

## Supplementary 2013 Life Science Paper 2 Memo

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### Supplementary 2013 Life Science Paper

Lithium-ion batteries are deployed in a wide range of applications due to their low and falling costs, high energy densities and long lifetimes 1,2,3. However, as is the case with many chemical ...

### Data-driven prediction of battery cycle life before ...

Global life expectancy at birth for both sexes increased from 65.3 years in 1990, to 71.5 years in 2013, an average increase of 0.27 years per calendar year. Life expectancy increased over this period by 6.6 years for females and 5.8 years for males.

### Global, regional, and national age-sex specific all-cause ...

Bacteria are well-known residents in human tumors, but whether their presence is advantageous to the tumors or to the bacteria themselves has been unclear. As an initial step toward addressing this question, Nejman et al. produced an exhaustive catalog of the bacteria present in more than 1500 human tumors representing seven different tumor types (see the Perspective by Atreya and Turnbaugh).

### The human tumor microbiome is composed of tumor ... - Science

Forests worldwide are in a state of flux, with accelerating losses in some regions and gains in others. Hansen et al. (p. [850][1]) examined global Landsat data at a 30-meter spatial resolution to characterize forest extent, loss, and gain from 2000 to 2012. Globally, 2.3 million square kilometers of forest were lost during the 12-year study period and 0.8 million square kilometers of new ...

### High-Resolution Global Maps of 21st-Century ... - Science

Lacking money or time can lead one to make poorer decisions, possibly because poverty imposes a cognitive load that saps attention and reduces effort. Mani et al. (p. [976][1]; see the Perspective by Vohs) gathered evidence from shoppers in a New Jersey mall and from farmers in Tamil Nadu, India. They found that considering a projected financial decision, such as how to pay for a car repair ...

### Poverty Impedes Cognitive Function | Science

Effect sizes are the most important outcome of empirical studies. Most articles on effect sizes highlight their importance to communicate the practical significance of results. For scientists themselves, effect sizes are most useful because they facilitate cumulative science. Effect sizes can be

used to determine the sample size for follow-up studies, or examining effects across studies.

### **Frontiers | Calculating and reporting effect sizes to ...**

Summary: There is no standard definition of what constitutes a mass shooting, and different data sources—such as media outlets, academic researchers, and law enforcement agencies—frequently use different definitions when discussing and analyzing mass shootings. For instance, when various organizations measure and report on mass shootings, the criteria they use in counting such events might ...

### **Mass Shootings in the United States | RAND**

An accurate perception of the degree of scientific consensus is an essential element to public support for climate policy (Ding et al 2011). Communicating the scientific consensus also increases people's acceptance that climate change (CC) is happening (Lewandowsky et al 2012). Despite numerous indicators of a consensus, there is wide public perception that climate scientists disagree over the ...

### **Quantifying the consensus on anthropogenic global warming ...**

1. Introduction. Smart homes are one of the EU's 10 priority action areas in its Strategic Energy Technology Plan: "Create technologies and services for smart homes that provide smart solutions to energy consumers". Behind this strategic policy objective lies "the Commission's vision for the electricity market [which] aims to deliver a new deal for consumers, smart homes and network, data ...

### **Benefits and risks of smart home technologies - ScienceDirect**

Previous research found that the within-country variability of human values (e.g., equality and helpfulness) clearly outweighs between-country variability. Across three countries (Brazil, India, and the United Kingdom), the present research tested in student samples whether between-nation differences reside more in the behaviors used to concretely instantiate (i.e., exemplify or understand ...

### **Frontiers | Cross-Cultural Differences and Similarities in ...**

Implementation research is a growing but not well understood field of health research that can contribute to more effective public health and clinical policies and programmes. This article provides a broad definition of implementation research and outlines key principles for how to do it The field of implementation research is growing, but it is not well understood despite the need for better ...

### **Implementation research: what it is and how to do it | The BMJ**

1. Introduction. Over the past decades a substantial body of research has highlighted the positive effects of nature on human well-being (e.g. Hartig et al., 2014; MA, 2005; Russell et al., 2013; Sandifer et al., 2015). The Intergovernmental Science-Policy Platform for Biodiversity and Ecosystem Services (IPBES) has named these benefits and services Nature's Contributions to People (NCP) (Díaz ...

### **The importance of species diversity for human well-being ...**

Browse the archive of articles on Nature. An analysis also finds that obesity is common at a much younger age among people born in the early 1980s than those born in the late 1950s.

### **Browse Articles | Nature**

Energy use is central to human society and provides many health benefits. But each source of energy entails some health risks. This article reviews the health impacts of each major source of energy, focusing on those with major implications for the burden of disease globally. The biggest health impacts accrue to the harvesting and burning of solid fuels, coal and biomass, mainly in the form of ...

**Energy and Human Health | Annual Review of Public Health**

Measurements of trace gases in planetary atmospheres help us explore chemical conditions different to those on Earth. Our nearest neighbour, Venus, has cloud decks that are temperate but hyperacidic.

**Phosphine gas in the cloud decks of Venus | Nature Astronomy**

Acute liver failure is a rare but life-threatening critical illness requiring intensive care. This article reviews common causes, diagnostic approaches, and therapeutic interventions.

**Acute Liver Failure | NEJM**

Metabolic rate underlies a wide range of phenomena from cellular dynamics to ecosystem structure and function. Models seeking to statistically explain variation in metabolic rate across vertebrates are largely based on body size and temperature. Unexpectedly, these models overlook variation in the size of gills and lungs that acquire the oxygen needed to fuel aerobic processes.

**Respiratory capacity is twice as important as temperature ...**

There seems to be a common belief that women are better in multi-tasking than men, but there is practically no scientific research on this topic. Here, we tested whether women have better multi-tasking skills than men. In Experiment 1, we compared performance of 120 women and 120 men in a computer-based task-switching paradigm. In Experiment 2, we compared a different group of 47 women and 47 ...

**Are women better than men at multi-tasking? | BMC ...**

We would like to show you a description here but the site won't allow us.

**Action: SAGE Journals**

The possibility of life on Mars is a subject of interest in astrobiology due to its proximity and similarities to Earth. To date, no proof of past or present life has been found on Mars. Cumulative evidence suggests that during the ancient Noachian time period, the surface environment of Mars had liquid water and may have been habitable for microorganisms.