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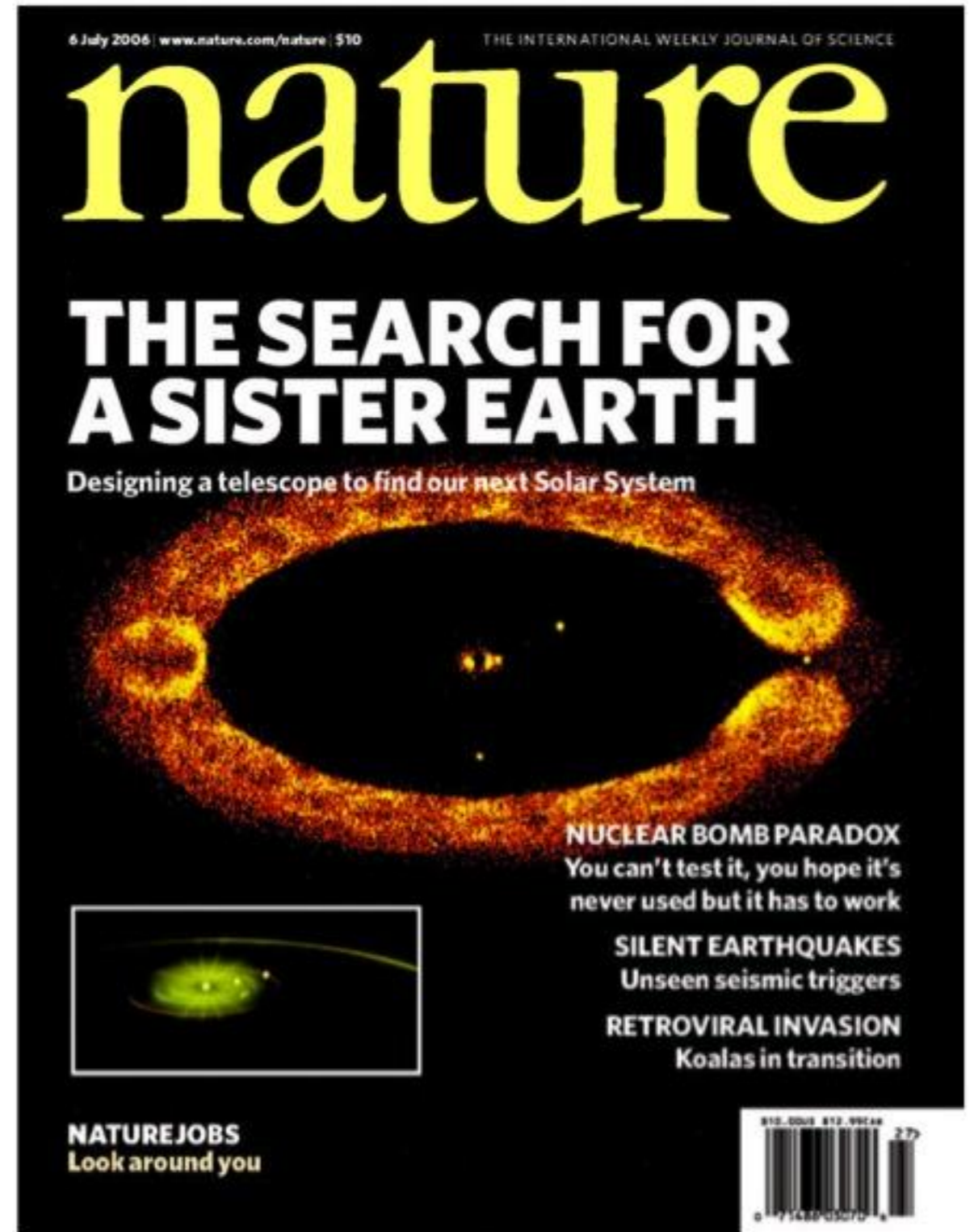
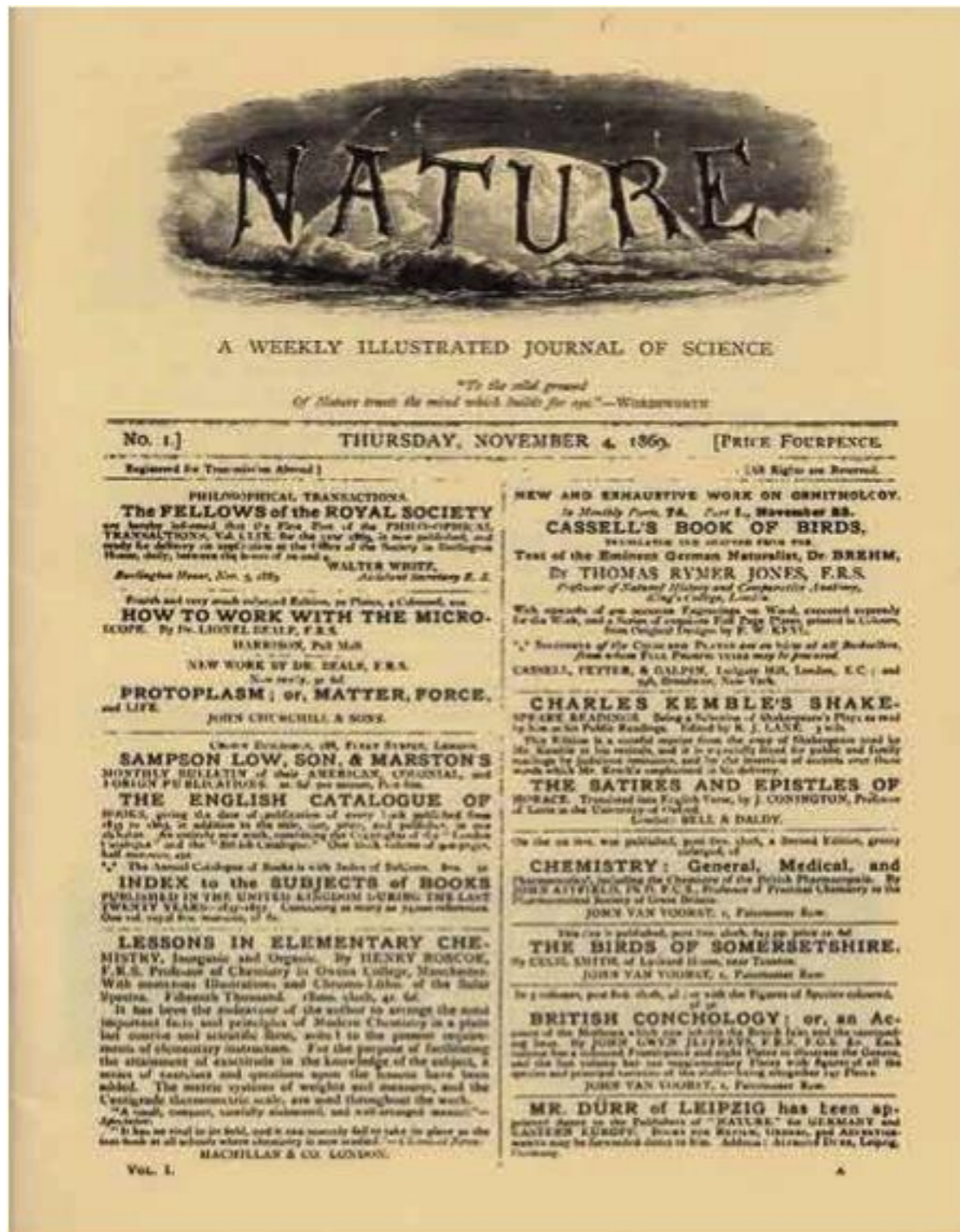
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Nature marks the anniversary of the publication of Charles Darwin's *On The Origin Of Species* 150 years ago with a special issue on biodiversity. The Darwin-related content from this issue plus further discussion can all be accessed within our Darwin 200 special, with selected content available free online.

During this landmark year Nature has continued to celebrate the birth of Charles Darwin. This special is an extensive collection of news, features and comment commemorating Darwin's life, his science and his legacy.

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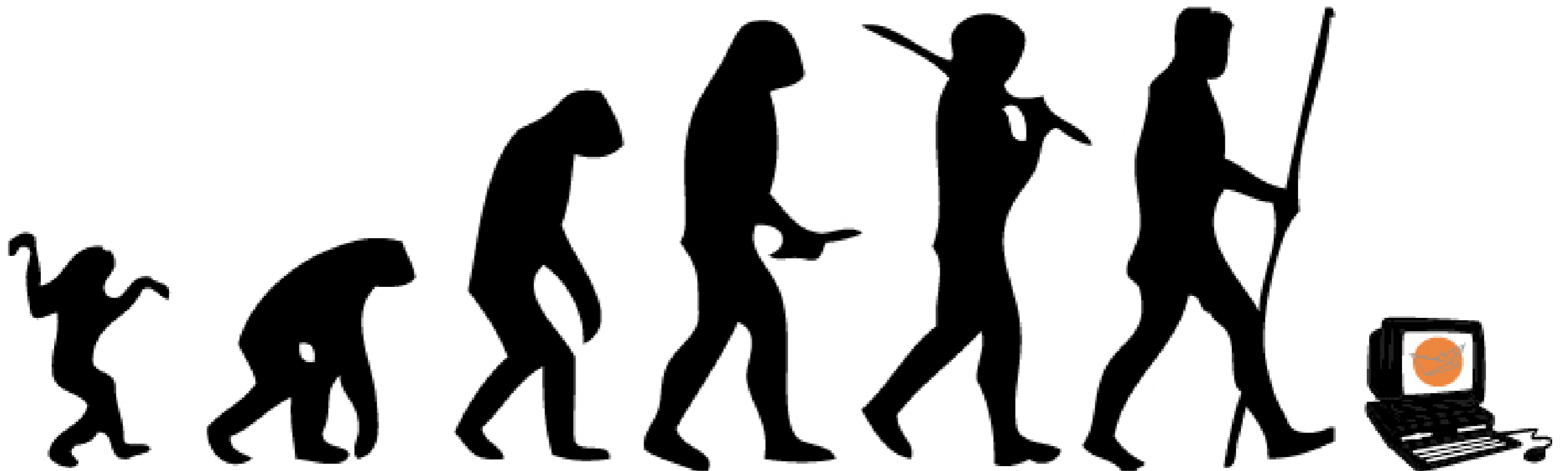
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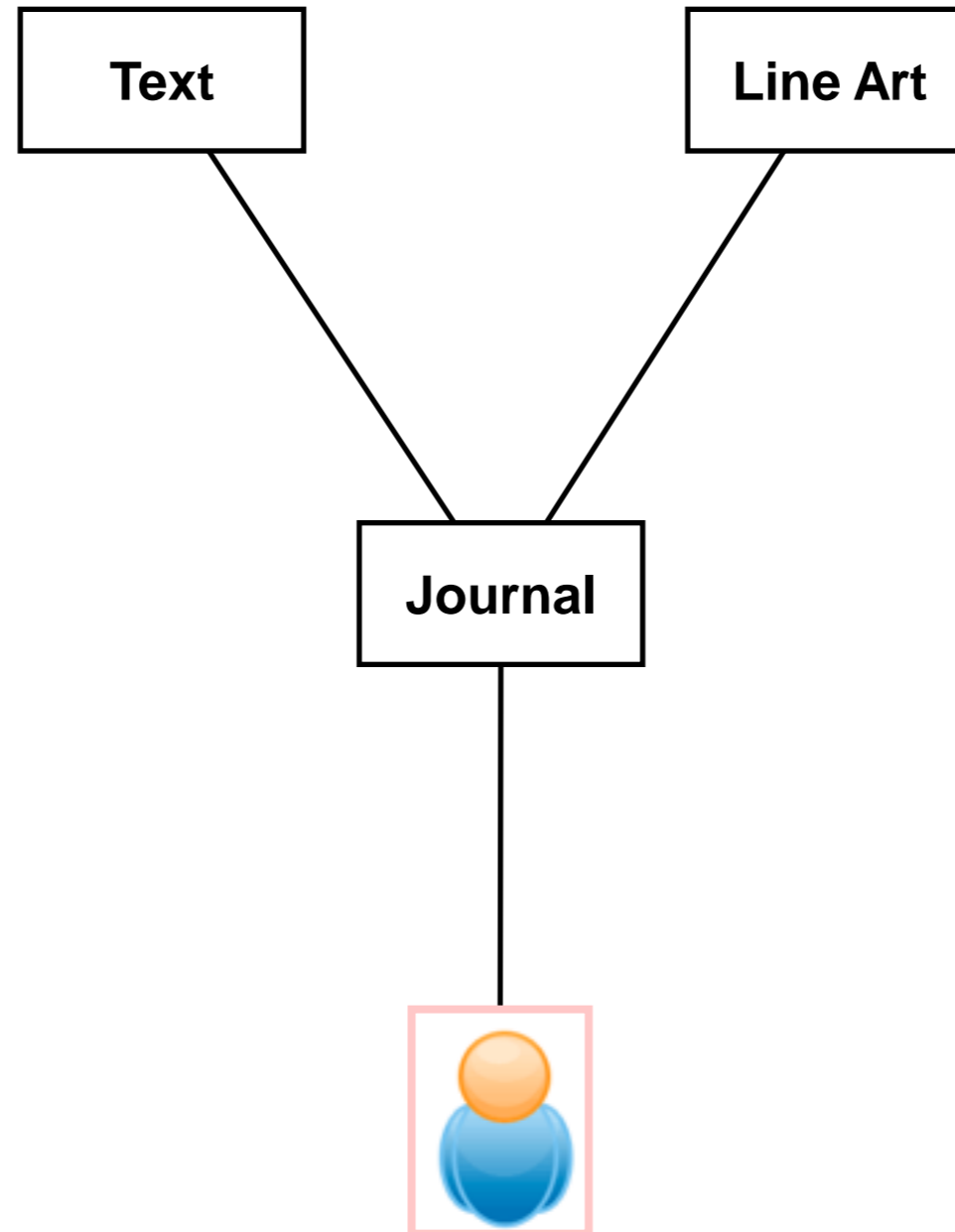
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all right once, but it has
gone on too long."**

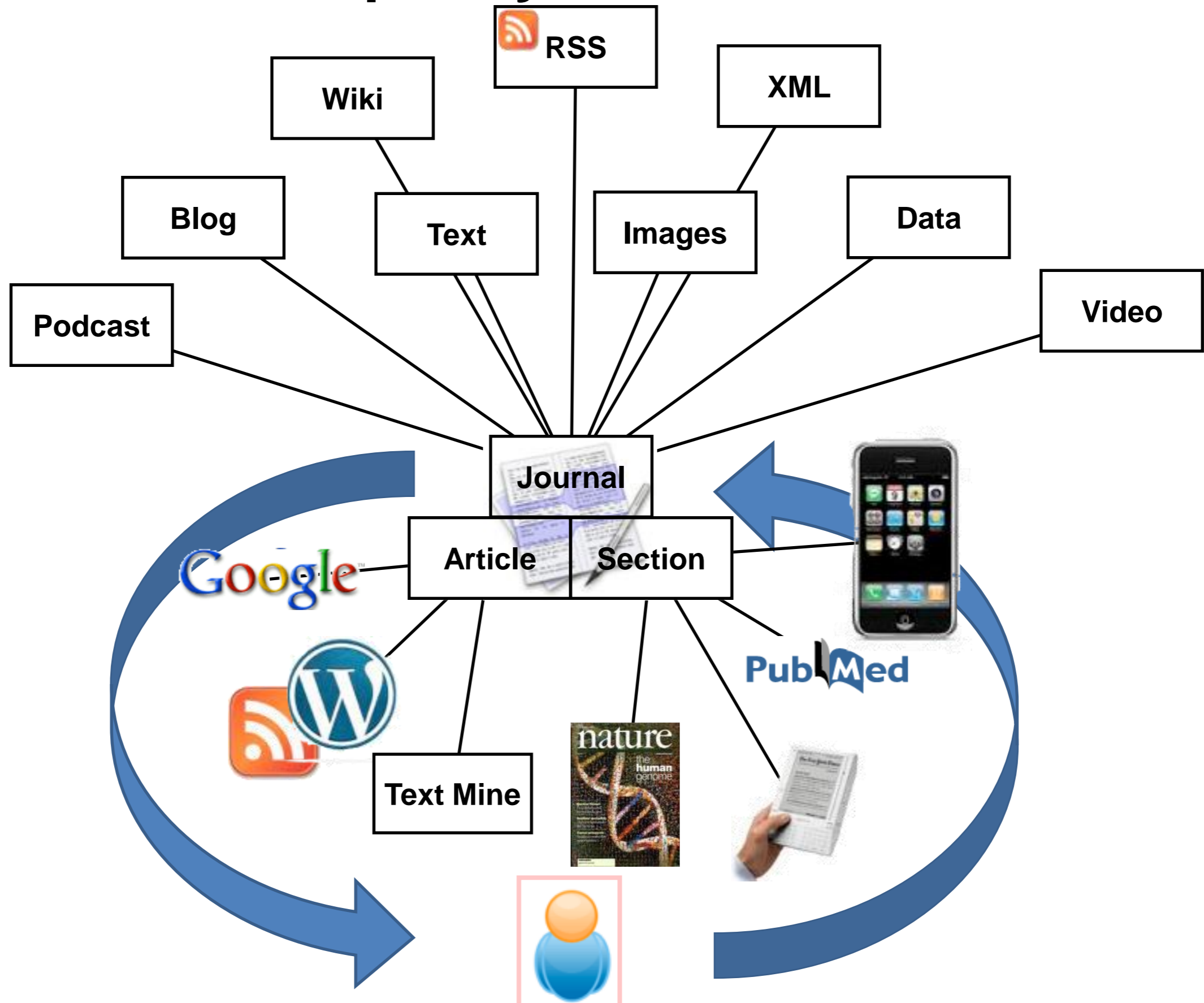
- Ogden Nash



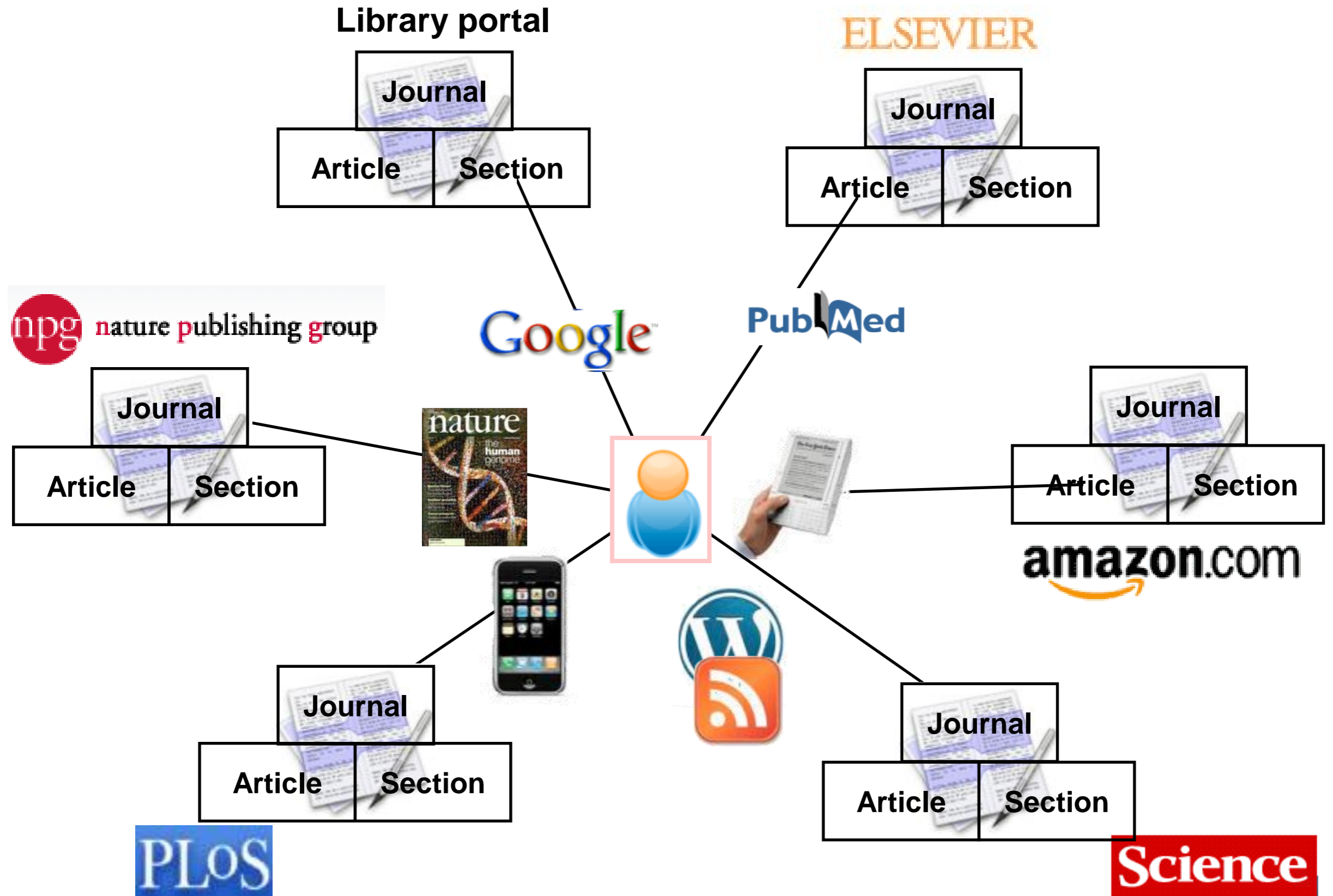
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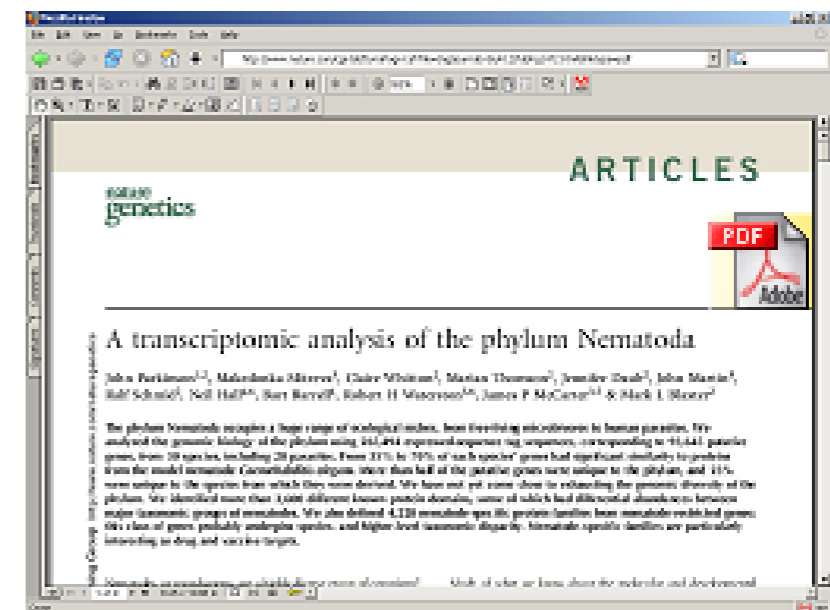
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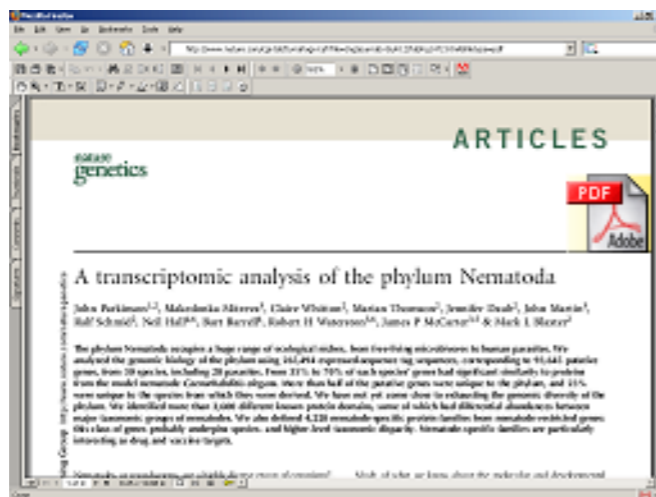
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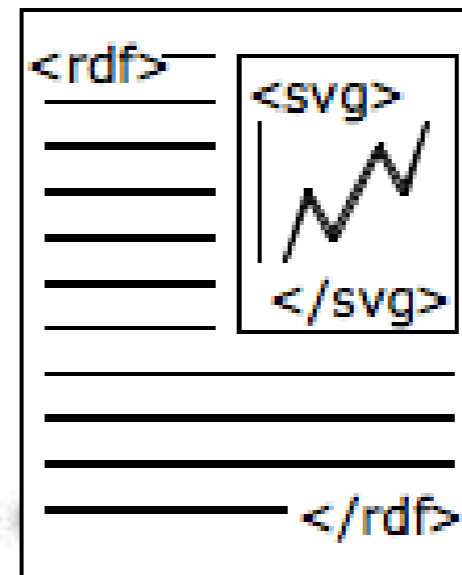
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Acetylation regulates Cyclophilin A catalysis, immunosuppression and HIV isomerization

Michael Lammers, Heinz Neumann, Jason W Chin & Leo C James

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Nature Chemical Biology **6**, 331–337 (2010) | doi:10.1038/nchembio.342








Received 27 October 2009 | Accepted 14 January 2010 | Published online 04 April 2010

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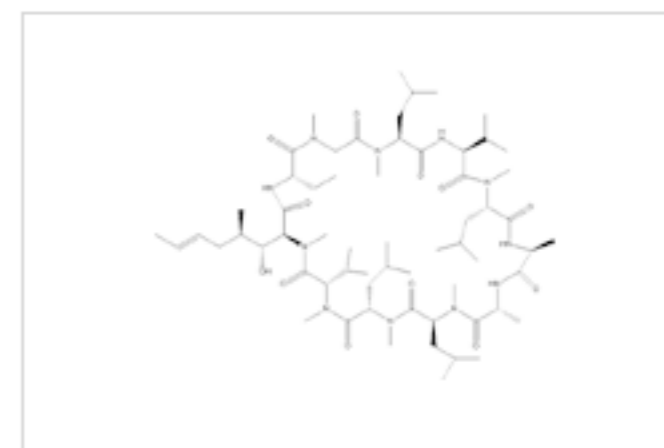
Cyclophilin A (CypA) is a ubiquitous *cis*–*trans* prolyl isomerase with key roles in immunity and viral infection. CypA suppresses T-cell activation through cyclosporine complexation and is required for effective HIV-1 replication in host cells. We show that CypA is acetylated in diverse human cell lines and use a synthetically evolved acetyllysyl-tRNA synthetase/tRNA_{CUA} pair to produce recombinant acetylated CypA in *Escherichia coli*. We determined atomic-resolution structures of acetylated CypA and its complexes with cyclosporine and HIV-1 capsid. Acetylation markedly inhibited CypA catalysis of *cis* to *trans* isomerization and stabilized *cis* rather than *trans* forms of the HIV-1 capsid. Furthermore, CypA acetylation antagonized the immunosuppressive effects of cyclosporine by inhibiting the sequential steps of cyclosporine binding and calcineurin inhibition. Our results reveal that acetylation regulates key functions of CypA in immunity and viral infection and provide a general set of mechanisms by which acetylation modulates interactions to regulate

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Michael Lammers, Heinz Neumann, Jason W Chin & Leo C James

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Cyclophilin A (CypA) is a ubiquitous *cis*–*trans* prolyl isomerase with key roles in immunity and viral infection. CypA suppresses T-cell activation through cyclosporine complexation and is required for effective HIV-1 replication in host cells. We show that CypA is acetylated in diverse human cell lines and use a synthetically evolved acetyllysyl-tRNA synthetase/tRNA_{CUA} pair to produce recombinant acetylated CypA in *Escherichia coli*. We determined atomic-resolution structures of acetylated CypA and its complexes with cyclosporine and HIV-1 capsid. Acetylation markedly inhibited CypA catalysis of *cis* to *trans* isomerization and stabilized *cis* rather than *trans* forms of the HIV-1 capsid. Furthermore, CypA acetylation antagonized the immunosuppressive effects of cyclosporine by inhibiting the sequential steps of cyclosporine binding and

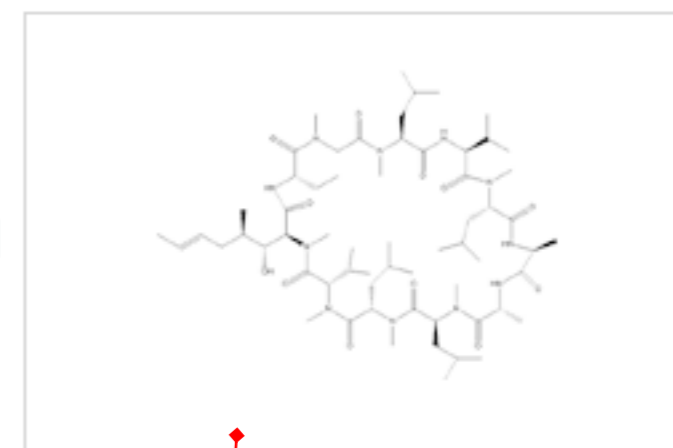
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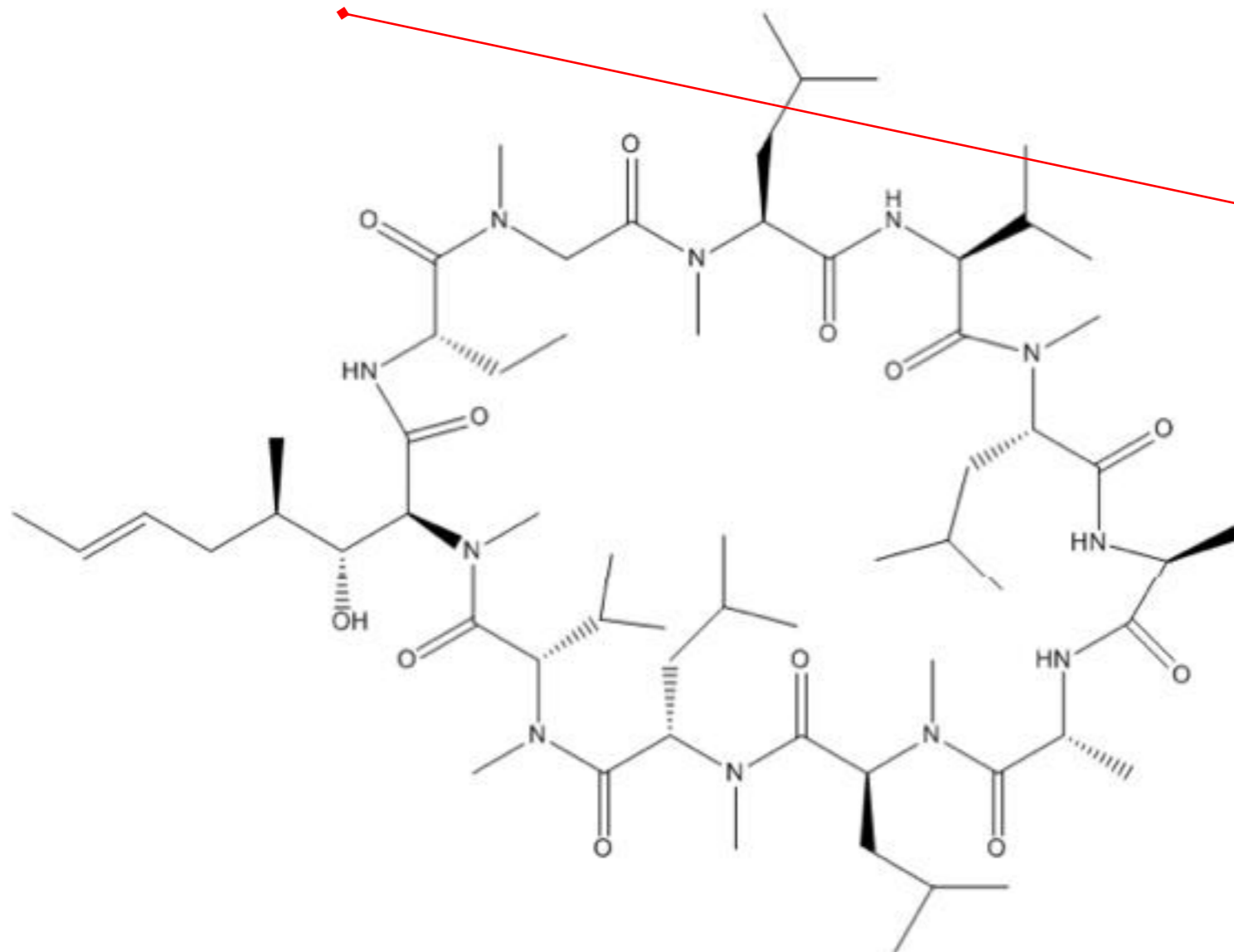
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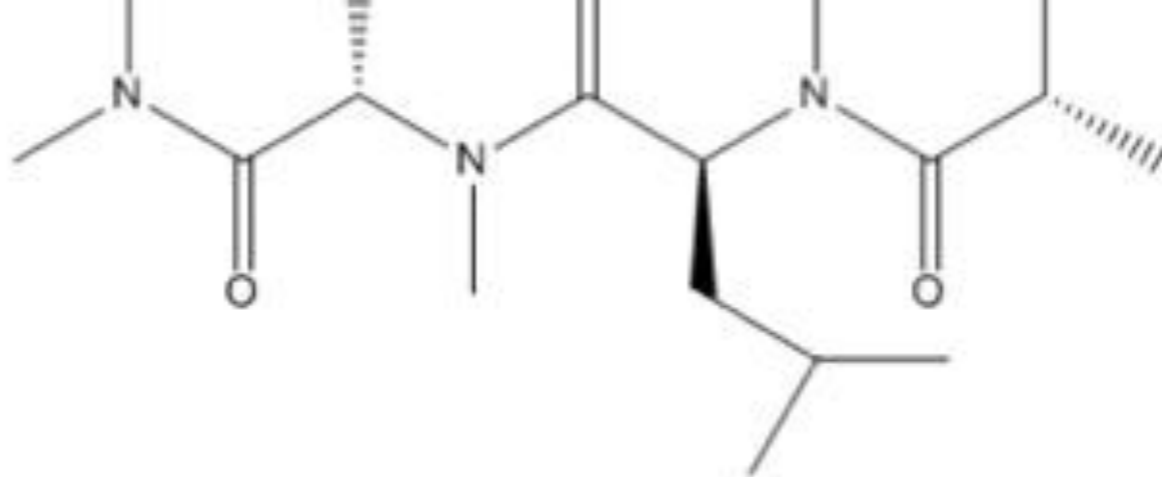
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Compound 1: Cyclosporine



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Synonyms

Cyclosporine

Ciclosporin

Neoral

Cyclosporine (USP)

Antibiotic S 7481F1

BMT-ABA-SAR-MLE-VAL-MLE-ALA-ALA-MLE-MLE-MVA

S-Neoral

Cipol N

HSDB 6881

S 7481F1

DRG 0275

Optimmune

(3S,6S,9S,12R,15S,18S,21S,24S,30S,33S)-30-Ethyl-33-[(1R,2R,4E)-1-hydroxy-2-methylhex-4-en-1-yl]-6,9,18,24-tetraisobutyl-3,21-diisopropyl-1,4,7,10,12,15,19,25,28-nonamethyl-1,4,7,10,13,16,19,22,25,28,31-undecaazacyclotritriacontane-2,5,8,11,14,17,20,23,26,29,32-undecone
1,4,7,10,13,16,19,22,25,28,31-undecaazacyclotritriacontane-2,5,8,11,14,17,20,23,26,29,32-undecone, 30-ethyl-33-[(1R,2R,4E)-1-hydroxy-2-methylhex-4-en-1-yl]-6,9,18,24-tetrakis(2-methylpropyl)-, (3S,6S,9S,12R,15S,18S,21S,24S,30S,33S)-

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cyclosporine - PubChem Public Chemical Database

http://pubchem.ncbi.nlm.nih.gov/summary/summary.cgi?sid=

PubChem Substance

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Chemical Structure (CID 5284373) | Deposited Record (SID 90744369)

cyclosporine - Substance Summary (SID 90744369)

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SID 90744369
Deposit Date: 2010-03-23
Hold-until Date: 2010-04-04
Modify Date: 2010-03-23

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External ID: nchembio.342-comp1

Synonyms: (Total: 2)

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cyclosporine
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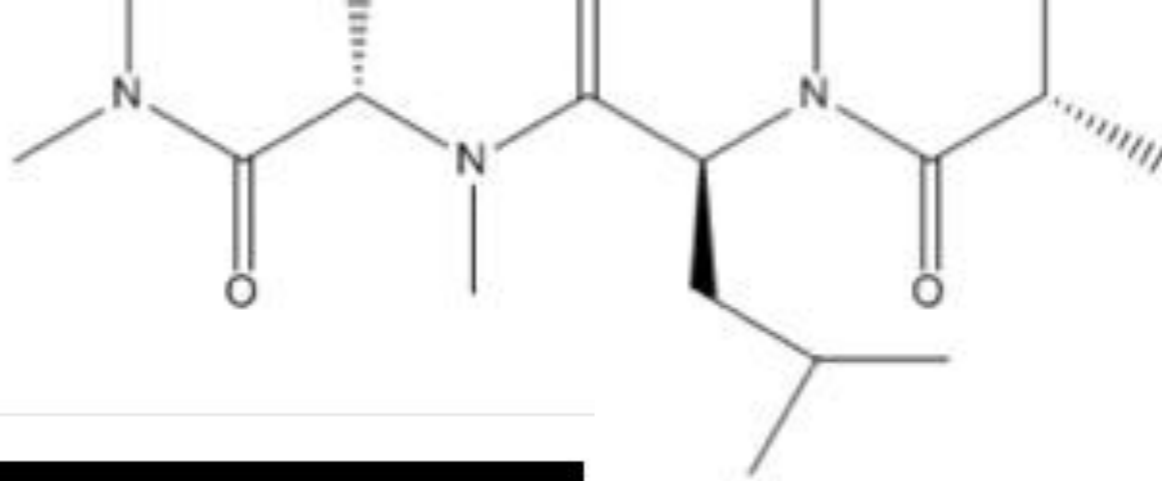
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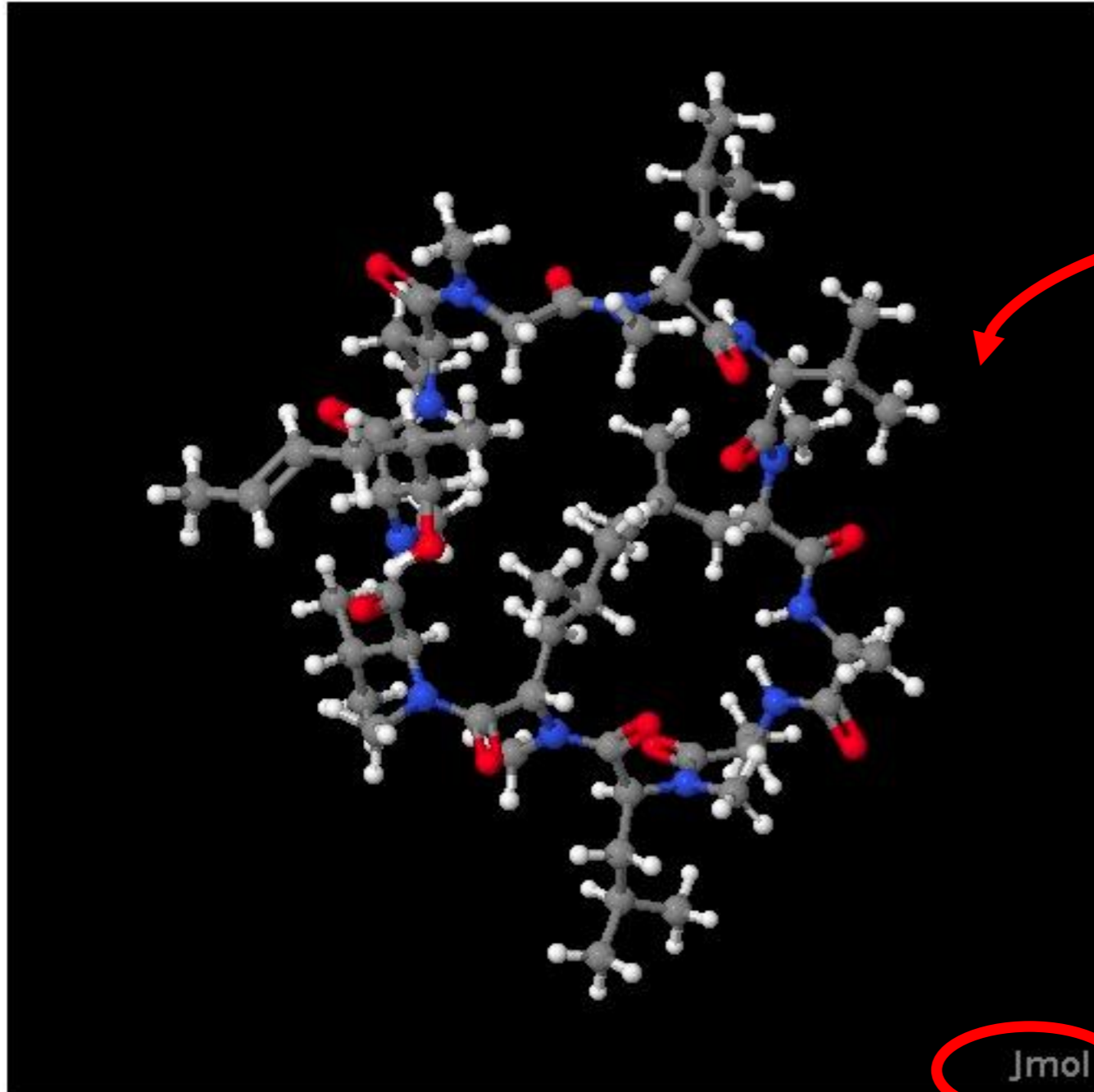
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Compound 1: Cyclosporine



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 1,4,7,10,12,15,19,25,28-nonamethyl-1,4,7,10,13,16,19,22,25,28,31-undecaazacyclotritriacontane-2,5,8,11,14,17,20,23,26,29,32-undecone
 1,4,7,10,13,16,19,22,25,28,31-undecaazacyclotritriacontane-2,5,8,11,14,17,20,23,26,29,32-undecone, 30-ethyl-33-[(1R,2R,4E)-1-hydroxy-2-
 1,4,7,10,12,15,19,25,28-nonamethyl-3,21-bis(1-m
 ethylethyl)-6,9,18,24-tetrakis(2-methylpropyl)-, (3S,6S,9S,12R,15S,18S,21S,24S,30S,33S)-
 (2S,6S,9S,12R,15S,18S,21S,24S,30S,33S)-30-ethyl-33-[(1R,2R,4E)-1-hydroxy-2-methylhex-4-en-1-yl]-1,4,7,10,12,15,19,25,28-nonameth

**"The future ain't
what it used to be" -
Yogi Berra**





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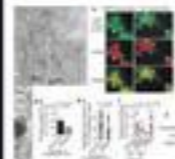
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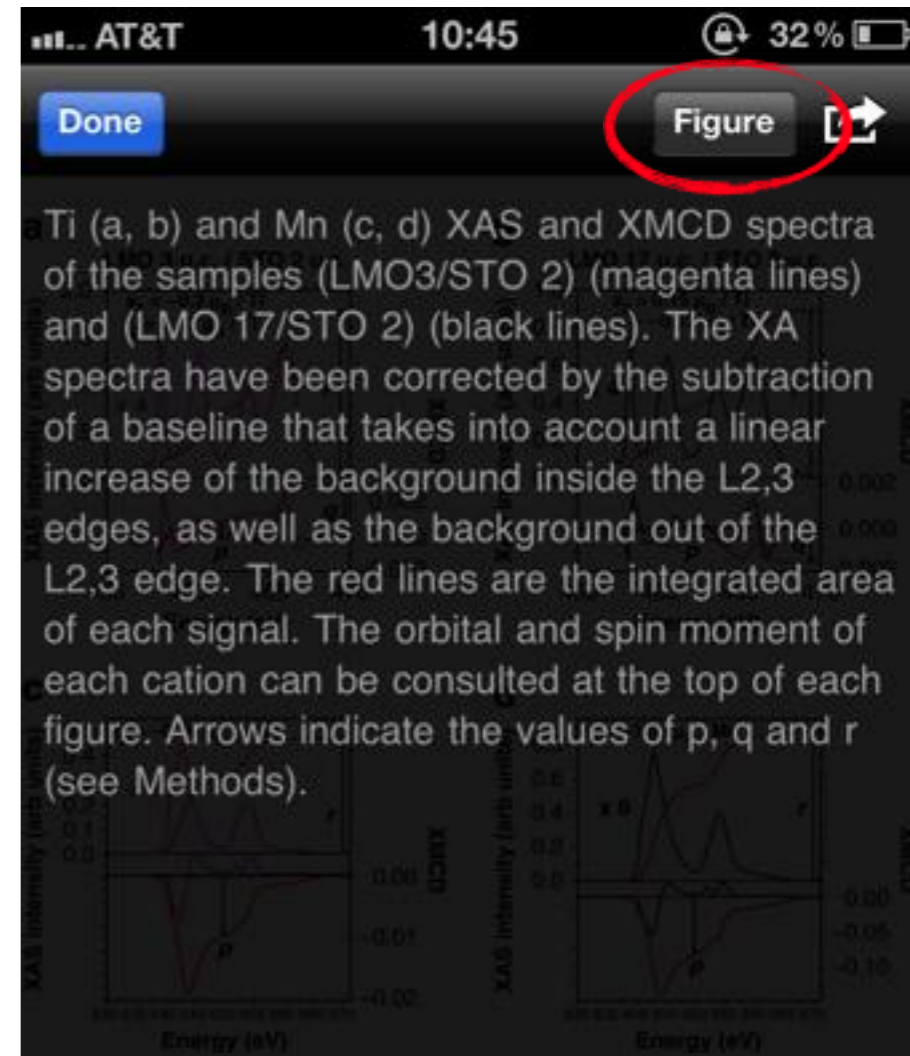
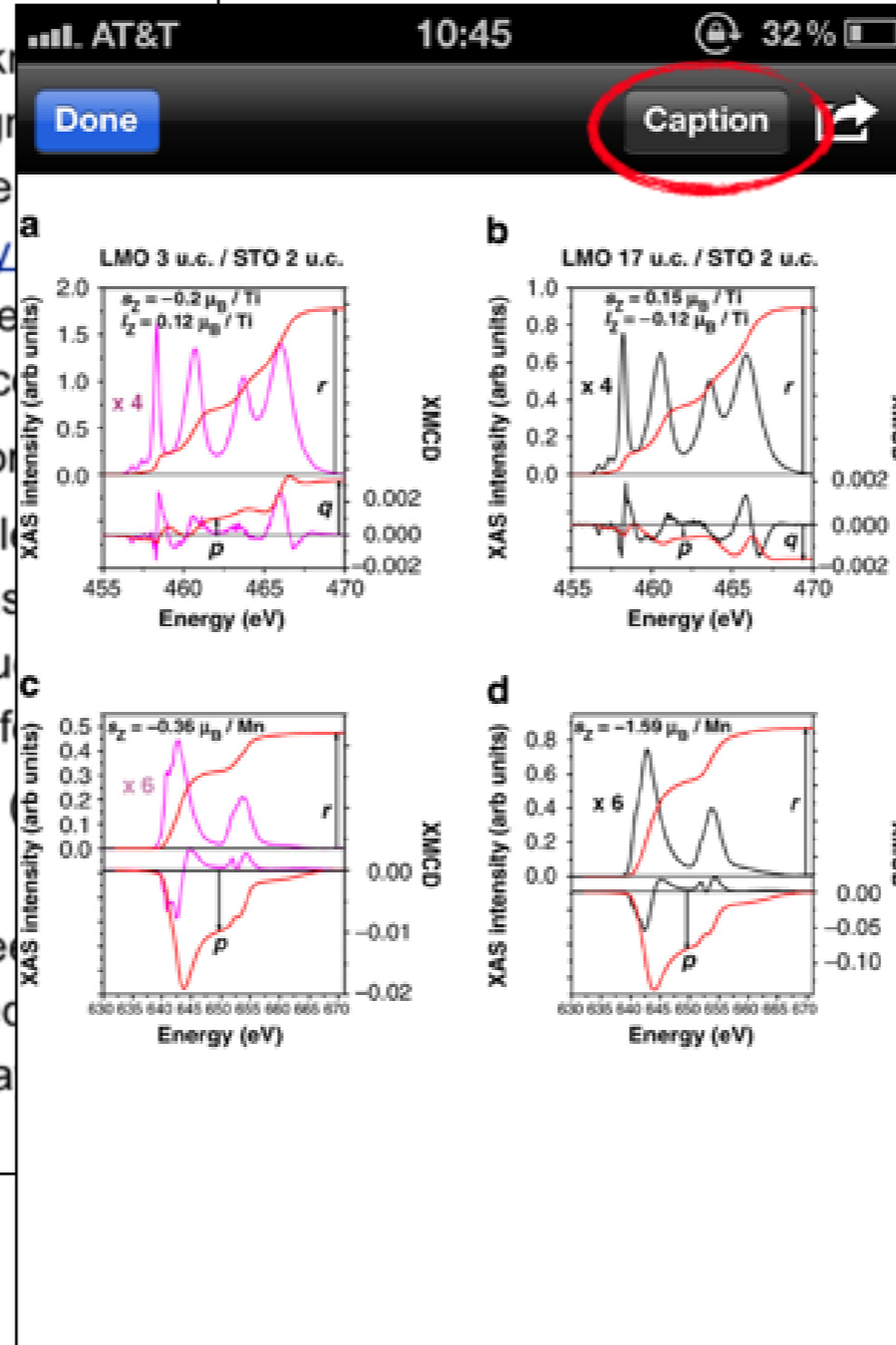


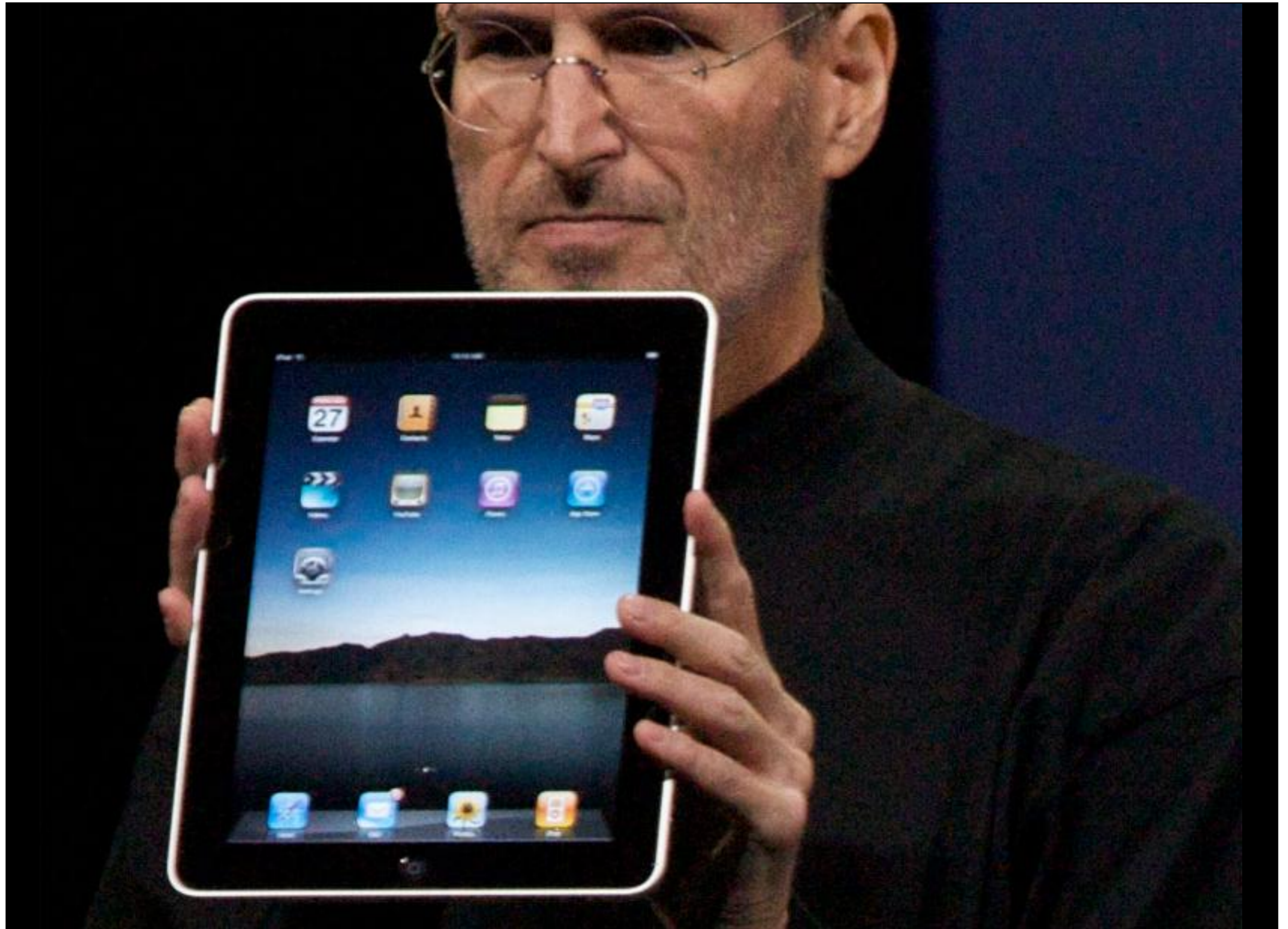
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line in the Fig. 4a). The different Ti–Mn interfacial magnetic couplings may be influenced by a different Mn e_g orbital reconstruction

promoted by the different strain or thickness patterns. Measurements of the XLD signal (Fig. 5a), and a further description in the Methods section and in Supplementary at room temperature evidence a change in the occupation of Mn orbitals at the interface. In Manganese out-of-plane e_g $d(3z^2-r^2)$ orbitals are occupied in (LMO 17/STO 2) samples of thick LMO layers (see Fig. 3b), whereas in (LMO 3/STO 2) superlattices, with a much thinner manganite layer, promote a preferential in-plane e_g $d(x^2-y^2)$ orbital occupation (Fig. 5c). This pattern of orbital occupation determined by epitaxial strain is in agreement with previous reports in ultrathin strained films^{2,29} and modifies bonding in a way that may help to understand the sign of the





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LETTER

Holographic three-dimensional telepresence using large-area photorefractive polymer

BY P.-A. BLANCHE, A. BABLUMIAN, R. VOORAKARANAM, C. CHRISTENSON, W. LIN, T. GU, D. FLORES, P. WANG, W.-Y. HSIEH, M. KATHAPERUMAL, B. RACHWAL, O. SIDDIQUI, J. THOMAS, R. A. NORWOOD, M. YAMAMOTO & N. PEYGHAMBARIAN

FIGURES AT A GLANCE

Holography is a technique that is used to display objects or scenes in three dimensional (3D) images, or holograms, can be seen with the unassisted eye and humans see the actual environment surrounding them. The concept of 3D telepresence dynamic hologram depicting a scene occurring in a different location, has attracted interest since it was depicted in the original *Star Wars* film in 1977. However, the computational power to produce realistic computer-generated holograms 1 and the and dynamically updatable holographic recording media 2 have prevented realization. Here we use a holographic stereographic technique 3 and a photorefractive polymer recording medium 4 to demonstrate a holographic display that can refresh images at 50 Hz. A nanosecond pulsed laser is used to write the holographic pixels 5. Multicolor images are produced by using angular multiplexing, and the full parallax display is achieved by using time multiplexing. 3D telepresence is demonstrated by taking multiple images from one location and transmitting the information via Ethernet to another location where the hologram is displayed in a quasi-real-time dynamic 3D display. Further improvements could bring applications such as prototyping, advertising, updatable 3D maps and entertainment.

3D display technology is attracting much public attention; events include the recent such as *Avatar*, the 2008 US election-night 'hologram' reporter interviews from CNN (<http://www.cnn.com/2008/TECH/11/06/hologram.yellin/index.html>), and the development of televisions by some manufacturers (<http://www.3dsource.com/>). As dramatic as

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NEWS

Mayans converted wetlands to farmland

BY AMANDA MASCARELLI

The ancient Maya civilization is widely recognized for its awe-inspiring pyramids, sophisticated mathematics and advanced written language. But research is revealing that the complexity of Maya agricultural systems is likely to have rivalled that of their architecture and intellect.

Using new techniques and extensive excavations, researchers have found that the Maya coped with tough environmental conditions by developing ingenious methods to grow crops in wetland areas. "The work shows that this intensive agriculture is more complicated and on a par with these other areas of intellectual development," says Timothy Beach, a physical geographer at Georgetown University in Washington DC, who presented his findings on Wednesday at the Geological Society of America (GSA) meeting in Denver, Colorado.

Maya irrigation canals at "Birds of Paradise" site in northwest Belize.
Credit: S. Luzzadder-Beach

The Maya civilization, considered one of the most advanced ancient societies, lived in sprawling and

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Mayans converted wetlands...



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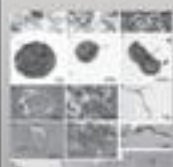
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Organic-walled microfossils in 3.2-billion-year-old shallow-marine siliciclastic deposits

Emmanuelle J. Javaux, Craig P. Marshall & Andrey Bekker

Although the notion of an early origin and diversification of life on Earth during the Archaean eon has received increasing support in geochemical, sedimentological and palaeontological evidence, ambiguities and controversies persist regarding the biogenicity and syngeneity of the record older than Late Archaean [1](#) [2](#) [3](#). Non-biological processes are known to produce morphologies similar to some microfossils [4](#) [5](#), and hydrothermal fluids have the potential to produce abiotic structures with negative carbon isotope values [6](#), making it difficult to establish unambiguously the biogenicity of structures in Mesoarchaeon shales and older siliciclastic alluvial to tidal-marine organic-walled microfossils on the basis of petrographic and geochemical data. The biogenicity and syngeneity, their taphonomic features, occurrence in populations, and geological context plausible for life, as well as the preservation of these are the oldest and largest microfossils. Our observations suggest that these are the oldest and largest benthic microbial mats [8](#) in the photic zone of marine basins 3.2 billion years ago.

Structured organic remains from the Fig Tree Series (Precambrian) of the Barberton mountain land (South Africa)

Pflug, H. D.

Rev. Palaeobot. Palynol. 5, 9–29 (1967)

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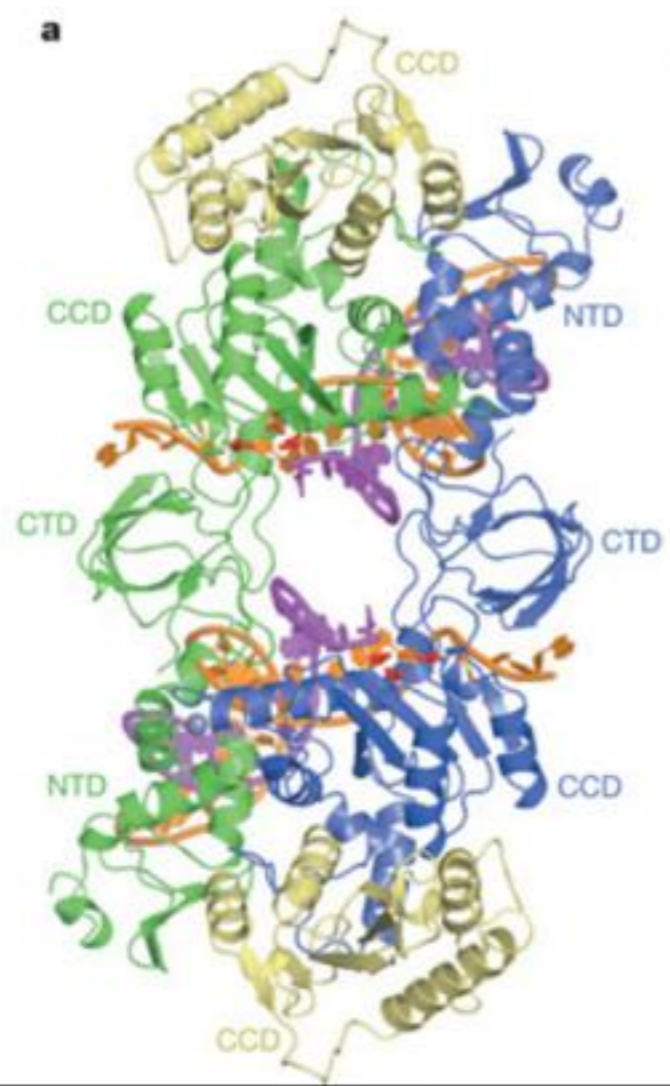
Until now, Archaean hydrothermal and shallow-marine siliciclastic lithologies have been largely overlooked by micropalaeontologists, although they are routinely examined in Proterozoic successions. Early microfossil reports [9](#) from acid-macerated shales of the Fig Tree Group (Barberton Greenstone Belt (BGB), South Africa), which is about 3.3 Gyr old, have been deemed to be abiogenic [10](#). Sedimentary structures interpreted as microbial mats, and also preserved organic matter with negative carbon isotope values, have been described from Archaean unsilicified [11](#) siliciclastic successions, including the Moodies Group [8](#) and from cherts [12](#) of South Africa. Proterozoic shales and siltstones deposited in intertidal to deep-basinal marine

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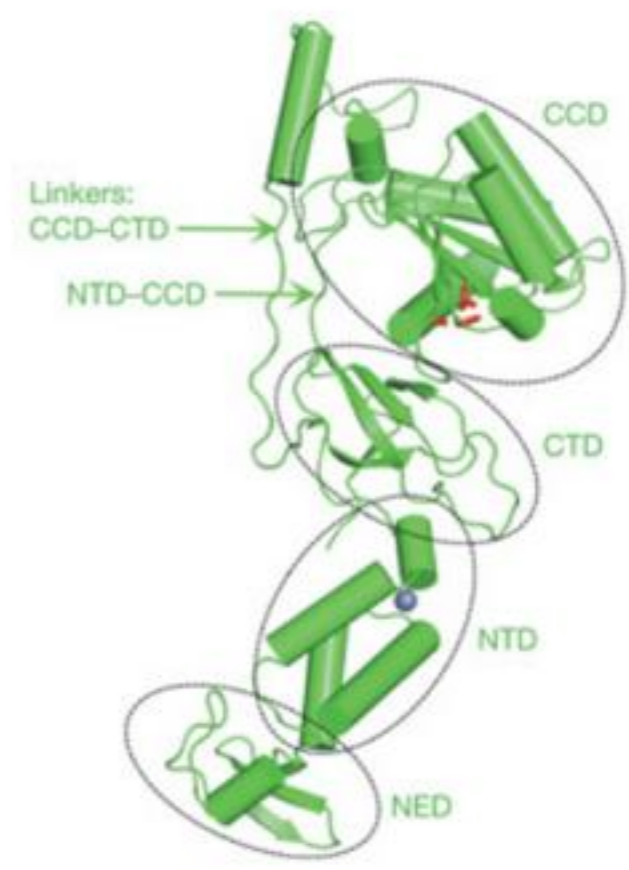
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FEBRUARY 21, 2011

[Why scientists should blog about their pets](#)

Our [March issue](#) went live today, featuring a [Thesis article](#) (sub req'd) from Michelle Francl about blogging - here's a little extra from Michelle that expands on her column.

Last fall, Royce Murray [stirred up science bloggers](#) by characterizing them as unqualified purveyors of pseudoscience in search of easy money. The response was fast and furious - so robust in fact that performing the Google search that Murray referred to in his argument "qualifications of bloggers" now turns up as many hits to science blogs responding to Murray's editorial as it does adverts and advice for the unqualified seeking to blog (at least in the top twenty!).

I argue in my Thesis column this month that chemistry blogs are a critical part of the communication network which supports good research - and that scientists should read, and if they are so inclined write, blogs of this sort.

What I didn't say is that I would extend this to suggest that scientists should be doing more than utilitarian writing. We should move beyond the writing of journal articles, reviews, abstracts, and even blog posts critically commenting on the literature and write about the quotidian challenges of doing science, extol the beauty of our latest compound, wax philosophical about the reality of molecular orbitals, and dare I say it, blog about our pets.

Simply writing more is a strategy to become a faster, fluent and more efficient writer. Why not write summaries of the latest literature? Why do I think writing about [the steamboat buffet my student treated me to in Singapore](#) or [my cat's latest predatory exploits](#) is worth my time? Because I can write with the brakes off. I can use language wildly, without worrying about transgressing technical boundaries or overreaching my data.

Learning to deploy rich descriptive language takes practice, and has hidden benefits to the research scientist. Scientists' field notes and lab notebooks would benefit from fluent, descriptive writing - and so, in my experience, would the science that flows from them. The original sceptical chemist, Robert Boyle, held that science wasn't official science unless you'd

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Welcome to Protocol Exchange from Nature Protocols. The Protocol Exchange is an open resource where the community of scientists pool their experimental know-how to help accelerate research. Discover the [protocols](#), [share a protocol](#), join a [lab group](#), comment on [protocols](#), organize [your favorites](#) and personalize your experience.

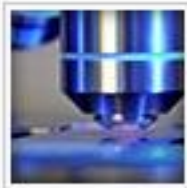


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A protocol for *in vivo* detection of reactive oxygen species

Authors: Edward Owusu-Ansah, Amir Yavari, Utpal Banerjee

Lab groups: Banerjee Lab (University of California)

Associated Publications: [Distinct mitochondrial retrograde signals control the G1-S cell cycle checkpoint](#)

2',7'-dichlorofluorescein (H2DCF) and Dihydroethidium (DHE), have been used extensively in tissue culture experiments to evaluate reactive oxygen species (ROS) production. However, i...



Chromatin immunoprecipitation (ChIP) assay

Authors: Zhongfu Ni, Danny W.-K. Ng, Jianxin Liu, Z. Jeffrey Chen

Lab groups: Chen Lab (The University of Texas at Austin)

Associated Publications: [Altered circadian rhythms regulate growth vigor in hybrids and allopolyploids](#)

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[Preserving Cell Viability at Positive Temperatures](#)


Challenge Reward: **\$50,000 USD** Challenge Type: **RTP** INNOCENTIVE: **9932638**



The Seeker is looking for a method of preservation of cell viability for primary eukaryotic cells for at least one month at minimum 5°C.

This is a Reduction-to-Practice Challenge that requires a written proposal and experimental proof-of-concept data (and/or sample delivery).

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 101 Project Rooms

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The Antikythera mechanism: decoding an ancient Greek mystery

NATURE

Vol 454, Issue 7204
31 July 2008

0:12 / 6:58
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Antikythera Mechanism Part 1: by Nature Video

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New interpretations of the Antikythera Mechanism reveal that it could be used to predict eclipses, and that it had a dial recording the dates of the ancient Olympiads. The 2,000-year-old box of intricate gearwork provides a glimpse of the engineering prowess of the Hellenic world. The team discuss their results here.

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The science of diplomacy

The US government employs researchers to delve into matters of state. What special skills are required for these positions?



Q&A

Turning point: Collins Ouma
Molecular biologist Collins Ouma's efforts to combat paediatric malaria in Kenya are gaining momentum.

Feature

Curation generation
With biological databases growing in size and number, curators are needed to update and correct their contents. For those who prefer computers to pipettes, there are opportunities.

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18  vote

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 Live webcast April 28: Lunch with Nobel Laureate Jack Szostak #TAG <http://natu.re/3m4lzn> #LNLM10

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 Live webcast April 28: Lunch with Nobel Laureate Jack Szostak #TAG

E.g. Lindau Nobel Laureates conference.

Brought together multiple social media elements

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Q&A

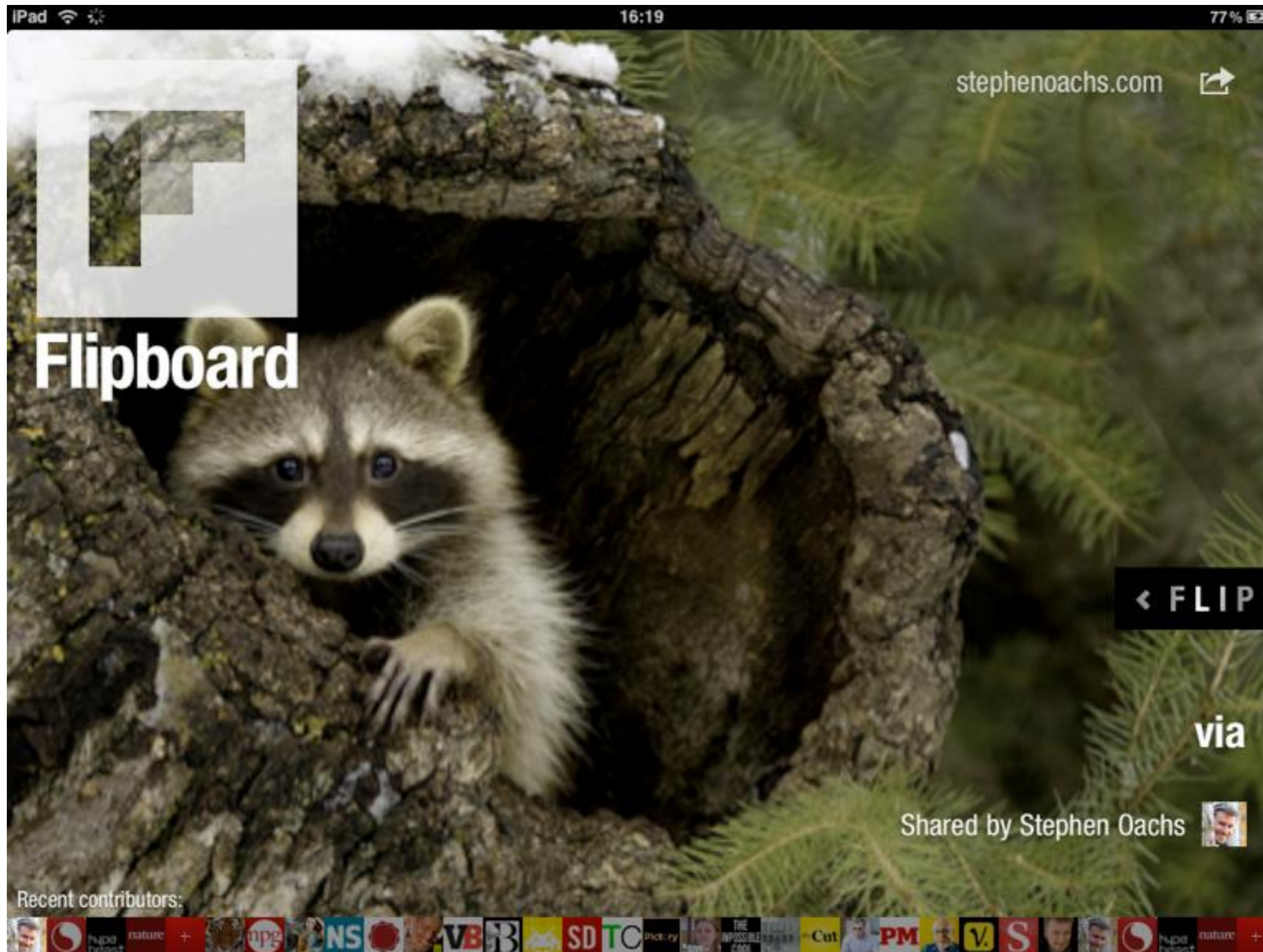
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Before, during and after the event

Alerting & aggregation in the iPad age

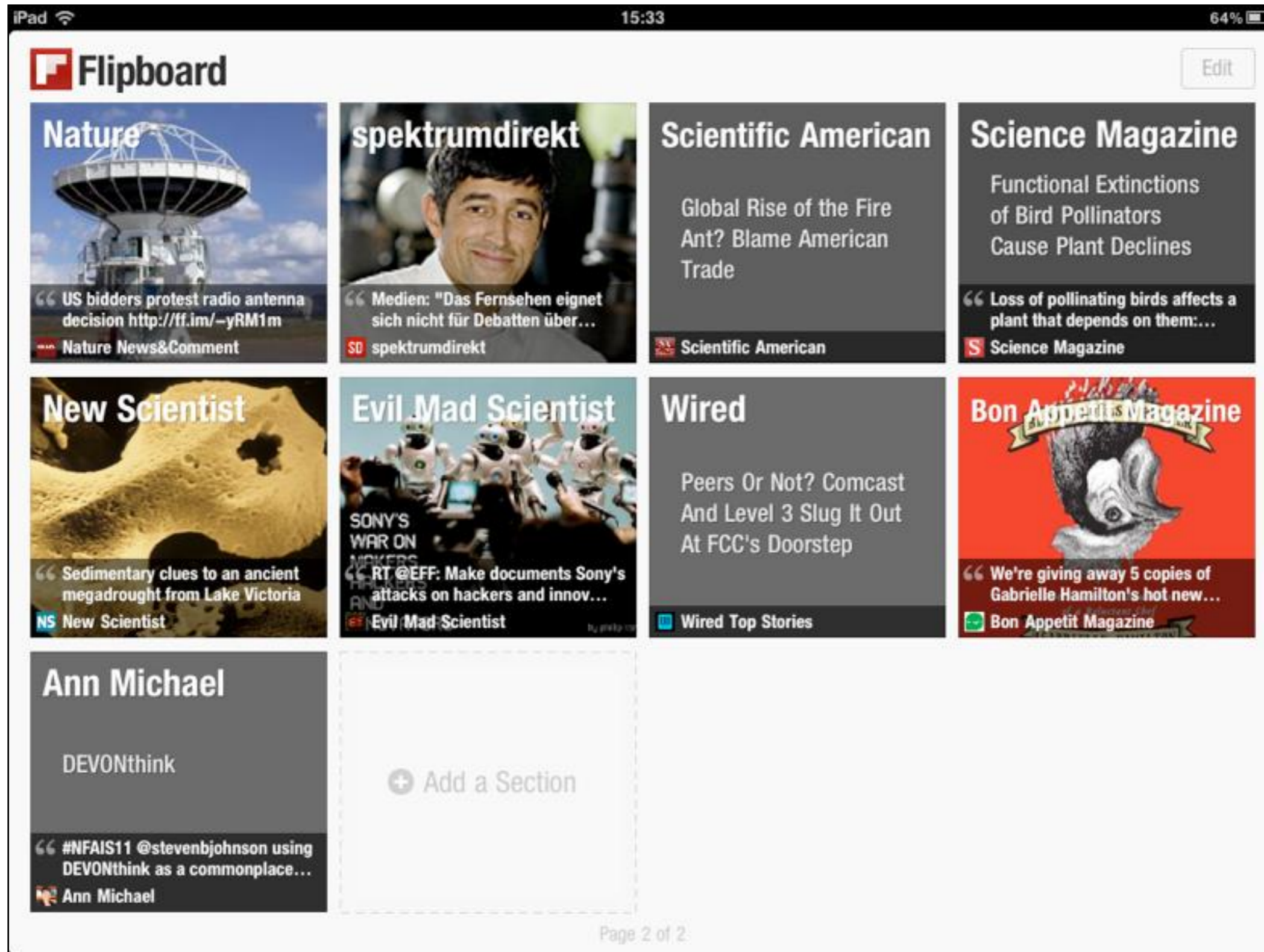


“Flipboard has a core quality that makes it special: it turns noise into signal...

...more than an aggregator, it is an improver of content...

...it turns [a Twitter feed] into a readable, coherent, content spread.”

Connections translate into a social book



User selects
Twitter feeds

FlipBoard app
looks for the
content the feeds
link to and
formats it.

This is all done
automatically
across two hops:
iPad > Twitter
Twitter >
content

The software makes the magazine...

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Dark Worlds: A Journey to a Universe of Unseen Matter

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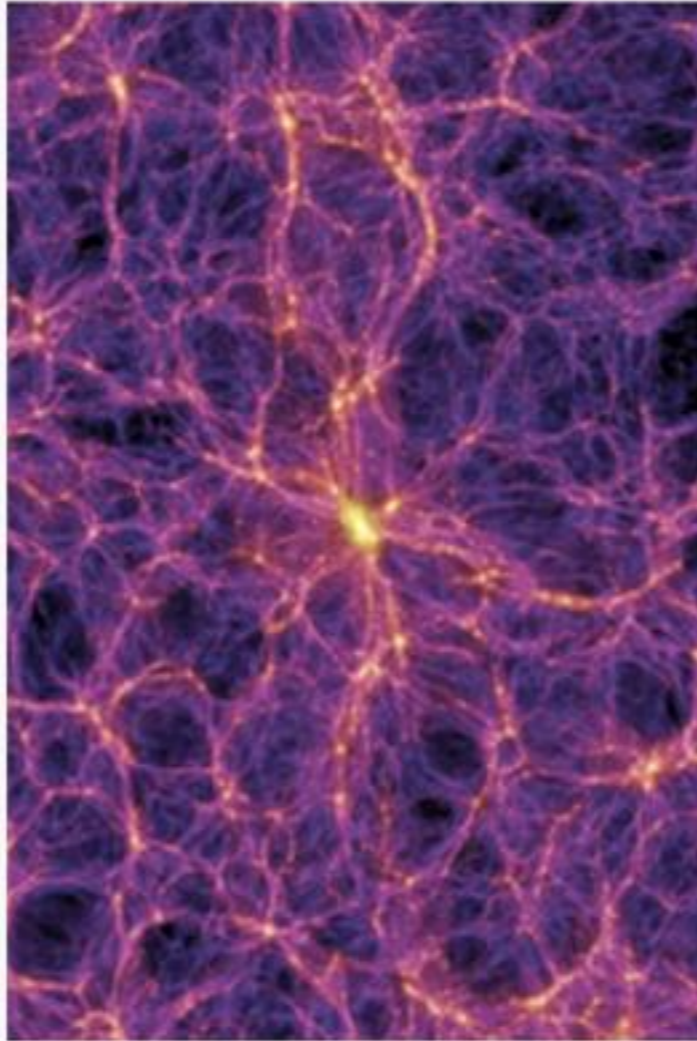
scientificamerican.com - In Brief

Scientists have two independent reasons for thinking that the cosmos is filled with some unknown form of matter, dark matter. Not only do stars, galaxies and gas clouds move as if they are being tugged by the gravity of hidden material, but processes such as radioactivity present puzzles that can be solved by the existence of hitherto unknown particles.

Dark matter is usually assumed to consist of WIMPs, a kind of particle that scarcely interacts with the visible world. Boringness is its sine qua non.

Or at least that is the usual assumption. Might dark matter in fact have a rich inner life? Particle physicists striving to understand what makes up dark matter think it could interact through a full range of forces, including a form of light to which our eyes are totally blind.

On September 23, ...



Dark Worlds: A Journey to a Universe of Unseen Matter

Shared by Scientific American

scientificamerican.com - Does a universe of dark matter exist alongside ours, but hidden

“Mariette DiChristina will be at #sciwr10 RT @SAeditorinchief: Coming to ScienceWriters meeting? I'm at story-pitch session on Saturday.

Scientif...merican 3 hours ago

Latest Monday

Tap a source to view its virtual publication.

Each source is formed into a newspaper-like layout.

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...not the publisher

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Academia: The changing face of tenure
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Biologist Rafael Carazo Salas doesn't have tenure — nor is he expecting to pursue the tenure-track system any time soon. As a faculty member at a UK institution, he doesn't have that option — academic tenure per se in the United Kingdom was abolished more than 20 years ago.
But Carazo Salas, a group leader at the University of Cambridge, UK, isn't lying awake at night trying to dream up

Why so many rare variants?
Shared by NatureNews
blogs.nature.com - Unsurprisingly, this year is about the 1000 Genomes Project, the eagerly awaited pilot data for which was published last week. One of the main take-home messages from the analysis has been the huge number of rare variants the study has turned up so far.
In a talk earlier today, Andy Clark, a population geneticist at Cornell University, gave a tantalizing explanation for why rare variants are so numerous: population size. For millennia, population growth had been fairly static, but over the last couple centuries it has begun to shoot up wildly, with the

FierceBiotech's Top Writers in Biotech | Pharma Marketer
Shared by NatureNews
pharma-marketer.com - Thanks to the web, the biotech scene is teeming with writers with lots of insights to offer on the latest news and trends. With no hometown newspaper for an industry scattered around the globe, and precious few industry pubs worth subscribing to, the Internet has become the go-to place for anyone looking to stay up-to-the-minute on biopharma. Once news breaks it's first tweeted and then analyzed—usually in a matter of minutes. Within a few hours you can get a debate going. By next day, it's on to something

Latest Friday

Note the different layout between “publications” and within them.

The application applies random variations to create the illusion of a laid-out newspaper.

Badging and formatting content is critical for a quality experience.

Publisher mash-up with social media

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Academia: The changing face of tenure

Shared by NatureNews 1 hour ago on Twitter

The new tenure: It's not as prevalent as it once in some places -- and that may not be a bad thing. <http://bit.ly/c2Z14h>


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Biologist Rafael Carazo Salas doesn't have tenure — nor is he expecting to pursue the tenure-track system any time soon. As a faculty member at a UK institution, he doesn't have that option — academic tenure per se in the United Kingdom was abolished more than 20 years ago.

But Carazo Salas, a group leader at the University of Cambridge, UK, isn't lying awake at night trying to dream up ways to manoeuvre himself into a tenured or tenure-track research position. Funded by a portable five-year grant from the European



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Just four months after ScienceDirect content in physics was opened up to Google, more than a third of all traffic arrived via this route. This is particularly notable in a field richly endowed with online information resources.

**- E-journals: their use, value and impact,
RIN, April 2009**

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Author(s): All words

Nature Search: searching all journals

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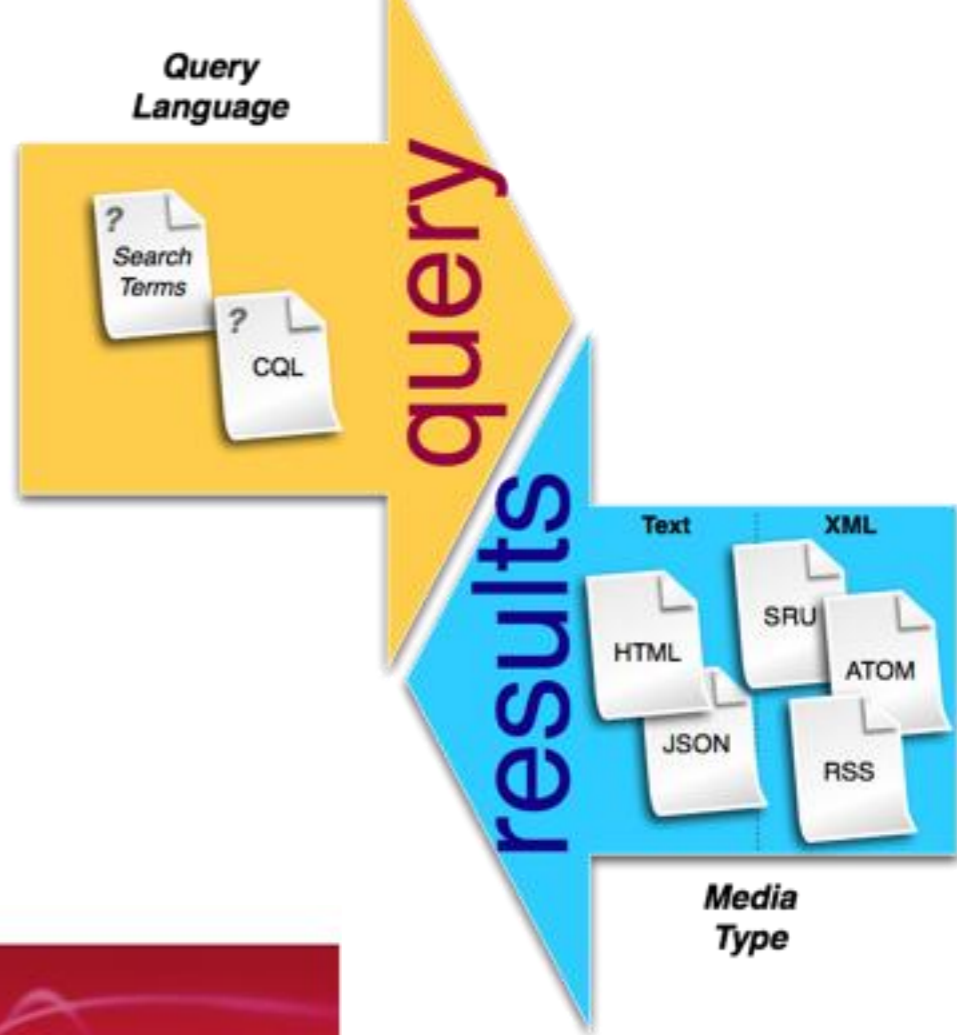
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| | N. P. SEN, W. F. MILES, PANALAKS, J. R. IYENGAR |
| #8: doi:10.1038/sj.ijo.0803341 | |
| | Joint association of coffee consumption, other factors to the risk of type 2 diabetes: a prospective study in Finland |
| | G Hu, P Jousilahti, M Peltanen, S Bidel, in International Journal of Obesity 30, April 2006) |
| | doi:10.1038/sj.ijo.0803341 |
| #9: doi:10.1038/ejcn.2009.116 | |
| | Patterns of free amino acids in German convenience food products: marked mismatch between label information and composition |
| | M Hermanussen, U Gonder, C Jakobs, D Stegemann, G Hoffmann |
| | in European Journal of Clinical Nutrition (23 September 2009) |
| | doi:10.1038/ejcn.2009.116 |



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Protein Measurement with the Folin Phenol Reagent

**Lowry, O. H., Rosebrough, N. J., Farr, A. L., and
Randall, R. J. (1951) J. Biol. Chem. 193, 265–275)**

**...a method for measuring the amount of
protein in solutions. As of January 2004, it
was cited
275,669 times**

Question: what's the difference?

<http://dx.doi.org/10.1101/gr.361602>

<http://www.genome.org/cgi/content/full/12/10/1611>

<http://www.genome.org/cgi/content/abstract/12/10/1611>

<http://genome.cshlp.org/content/12/10/1611.full>

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi...>

...?cmd=Retrieve&db=PubMed&list_uids=12368254&dopt=Abstract

...?cmd=Retrieve&db=PubMed&dopt=Citation&list_uids=12368254

...?cmd=Retrieve&db=pubmed&dopt=Abstract&list_uids=12368254...

...&query_hl=1&itool=pubmed_docsum

...&query_hl=42&itool=pubmed_docsum

...?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=12368254

4

...&query_hl=42&itool=pubmed_docsum

Answer: there is none

They all refer to the *same* article.

The Bioperl Toolkit: Perl Modules for the Life Sciences

Genome Research

Genome Res. 2002. 12:1611-1618

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..and even then exclude...

Any proxied links e.g.

<http://genome.cshlp.org.ezproxy.harvard.edu/content/12/10/1611.full>

Representations on any other abstract databases e.g. Scopus

(There is no easy to infer the URLs use to refer to an article.)

Formally, (Print) page numbers prevalent?

Tumour-infiltrating regulatory T cells stimulate mammary cancer metastasis through RANKL–RANK signalling. Wei Tan, Weizhou Zhang, Amy Strasner, Sergei Grivennikov, Jin Q. Cheng, Robert M. Hoffman & Michael Karin

Nature 470, 548–553 (24 February 2011)

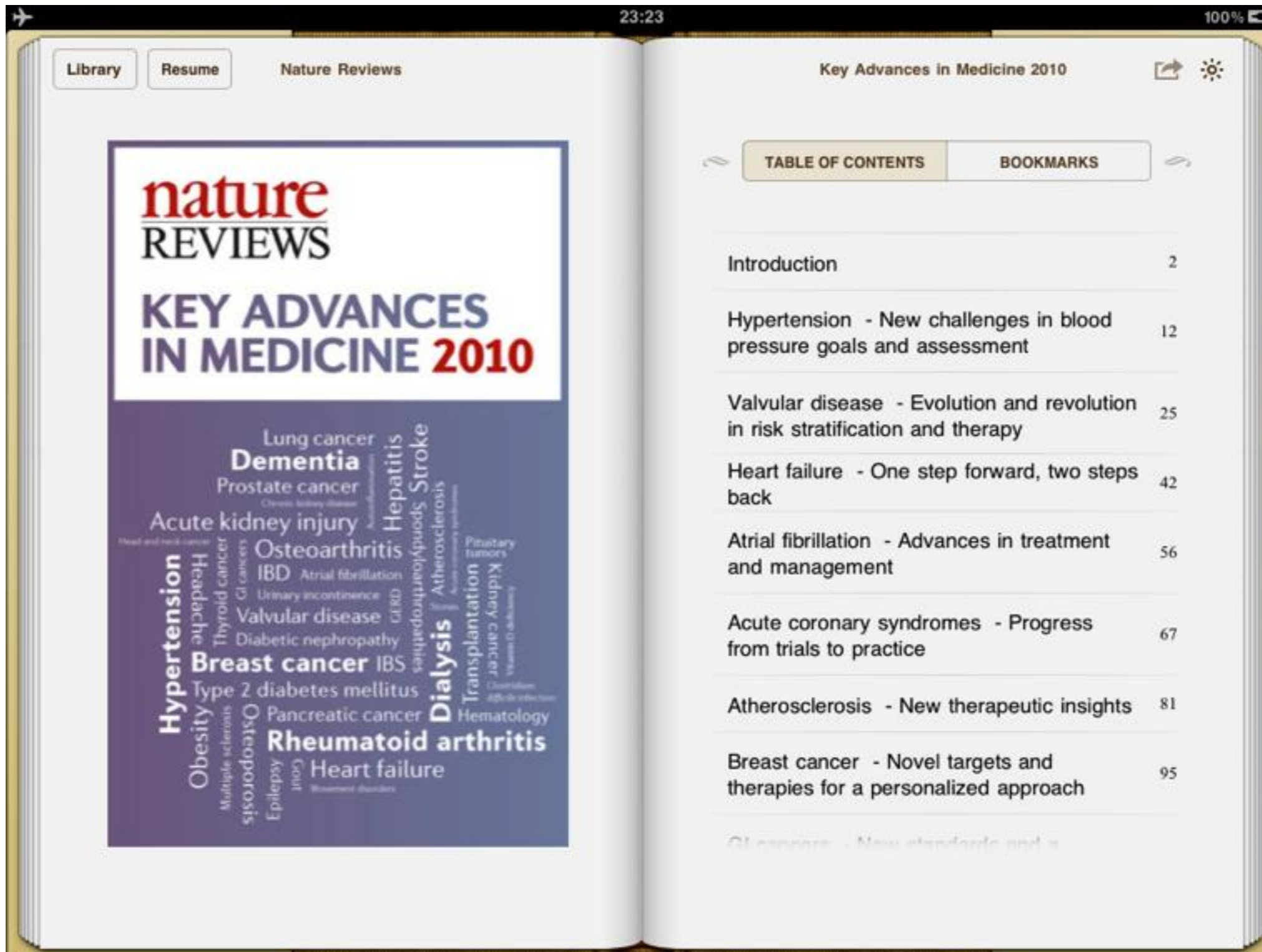
doi:10.1038/nature09707

Fat cells reactivate quiescent neuroblasts via TOR and glial insulin relays in Drosophila. Rita Sousa-Nunes, Lih Ling Yee & Alex P. Gould.

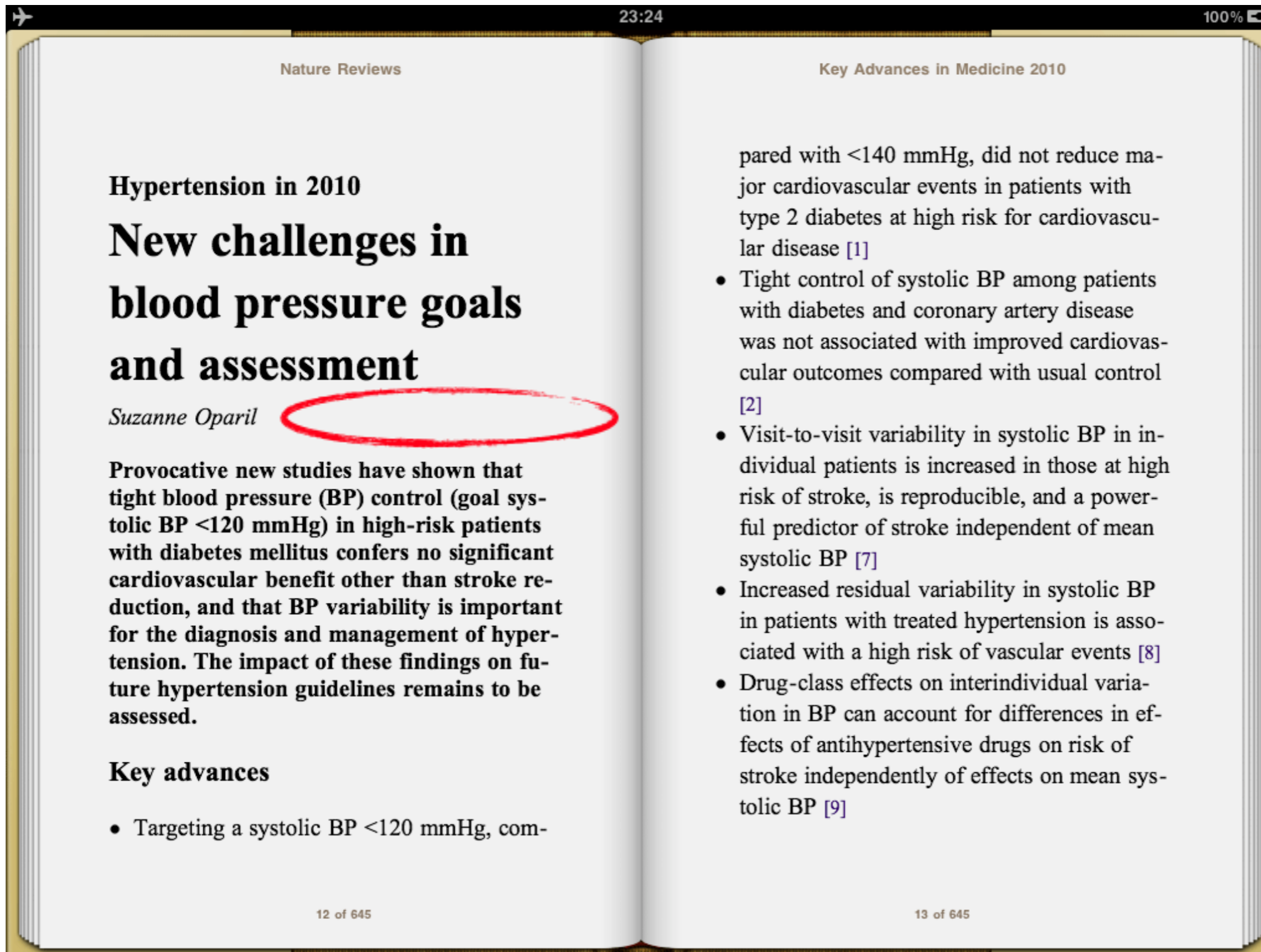
Nature (2011) doi:10.1038/nature09867

[Accessed 26 Feb 2011]

But even then...



How to cite out of context?



How do we cite this article?

Nature Reviews Cardiology 8, 73-75 (27 January 2011)

doi:10.1038/nrcardio.2010.20

Hypertension in 2010

New challenges in blood pressure goals and assessment

Suzanne Oparil

Provocative new studies have shown that tight blood pressure (BP) control (goal systolic BP <120 mmHg) in high-risk patients with diabetes mellitus confers no significant cardiovascular benefit other than stroke reduction, and that BP variability is important for the diagnosis and management of hypertension. The impact of these findings on future hypertension guidelines remains to be assessed.

Key advances

- Targeting a systolic BP <120 mmHg, com-

pared with <140 mmHg, did not reduce major cardiovascular events in patients with type 2 diabetes at high risk for cardiovascular disease [1]

- Tight control of systolic BP among patients with diabetes and coronary artery disease was not associated with improved cardiovascular outcomes compared with usual control [2]
- Visit-to-visit variability in systolic BP in individual patients is increased in those at high risk of stroke, is reproducible, and a powerful predictor of stroke independent of mean systolic BP [7]
- Increased residual variability in systolic BP in patients with treated hypertension is associated with a high risk of vascular events
- Drug-class effects on interindividual variation in BP can account for differences in effects of antihypertensive drugs on risk of stroke independently of effects on mean systolic BP [9]

13 of 645

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Hypertension in 2010

New challenges in blood pressure goals and assessment

Suzanne Oparil

Provocative new studies have shown that tight blood pressure (BP) control (goal systolic BP <120 mmHg) in high-risk patients with diabetes mellitus confers no significant cardiovascular benefit other than stroke reduction, and that BP variability is important for the diagnosis and manage-

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Key advances

- Targeting a systolic BP <120 mmHg, compared with <140 mmHg, did not reduce major cardiovascular events in patients with type 2 diabetes at high risk for cardiovascular disease [1]
- Tight control of systolic BP among patients with diabetes and coronary artery disease was not associated with improved cardiovascular outcomes compared with usual control [2]
- Visit-to-visit variability in systolic BP in individual patients is increased in those at high risk of stroke, is reproducible, and a powerful predictor of

17 of 850

16 pages left in this chapter

Progress?

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Language: English

ASIN: B00348UMSA

Average Customer Review: ★★★★★ (37)

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Kindle

Description

The Kindle app is optimized for the iPad, iPhone, and iPod touch, providing a beautiful, easy-to-use interface. You'll have access to all the books and new releases. Amazon Whispersync automatically syncs your progress across devices (including Kindle), so you can pick up where you left off.

+ UPDATE

Category: Books
Updated: Feb 14, 2011
Current Version: 2.6
iOS 4.0 Tested
Size: 9.2 MB
Language: English
Seller: Reinke LLC
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Rated 4+

What's New in Version 2.6 Updated Feb 14, 2011

- Real page numbers for thousands of books in the Kindle Store, with more coming soon. Now you can make proper citations in the classroom or follow along with people reading print books in a book club.
- View your percentage completed while reading on iPhone.
- Home screen now shows your progress through books on iPhone and on iPad in list view.
- Lookup words on Google and Wikipedia without leaving the app.

What's New in Version 2.6 Updated Feb 14, 2011

- Real page numbers for thousands of books in the Kindle Store,

App Support

Application License Agreement

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**The single
biggest
problem in
communication
is the illusion
that it has
taken place.**

**George
Bernard Shaw**

