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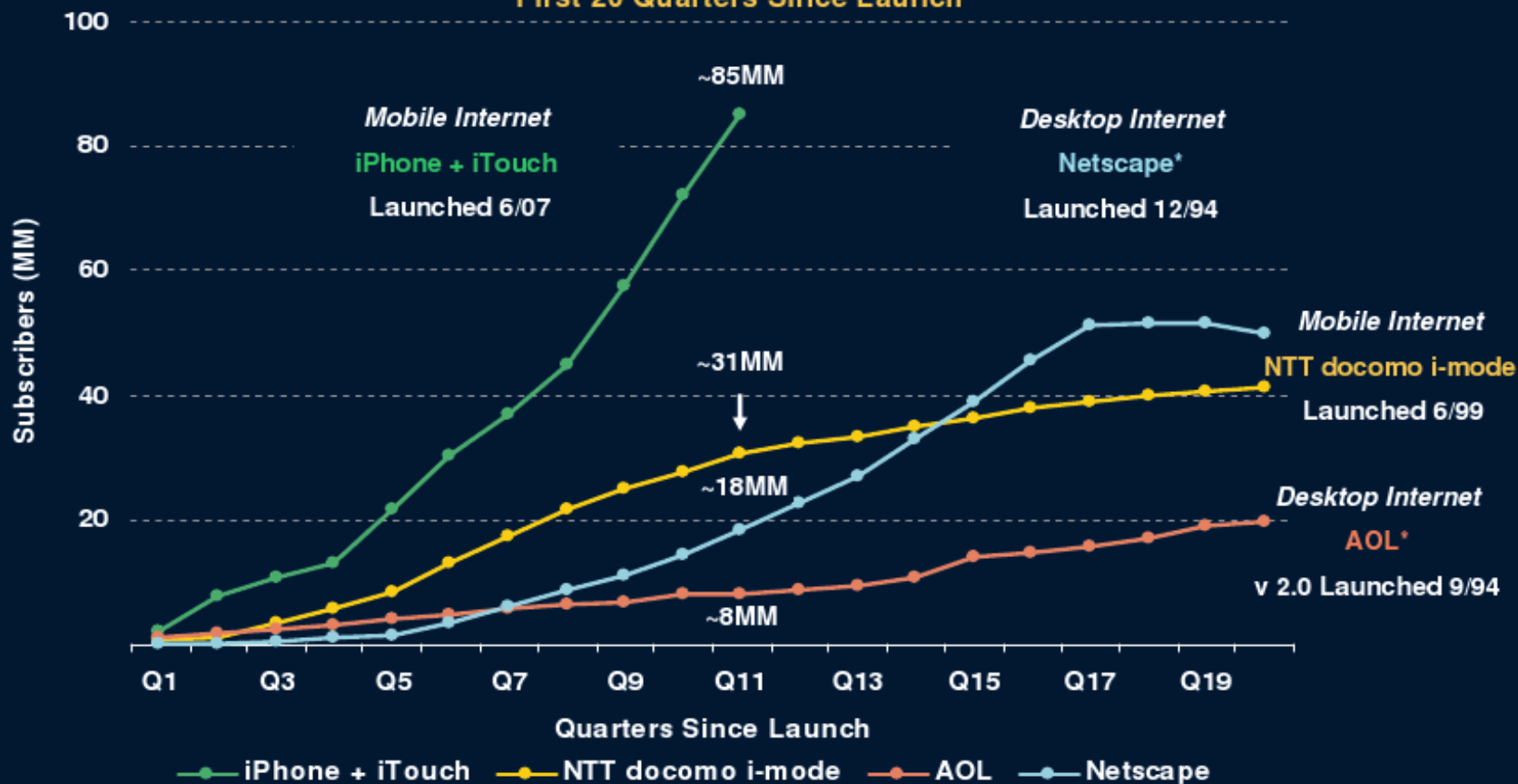


Photo by Sol Goldberg

STM

Mobile Internet Ramping Faster than Desktop Internet Did – Apple Leading Charge

iPhone + iTouch vs. NTT docomo i-mode vs. AOL vs. Netscape Users
First 20 Quarters Since Launch

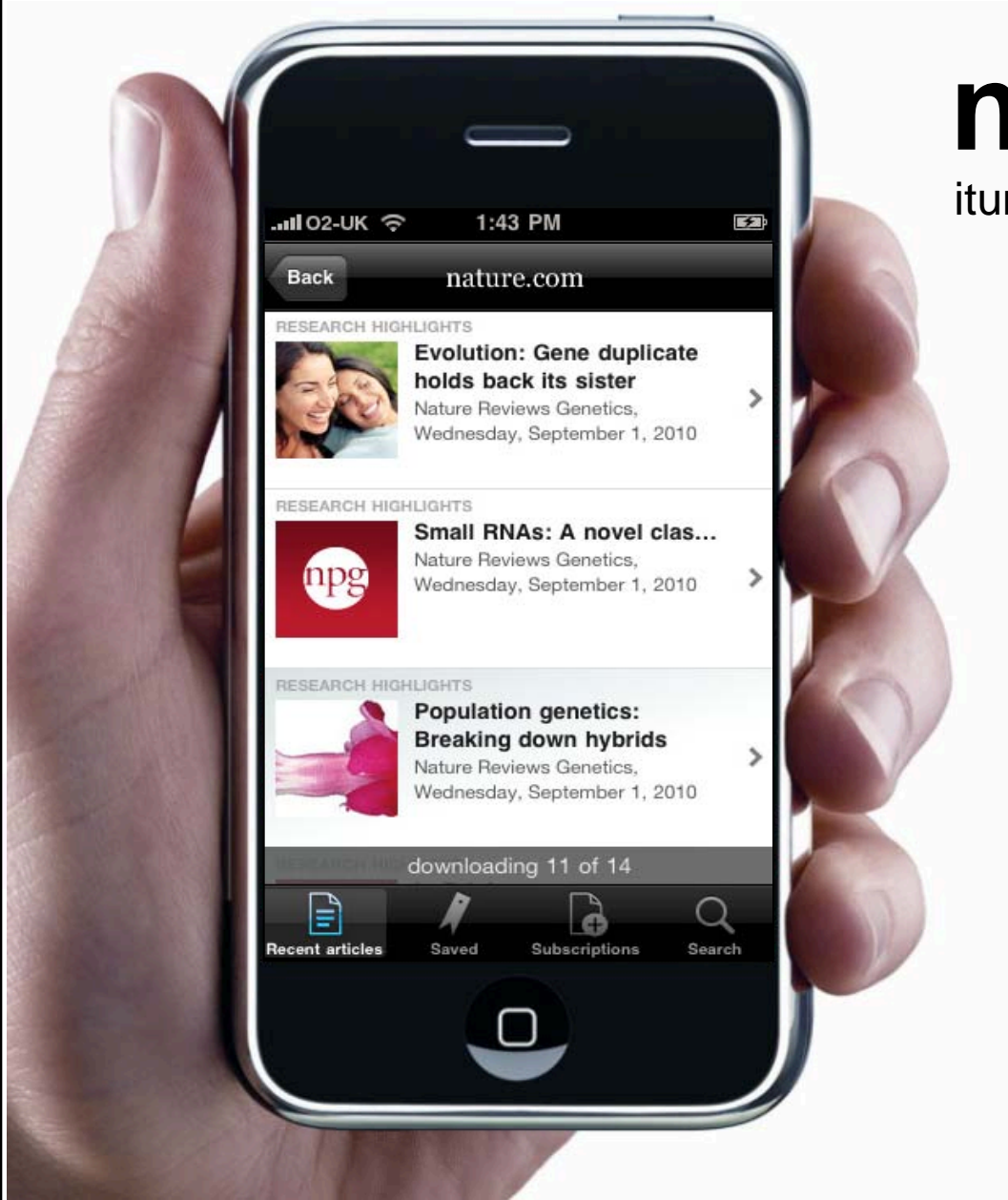


Morgan Stanley

Note: *AOL subscribers data not available before Q3:94; Netscape users limited to US only. Morgan Stanley Research estimates ~50MM netbooks have shipped in first 10 quarters since launch (10/07). Source: Company Reports, Morgan Stanley Research. 7

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NEWS

Solar System older than previously thought

BY ADAM MANN



The origin of the Solar System may have been within a cloud of gas and dust like that of the

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LETTER

Enzyme-inhibitor-like tuning of Ca²⁺ channel connectivity with calmodulin

Xiaodong Liu, Philemon S. Yang, Wanjun Yang & David T. Yue

Ca²⁺ channels and calmodulin (CaM) are two prominent signalling hubs [1](#) that synergistically affect functions as diverse as cardiac excitability [2](#), synaptic plasticity [3](#) and gene transcription [4](#). It is therefore fitting that these hubs are in some sense coordinated, as the opening of Ca_v1–2 Ca²⁺ channels are regulated by a single CaM constitutively complexed with channels [5](#). The Ca²⁺-free form of CaM (apoCaM) is already pre-associated with the isoleucine–glutamine (IQ) domain on the channel carboxy terminus, and subsequent Ca²⁺ binding to this 'resident'

T-Mobile 20:49

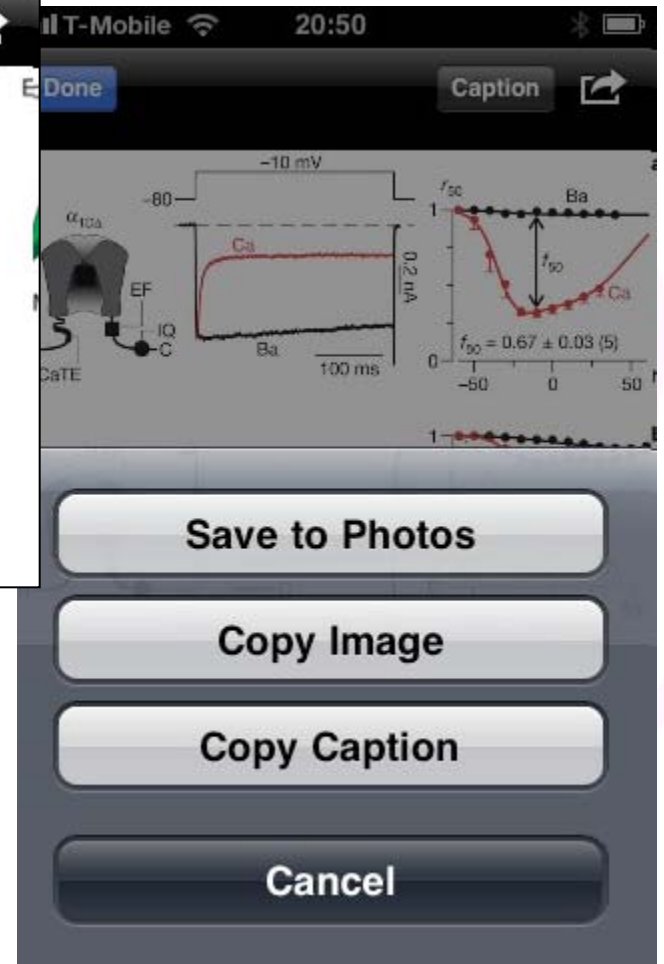
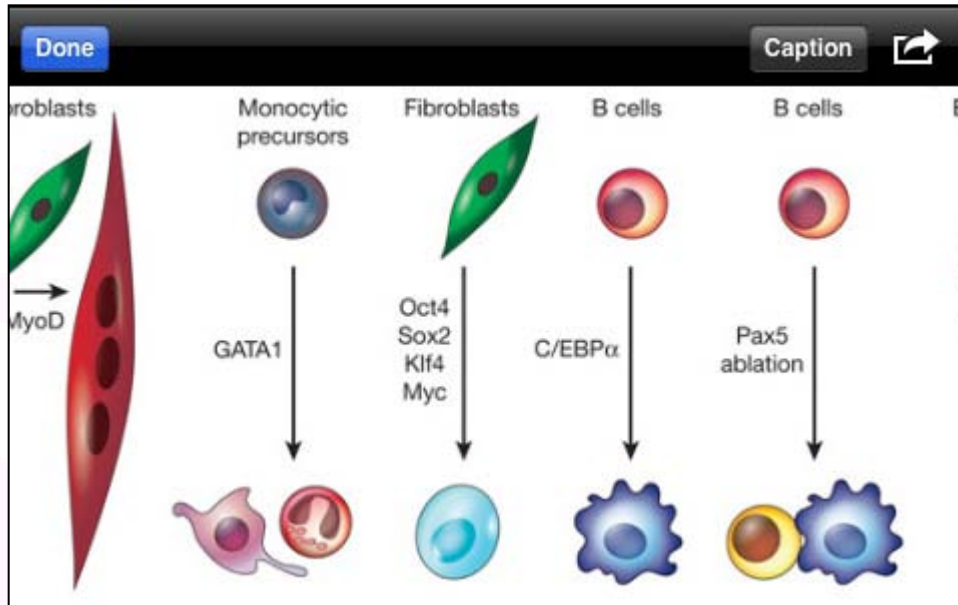
Erickson, M. G. , Liang, H. , Mori, M. X. & Yue, D. T.

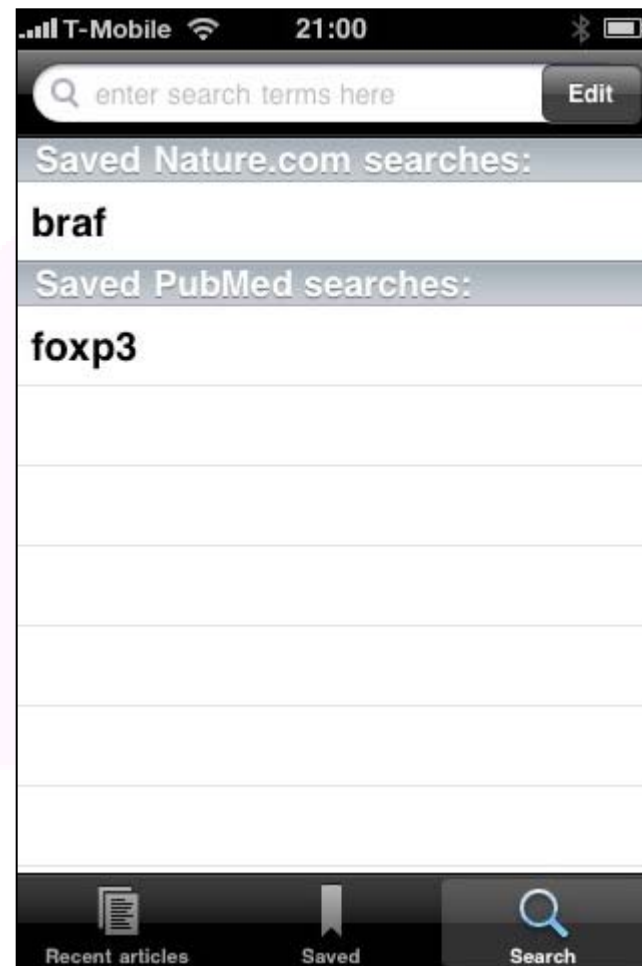
FRET two-hybrid mapping reveals function and location of L-type Ca²⁺ channel CaM preassociation

Neuron **39**, 97–107 (2003)

[View this article on the publisher's website.](#)

Screenshots from Martin Fenner





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- Apple do not give you conversion rates



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EDITORIAL

Nature's first iPad app builds on our recent special issue commemorating the 10th anniversary of

The human genome

Magdalena Skipper, Nature's genetics editor, describes the genome project and its legacy.

Nearly a decade on from the draft sequence of the genome, researchers should work with the data and focus to apply the results.

The race to complete the first human genome sequence had everything its audience enthralled — right down to a neck-and-neck sprint for the finish line. In the end, the result was basically a tie. The rivals — the international Human Genome Project and the private, for-profit company Celera Genomics, Inc., Maryland — jointly announced the completion of their draft sequences at a televised press conference attended by US President Bill Clinton and UK Prime Minister Tony Blair. The White House press statement articulated the hope, felt by many

COVER CONTENTS NATURE.COM

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1 **WATSON'S GENOME**
In 2008, Jonathan Rothberg of the Rothberg Institute for Childhood Diseases sequenced the genome of James Watson, co-discoverer of the molecular structure of DNA. Not only that, but he did it in record time! We asked him how he and his team managed to transform the art of genome sequencing.

2 Jonathan Rothberg on James Watson's reaction to having his genome sequenced.

3 **CANCER GENOMES**
In 2008, a team from Washington University identified 10 mutations in the cancerous tissue of a patient with acute myeloid leukaemia (AML) to determine how cancer progresses at the most basic genetic level. We asked team leader Elain Mardis about the possible therapeutic benefits of sequencing individual patients' tumours.

IMAGE OF BONE MARROW CELLS FROM THE SUBJECT OF THIS STUDY. CREDIT: COURTESY OF DEATHLEY











JAMES WATSON
CREDIT: COLD SPRING HARBOR LABORATORY/NIH

James Watson, a woman with acute myeloid leukemia, a Yoruba male from Nigeria and the first Asian genome

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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 the complexity of Maya agriculture have rivalled that of



Maya irrigation canals at "Birds of Paradise" site in northwest Belize.

Credit: S. Luzzadder-Beach

...sive excavations, Maya coped with ... by developing ... s in wetland areas. ... sive agriculture is ... with these other areas

...ys Timothy Beach, a physical geographer at Georgetown University in his findings on Wednesday at the Geological Society of America (GSA)

...ed one of the most advanced ancient societies, lived in sprawling and



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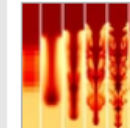
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OBITUARY

Georges Charpak

(1924–2010)

Physicist who transformed the measurement of high-energy particles.

Physicist and campaigner, Georges Charpak has left an enduring mark on science, technology and education. His invention of a type of particle detector — the multiwire proportional chamber — revolutionized the collection of data from high-energy physics experiments. The device allowed physicists to detect new particles and so test fundamental theories about the nature of matter. Modern variants of the detector are still used in high-energy particle accelerators.



Charpak, who died on 29 September, was born in eastern Poland to a poor Jewish family. When he was seven, the family moved to Paris, lured by France's healthier economy. After France surrendered to Germany in 1940, Charpak refused to wear the yellow Star of David, required by Nazi authorities to identify Jews, and he became active in the French Resistance. He was imprisoned by the Vichy government of France in 1943 before being transferred to the Dachau concentration camp in 1944. He survived because the German guards did not realize that their political prisoner was actually Jewish.

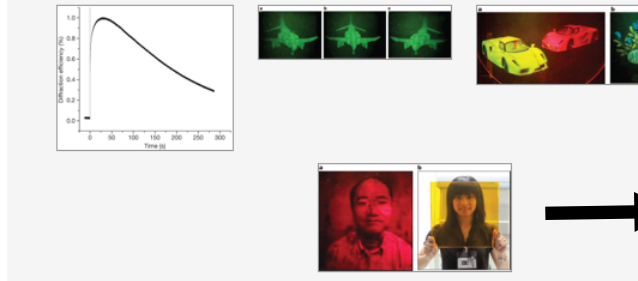
After the war, Charpak became a French citizen. In 1954, he received his doctorate in nuclear physics from the Collège de France in Paris where he studied in the laboratory of the Nobel laureate Frédéric Joliot-Curie. He devoted his early career to nuclear physics before switching to high-energy particle physics under the guidance of Leon Lederman at CERN, Europe's particle-physics laboratory near Geneva, Switzerland.

LETTER

Holographic three-dimensional telepresence using large-area photorefractive polymers

BY P.-A. BLANCHE, A. BABLUMIAN, R. VOORAKARANAM, C. CHRISTENSON, W. LIN, T. WANG, W.-Y. HSIEH, M. KATHAPERUMAL, B. RACHWAL, O. SIDDIQUI, J. THOMAS, R. 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 dynamically updatable holographic recording media ² have prevented realization of the concept.

Here we use a holographic stereographic technique ³ and a photorefractive polymer material as the recording medium ⁴ to demonstrate a holographic display that can refresh images every two seconds. A 50 Hz nanosecond pulsed laser is used to write the holographic pixels ⁵. Multicoloured holographic 3D images are produced by using angular multiplexing, and the full parallax display employs spatial 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 printed with the quasi-real-time dynamic 3D display. Further improvements could bring applications in telemedicine, prototyping, advertising, updatable 3D maps and entertainment.

3D display technology is attracting much public attention; events include the recent release of 3D films 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 demonstration of 3D televisions by some manufacturers (<http://www.3dsource.com/>). As dramatic as these effects are, the

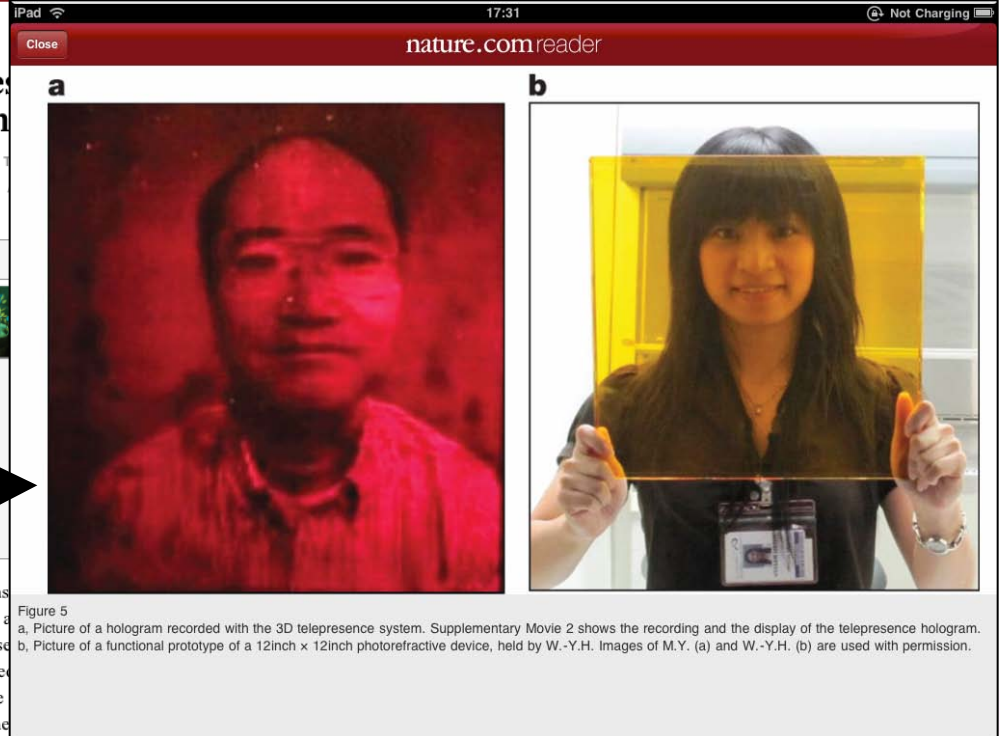
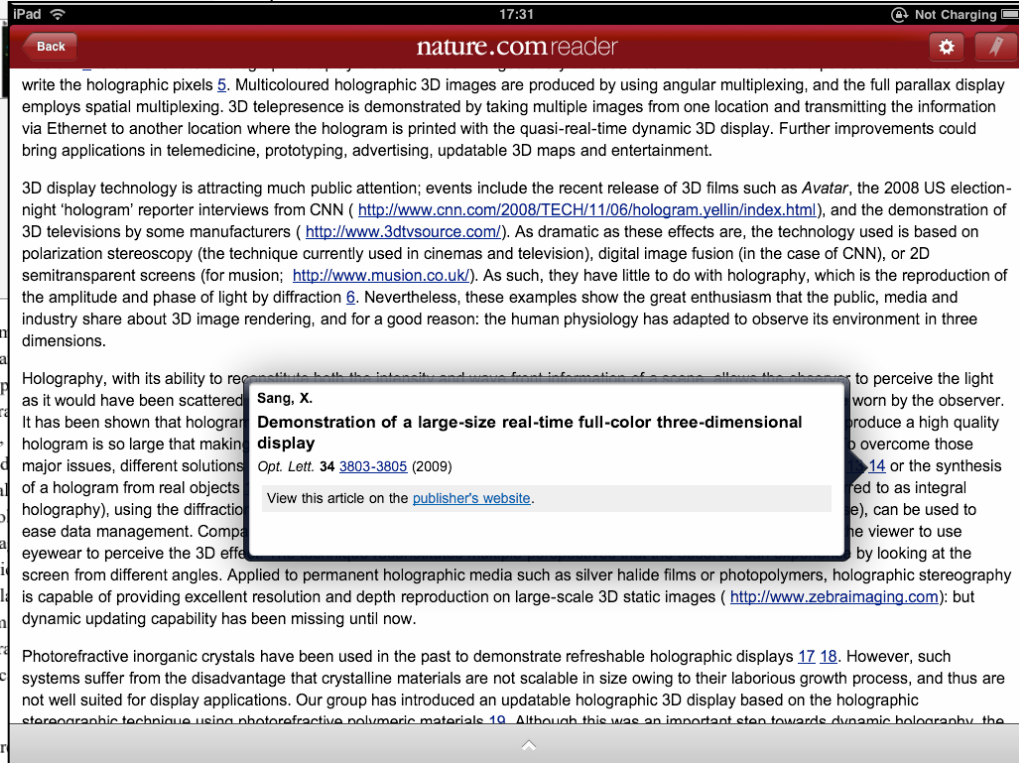
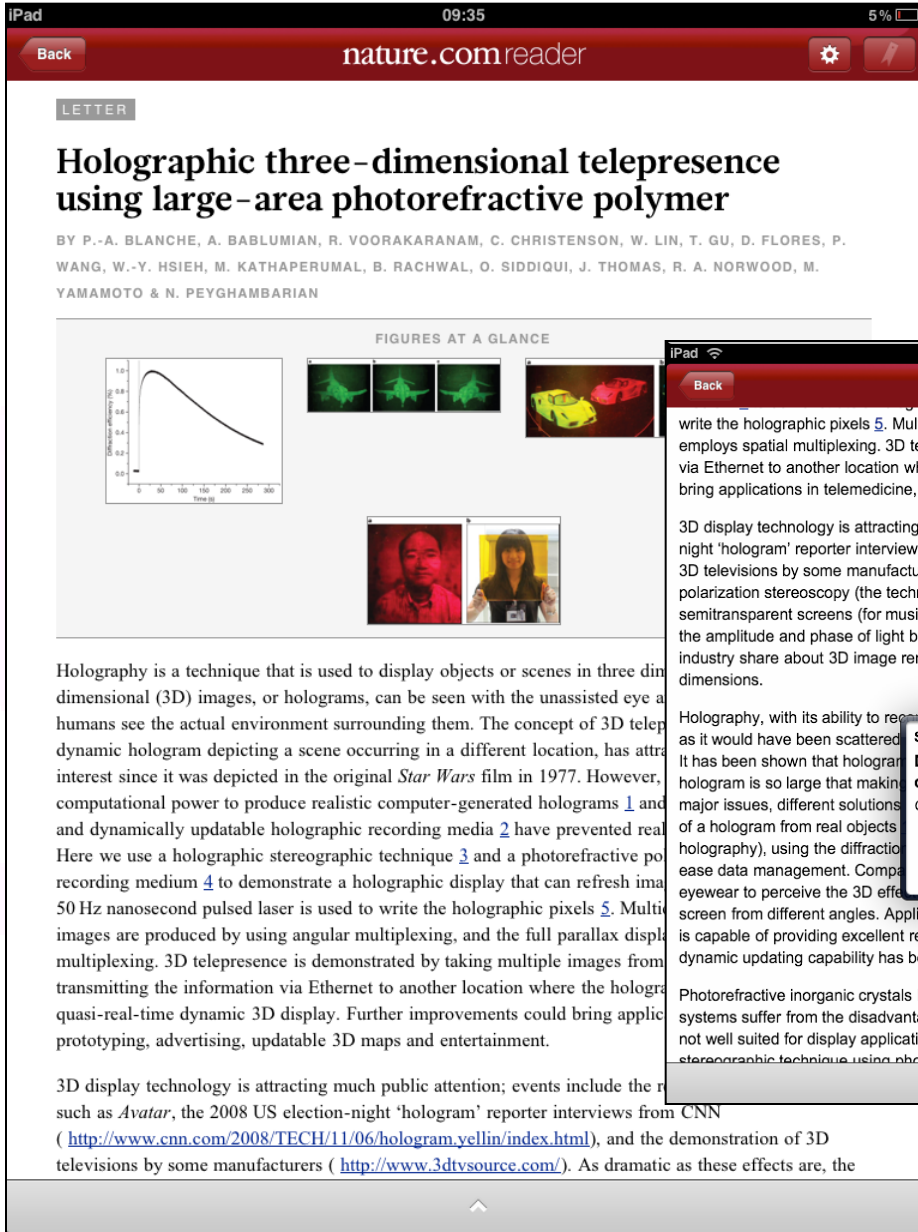


Figure 5
 a, Picture of a hologram recorded with the 3D telepresence system. Supplementary Movie 2 shows the recording and the display of the telepresence hologram.
 b, Picture of a functional prototype of a 12inch x 12inch photorefractive device, held by W.-Y.H. Images of M.Y. (a) and W.-Y.H. (b) are used with permission.



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