

Caffeine

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Caffeine is a stimulant drug. It is a xanthine alkaloid compound that acts as a psychoactive stimulant and diuretic in humans. The word comes from the French term for coffee, *café*. Caffeine is also called guaranine when found in guarana, mateine when found in mate, and theine when found in tea; all of these names are synonyms for the same chemical compound. Caffeine is found in varying quantities in the beans, leaves, and fruit of over 60 plants, where it acts as a natural pesticide that paralyzes and kills certain insects feeding on the plants. It is most commonly consumed by humans in infusions extracted from the beans of the coffee plant and the leaves of the tea bush, as well as from various foods and drinks containing products derived from the kola nut or from cacao. Other sources include yerba mate, guarana berries, and the Yaupon Holly. In humans, caffeine is a central nervous system stimulant, having the effect of temporarily warding off drowsiness and restoring alertness. Beverages containing caffeine, such as coffee, tea, soft drinks and energy drinks enjoy great popularity; caffeine is the world's most widely consumed psychoactive substance, but unlike most other psychoactive substances, it is legal and unregulated in nearly all jurisdictions. In North America, 90% of adults consume caffeine daily. The U.S. Food and Drug Administration lists caffeine as a "Multiple Purpose Generally Recognized as Safe Food Substance".

Recent Publications on Caffeine:



- [Inducible nature of the enzymes involved in catabolism of caffeine and related methylxanthines.](#)
Previously isolated strain of Pseudomonas sp. has the capability of... 23rd August, 2008
Department of Biotechnology, Indian Institute of Technology-Madras,- J Basic Microbiol. 2008 Aug 21;48(4):227-233. ([DOI Direct Link](#))
- [Localization of spindle checkpoint proteins in cells undergoing mitosis with unreplicated genomes.](#)
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Department of Biological Sciences, Mississippi State University,- Cell Motil Cytoskeleton. 2008 Aug 20. ([DOI Direct Link](#))
- [Characterization of rat heart alkaline phosphatase isoenzymes and modulation of activity.](#)
Alkaline phosphatase (ALP) is important in calcification and its... 23rd August, 2008
Departamento de Bioquímica (U38-FCT), Faculdade de Medicina, Universidade- Braz J Med Biol Res. 2008 Jul;41(7):600-9.
- [\[in vitro effect of caffeine on internal mammary artery rings used in cardiac revascularization surgery.\]](#)
Introduction. The vasodilator effect of caffeine in animal models arteries... 23rd August, 2008
Laboratorio de Investigacion en Funcion Vasular, Fundacion- Biomedica. 2008 Jun;28(2):298-304.
- [Novel ryanodine receptor mutation that may cause malignant hyperthermia.](#)
BACKGROUND: Malignant hyperthermia (MH) is a hypermetabolic condition... 23rd August, 2008
Department of Special Anesthesia and Pain Management, Medical University- Anesthesiology. 2008 Sep;109(3):457-64. ([DOI Direct Link](#))

- [Protective effect of caffeine on streptozotocin-induced beta-cell damage in rats.](#)
*Many epidemiological studies have shown that coffee consumption reduces...*23rd August, 2008
Department of Clinical Pharmacology, Tokyo University of Pharmacy and Life- J Pharm Pharmacol. 2008 Sep;60(9):1161-5. ([DOI Direct Link](#))
- [CYP2A6 activity in a healthy Spanish population: effect of age, sex, smoking, and oral contraceptives.](#)
*This study was performed to assess the influence of age, sex, smoking, and...*22nd August, 2008
Department of Pharmacology, Medicine School, University of Zaragoza,- Hum Exp Toxicol. 2008 May;27(5):367-72. ([DOI Direct Link](#))
- [Use of a Prescribed Ephedrine/Caffeine Combination and the Risk of Serious Cardiovascular Events: A Registry-based Case-Crossover Study.](#)
*Ephedrine and herbal ephedra preparations have been shown to induce a...*6th August, 2008
- Am J Epidemiol. 2008 Aug 27. ([DOI Direct Link](#))
- [Caffeine yields aneuploidy through asymmetrical cell division caused by misalignment of chromosomes.](#)
*Aneuploidy has been implicated as an important step leading to various...*6th August, 2008
Department of Pediatrics and Developmental Biology, Graduate Medical- Cancer Sci. 2008 Aug;99(8):1539-45. ([DOI Direct Link](#))
- [Dietary intake and nutritional adequacy prior to conception and during pregnancy: a follow-up study in the north of Portugal.](#)
*OBJECTIVE: To assess maternal diet and nutritional adequacy prior to...*6th August, 2008
1Department of Hygiene and Epidemiology, University of Porto Medical- Public Health Nutr. 2008 Aug 27:1-10. ([DOI Direct Link](#))
- [Approved and investigational uses of modafinil : an evidence-based review.](#)
*Modafinil is a wake-promoting agent that is pharmacologically differ...*6th August, 2008
Department of Family Medicine, University of Chicago, Chicago, Illinois,- Drugs. 2008;68(13):1803-39.
- [Quantitation of Methylxanthinic Alkaloids and Phenolic Compounds in Mate \(Ilex paraguariensis\) and Their Effects on Blood Vessel Formation in Chick Embryos.](#)
*Methylxanthinic alkaloids and phenolic compounds are related to the...*6th August, 2008
Laboratory of Plant Morphogenesis and Biochemistry, Department of Plant- J Agric Food Chem. 2008 Aug 27. ([DOI Direct Link](#))
- [Relationship between visual learning/memory ability and brain cAMP level in Drosophila.](#)
*Using the flight simulator system, the operant conditioned visual flight...*6th August, 2008
Laboratory of Visual Information Processing, Institute of Biophysics,- Sci China C Life Sci. 1998 Oct;41(5):503-11. ([DOI Direct Link](#))
- [Dual inhibition of monoamine oxidase B and antagonism of the adenosine A\(2A\) receptor by \(E,E\)-8-\(4-phenylbutadien-1-yl\)caffeine analogues.](#)
*The adenosine A(2A) receptor has emerged as an attractive target for the...*6th August, 2008
Pharmaceutical Chemistry, School of Pharmacy, North-West University,- Bioorg Med Chem. 2008 Aug 5. ([DOI Direct Link](#))
- [Pressurized liquid extraction of mate tea leaves.](#)
*The objective of this work is to investigate the influence of process...*6th August, 2008
Universidade Federal do Pampa (UNIPAMPA), Rua Carlos Barbosa s/n degrees ,- Anal Chim Acta. 2008 Sep 5;625(1):70-6. Epub 2008 Jul 10. ([DOI Direct Link](#))

BioNews Results for Caffeine

- [Should you test for prostate cancer?](#)
Chicago Tribune: Aug 29 2008 3:04PM Matching: caffeine
- [Spectroscopy: Research conducted at Sankyo Co., Ltd. has provided new information about spectroscopy](#)
NewsRX: Aug 26 2008 2:47AM Matching: caffeine

- [Coffee: Health Myths Vs. Reality](#)
CBS 4 Denver: Aug 18 2008 7:02PM Matching: caffeine
- [Drug Safety Update: Volume 2, Issue 1 August 2008](#)
MHRA: Aug 15 2008 9:20AM Matching: caffeine
- [Caffeine Reduces Cognitive Decline in Women](#)
Abstracts in Hematology and Oncology: Aug 14 2008 6:46PM Matching: caffeine
- [Preliminary Tests Show AquaClens at Home Reduces Pharmaceuticals in Lab Samples](#)
NewsBlaze: Aug 12 2008 5:20PM Matching: caffeine
- [Clean Water Scientific, Inc.: Preliminary Tests Show AquaClens at Home Reduces Pharmaceuticals in Lab Samples](#)
Market Wire: Aug 12 2008 4:20PM Matching: caffeine
- [Preliminary Tests Show AquaClens at Home Reduces Pharmaceuticals in Lab Samples](#)
Yahoo! Canada: Aug 12 2008 4:07PM Matching: caffeine
- [Preliminary Tests Show AquaClens at Home Reduces Pharmaceuticals in Lab Samples](#)
Houston Chronicle: Aug 12 2008 3:43PM Matching: caffeine
- [Preliminary Tests Show AquaClens at Home Reduces Pharmaceuticals in Lab Samples](#)
Earthtimes.org: Aug 12 2008 3:38PM Matching: caffeine
- [Preliminary Tests Show AquaClens at Home Reduces Pharmaceuticals in Lab Samples](#)
Calibre Macro World: Aug 12 2008 3:34PM Matching: caffeine
- [Preliminary Tests Show AquaClens at Home Reduces Pharmaceuticals in Lab Samples](#)
Market Wire: Aug 12 2008 3:32PM Matching: caffeine
- [Could Caffeine Stop MS in Its Tracks?](#)
WebMD: Jul 1 2008 4:27AM Matching: caffeine

Caffeine Clinical Trials:



- [Does Caffeine Affect the Sensitivity of Adenosine Perfusion Scans?](#)
Coronary Artery Disease

Caffeine Patents:



- 7405046- [Compositions and methods for treatment of rhinovirus](#)
- 7408047- [Fibroblast growth factor-like polypeptides](#)
- 7408095- [Methods for introducing heterologous cells into fish to determine if the heterologous cells contain cancer cells or a pathogen](#)
- 7408640- [Fluorescence polarization instruments and methods for detection of exposure to biological materials by fluorescence polarization immunoassay of saliva, oral or bodily fluids](#)
- 7410754- [B.sub.12 -dependent dehydratases with improved reaction kinetics](#)

- 7410961- [2,6-disubstituted piperidines as modulators](#)
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