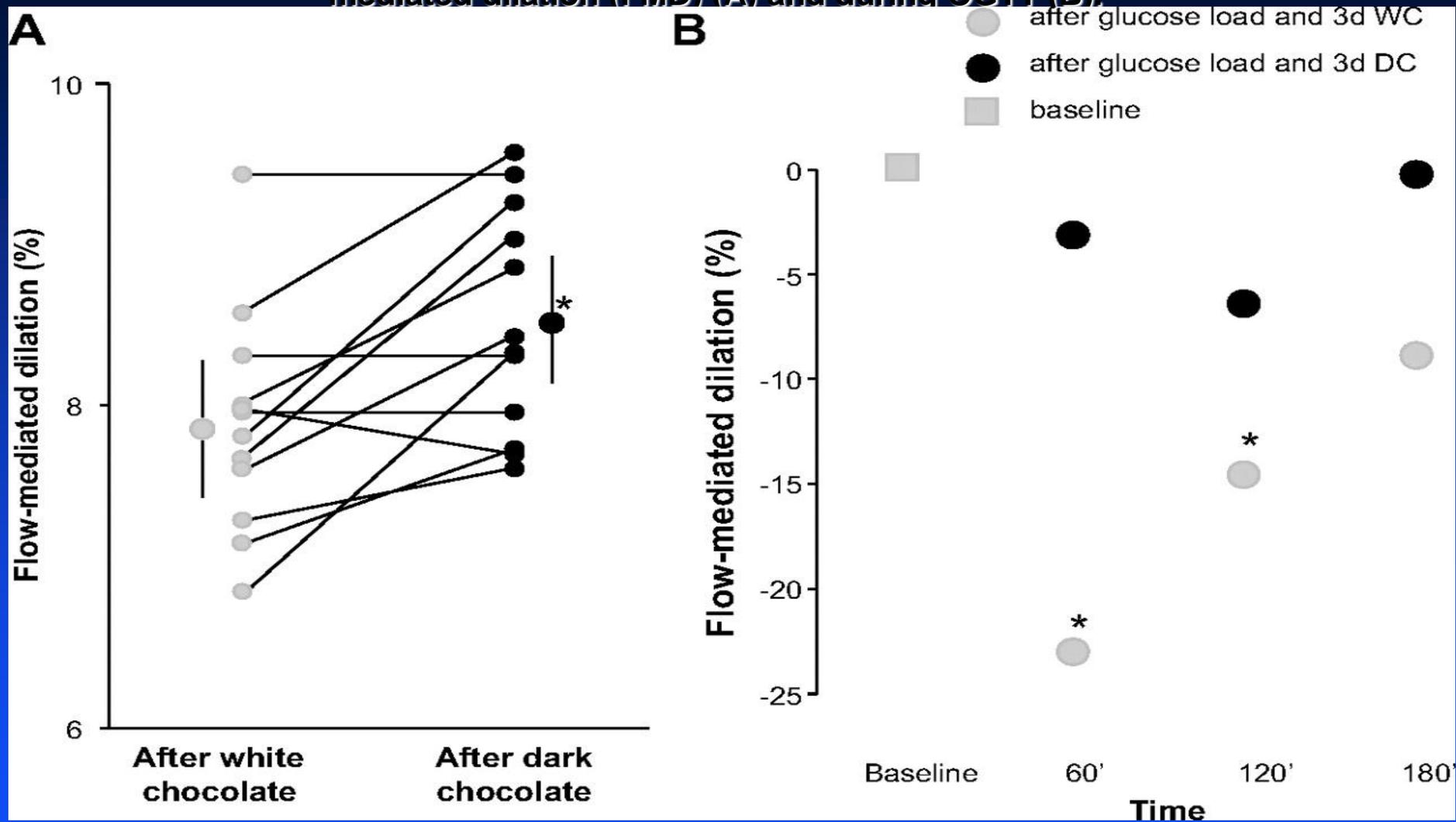


SOD, superoxide dismutase
 ECE, endothelin-converting enzyme

Corti R et al. Circulation 2009;119:1433

“The beneficial effects of cacao are most likely due to an increased bioavailability of NO. This may explain the improvement in endothelial function, the reduction in platelet function, and the potentially beneficial effects on blood pressure, insulin resistance, and blood lipids”.

Effect of 3 days of white chocolate (WC) and dark chocolate (DC) administration on baseline flow-mediated dilation (FMD) (A) and during OGTT (B).



Grassi D et al. Hypertension 2012;60:827-832

Editorial

Is It the Dark in Dark Chocolate?

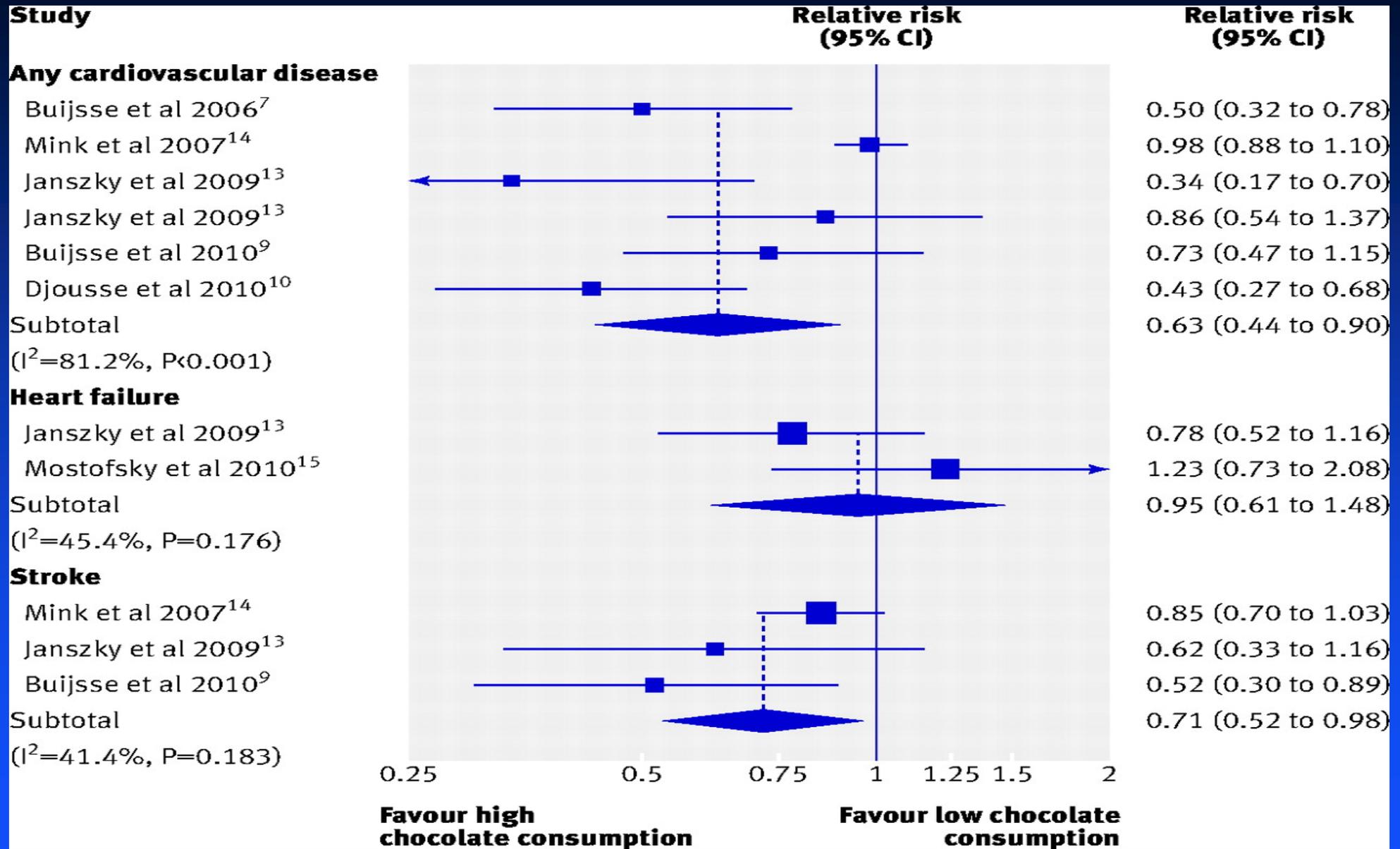
Norman K. Hollenberg, MD, PhD; Naomi D.L. Fisher, MD

When we first entered this scientific area about 10 years ago, we did not fully appreciate the emotional content of discussions involving chocolate. Contacts between medical scientists and the lay press tend to be sporadic. When chocolate is the issue, however, the lay press interest becomes intense and widespread. We have participated in many dozens, probably hundreds, of interviews about our research into the vascular effects of cocoa. Two questions inevitably emerge. The first is, "Is there some way of identifying which chocolate available for purchase is especially good for you?" The second is, "Does this mean that chocolate is a health food?" Reporters have been, almost without exception, rather

One relatively underreported effect of alkalization is, in fact, darkening of cocoa, so that a very dark chocolate might be essentially devoid of flavanols.

If the industry wants us to use chocolate as a health food, then they will have to change their behavior. Specifically, what the world needs is a label on each package that describes the flavanol content of the chocolate. It should be obvious that the percent of cocoa, like the color of chocolate, does not represent a measure of flavanols at all. The medical community should encourage the industry to participate. Probably the most effective mechanism is for the lay press to stop

Relative risks for cardiovascular disease



Conclusions:

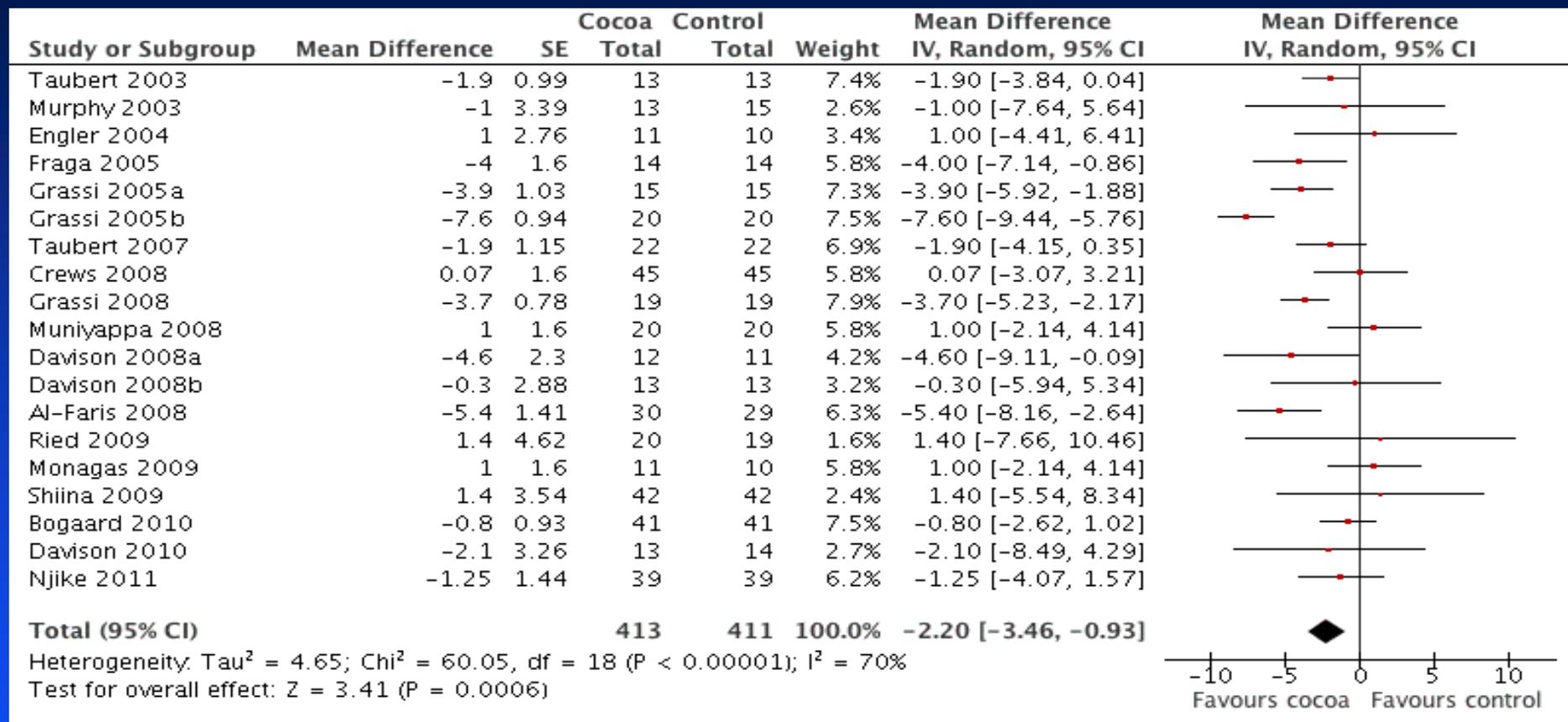
We found that higher levels of chocolate consumption might be associated with a one third reduction in the risk of developing cardiovascular disease. Corroboration is now required from further studies, especially experimental studies to test causation rather than just association.

Effect of cocoa on blood pressure (Review)

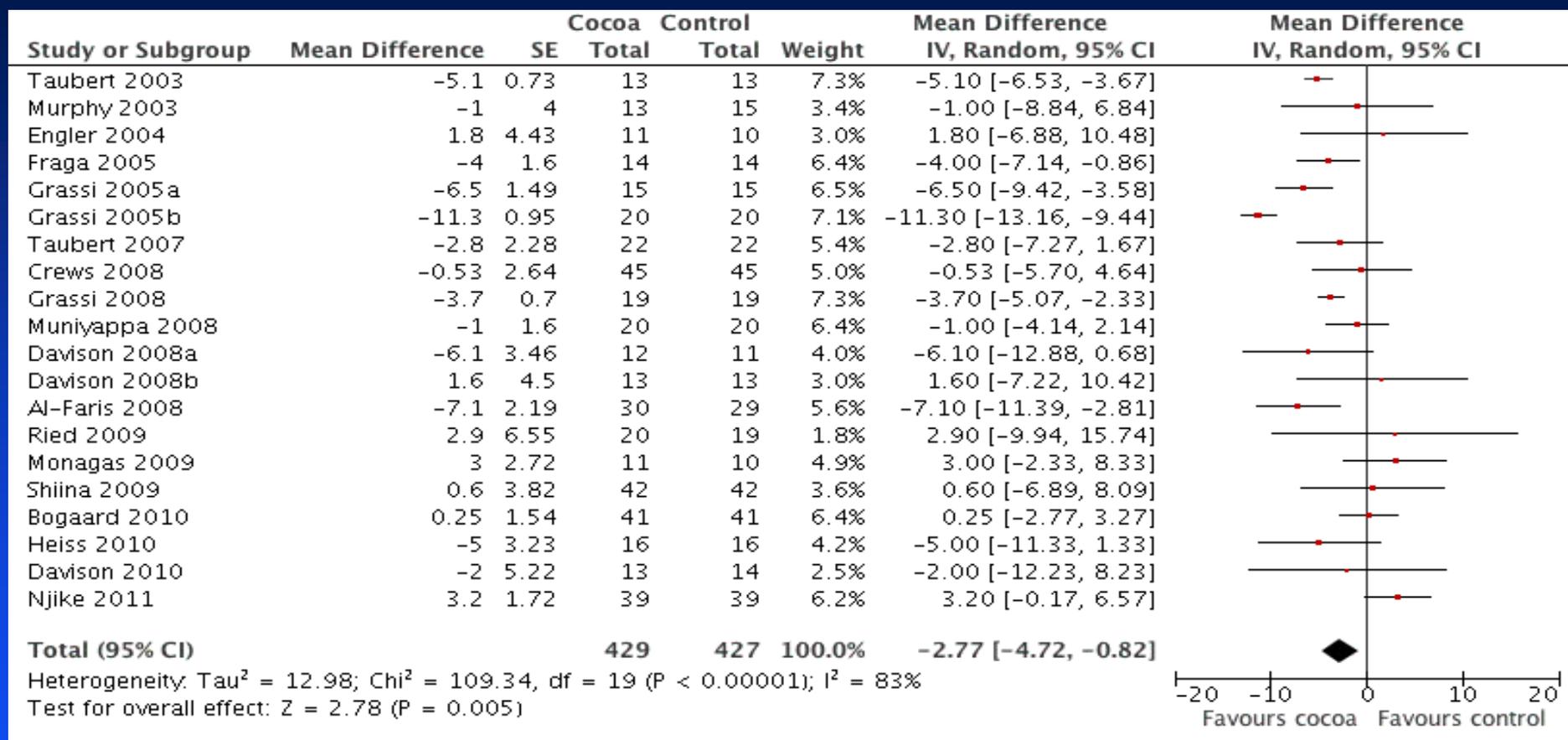
Ried K, Sullivan TR, Fakler P, Frank OR, Stocks NP



**THE COCHRANE
COLLABORATION®**



Ried K, Sullivan TR, Fakler P, Frank OR, Stocks NP.
 Effect of cocoa on blood pressure.
Cochrane Database of Systematic Reviews 2012,



Ried K, Sullivan TR, Fakler P, Frank OR, Stocks NP.
 Effect of cocoa on blood pressure.
 Cochrane Database of Systematic Reviews 2012,

- **Meta-analysis of 20 studies involving 856 mainly healthy participants revealed a small but statistically significant blood pressure reducing effect of **-2.8 mm Hg systolic** and **-2.2 mm Hg diastolic**.**

- **Meta-analysis of 20 studies involving 856 mainly healthy participants revealed a small but statistically significant blood pressure reducing effect of **-2.8 mm Hg systolic** and **-2.2 mm Hg diastolic**.**
- **While a significant effect with trials of two weeks duration (n=9) was evident, it was not with trials of longer duration (n=11).**



**A metaanalysis
is like a
sausage . . .**

**Only God and the butcher
know what goes in it and
neither would ever eat any!**

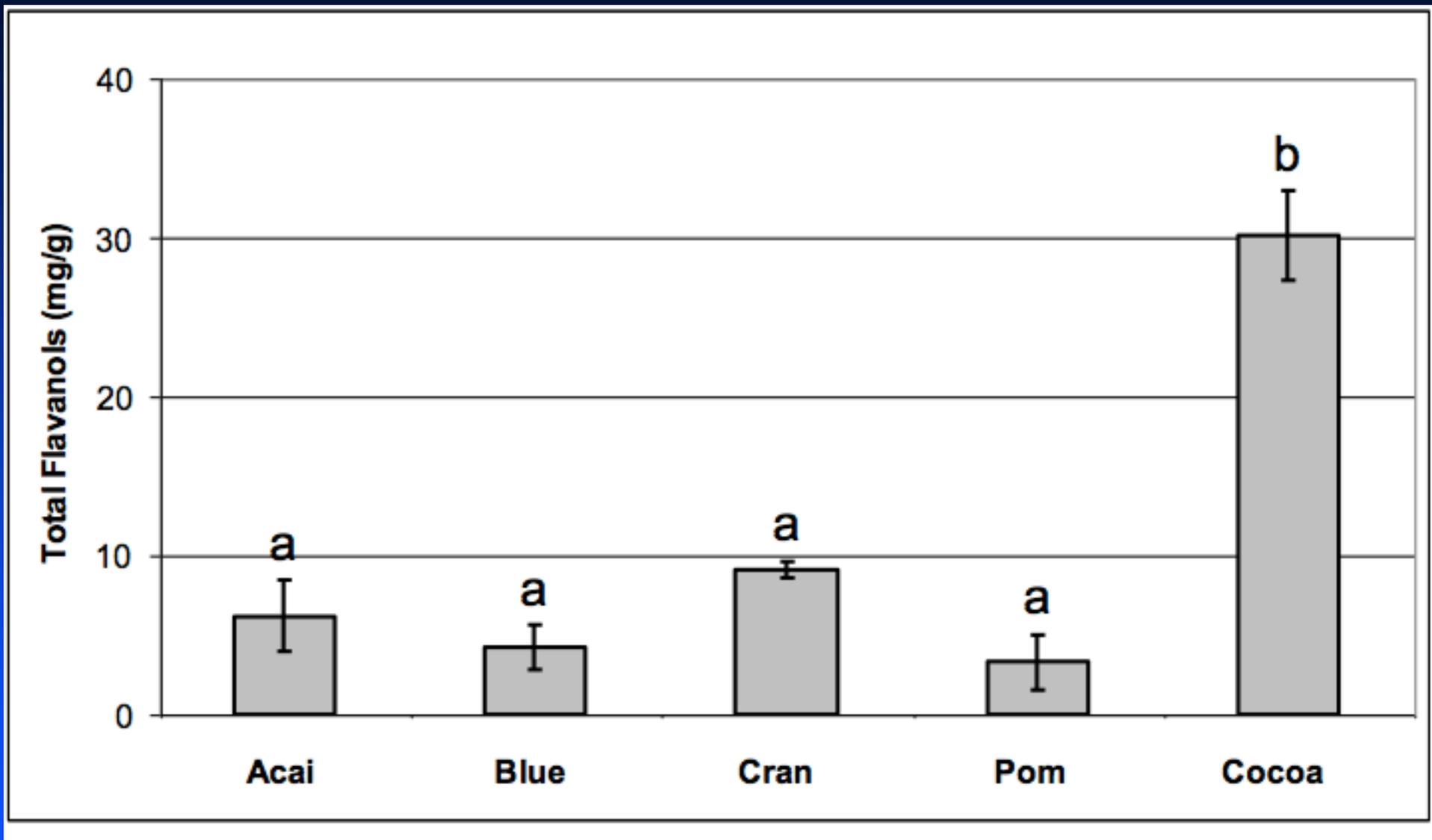
Cacao seeds are a “Super Fruit”: A comparative analysis of various fruit powders and products

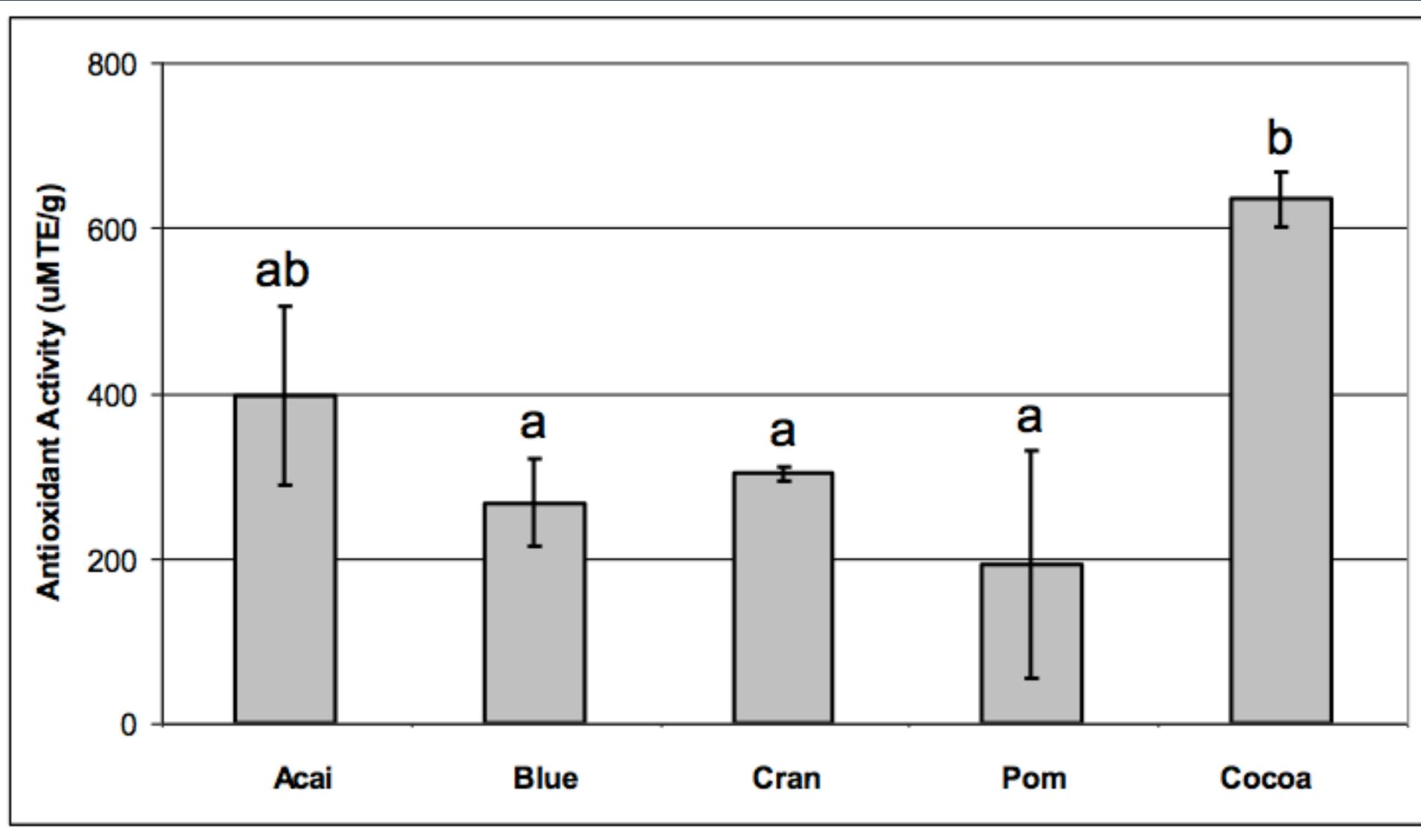
Stephen J Crozier*, Amy G Preston, Jeffrey W Hurst, Mark J Payne, Julie Mann, Larry Hainly, Debra L Miller

Abstract

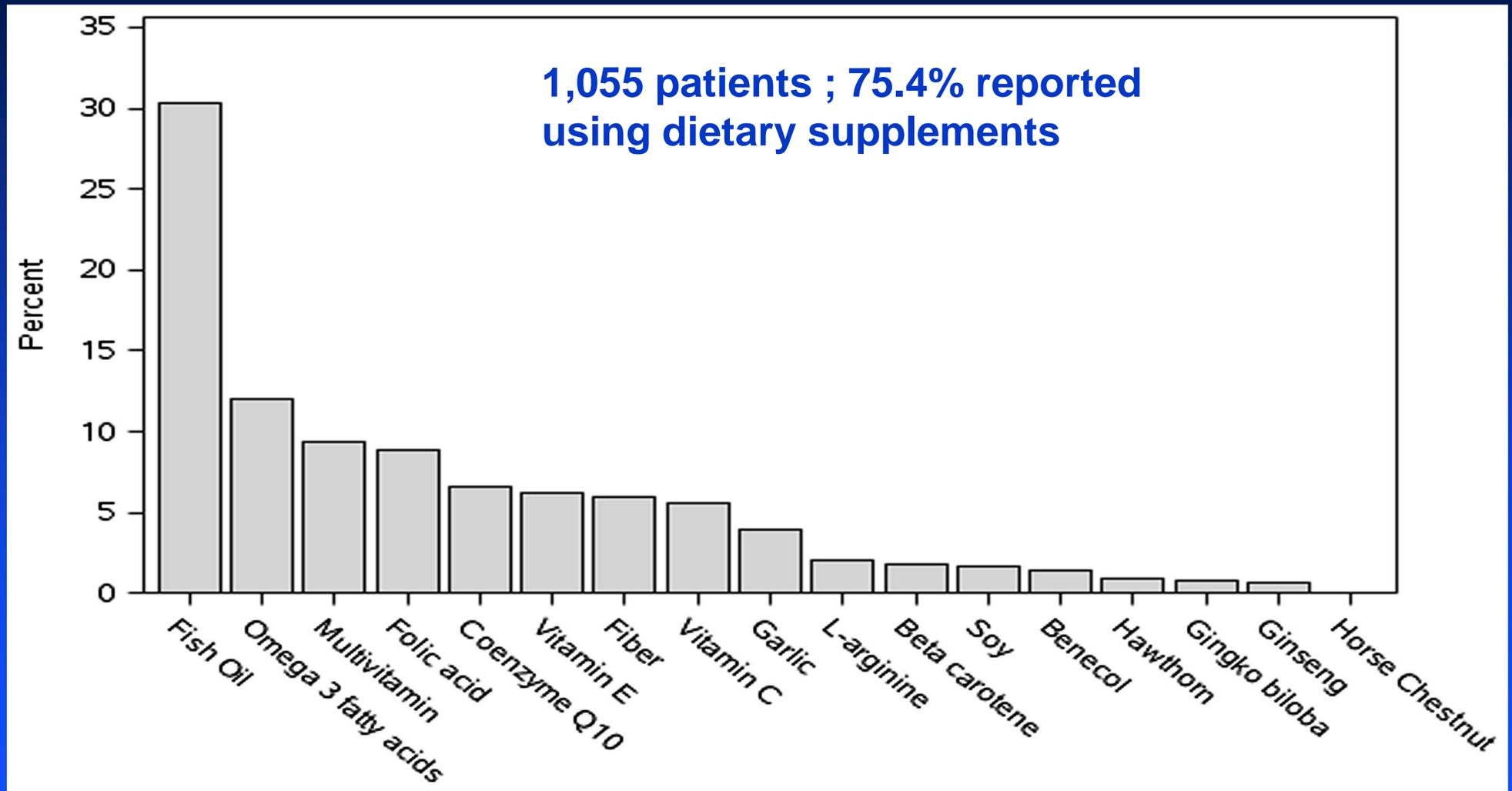
Background: Numerous popular media sources have developed lists of “Super Foods” and, more recently, “Super Fruits”. Such distinctions often are based on the antioxidant capacity and content of naturally occurring compounds such as polyphenols within those whole fruits or juices of the fruit which may be linked to potential health benefits. Cocoa powder and chocolate are made from an extract of the seeds of the fruit of *the Theobroma cacao* tree. In this study, we compared cocoa powder and cocoa products to powders and juices derived from fruits commonly considered “Super Fruits”.

Results: Various fruit powders and retail fruit products were obtained and analyzed for antioxidant capacity (ORAC ($\mu\text{M TE/g}$)), total polyphenol content (TP (mg/g)), and total flavanol content (TF (mg/g)). Among the various powders that were tested, cocoa powder was the most concentrated source of ORAC and TF. Similarly, dark



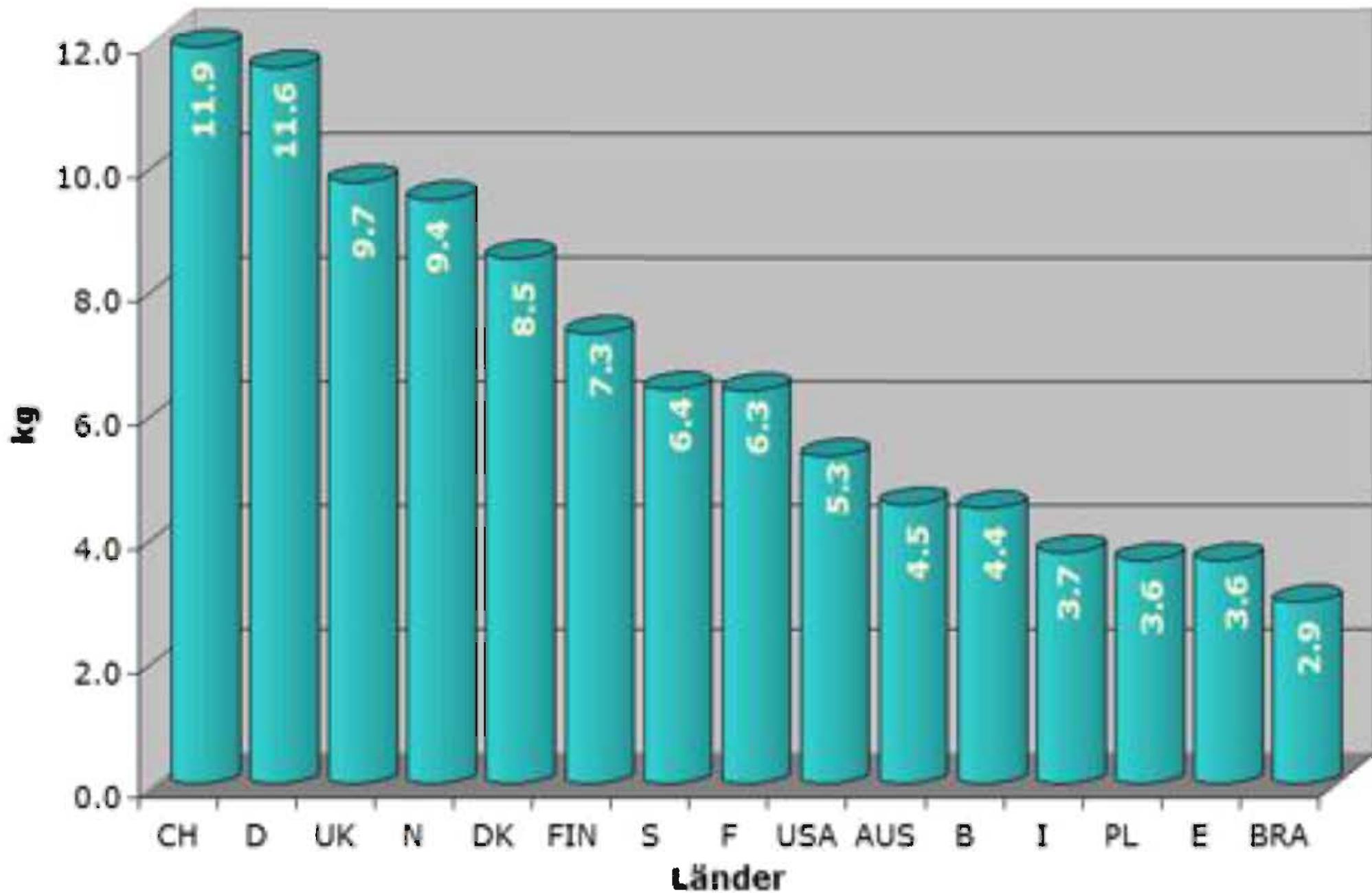


Use of 17 dietary supplements for cardiac symptoms among outpatients attending a cardiology clinic



Hypothesis:

Since chocolate consumption could improve cognitive function not only individually but possibly in the general population, a correlation might be expected between chocolate consumption and cognitive function among various countries..



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Since chocolate consumption could improve cognitive function not only individually but possibly in the general population, a correlation might be expected between chocolate consumption and cognitive function among various countries..

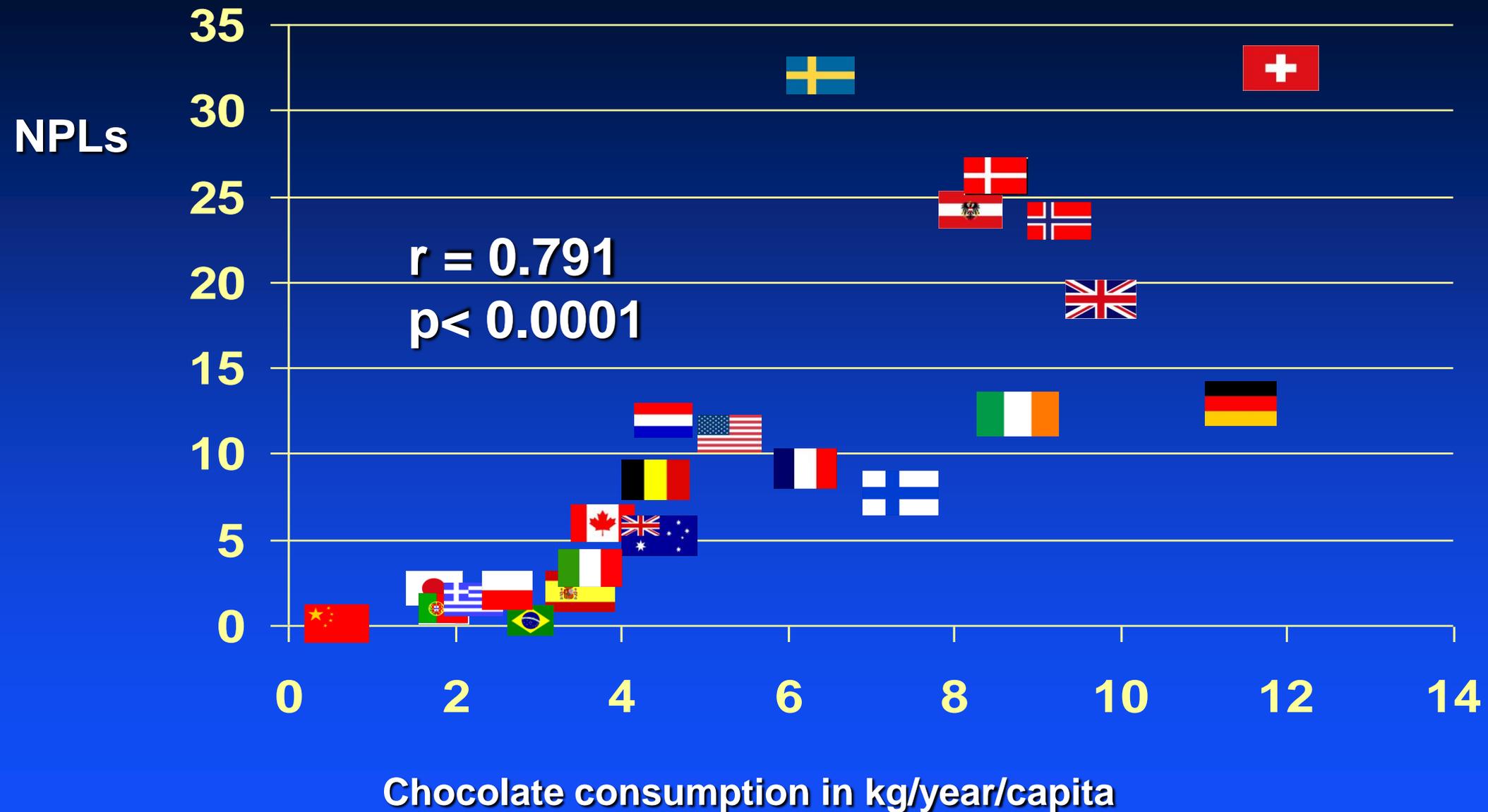
Conceivably the total number of Nobel Prize Laureates (NPLs) per capita could give us some measure of the overall cognitive function of a given country...

Rank ↕	Country ↕	Nobel laureates ^[1] ↕	Population (2011) ^[2] ↕	Laureates/10 million ↕
—	 <i>Faroe Islands</i>	1	49,267	202.976
1	 Saint Lucia	2	161,557	123.795
2	 Luxembourg	2	503,302	39.738
3	 Switzerland	25	7,639,961	32.723
4	 Iceland	1	311,058	32.148
5	 Sweden	29	9,088,728	31.908
6	 Denmark	14	5,529,888	25.317
7	 Austria	20	8,217,280	24.339
8	 Norway	11	4,691,849	23.445
9	 United Kingdom	118	62,698,362	18.820
10	 Timor-Leste	2	1,177,834	16.980
11	 Israel	10	7,473,052	13.381
12	 Ireland	6	4,670,976	12.845
13	 Germany	103	81,471,834	12.642
14	 Netherlands	19	16,653,734	11.409
15	 United States	332	311,050,977	9.369
16	 Hungary	9	9,976,062	9.022
17	 Cyprus	1	1,120,489	8.925

Chocolate and the Nobel Prize



Chocolate and the Nobel Prize



Now what ?

- **editorial@nejm.org**
via manuscriptcentral.com
- **Sep 19. 2012**
- **Dear Dr. Messerli,**

Thank you for submitting your article on chocolate consumption, cognitive function, and Nobel laureates to the Journal. We greatly enjoyed it and would like to publish it as an Occasional Note -- in fact, our hope is to publish it in early October, to coincide with the announcements of this year's Nobel Prizes...

EMBARGOED until October 10, 2012, at 10.00 AM

OCCASIONAL NOTES

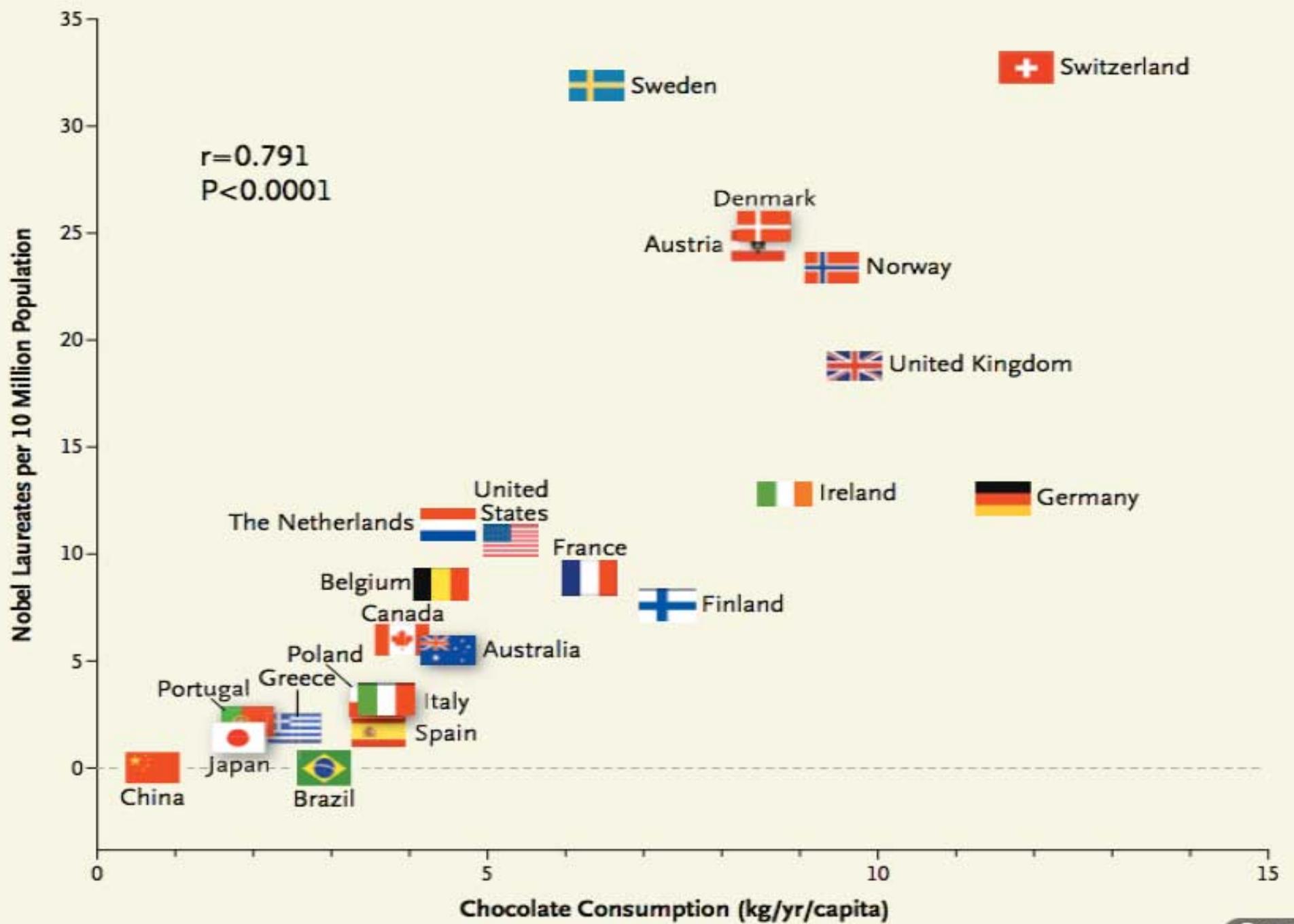
Chocolate Consumption, Cognitive Function, and Nobel Laureates

Franz H. Messerli, M.D.

Dietary flavonoids, abundant in plant-based foods, have been shown to improve cognitive function. Specifically, a reduction in the risk of dementia, enhanced performance on some cognitive tests, and improved cognitive function in elderly patients with mild impairment have been associated with a regular intake of flavonoids.^{1,2} A subclass of flavonoids called flavanols, which are widely present in cocoa, green tea, red wine, and some

Thus, the numbers must be read as the number of Nobel laureates for every 10 million persons in a given country.

All Nobel Prizes that were awarded through October 10, 2011, were included. Data on per capita yearly chocolate consumption in 22 countries was obtained from Chocosuisse (http://www.chocosuisse.ch/web/chocosuisse/en/instruction_material.html),^{Q1} Theobroma-cacao^{Q2} ([October 10, 2012](http://</p></div><div data-bbox=)



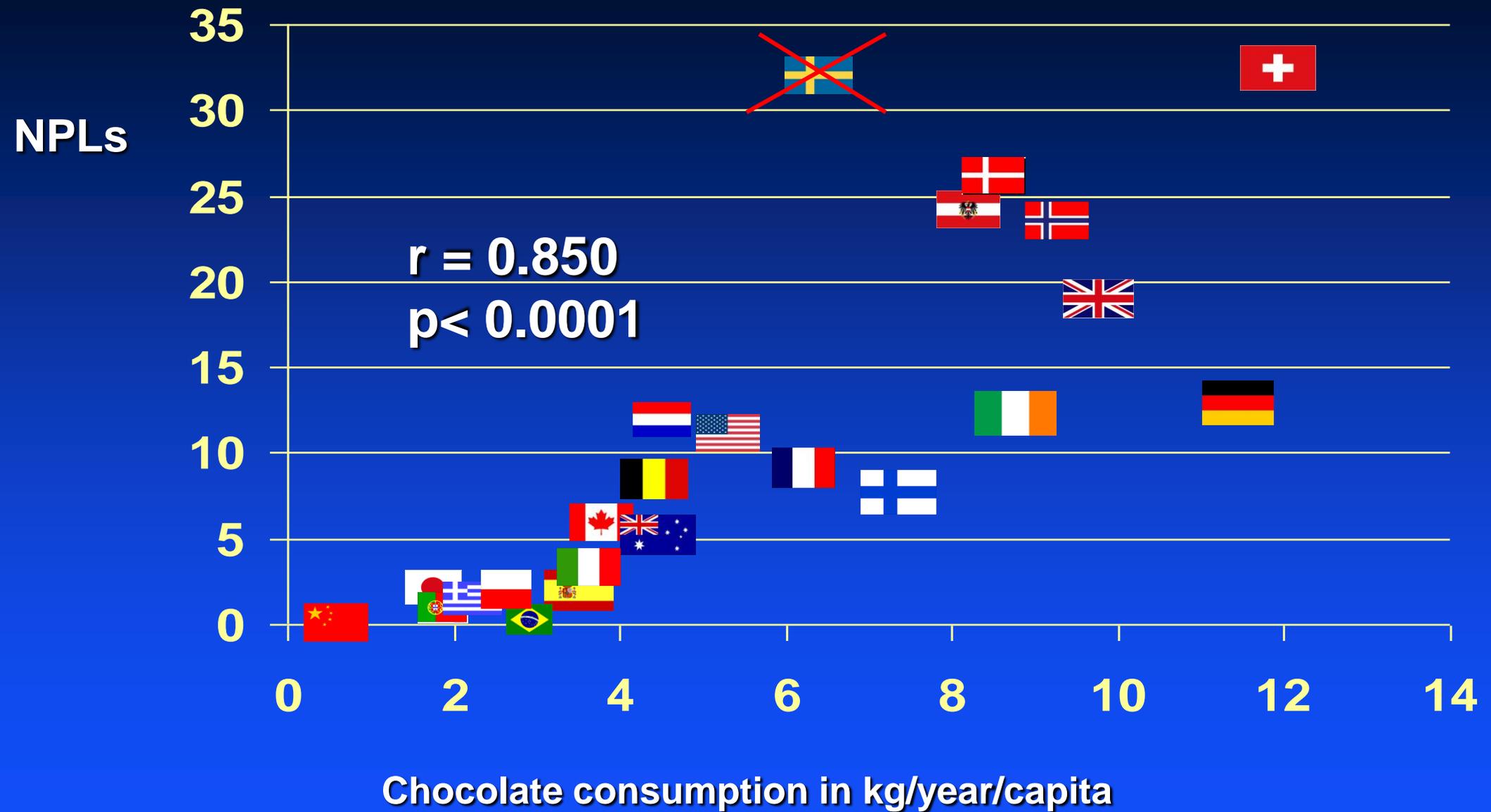
“With a per capita chocolate consumption of 6.4 kg/year Sweden should have produced a total of about 14 NPLs, yet we observe 32.

▪

“With a per capita chocolate consumption of 6.4 kg/year Sweden should have produced a total of about 14 NPLs, yet we observe 32.

The observed exceeds the expected more than twofold, meaning that either the Nobel Committee in Stockholm has some inherent patriotic bias...or, perhaps, that the Swedes are particularly sensitive to chocolate and even minuscule amounts greatly enhance their cognition”.

Chocolate and the Nobel Prize





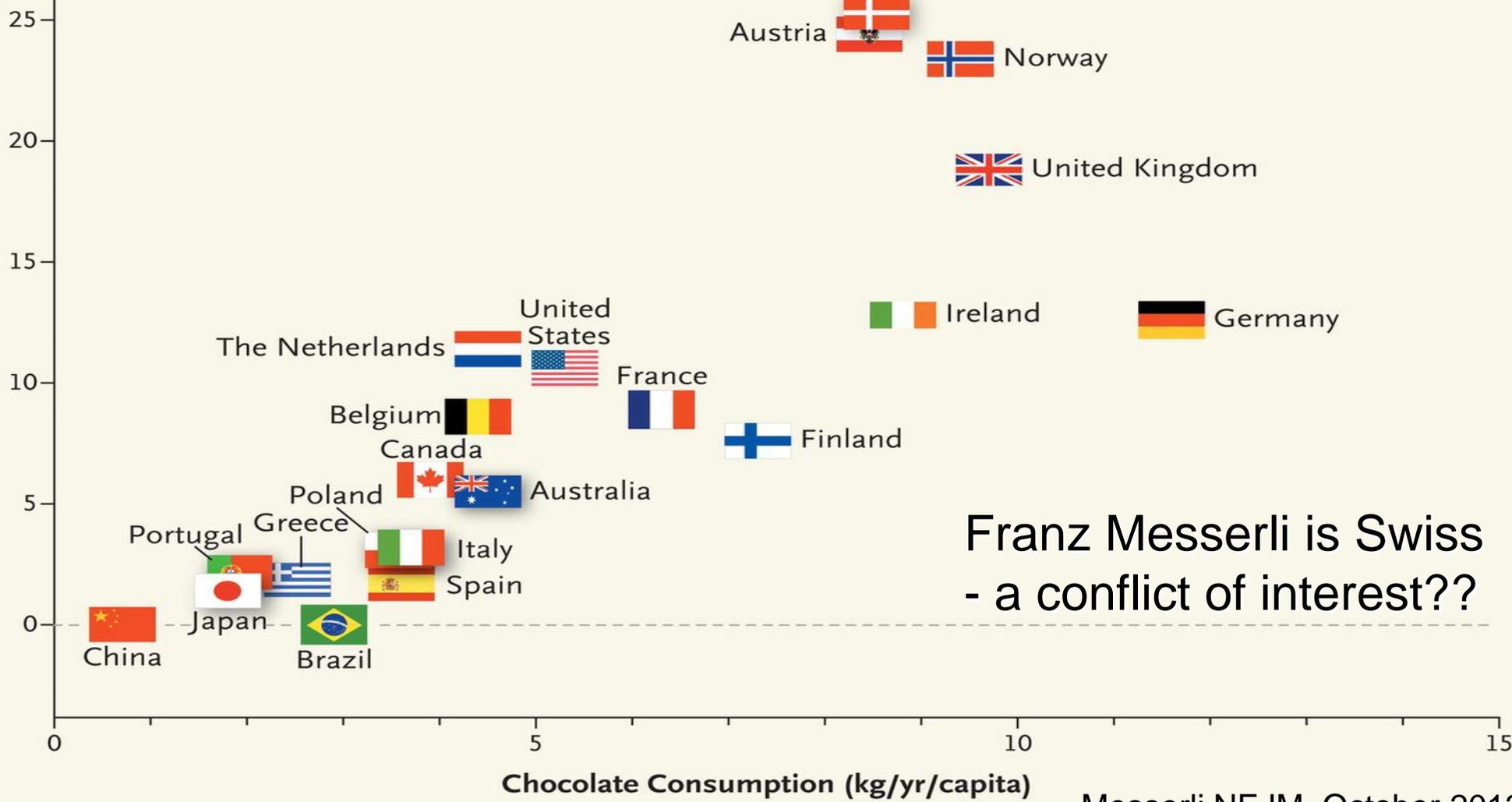
EAT CHOCOLATE TO GET YOUR NOBEL PRIZE!

 Sweden  Switzerland

?? ESPECIALLY SWISS CHOCS

$r=0.791$
 $P<0.0001$

Nobel Laureates per 10 Million Population



Franz Messerli is Swiss
- a conflict of interest??



Rolf Zinkernagel, MD received the 1996 Nobel Prize in Medicine for the discovery of how the immune system recognizes virus-infected cells. With this he became the 24th Swiss Nobel laureate

Dear Franz,

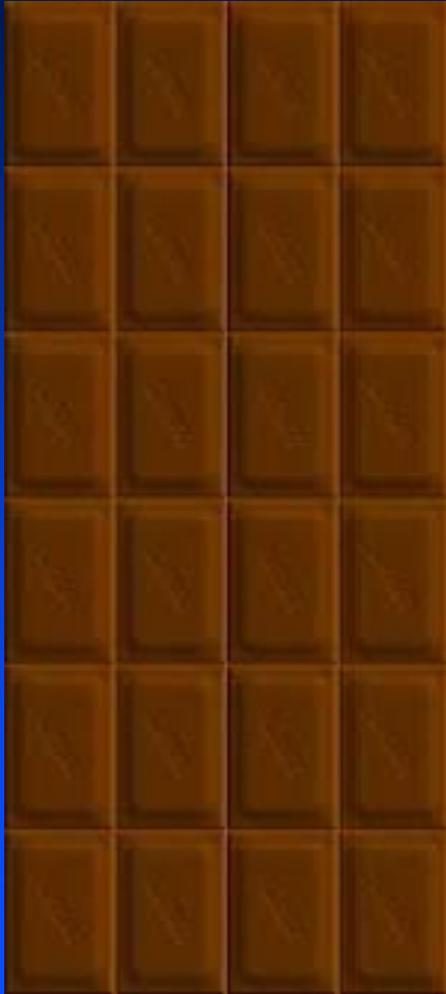
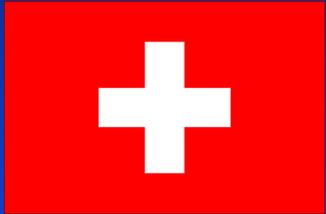
**I seem to be your outlier because
my yearly consumption is less than
500 g - Sorry!**

**I shall let you know when I am in
NYC next time.**

All the best

Rolf

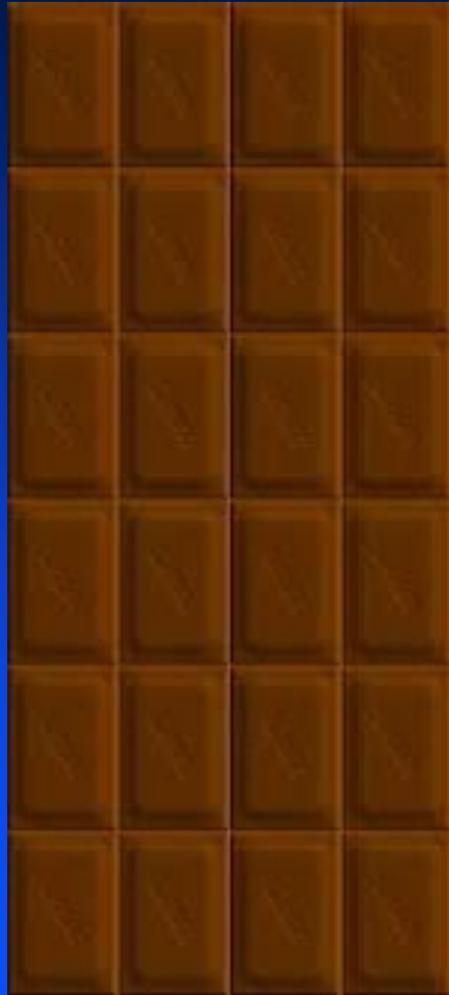
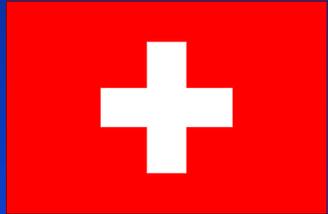
Chocolate Consumption



Switzerland

11.9 kg or 119 bars/year

Chocolate Consumption



Switzerland
11.9 kg or 119 bars/year



Professor Zinkernagel
< 500 g or 5 bars/year



Eric Cornell

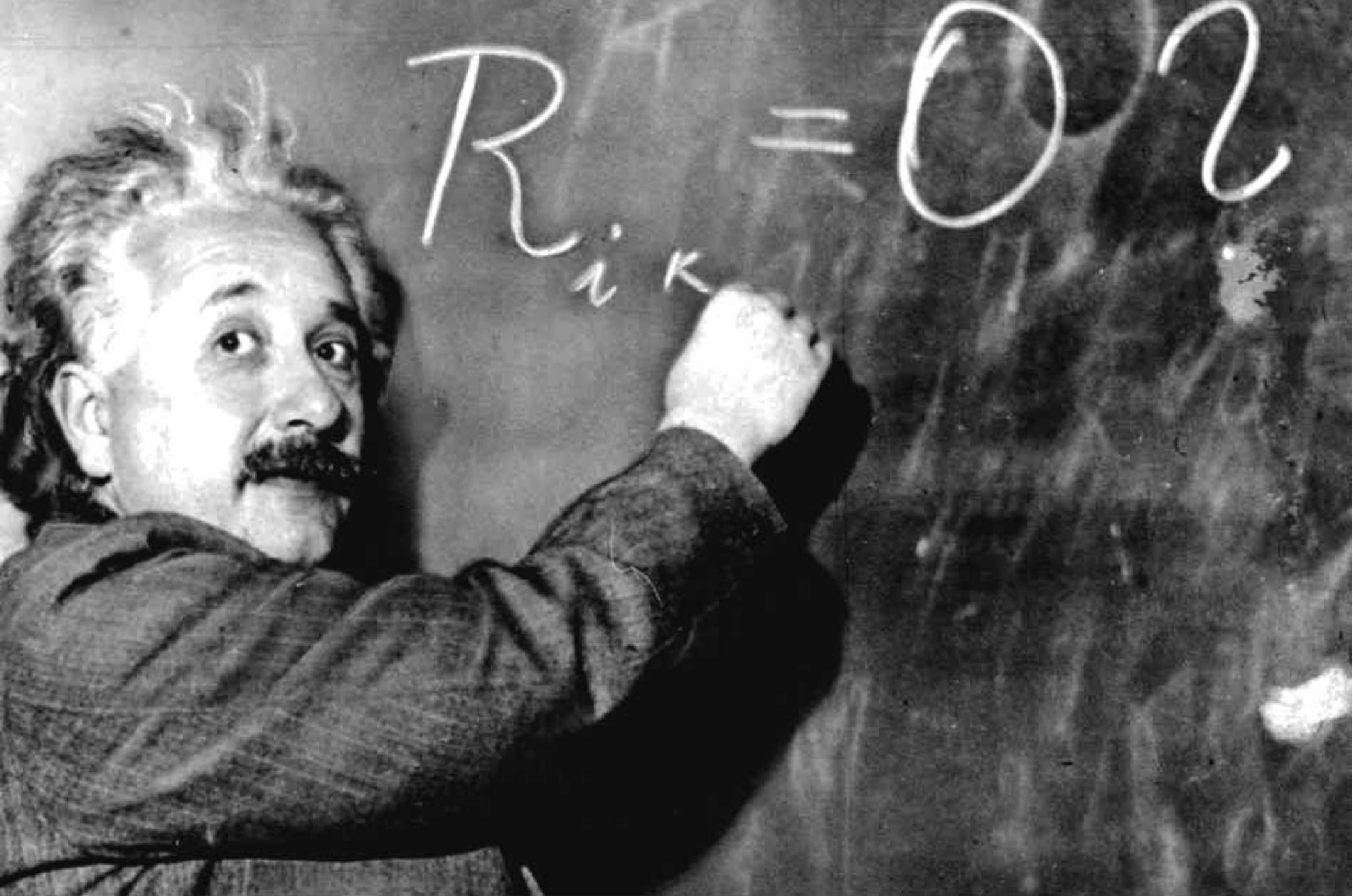
For synthesizing the first Bose–Einstein condensate in 1995, Cornell, Wieman, and Ketterle shared the Nobel Prize in Physics in 2001



"I attribute essentially all my success to the very large amount of chocolate that I consume. Personally I feel that milk chocolate makes you stupid. Now dark chocolate is the way to go. It's one thing if you want like a medicine or chemistry Nobel Prize, but if you want a physics Nobel Prize it pretty much has got to be dark chocolate.

**Eric Cornell, American physicist,
Nobel Laureate in 2001 interviewed
by Frederic Joelsing, Reuters.
October 05.2012**





$$R_{ik} = 0$$

Einstein's Swiss Passport

Page quadruple. Ce livret est de 32 pages.

Signalement. — Connotati.

Age: *34* 14. May 1879

Place of birth: *in Ital*

Complexion: *schwarz, mittel*

Build: *hoch*

Hair: *schwarz*

Eyes: *blau*

Complexion: *normal*

Build: *mittel*

Other: *etc*

Signature of holder: *A. Einstein*

Signature of issuer: *[Signature]*

Portrait



Official Stamps:

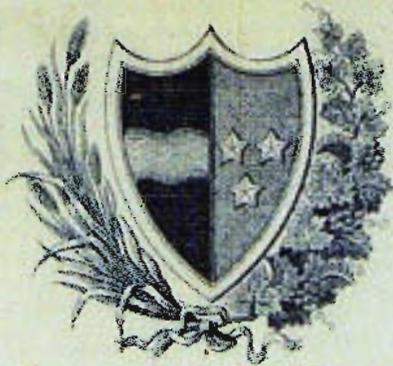
- Swiss Consulate, Bern
- Swiss Consulate, London

Text:

Es wird bescheinigt, dass *Albert Einstein* im Jahre *1912* in *Bern*, im *12. Januar 1912* bei Schweizerischen Konsulat

[Signature]

Vierte Seite. Pagina quarta.
Questo libretto consta di 32 pagine.
Quarta Seite. Pagina quarta.



Der Erziehungsrat

des

Kantons Aargau

urkundet hiemit:

Herr Albert Einstein von Blm,

geboren den 14. März 1879,

besuchte die aargauische Kantonsschule & zwar die III. & IV. Klasse
der Gewerbeschule.

Nach abgelegter schriftl. & mündl. Naturitatprufung am 18., 19. & 21.

September, sowie am 30. September 1896, erhielt derselbe folgende Noten:



Der Erziehungsrat des Kantons Aargau

urkundet hiemit:

Herr Albert Einstein von Salim,

geboren den 14. März 1879,

besuchte die aargauische Kantonschule & zwar die III. & IV. Klasse
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Nach abgelegter schriftl. & mündl. Naturalprüfung am 18., 19. & 21.

September, sowie am 30. September 1896, erhielt derselbe folgende Noten:

1. Deutsche Sprache und Literatur	5
2. Französische	5
3. Englische	—
4. Italienische	5
5. Geschichte	6
6. Geographie	4
7. Algebra	6
8. Geometrie	6
9. Darstellende Geometrie	6
10. Physik	6
11. Chemie	5
12. Naturgeschichte	5
13. Im Kunstzeichnen	4
14. Im technischen Zeichnen	4

Es gelten die Bestimmungen
Gesetzl. hierauf und demselben das Zeugnis der Reife erteilt.

Aarau den 3^{ten} Oktober 1896.

Im Namen des Erziehungsrates.

Der Präsident:

H. Häppli

Der Sekretar:

J. Kraml



U. a. ung.

Dolet.

U. a. ung.

Dolet.

U. a. ung.

Dolet.

U. a. ung.

Dolet.

Albert Einstein Sworn in as US citizen in 1940



Einstein's Citizenships

- **Württemberg/Germany (1879–1896)**
- **Stateless (1896–1901)**
- **Switzerland (1901–1955)**
- **Austria (1911–1912)**
- **Germany (1914–1933)**
- **United States (1940–1955)**

Einstein's Citizenships

- Württemberg/Germany (1879–1896)
- Stateless (**1896**–1901)
- Switzerland (1901–**1955**)
- Austria (1911–1912)
- Germany (1914–1933)
- United States (1940–1955)

Potential Exposure to Swiss Chocolate

OCCASIONAL PAPER

The cerebral cortex of Albert Einstein: a description and preliminary analysis of unpublished photographs

Dean Falk,^{1,2} Frederick E. Lepore^{3,4} and Adrienne Noe⁵

1 Department of Anthropology, Florida State University, Tallahassee, FL 32306-7772, USA

2 School for Advanced Research, Santa Fe, NM 87505, USA

3 Department of Neurology, Robert Wood Johnson Medical School, Piscataway, NJ 08854, USA

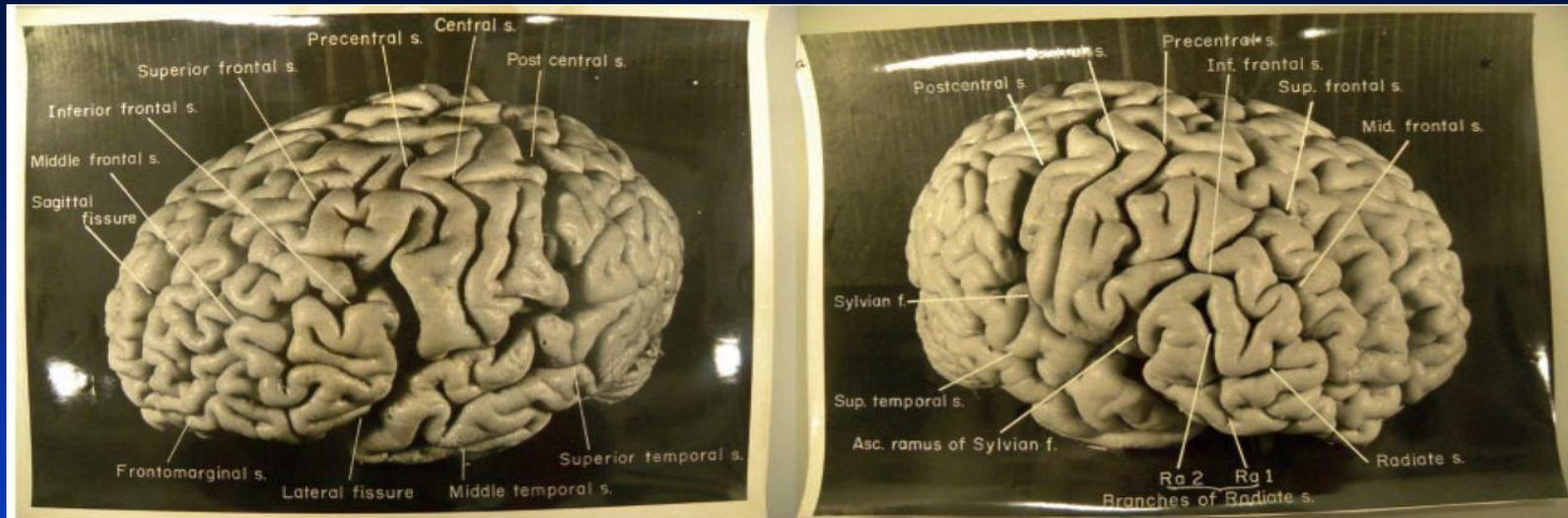
4 Department of Ophthalmology, Robert Wood Johnson Medical School, Piscataway, NJ 08854, USA

5 National Museum of Health and Medicine, Silver Spring, MD 20910, USA

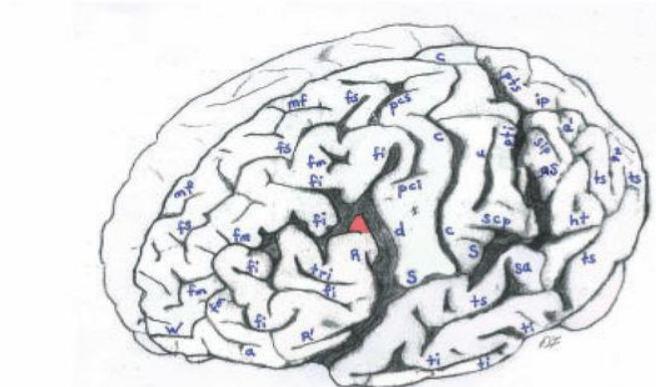
Correspondence to: Dean Falk,
School for Advanced Research,
660 Garcia Street,
Santa Fe, NM 87505, USA
E-mail: dfalk@fsu.edu or falk@sarsf.org

Upon his death in 1955, Albert Einstein's brain was removed, fixed and photographed from multiple angles. It was then sectioned into 240 blocks, and histological slides were prepared. At the time, a roadmap was drawn that illustrates the location within the brain of each block and its associated slides. Here we describe the external gross neuroanatomy of Einstein's entire cerebral cortex from 14 recently discovered photographs, most of which were taken from unconventional angles. Two of the photographs reveal sulcal patterns of the medial surfaces of the hemispheres, and another shows the neuroanatomy of the right (exposed) insula. Most of Einstein's sulci are identified, and sulcal patterns in various parts of the brain are compared with those of 85 human brains that have been described in the literature. To the extent currently possible, unusual features of Einstein's

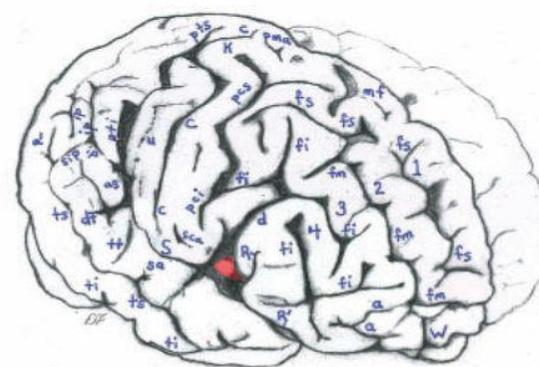
Top: Photographs of the left (L) and right (R) lateral surfaces of Einstein's brain taken with the front of the brain rotated toward the viewer, with original labels.



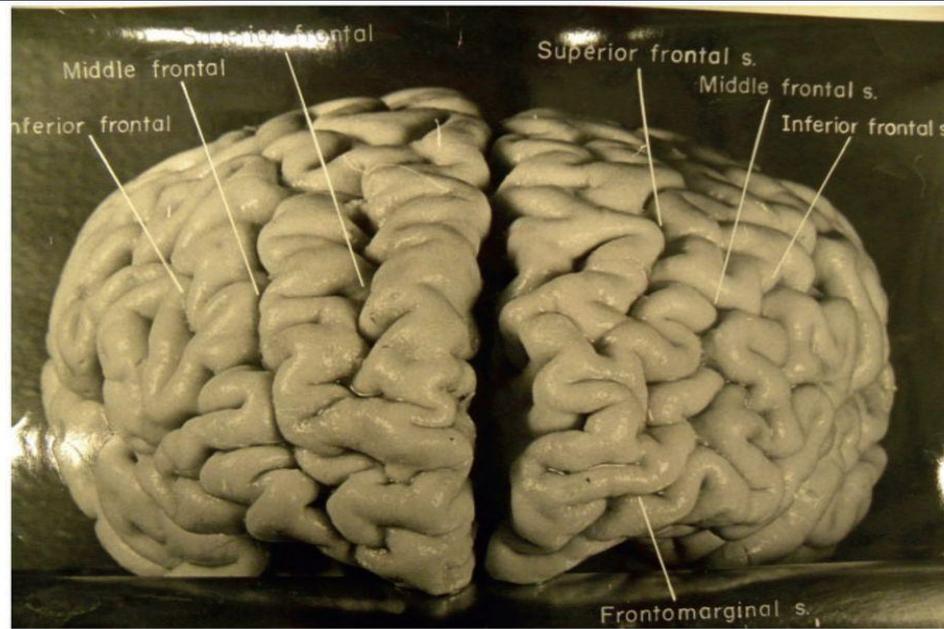
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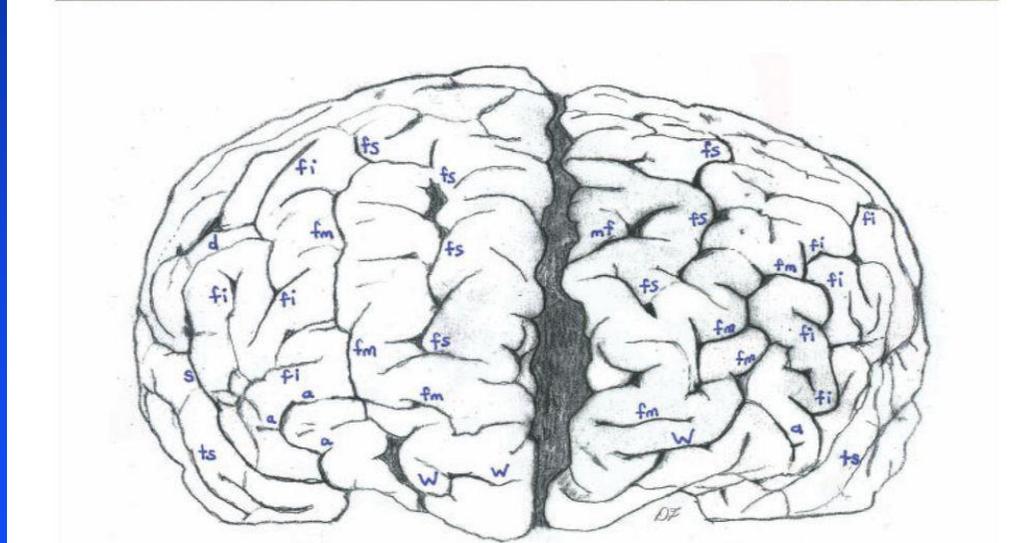
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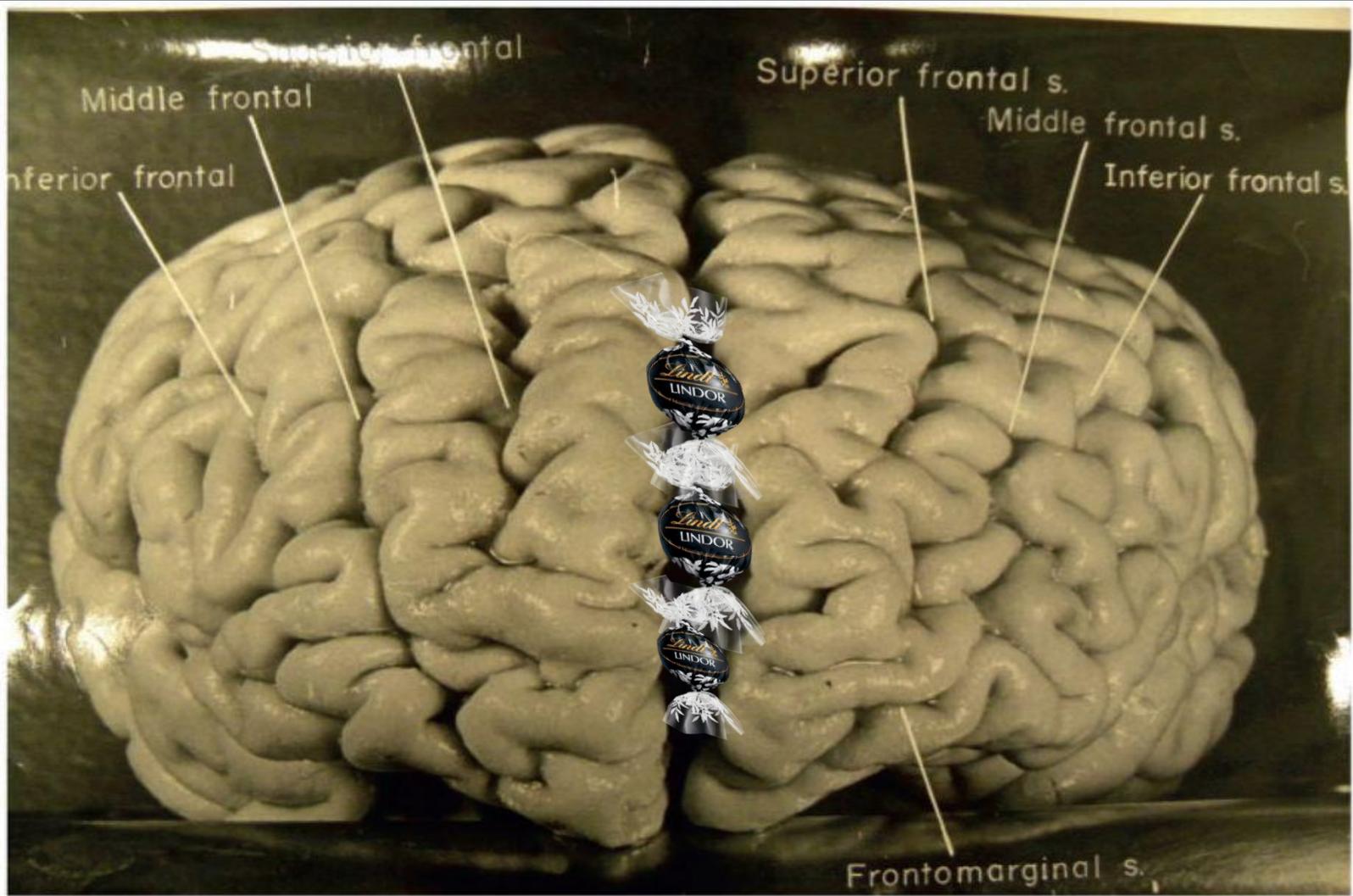
Top: Photograph of a fr



orientation, with original

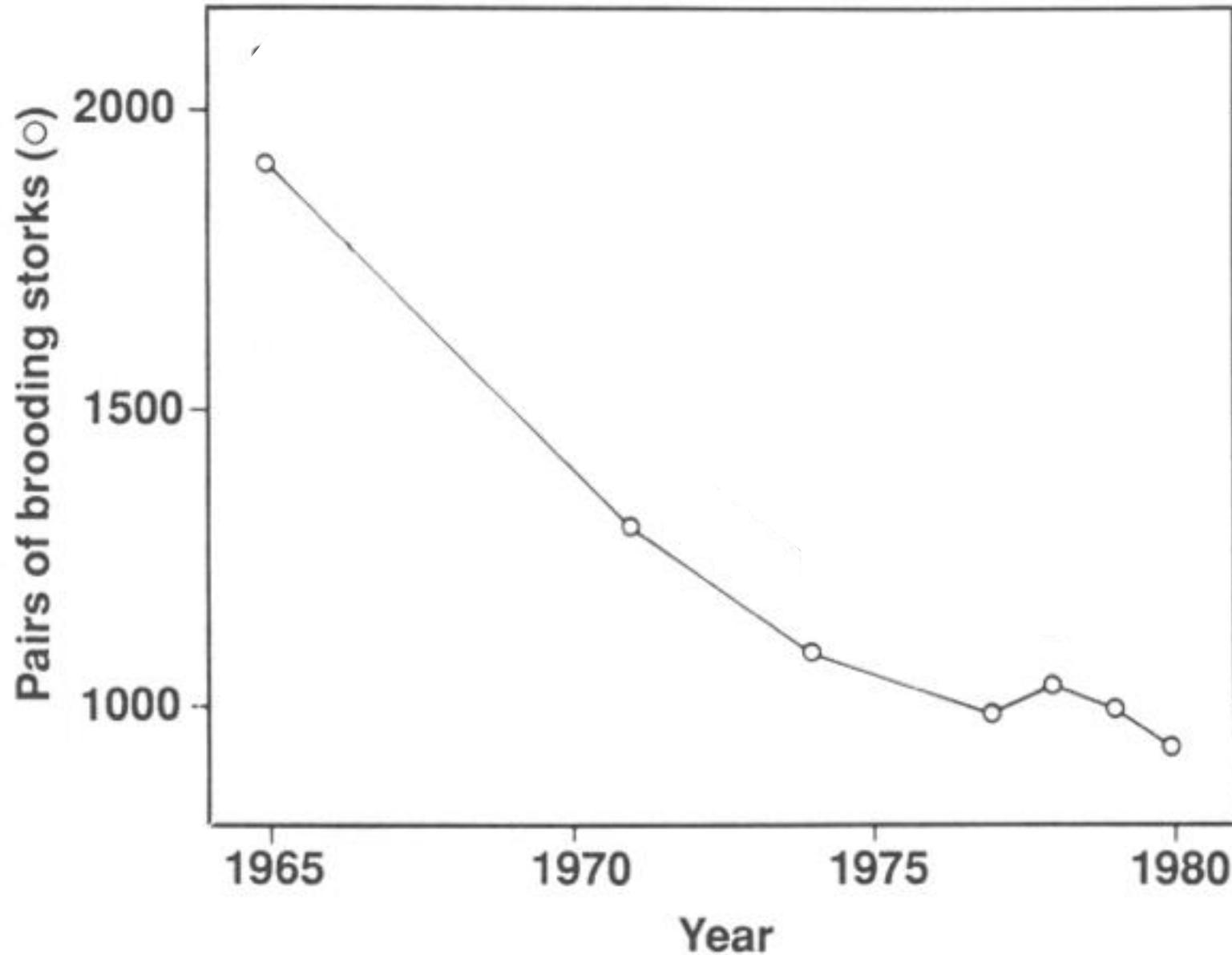


“Einstein’s brain has an extraordinary prefrontal cortex, which may have contributed to the neurological substrates for some of his remarkable cognitive abilities”.



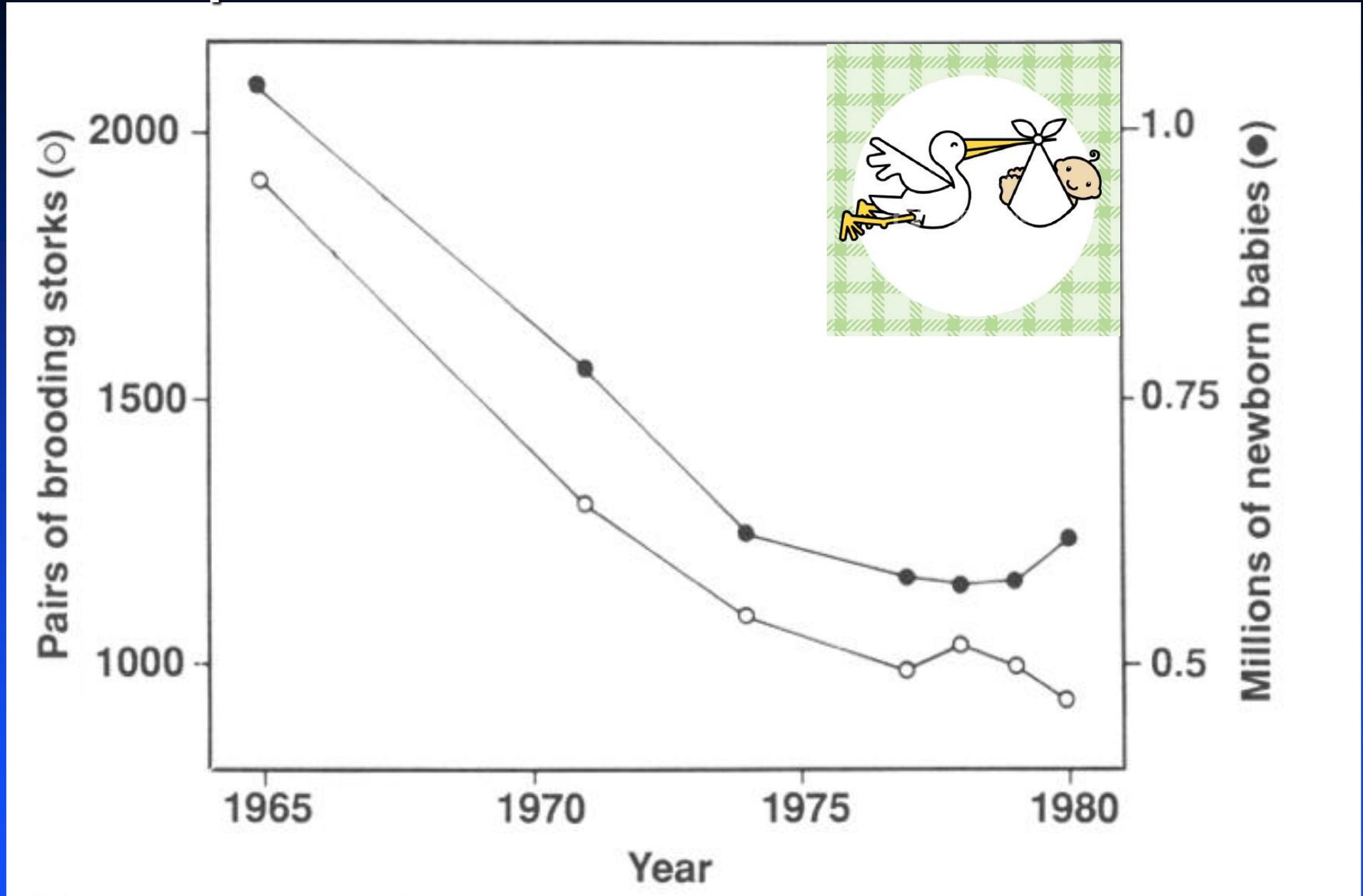
$p < 0.0001$

Stork Population in Germany



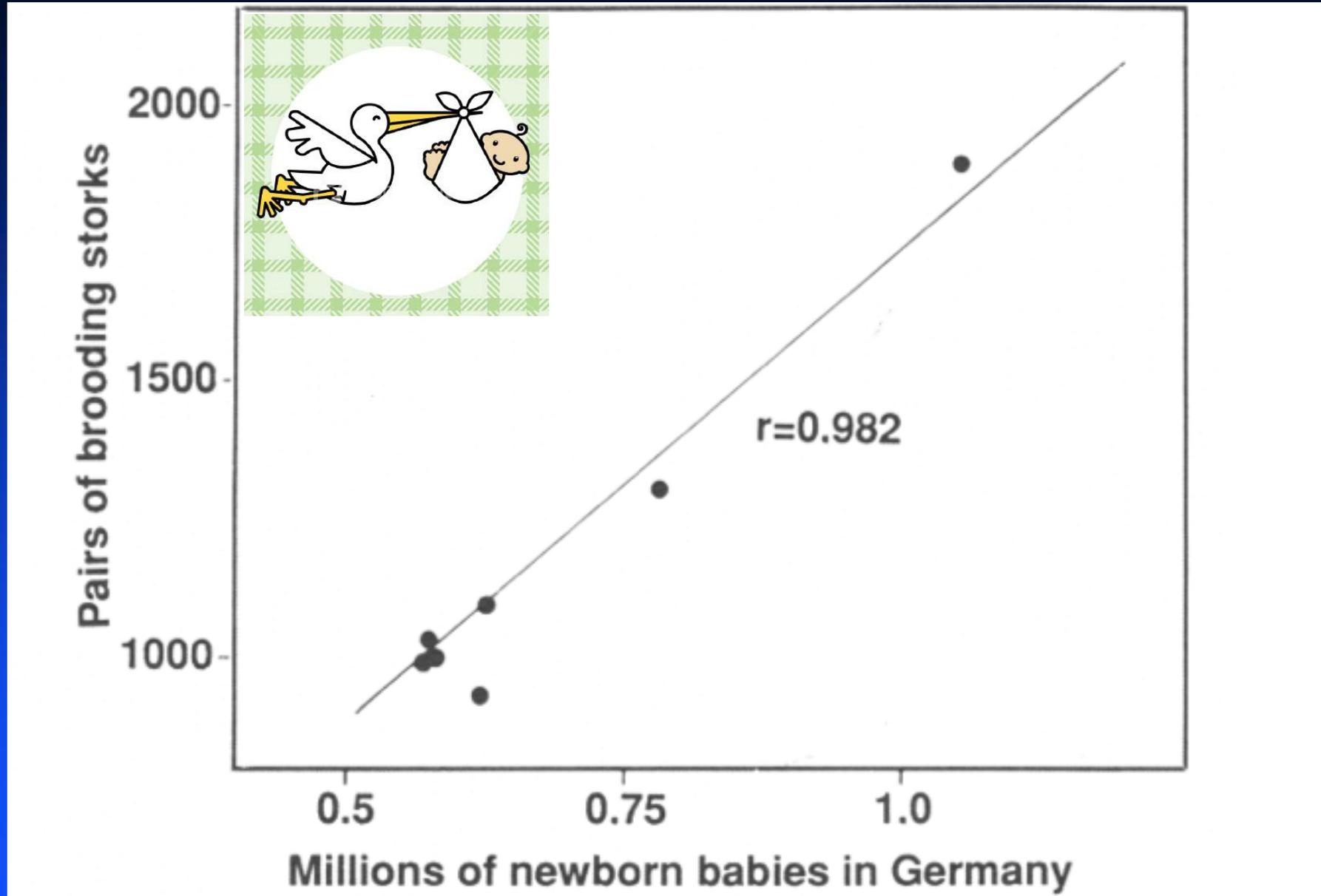
Sies, H. Nature 1988, 332, 495

Stork Population and Newborn Babies in Germany



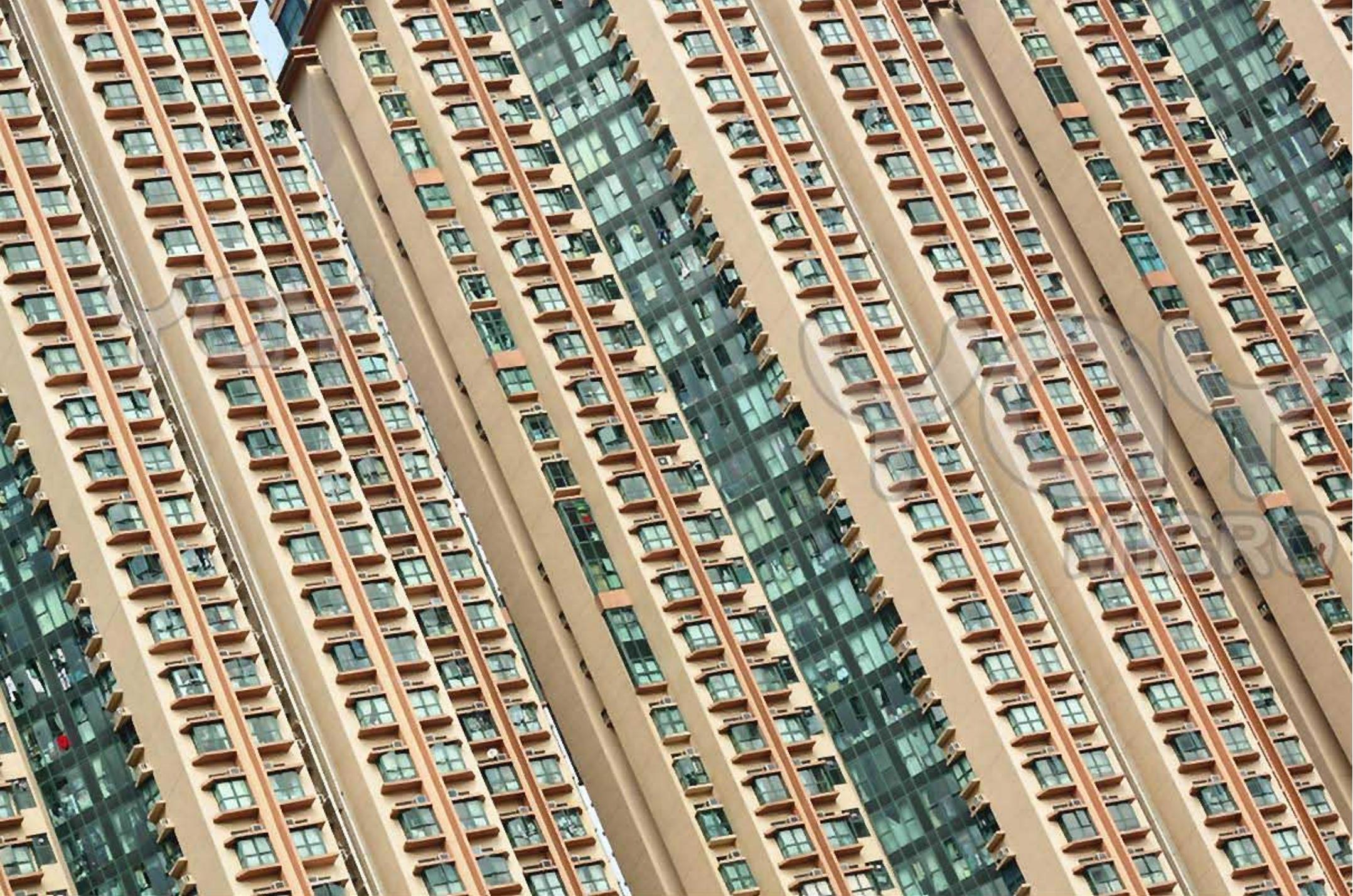
Sies, H. Nature 1988, 332, 495

Stork Population and Newborn Babies in Germany



Sies, H. Nature 1988, 332, 495

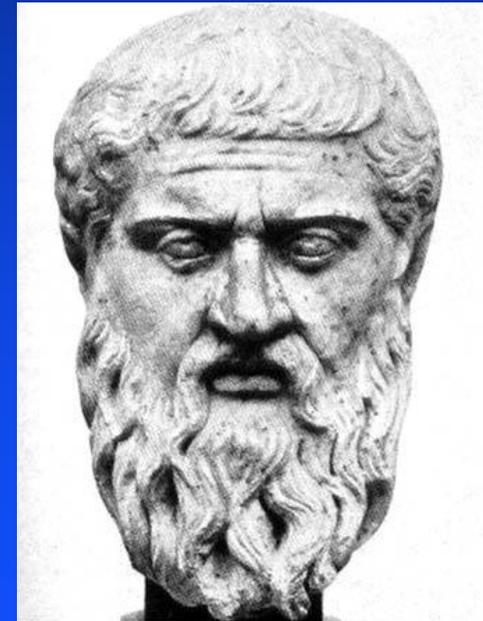






Mortality and Trials with Greek Acronyms

We reviewed the main cardiovascular clinical trials published from 2000 to 2011 in Medline and other databases. After extensive review, we selected trials with at least 1000 person-years and which reported total mortality as an outcome event.

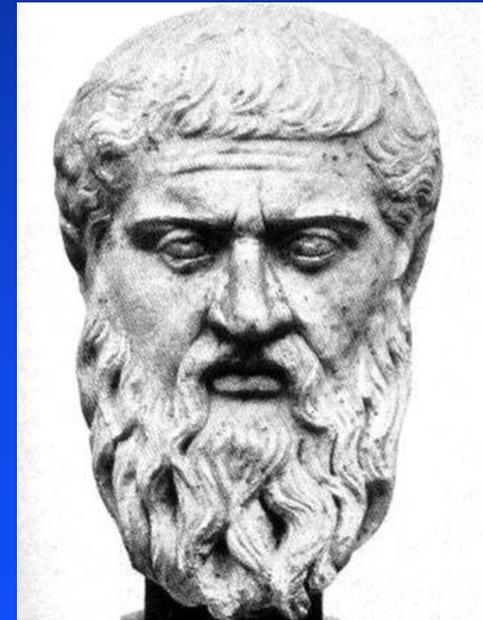


We found 149 trials that met our selection criteria (webappendix), 19 of which showed a significant reduction in total mortality:

**ARISTOTLE, PLATO, ADVANCE-BP,
CARE-HF, COMET, COMMIT-clopidogrel,
COPERNICUS, CREATE-ECLA-Reviparin,
EMPHASIS, EPHEBUS, GISSI-HF-PUFA, HOPE,
HPS-simvastatin, JUPITER, MADIT-2, OASIS-6,
RAFT, SCD-Heft- ICD, and TAPAS.**

Mortality and Trials with Greek Acronyms

Overall, 100% of Greek philosopher trials showed a significant reduction in all-cause mortality, compared with 17 (12%) of 147 trials with any other kind of acronym ($p=0.016$, Fisher's exact test).





Cat to Human population : Sheet1

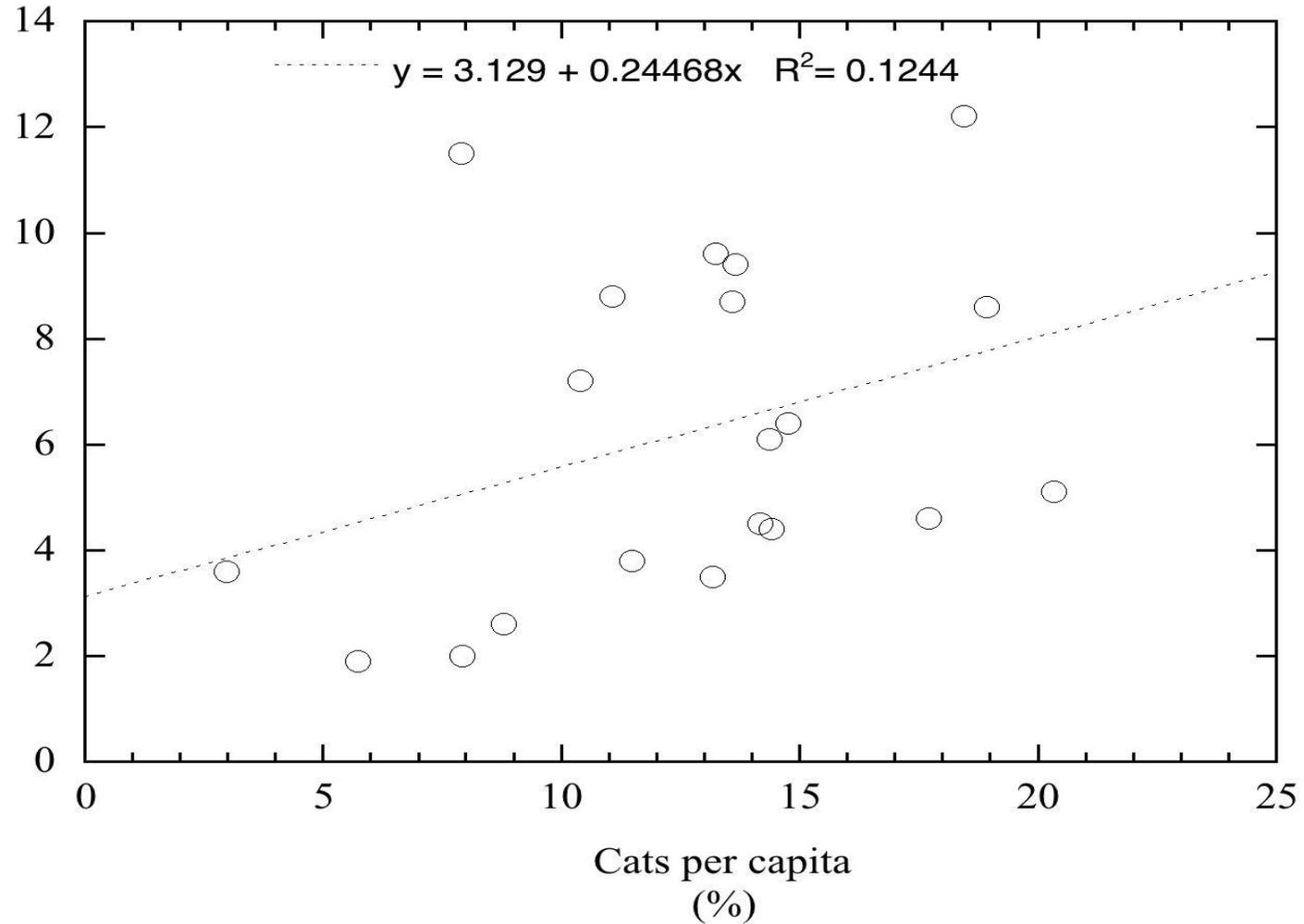
Country	Cat Population	Human Population	% cat to human
USA	56.10	275.85	20.34%
Austria	1.51	7.98	18.92%
Switzerland	1.31	7.10	18.45%
Netherlands	2.78	15.70	17.71%
Hungary	1.80	10.30	17.48%
Slovenia	0.32	1.98	16.16%
Romania	3.40	22.50	15.11%
Sweden	1.30	8.80	14.77%
Belgium	1.47	10.20	14.41%
France	8.40	58.40	14.38%
Australia	2.65	18.70	14.17%
Norway	0.60	4.40	13.64%
Denmark	0.72	5.30	13.58%
Bulgaria	1.10	8.30	13.25%
UK	7.76	58.60	13.24%
Poland	5.10	38.70	13.18%
Russia	17.00	146.90	11.57%
Italy	6.53	56.90	11.48%
Croatia	0.50	4.50	11.11%
Ireland	0.41	3.70	11.08%
Czech Rep	1.10	10.30	10.68%
Finland	0.53	5.10	10.39%
Macedonia	0.20	2.00	10.00%
Greece	0.95	10.80	8.80%
Portugal	0.80	10.10	7.92%
Germany	6.48	82.00	7.90%
Malta	0.03	0.38	7.89%
Albania	0.20	3.10	6.45%
Japan	7.24	126.40	5.73%



Cats and Chocolate Consumption per capita

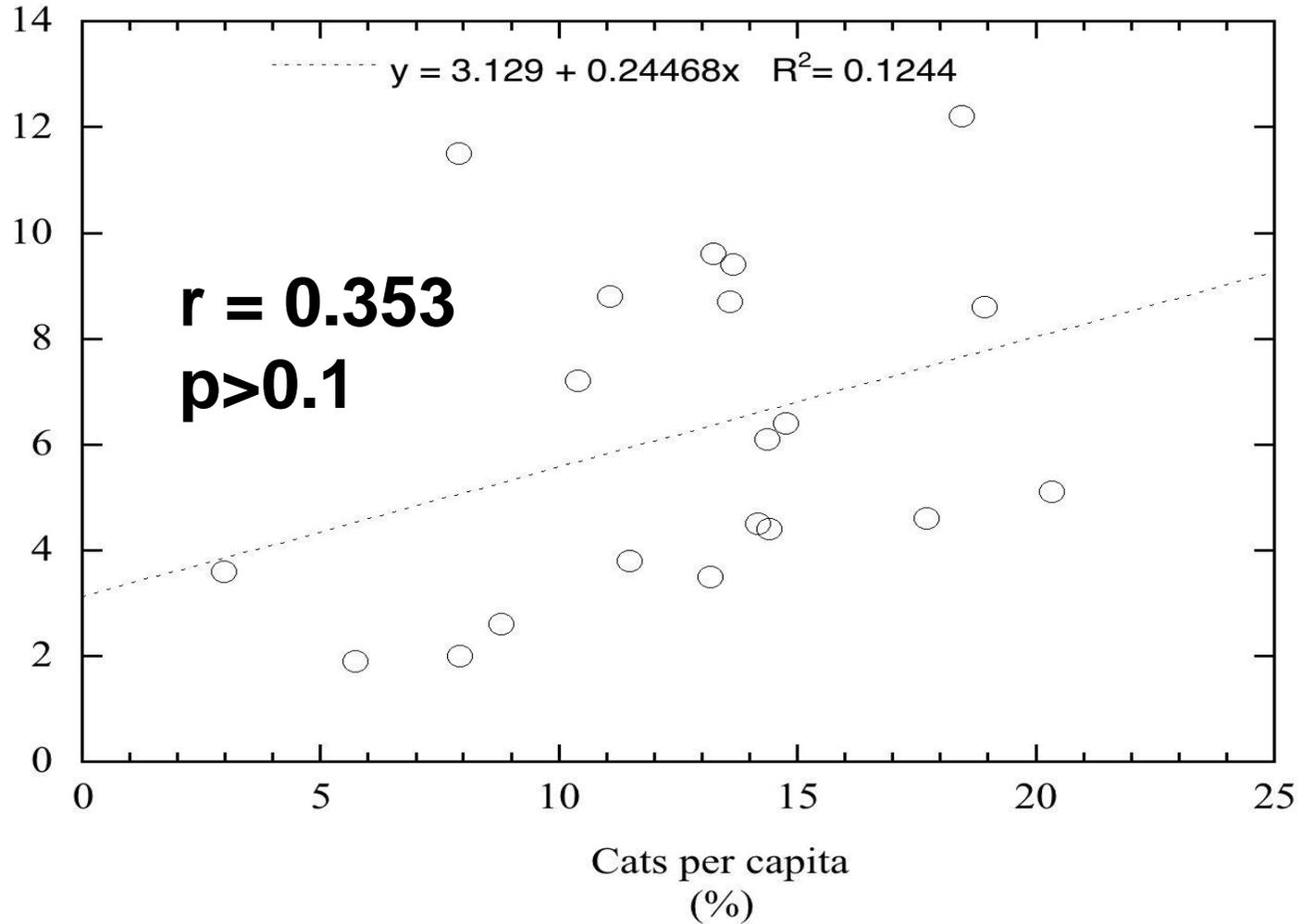


Chocolate consumption per capita
(Kg/yr/capita)

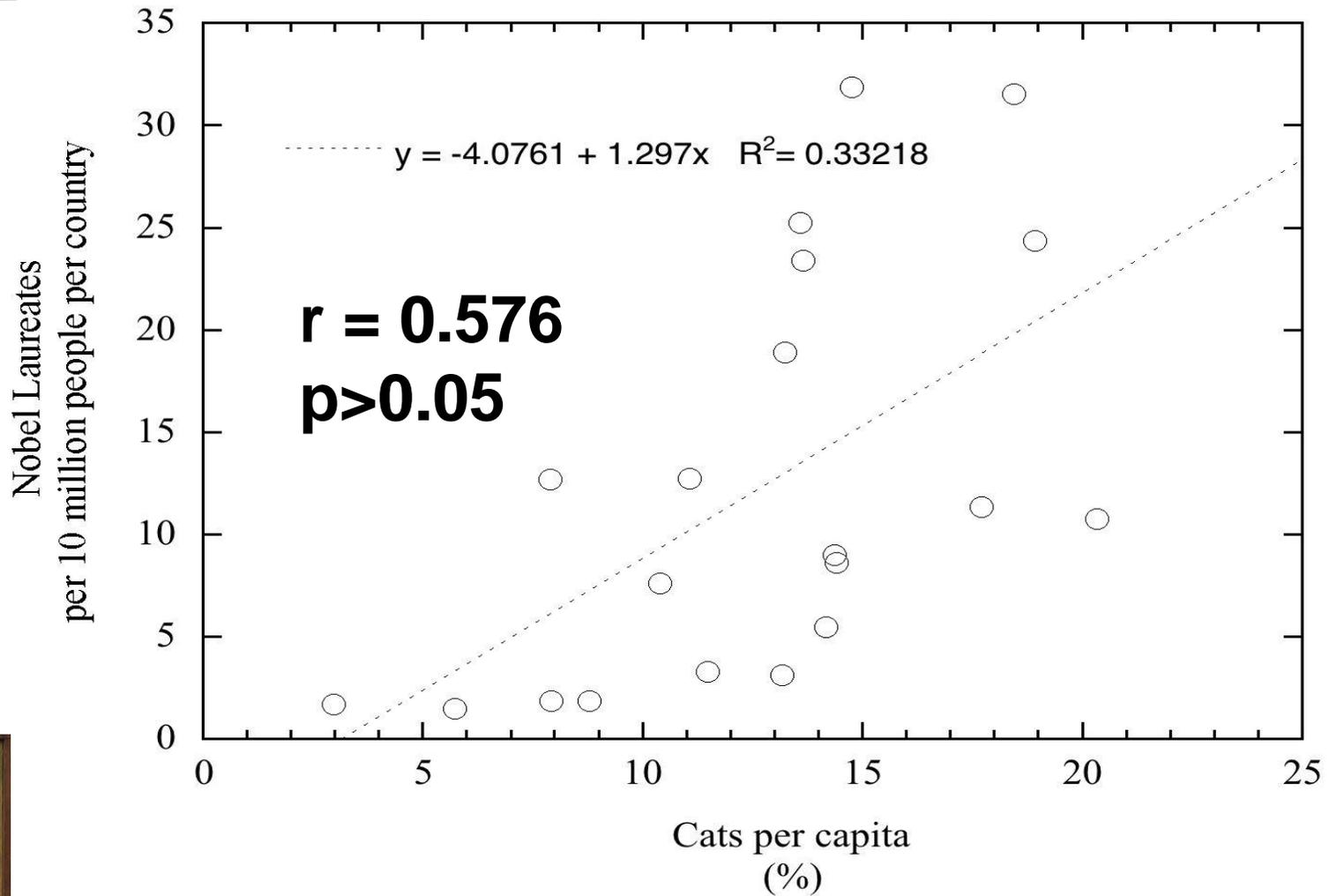


Cats and Chocolate Consumption per capita

Chocolate consumption per capita
(Kg/yr/capita)

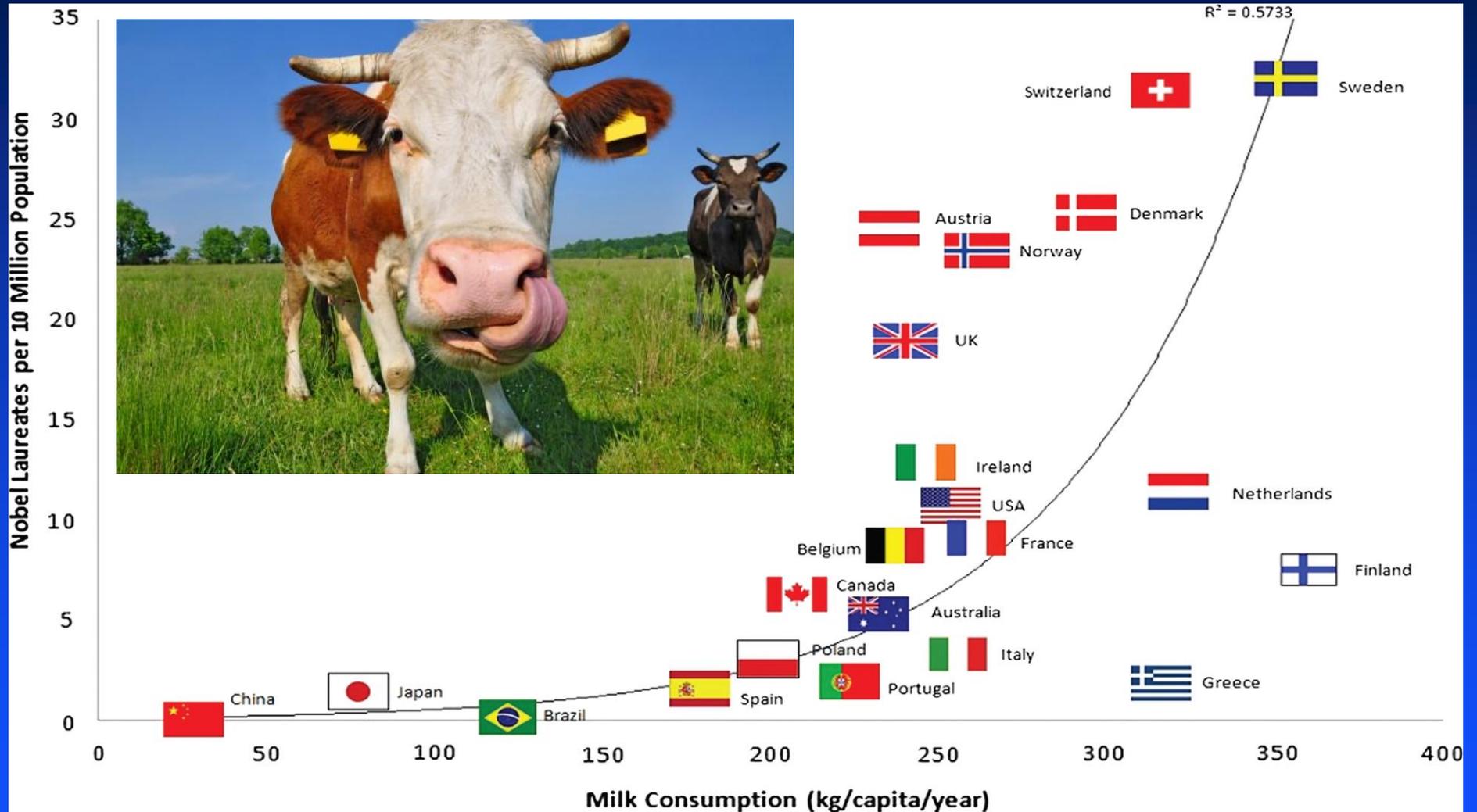


Cats and Nobel Laureates per capita





Correlation between countries' annual per capita milk consumption and the number of Nobel laureates per capita



the correlation with milk does not find Sweden an outlier, absolving the Nobel Committee from Messerli's suggestion of patriotic bias.

to improve your chances of winning Nobel prizes you should not only eat more chocolate but perhaps drink milk too: or strive for synergy with hot chocolate?

$p < 0.0001$



Herzschutz durch Kakaoflavanole

ISABELLA SUDANO, ANDREAS J. FLAMMER, ASTRID HIRT, SILVIYA CANTATORE, FRANK ENSELEIT, FRANK RUSCHITZKA, GEORG NOLL, ROBERTO CORTI*



Isabella
Sudano

In den letzten Jahren ist die Anzahl wissenschaftlicher Publikationen über kardiovaskulär protektive Effekte von Kakao und Kakaoprodukten deutlich angestiegen. Der nachfolgende Übersichtsartikel fasst die gewonnenen Erkenntnisse zusammen.



Andreas J.
Flammer

Das medizinwissenschaftliche Interesse an Kakao geht auf Beobachtungen bei den auf Inseln vor Panama lebenden Kuna-Indios zurück (1). In dieser Population traten Bluthochdruck sowie der altersbedingte Blutdruckanstieg deutlich weniger

wie Obst, Gemüse, Rotwein, Nüsse oder Tee möglicherweise positive Effekte auf unsere Gesundheit (2). Diese Effekte werden unter anderem auf die antioxidativ wirksamen Polyphenole, insbesondere die Flavanole, zurückgeführt.

Schokolade ist aber nicht gleich Kakao

Der Flavanolgehalt dünnere Schokolade

auch durch die gleichzeitige Einnahme anderer Nahrungsmittel beeinflusst werden (4).

Kakao und Blutdruck

Nach den ersten Beobachtungen in Panama haben zahlreiche klinische Studien den Effekt von Kakao und Kakaoprodukten auf den Blutdruck evaluiert (5). In zwei 2012 publizierten Metaanalysen (6



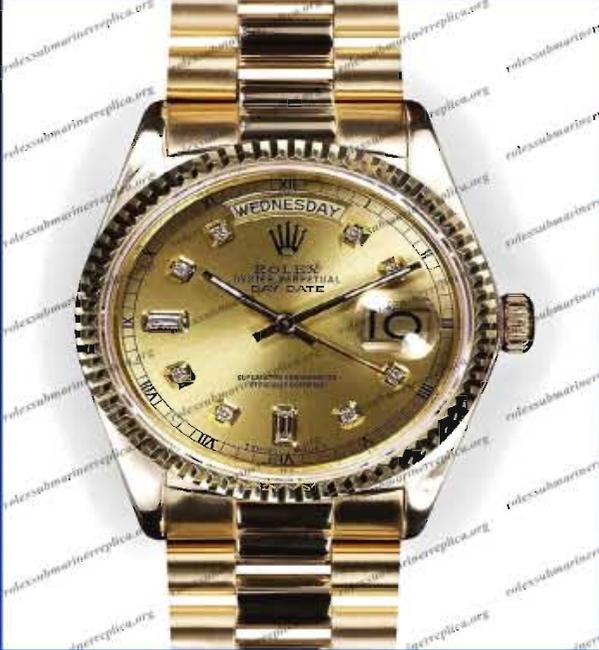
Wanna go to Stockholm?

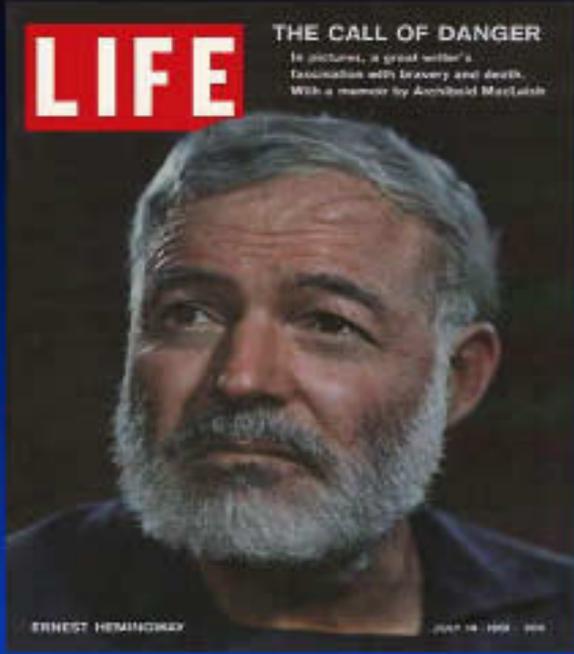


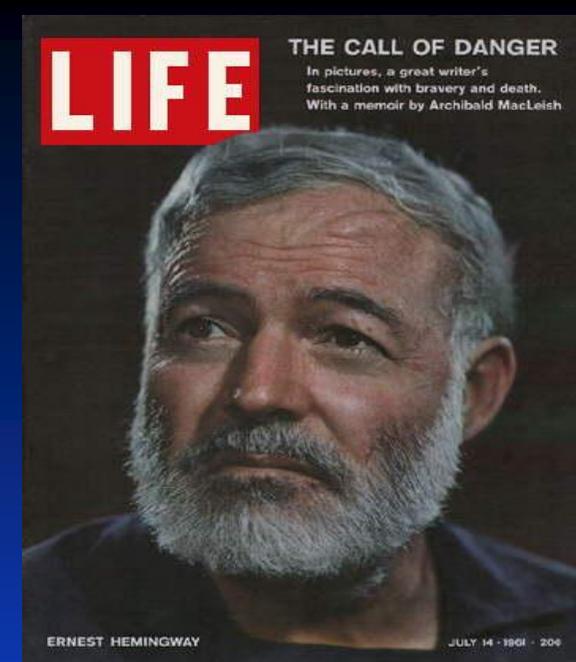
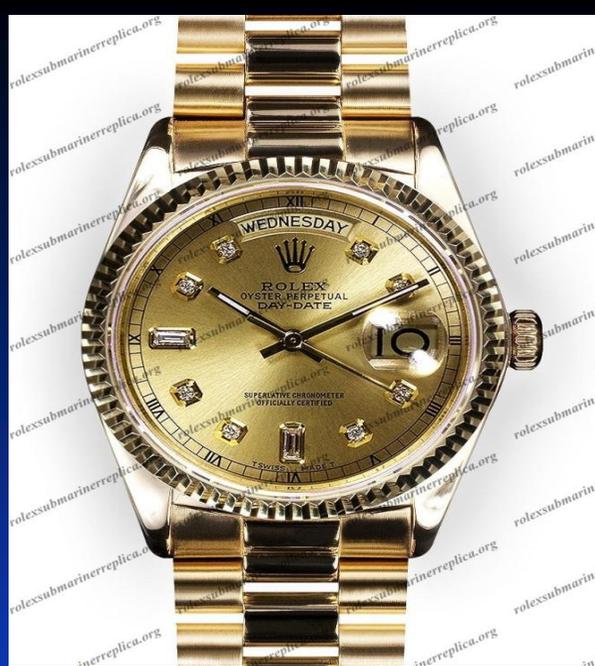
**Wanna go to Stockholm?
Eat your Chocolate!**











"It's just a muscle. Only it is the main muscle. It works as perfectly as a Rolex Oyster Perpetual. The trouble is you cannot send it to the Rolex representative when it goes wrong. When it stops, you just do not know the time. You're dead."

Ernest Hemingway "Across The River and Into The Trees" 1948

THE PERSON LEAST LIKELY TO HAVE A HEART ATTACK

He is an effeminate municipal worker or embalmer, completely lacking in physical and mental alertness.

He has no drive, ambition or competitive spirit. He never has attempted to meet a deadline.

THE PERSON LEAST LIKELY TO HAVE A HEART ATTACK

He is low in income, blood pressure, blood sugar, uric acid and cholesterol. He has been on *Lindt Chocolate*, pyridoxine, and long term anticoagulant therapy ever since his prophylactic castration.

Irvine Page, 1960



Columbia University St. Luke's Roosevelt Hospital Division of Cardiology



Franz H. Messerli, MD