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Sep 26, 2022 · Empirical research is defined as any study whose conclusions are exclusively derived from concrete, verifiable evidence. The term empirical basically

means that it is guided by scientific experimentation and/or evidence. Likewise, a study is empirical when it uses real-world evidence in investigating its assertions.

**What Is Empirical Research? Definition, Types & Samples**

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Jul 26, 2022 · INTRODUCTION — Patients with skin and soft tissue infection may present with cellulitis, abscess, and other forms of infection [1]. This topic will discuss treatment of cellulitis and erysipelas. (Related Pathway(s): Cellulitis and skin abscesses: Empiric antibiotic selection for adults.) Clinical manifestations and diagnosis of cellulitis and erysipelas are discussed ...

### **Acute cellulitis and erysipelas in adults: Treatment - UpToDate**

*Helicobacter pylori* is the first formally recognized bacterial carcinogen and is one of the most successful human pathogens, as over half of the world's population is colonized with this gram-negative bacterium. Unless treated, colonization usually persists lifelong. *H. pylori* infection represents a key factor in the etiology of various gastrointestinal diseases, ranging from ...

### Pathogenesis of *Helicobacter pylori* Infection - PMC

Polypropylene (PP), also known as polypropene, is a thermoplastic polymer used in a wide variety of applications. It is produced via chain-growth polymerization from the monomer propylene.. Polypropylene belongs to the group of polyolefins and is partially crystalline and non-polar. Its properties are similar to polyethylene, but it is slightly harder and more heat resistant.

*Polypropylene - Wikipedia*

Efficient  $n = O$  bond activation is crucial for the catalytic reduction of nitrogen compounds, which is highly affected by the construction of active centers. In this study,  $n = O$  bond activation was achieved by a single-atom catalyst (SAC) with phosphorus anchored on a Co active center to form

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intermediate N-species for further hydrogenation and reduction.

Boosted ammonium production by single cobalt atom catalysts with - PNAS

School of Biomedical Sciences, Division of Infection and Immunity, University of Western Australia; Professor in Microbiology. Research interest in tuberculosis and in developing and testing point of care diagnostics suitable for the developing world.

*Adjunct Members | Institute Of Infectious Disease and Molecular ...*

Oct 28, 2020 · The SARS-CoV-2 pandemic and its unprecedented global societal and economic disruptive impact has marked the third zoonotic introduction of a highly pathogenic coronavirus into the human population.

*Coronavirus biology and replication: implications for SARS-CoV-2*

Jun 30, 2022 · Bacteriophages are obligate parasites of their bacterial hosts; nevertheless, on a population level, phage-bacterium interactions can have beneficial outcomes. In this Review, Shkoporov

### **Mutualistic interplay between bacteriophages and bacteria in**

Ozone (/ ' oʊ z oʊ n /), or trioxygen, is an inorganic molecule with the chemical formula O<sub>3</sub>. It is a pale blue gas with a distinctively pungent smell. It is an allotrope of oxygen that is much less stable than the diatomic allotrope O<sub>2</sub>, breaking down in the lower atmosphere to O<sub>2</sub> (). Ozone is formed from dioxygen by the action of ultraviolet (UV) light and electrical discharges within the

*Ozone - Wikipedia*

Feb 14, 2022 · Bioenergy is an essential component of most proposed pathways to reduce anthropogenic greenhouse gas (GHG) emissions and limit global warming to 1.5 or 2 °C by middle to late century (1-6). Liquid biofuels may contribute to bioenergy's share of climate mitigation by displacing petroleum-based fuels with those generated from modern-day plants (7, 8).

### **Environmental outcomes of the US Renewable Fuel Standard | PNAS**

Jul 26, 2022 · INTRODUCTION — Patients with skin and soft tissue infection may present with cellulitis, abscess, and other forms of infection [1]. This topic will discuss treatment of cellulitis and erysipelas. (Related Pathway(s): Cellulitis and skin abscesses: Empiric antibiotic selection for adults.) Clinical manifestations and

diagnosis of cellulitis and erysipelas are discussed ...

### **UpToDate**

Advanced oxidation processes based on Fenton-like catalysis have been a core decontamination technology to protect the aquatic environment. However, implementing such technologies in an economically affordable and environmentally benign way remains a big challenge which hinders their widespread application, especially in underdeveloped countries/regions.

### **Electron delocalization triggers nonradical Fenton-like catalysis ...**

This is the principal conclusion from a time-series study of 10 Northern, Western, and Southern European countries with the requisite data. In the present study, cross-

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section analysis of recent data gives a misleading impression that economic growth, social capital, and/or quality of the environment are driving happiness trends, but in the

### **Explaining happiness trends in Europe | PNAS**

Password requirements: 6 to 30 characters long; ASCII characters only (characters found on a standard US keyboard); must contain at least 4 different symbols;

### **Join LiveJournal**

Feb 14, 2022 · Active pharmaceutical ingredients (APIs) are emitted to the natural environment during their manufacture, use, and disposal. There is evidence that environmental exposure to APIs has deleterious effects on the health of ecosystems and humans (e.g., by selecting

for antibiotic resistant bacteria, feminizing fish, and increasing the susceptibility of fish to ...

*Pharmaceutical pollution of the world's rivers | PNAS*

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### **Course Help Online - Have your academic paper written by a ...**

Etymology. The term "dinoflagellate" is a combination of the Greek dinos and the Latin flagellum. Dinos means "whirling" and

signifies the distinctive way in which dinoflagellates were observed to swim. Flagellum means "whip" and this refers to their flagella.. History. In 1753, the first modern dinoflagellates were described by Henry Baker as "Animalcules which cause the ...

### **Dinoflagellate - Wikipedia**

Aug 16, 2022 · This study developed a rational antibody cocktail containing three cross-neutralizing antibodies that can bind to the receptor-binding domain of SARS-CoV and SARS-CoV-2. Cryo-electron microscopy structures of the triple-antibody cocktail in complex with the spike proteins of prototyped SARS-CoV-2, Delta, Omicron, and SARS-CoV defined three

[The neutralizing breadth of antibodies targeting diverse - PNAS](#)

SARS-CoV-2 is a single-stranded positive-sense RNA virus that is 79% identical in sequence to SARS-CoV-1, the virus responsible for localized epidemic outbreaks beginning in February 2003 (). The genome of this and other beta coronaviruses is composed of Open Reading Frames (ORFs), which are functionally divided between replicase proteins, structural proteins, and accessory ...

[SARS-CoV-2 variant spike and accessory gene mutations alter](#)

Incorporation of thymidine analogs into the human genome and removal of EdU by nucleotide excision repair. (A) Chemical structure of thymidine analogs used in this study. (B) Slot blot assay to test the reactivity of thymidine analogs with anti-BrdU antibody. HeLa cells were cultured either in regular medium or medium containing 10  $\mu$ M thymidine analog (EdU, BrdU, CldU,

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IdU, F-ara ...

*Nucleotide excision repair removes thymidine analog 5-ethynyl-2 - PNAS*

Ecosystems differ greatly in their dynamics and stability over time, with some displaying relative constancy, others varying predictably over seasons, and yet others changing nonlinearly or unpredictably over longer time periods (1-3). A great deal has been written about the potential for lakes and ponds to display dramatic instabilities, including nonlinear dynamics and regime ...

*Regime shifts, trends, and variability of lake productivity at a ...*

Wellcome Centre for Infectious Disease Research in Africa (CIDRI-Africa) & Medical Microbiology, Department of Pathology: Felix Dube: Microbiome of respiratory and skin infections, genotype-phenotype:

Department of Molecular and Cell Biology: Claire Hoving: Host immune responses to disease; HIV-related fungal infections: Immunology, Department

Associate Members | Institute Of Infectious Disease and ...

Bakteri (nama ilmiah: Bacteria) adalah kelompok mikroorganisme bersel satu yang diklasifikasikan pada tingkat domain. Bersama dengan domain Archaea, bakteri digolongkan sebagai prokariota. Sel bakteri memiliki bentuk tertentu, misalnya menyerupai bola, batang, atau spiral, yang biasanya berukuran beberapa mikrometer. Bakteri merupakan salah satu bentuk ...

*Bakteri - Wikipedia bahasa Indonesia, ensiklopedia bebas*

Although loss aversion, the endowment

effect, and gain-loss framing have been documented for various nonmaterial outcomes, such as jobs (35, 36), environmental public goods, and potential mates (38, 39), it is not clear † that they would extend to information—especially noninstrumental information—which differs in many important respects

*Loss aversion, the endowment effect, and gain-loss framing shape - PNAS*

Parkinson's disease (PD) is a chronic neurodegenerative disorder characterized by progressive worsening of motor symptoms, including bradykinesia, resting tremor, and rigidity (1, 2). Nonmotor symptoms often precede and accompany the motor symptoms and include autonomic dysfunction and neuropsychiatric sequelae (). The most notable loss of neurons occurs in the ...

### Amelioration of pathologic $\alpha$ -synuclein-induced Parkinson's ...

Aug 25, 2022 · Balaji et al. report that the activity of the E3 ubiquitin ligase CHIP is modulated by a dimer-monomer switch, an evolutionarily conserved mechanism from *Caenorhabditis elegans* to humans. While the CHIP dimer promotes chaperone-directed degradation of damaged proteins, the CHIP monomer regulates chaperone-independent turnover of the membrane-bound insulin ...

### **A dimer-monomer switch controls CHIP-dependent substrate ...**

Aug 15, 2022 · In this study, we explored an endogenously LN-targeting lipid nanoparticle (LNP) without the modification of any active targeting ligands for developing an mRNA cancer vaccine. The LNP named 113-O12B showed increased and

specific expression in the LN compared with LNP formulated with ALC-0315, a synthetic lipid used in the COVID-19 vaccine

[Lipid nanoparticle-mediated lymph node-targeting delivery of ...](#)

Apr 15, 2012 · Summarized below are the recommendations made in the new guideline for ABRS in children and adults. The panel followed a process used in the development of other Infectious Diseases Society of America (IDSA) guidelines that includes a systematic weighting of the strength of recommendation (eg, “high, moderate, low, very low”) and quality of evidence (eg, ...

### **IDSA Clinical Practice Guideline for Acute Bacterial Rhinosinusitis ...**

Hydrogen sulfide is a chemical compound with the formula  $H_2S$ . It is a colorless chalcogen-hydride gas, and is poisonous,

corrosive, and flammable, with trace amounts in ambient atmosphere having a characteristic foul odor of rotten eggs. The underground mine gas term for foul-smelling hydrogen sulfide-rich gas mixtures is stinkdamp. Swedish chemist Carl Wilhelm ...

*Hydrogen sulfide - Wikipedia*

Updated in 2014, this self-study course is designed for EH&S professionals who wish to enhance their knowledge of the occupational health sciences (known traditionally as industrial hygiene). You can use this outstanding study program for an in-depth review, prepare for a certification exam, or enhance your career opportunities.

[Online Courses | AIHA](#)

A study of videobooks showed that when adults were trained to use dialogic questioning techniques with the videos, 3-

year-olds learned new words and recalled the books' storylines (Strouse et al., 2013). However, a few studies of e-books also have shown that the bells and whistles of the devices can get in the

#### 4 Child Development and Early Learning | Transforming the ...

Mar 01, 2021 · Loss-of-function mutations in Angiopoietin-like 3 (Angptl3) are associated with lowered blood lipid levels, making Angptl3 an attractive therapeutic target for the treatment of human lipoprotein metabolism disorders. In this study, we developed a lipid nanoparticle delivery platform carrying Cas9 messenger RNA (mRNA) and guide RNA for CRISPR-Cas9-based ...

#### **Lipid nanoparticle-mediated codelivery of Cas9 mRNA and single-guide ...**

Jun 11, 2018 · The major route for lipid expenditure is through mitochondrial fatty acid  $\beta$ -oxidation (FAO), an essential process in which free fatty acids are esterified with CoA, transported into the mitochondria matrix, and oxidized to generate acetyl-CoAs (). The transport of long-chain acyl-CoA esters into the mitochondria matrix is mediated by the carnitine palmitoyltransferase (CPT) ...

#### **Chemoproteomics reveals baicalin activates hepatic CPT1 to - PNAS**

Nov 09, 2021 · Epidemiological study. Maier RM. Chapter 3: Bacterial growth. In: Maier RM, Pepper IL, Gerba CP Environmental Microbiology. Academic Press. 2000: 37-54. ISBN:978-0-12-497570-5. 10. Bodor A, Boundedjoun N, Vincze GE A guide to bacterial culture identification and results interpretation. P T. 2019;44(4):192-200. PMC6428495. 13. Fels U

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## **An Introduction to Culturing Bacteria | Technology Networks**

Sep 05, 2022 · Satellite-based Precipitation (SBP) products are receiving growing attention, and their utilization in hydrological applications is essential for better water resource management. However, their assessment is still lacking for data-sparse mountainous regions. This study reveals the performances of four available PERSIANN family products of low resolution near ...

*Water | Free Full-Text | Product- and Hydro-Validation of Satellite*

May 05, 2010 · Brain size in mammals is generally proportional to body size. Relative to body mass, humans have the largest brain. The chimpanzee brain has an approximate volume of 300 cm<sup>3</sup>; a gorilla's is slightly larger. The human adult brain is

more than three times larger, typically between 1,300 cm<sup>3</sup> and 1,400 cm<sup>3</sup>. The brain is not only larger in humans than in apes but ...

The difference of being human: Morality | PNAS

Jan 03, 2022 · This study presents SignalP 6.0, a machine learning model covering all five known types of SPs that accurately predicts both sequences of unknown origin and evolutionarily distant proteins.

### **SignalP 6.0 predicts all five types of signal peptides using protein**

The earliest reports of a coronavirus infection in animals occurred in the late 1920s, when an acute respiratory infection of domesticated chickens emerged in North America. Arthur Schalk and M.C. Hawn in 1931 made the first detailed report which described a new respiratory infection of

chickens in North Dakota. The infection of new-born chicks was characterized by gasping ...

*Coronavirus - Wikipedia*

Feb 12, 2018 · Western blot analysis of HeLa whole cell lysate (Lane 1) and GFP-transfected HeLa cell lysates (Lane 2).

Samples were loaded at 20µg per lane onto a 15% SDS-polyacrylamide gel, transferred to a PVDF membrane (semi-dry) and blocked with TBS containing TBST and 5% non-fat dry milk for 2 hrs at room temperature.