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Bad Boy Scientism

by Pete Shanks Austen Heinz of Cambrian Genomics has been spouting provocative opinions to get attention. And it seems to be working, from his point of view.

Two Neuroscientists Who Get It Right

by Jessica Cussins Two UC San Diego neuroscientists have created a "Roadmap to a New Neuroscience." It is a status-quo-shifting kind of amazing.

The Future of Conception

by Jessica Cussins Numerous writers took advantage of the ending year to look broadly at just how drastically we are changing the process of baby-making, and what it all means for society.









CIRM 2.0

by Pete Shanks

The California Institute for Regenerative Medicine is attempting a "reboot" in an effort to accelerate the development of cures, though its critics remain skeptical.



NEWS

Controversial DNA Startup Wants to Let Customers Create Creatures

[Quotes CGS's Marcy Darnovsky]

by Stephanie M. Lee, San Francisco Chronicle

With the latest technology and generous funding, a growing number of startups are taking science and medicine to the edge of science fiction.

Discovery, Guided by Morality

by John Markoff, *The New York Times* A neuroscience lab ponders the purpose of its research.

Commercialized Conception Casualties: "Brave" Baby Making?

by Mirah Riben, *Huffington Post* Hiring surrogates and purchasing sperm, eggs, or others' leftover frozen embryos, have become accepted as choices on a menu of options.

The High-Tech Future of the Uterus

by Katherine Don, *The Atlantic* Following the recent success of the world's first uterus transplant, scientists are pursuing the new frontier of the bioengineered womb.

How the Rise of Commercial Surrogacy is Turning Babies into

Commodities

by Clair Achmad, *The Conversation* This year the international spotlight turned with fullforce on cross-border commercial surrogacy.

Gender Selection in a Brave New World

by John Kass, *Chicago Tribune* Jayne and Jon Cornwill, an Australian couple, recently came to America with a bit of trouble. What the Cornwills wanted was a little girl.

23andMe's New Formula: Patient Consent = \$

by Antonio Regalado, *MIT Technology Review* How a consumer genetics company amassed a lucrative database of willing research participants.

Every Patient a Subject: When personalized medicine, genomic research, and privacy collide

by Jennifer J. Kulynych and Hank Greely, *Slate* Current norms permit a scientist who gets a sample of blood, tissue, or saliva to sequence and use that genome without the donor's consent, or even without her knowledge.

Commercial DNA Testing May Cause Harm, Scientific Studies Show (If You Read Through to the Study Limitations at the End) by Cecile Janssens, Huffington Post After the FDA urged 23andMe to stop marketing its personal genome test in the US, the world's largest direct-to-consumer genetics company relaunched the test in Canada and the United Kingdom.

State Courts Strike Blows to Criminal DNA Collection Laws in 2014— What to Look for in 2015

by Jennifer Lynch, *Electronic Frontier Foundation* The "slippery slope toward ever-expanding warrantless DNA testing" is already upon us. But recent state cases provide reason for hope.

Pharmacogenomics and the Biology of Race

by Myles Jackson, *The Huffington Post* Why is race the privileged category used by biomedical researchers in understanding human diversity?

White? Black? A Murky Distinction Grows Still Murkier

by Carl Zimmer, *The New York Times* There is a long tradition of trying to draw sharp lines between ethnic groups, but our ancestry is a fluid and complex matter, geneticists say.

Ten Years In, California's Stem Cell Program is Getting a Reboot

by Michael Hiltzik, *Los Angeles Times* The new president of California's stem cell agency is planning to launch CIRM 2.0, a comprehensive reboot of the program.

Scientists Use Skin Cells to Create Artificial Sperm and Eggs

by Ian Sample, *The Guardian* Researchers in Cambridge converted adult skin tissue into precursors for sperm and eggs.

Breaking: New FDA Draft Guidance Views Fat Stem Cells As Drugs

by Paul Knoepfler, *Knoepfler Lab Stem Cell Blog* With a new document released, the FDA is more clearly on a path to regulate dubious stem cell clinics in the US.

Scientist Who Had Claimed Stem Cell Breakthrough Resigns From Japanese Research Institute

by Martin Fackler, The New York Times

A government-backed research institute accepted the resignation of one of its highest-profile scientists after she failed to replicate earlier stem cell research results.

2014 in Biomedicine: Rewriting DNA, Decoding the Brain, and a GMO Paradox

by Antonio Regalado, *MIT Technology Review* From genetically modified foods to gene therapy, 2014 was a big year for rewriting biology.

Time for the Social Sciences

Nature Editorial

Governments that want the natural sciences to deliver more for society need to show greater commitment towards the social sciences and humanities.

Most Types of Cancer Largely Down to Bad Luck Rather Than

Lifestyle or Genes

The Guardian

Random DNA mutations are largely responsible for two thirds of adult cancers but poor lifestyle can add to the "bad luck factor," according to a new study.
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