

# Acetogenins

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## Recent Publications on Acetogenins:

- [Paw paw and cancer: annonaceous acetogenins from discovery to commercial products.](#)  
*Extracts of paw paw ( Asimina triloba, Annonaceae) are among the most...*30th September, 2008  
Department of Medicinal Chemistry and Molecular Pharmacology, School of- J Nat Prod. 2008 Jul;71(7):1311-21. Epub 2008 Jul 4. ([DOI Direct Link](#))
- [Anthelmintic acetogenin from Annona squamosa L. Seeds.](#)  
*Annona squamosa seeds extracts showed anthelmintic activity against...*19th September, 2008  
Laboratorio de Doencas Parasitarias, Universidade Estadual do Ceara,- An Acad Bras Cienc. 2008 Jun;80(2):271-7.
- [Assessment of the mutagenic, antimutagenic and cytotoxic activities of ethanolic extract of araticum \(Annona crassiflora Mart. 1841\) by micronucleus test in mice.](#)  
*A typical Brazilian plant, araticum (Annona crassiflora Mart.), is widely...*13th September, 2008  
Departamento de Biologia Geral, Instituto de Ciencias Biologicas,- Braz J Biol. 2008 Feb;68(1):141-7.
- [Synthesis and characterization of new piperazine-type inhibitors for mitochondrial NADH-ubiquinone oxidoreductase \(complex I\).](#)  
*The mode of action of Deltalac-acetogenins, strong inhibitors of bovine...*11th September, 2008  
Division of Applied Life Sciences, Graduate School of Agriculture, Kyoto- Biochemistry. 2008 Oct 7;47(40):10816-26. Epub 2008 Sep 10. ([DOI Direct Link](#))
- [Synthesis and antitumor activity of C-9 epimers of the tetrahydrofuran containing acetogenin 4-deoxyannoreticuin.](#)  
*A highly convergent synthesis of mono-tetrahydrofuran (THF) containing...*9th September, 2008  
Department of Chemistry, Hunter College, 695 Park Avenue, New York, NY- Bioorg Med Chem. 2008 Sep 15;16(18):8413-8. Epub 2008 Aug 19. ([DOI Direct Link](#))
- [Antibacterial activity of halogenated sesquiterpenes from Malaysian Laurencia spp.](#)  
*During our studies on Malaysian Laurencia species, brominated metabolites,...*23rd August, 2008  
Laboratory of Natural Products Chemistry, Institute for Tropical Biology- Phytochemistry. 2008 Aug 19. ([DOI Direct Link](#))
- [Dynamic function of the spacer region of acetogenins in the inhibition of bovine mitochondrial NADH-ubiquinone oxidoreductase \(complex I\).](#)  
*Studies of the action mechanism of acetogenins, the most potent and...*13th August, 2008  
Division of Applied Life Sciences, Graduate School of Agriculture, Kyoto- Biochemistry. 2008 Jun 10;47(23):6260-6. Epub 2008 May 14. ([DOI Direct Link](#))
- [Current topics of organic and biological chemistry of annonaceous acetogenins and their synthetic mimics.](#)

*Annonaceous acetogenins are a large family of natural polyketides. So far...* 12th August, 2008  
Sciences of Functional Foods, Graduate School of Agriculture, Shinshu- Curr Drug Discov Technol.  
2008 Sep;5(3):213-29.

- [Mono-tetrahydrofuran annonaceous acetogenins from \*Annona squamosa\* as cytotoxic agents and calcium ion chelators.](#)  
*Eight new mono-tetrahydrofuran (THF)-type annonaceous acetogenins...* 29th July, 2008  
Graduate Institute of Pharmaceutical Chemistry, China Medical University,- J Nat Prod. 2008  
May;71(5):764-71. Epub 2008 Apr 18. ([DOI Direct Link](#))
- [Polyketides in insects: ecological role of these widespread chemicals and evolutionary aspects of their biogenesis.](#)  
*Polyketides are known to be used by insects for pheromone communication...* 9th July, 2008  
Freie Universitat Berlin, Institute of Biology, Haderslebener Str. 9,- Biol Rev Camb Philos Soc. 2008  
May;83(2):209-26. Epub 2008 Apr 10. ([DOI Direct Link](#))
- [Synthesis of hybrid acetogenins, alpha,beta-unsaturated-gamma-lactone-free nitrogen-containing heterocyclic analogues, and their cytotoxicity against human cancer cell lines.](#)  
*A series of alpha,beta-unsaturated-gamma-lactone-free nitrogen-containing...* 20th May, 2008  
Graduate School of Pharmaceutical Sciences, Osaka University, 1-6- Bioorg Med Chem Lett. 2008 Mar  
1;18(5):1637-41. Epub 2008 Jan 19. ([DOI Direct Link](#))
- [Synthesis of pyranicin and its inhibitory action with bovine heart mitochondrial complex I.](#)  
*Total synthesis of pyranicin was achieved using  $Ci2Pd(CH3CN)2$ -catalyzed...* 16th May, 2008  
Interdisciplinary Graduate School of Science and Technology, Shinshu- Org Lett. 2008 Mar  
6;10(5):717-20. Epub 2008 Feb 6. ([DOI Direct Link](#))
- [Pyranicin, a non-classical annonaceous acetogenin, is a potent inhibitor of DNA polymerase, topoisomerase and human cancer cell growth.](#)  
*This report describes the inhibitory activities of the natural and...* 9th May, 2008  
RIKEN (The Institute of Physical and Chemical Research), Wako-shi,- Int J Oncol. 2008  
Feb;32(2):451-8.
- [Antineoplastic agents. 558. Ampelocissus sp. cancer cell growth inhibitory constituents.](#)  
*An investigation of the Phillipine Ampelocissus sp. roots for cancer cell...* 3rd April, 2008  
Cancer Research Institute and Department of Chemistry and Biochemistry,- J Nat Prod. 2008  
Jan;71(1):130-3. Epub 2008 Jan 5. ([DOI Direct Link](#))
- [Diterpenes, sesquiterpenes, and a C15-acetogenin from the marine red alga \*Laurencia mariannensis\*.](#)  
*In addition to 10 known compounds (7- 16), one new brominated diterpene...* 7th March, 2008  
Key Laboratory of Experimental Marine Biology, Institute of Oceanology,- J Nat Prod. 2007  
Dec;70(12):1901-5. Epub 2007 Dec 13. ([DOI Direct Link](#))

## Acetogenins Patents:



- 5849936- [Method for the synthesis of bis-tetrahydrofuranyl annonaceous acetogenins](#)
- 6329420- [Tubulin binding compounds \(COBRA\)](#)
- 6359000- [Anticancer agent](#)
- 6410052- [Tea catechins in sustained release formulations as cancer specific proliferation inhibitors](#)
- 6410061- [Tea catechins as cancer specific proliferation inhibitors](#)
- 6428818- [Tea catechin formulations and processes for making same](#)

- 6436634- [Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes](#)
- 6537972- [Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes](#)
- 6613506- [Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes](#)
- 6652890- [Tea catechins as cancer specific proliferation inhibitors](#)
- 6693099- [Substituted piperazine compounds optionally containing a quinolyl moiety for treating multidrug resistance](#)
- 6326152- [Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes](#)
- 6258841- [Tubulin binding compounds \(COBRA\)](#)
- 6242483- [Selectively cytotoxic acetogenin compounds](#)
- 5914410- [Intermediates for annonaceous acetogenins](#)
- 5917084- [Antifungal agents](#)
- 5932613- [Anticancer agents](#)
- 5955497- [Bioactive acetogenins](#)
- 5965608- [Xylomollin derivatives for use as insect feeding deterrents](#)
- 6039950- [Pharmaceutical grade saw palmetto](#)
- 6060509- [Antifungal agents](#)
- 6071743- [Compositions and methods for inhibiting human immunodeficiency virus infection by down-regulating human cellular genes](#)
- 6113907- [Pharmaceutical grade St. John's Wort](#)
- 6150540- [Versatile intermediate for annonaceous acetogenins](#)
- 6734207- [Cytotoxic compounds](#)
- 6759064- [Compositions based on vanilloid-catechin synergies for prevention and treatment of cancer](#)
- 7192738- [IGF binding proteins](#)
- 7223792- [Cytotoxic annonaceous acetogenins from Annona muricata](#)
- 7230027- [Anti-first-pass effect compounds](#)
- 7252994- [Human DR4 antibodies and uses thereof](#)
- 7288249- [Antibodies for cancer therapy and diagnosis](#)
- 7304053- [Substituted heterocyclic compounds for treating multidrug resistance](#)
- 7319154- [Process for the production of 3-oxo-pregn-4-ene-21, 17-carbolactones by the metal free oxidation of 17-\(3-hydroxypropyl\)-3, 17-dihydroxyandrostanes](#)
- 7348154- [IGF binding proteins](#)
- 7351545- [IGF binding proteins](#)
- 7407973- [Use of pirfenidone in therapeutic regimens](#)
- 7192612- [Compositions and methods based on synergies between capsicum extracts and tea catechins for prevention and treatment of cancer](#)
- 7153885- [Stolonoxides](#)
- 7135483- [Substituted heterocyclic compounds for treating multidrug resistance](#)
- 6818780- [P-hydroxyphenyl propionic acid derivatives as antiproliferative agents](#)
- 6929810- [Preparation of essential oil compositions for portable liquid disinfection](#)
- 6979556- [Separate-cistron constructs for secretion of aglycosylated antibodies from prokaryotes](#)
- 6991818- [Compound iso-squamocin obtained from seeds of annona squamosa and composition containing the same](#)
- 7005274- [Methods and compositions for diagnosing and treating arthritic disorders and regulating bone mass](#)
- 7005548- [Process for preparing quaternary ammonium tribromides](#)
- 7037937- [Cytotoxic compounds](#)
- 7071300- [IGF antagonist peptides](#)
- 7074439- [Preparation of essential oil compositions for potable liquid disinfection](#)
- 7125533- [Method for functionalizing carbon nanotubes utilizing peroxides](#)

- 7410772- [Compositions and methods for treatment of non-Hodgkin's lymphoma](#)

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Send comments and feedback to:

Peter Barfoot Managing Director, BioPortfolio Ltd.

UK Tel: (+44) 1300 321501

USA Voicemail and Fax: (+1) 415 680 2472

[Peter Barfoot peter.barfoot@bioportfolio.com](mailto:peter.barfoot@bioportfolio.com)

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