GreenMedinfo™
Professional Edition

Focused Research Topics

Turmeric & Breast Cancer

Study Types	Research Articles
In Vitro Study	66
Animal Study	16
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The GMI-Pub system automates the natural medical research retrieval process by creating an individualized document that matches your search requirements in order to fit the needs of real people, in real time.

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Below you will find compelling research hard-referenced to peer-reviewed biomedical research sourced from the US National Library of Medicine. For more research on over 6000 validated topics, please visit http://GreenMedInfo.com/research-dashboard

Associated Topics included in this Focused Research

Curcumin
Curcumin: Lipidated
Curcuminoids
Curcumol
Demethoxycurcumin
Tetrahydrocurcumin
Turmeric
Turmeric: Fermented
Turmeric: Topical
Turmerin
Turmerones

View the Evidence

92 Research Articles in Total

Curcuminoids have anti-tumor and antioxidant activity.

Pubmed Data : Cancer Lett. 1995 Jul 20;94(1):79-83. PMID: **7621448**

Article Published Date : Jul 20, 1995

Authors : A J Ruby, G Kuttan, K D Babu, K N Rajasekharan, R Kuttan

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Oxidative Stress : CK(3871) : AC(1382) , Tumors : CK(203) : AC(119)
Pharmacological Actions : Anti-Tumor : CK(146) : AC(73), Antioxidants : CK(7529) : AC(2682)

A curcumin-free water extract of turmeric prevents chemically-induced mammary cancer in rats.

Pubmed Data : Cancer Lett. 1998 Jan 16;123(1):35-40. PMID: **9461015**

Article Published Date : Jan 16, 1998

Authors : S S Deshpande, A D Ingle, G B Maru

Study Type : Animal Study

Additional Links
Substances : Curcumin : CK(4803) : AC(2175) , Turmeric : CK(5032) : AC(2348)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)
Additional Keywords : Plant Extracts : CK(7645) : AC(2539) , Turmeric Versus Curcumin : CK(4) : AC(2)

Curcumin may inhibit breast cancer cell proliferation through down-regulating the NFkappaB inducing genes.

Pubmed Data : Phytomedicine. 2009 Oct;16(10):916-22. Epub 2009 Jun 12. PMID: **19524420**

Article Published Date : Oct 01, 2009

Authors : Q Liu, Wings T Y Loo, S C W Sze, Y Tong

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Plant Extracts : CK(7645) : AC(2539)

Antioxidants have the potential to be clinically applied to prevent cardiac toxicity and hand foot syndrome.

Pubmed Data : Integr Cancer Ther. 2014 Dec 25. Epub 2014 Dec 25. PMID: **25542609**

Article Published Date : Dec 24, 2014

Authors : Ming-Thau Sheu, Hua-Jing Jhan, Chien-Ming Hsieh, Chien-Ju Wang, Hsiu-O Ho

Study Type : In Vitro Study
Additional Links
Substances : Antrodia cinnamomea : CK(1) : AC(1), Curcumin : CK(4803) : AC(2175) , Resveratrol : CK(1283) : AC(746)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Chemotherapy-Induced Toxicity: Doxorubicin : CK(132) : AC(56)
Pharmacological Actions : Antioxidants : CK(7529) : AC(2682) , Reactive Oxygen Species (ROS) attenuation : CK(1) : AC(1), Superoxide Dismutase Up-regulation : CK(530) : AC(174)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Curcumin exhibits anti-cancer, anti-inflammatory and antioxidant activities.

Pubmed Data : Phytomedicine. 2000 Jul;7(4):303-8. PMID: **10969724**

Article Published Date : Jul 01, 2000

Authors : R S Ramsewak, D L DeWitt, M G Nair

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Colon Cancer : CK(749) : AC(430) , Kidney Cancer : CK(148) : AC(42), Melanoma : CK(282) : AC(146)
Pharmacological Actions : Antioxidants : CK(7529) : AC(2682) , Cyclooxygenase 1 Inhibitor : CK(34) : AC(27), Cyclooxygenase 2 Inhibitors : CK(464) : AC(272) , Cyclooxygenase Inhibitors : CK(71) : AC(39)

Curcumin exhibits anti-metastatic properties in breast cancer cells.

Pubmed Data : Carcinogenesis. 2008 Apr;29(4):779-89. Epub 2007 Nov 13. PMID: **17999991**

Article Published Date : Apr 01, 2008

Authors : Beatrice E Bachmeier, Isabelle V Mohrenz, Valentina Mirisola, Erwin Schleicher, Francesco Romeo, Clara Höhneke, Marianne Jochum, Andreas G Nerlich, Ulrich Pfeffer

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancer Metastasis : CK(442) : AC(206)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414) , Antioxidants : CK(7529) : AC(2682) , NF-kappaB Inhibitor : CK(1114) : AC(694)

Curcumin prevents radiation-induced mammary tumors.

Pubmed Data : Int J Radiat Oncol Biol Phys. 2002 Jan 1;52(1):212-23. PMID: **11777641**

Article Published Date : Jan 01, 2002

Authors : Hiroshi Inano, Makoto Onoda

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Prevention : CK(552) : AC(82)
Pharmacological Actions : Anticarcinogenic Agents : CK(1099) : AC(519) , Antineoplastic Agents : CK(1158) : AC(639), Antioxidants : CK(7529) : AC(2682) , Enzyme Inhibitors : CK(473) : AC(251) , Radioprotective : CK(756) : AC(262)

Curcumin reduces nitric oxide formation and associated inflammation in the rat mammary gland.

Pubmed Data : J Exp Biol. 2009 Jan;212(Pt 2):163-8. PMID: **11020339**

Article Published Date : Jan 01, 2009

Authors : M Onoda, H Inano

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Lipopolysaccharide-Induced Toxicity : CK(380) : AC(218)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4861) : AC(1630) , Antineoplastic Agents : CK(1158) : AC(639), Antioxidants : CK(7529) : AC(2682) , Nitric Oxide Inhibitor : CK(223) : AC(108)

Low dose Resveratrol and Curcumin enhances the Centchroman action through ROS mediated JNK/p38 as well as mitochondrial pathway in MCF-7 cells.

Pubmed Data : PLoS One. 2012 ;7(6):e37736. Epub 2012 Jun 29. PMID: **22768036**

Article Published Date : Dec 31, 2011

Authors : Neetu Singh, Deeba Zaidi, Hari Shyam, Ramesh Sharma, Anil Kumar Balapure

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175) , Polyphenols : CK(931) : AC(335) , Resveratrol : CK(1283) : AC(746)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Triple Negative : CK(262) : AC(144)
Pharmacological Actions : Antioxidants : CK(7529) : AC(2682) , Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Phytochemicals have the potential of modulating various molecular processes, including signaling pathways involved in the development and progression of tumors.

Pubmed Data : Onco Targets Ther. 2015 ;8:2053-66. Epub 2015 Aug 6. PMID: **26273208**

Article Published Date : Dec 31, 2014

Authors : Roxana Cojocneanu Petric, Cornelia Braicu, Lajos Raduly, Oana Zanoaga, Nicolae Dragos, Paloma Monroig, Dan Dumitrascu, Ioana Berindan-Neagoe

Study Type : Review
Additional Links
Substances : Curcumin : CK(4803) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(1956) : AC(314) , Genistein : CK(515) : AC(228)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4861) : AC(1630) , Anticarcinogenic Agents : CK(1099) : AC(519), Antioxidants : CK(7529) : AC(2682) , Apoptotic : CK(2958) : AC(2075) , Chemotherapeutic : CK(397) : AC(152) , MicroRNA modulator : CK(264) : AC(145)

This reviews natural plants as breast cancer preventatives or use in treatments.

Pubmed Data : Saudi Pharm J. 2016 May ;24(3):233-40. Epub 2016 May 5. PMID: **27275107**

Article Published Date : Apr 30, 2016

Authors : Munazza Shareef, Muhammad Aqeel Ashraf, Maliha Sarfraz

Study Type : Review
Additional Links
Substances : Ashwagandha : CK(154) : AC(74) , Black Cohosh : CK(61) : AC(20) , Burdock : CK(42) : AC(26) , Echinacea : CK(531) : AC(100) , Flavonoids : CK(1215) : AC(379) , Flaxseed : CK(453) : AC(90) , Garlic : CK(722) : AC(226), Ginseng : CK(473) : AC(133) , Polyphenols : CK(931) : AC(335) , Turmeric : CK(5032) : AC(2348)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antioxidants : CK(7529) : AC(2682) , Antiproliferative : CK(2546) : AC(1685), Chemopreventive : CK(2835) : AC(787)

Combination of curcumin and mitomycin C can synergistically inhibit tumor growth in MCF-7 breast cancer xenografts and induce apoptosis in breast cancer MCF-7 cells.

Pubmed Data : Int J Mol Sci. 2014 ;15(9):16284-301. Epub 2014 Sep 15. PMID: **25226537**

Article Published Date : Dec 31, 2013

Authors : Qian-Mei Zhou, Qi-Long Chen, Jia Du, Xiu-Feng Wang, Yi-Yu Lu, Hui Zhang, Shi-Bing Su

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Apoptotic : CK(2958) : AC(2075) , Chemotherapeutic : CK(397) : AC(152)
Additional Keywords : Drug: Mitomycin : CK(4) : AC(3) , Natural Substance/Drug Synergy : CK(352) : AC(142)

Combined xanthorrhizol-curcumin exhibits synergistic growth inhibitory activity via programmed cell death in human breast cancer cells.

Pubmed Data : Cancer Cell Int. 2009;9:1. Epub 2009 Jan 2. PMID: **19118501**

Article Published Date : Jan 01, 2009

Authors : Yew Hoong Cheah, Fariza Juliana Nordin, Rozie Sarip, Thiam Tsui Tee, Hawariah Lope Pihie Azimahtol, Hasnah M Sirat, Badrul Amini Abd Rashid, Noor Rain Abdullah, Zakiah Ismail

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Curcumin works synergistically with paclitaxel to inhibit breast cancer in a mouse model.

Pubmed Data : Breast J. 2009 May-Jun;15(3):223-9. PMID: **19645775**

Article Published Date : May 01, 2009

Authors : Hee Joon Kang, Sang Hun Lee, Janet E Price, Lee Su Kim

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Curcumin and citral in combination may be a useful therapeutic intervention for breast cancer.

Pubmed Data : J Breast Cancer. 2015 Sep ;18(3):225-34. Epub 2015 Sep 24. PMID: **26472972**

Article Published Date : Aug 31, 2015

Authors : Pinaki B Patel, Vasudev R Thakkar, Jagdish S Patel

Study Type : Human In Vitro
Additional Links
Substances : Citral : CK(11) : AC(2) , Curcumin : CK(4803) : AC(2175) , Lemongrass : CK(23) : AC(9)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Triple Negative : CK(262) : AC(144)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)
Additional Keywords : Dose Response : CK(1056) : AC(408) , Natural Substance Synergy : CK(540) : AC(249), Selective Cytotoxicity : CK(158) : AC(112)

Curcumin and epigallocatechin-3-gallate in combination could enhance the toxicity of DOX and increase the intracellular level of DOX in resistant MCF-7 cells.

Pubmed Data : Am J Chin Med. 2014 ;42(5):1279-300. PMID: **25242081**

Article Published Date : Dec 31, 2013

Authors : Shengpeng Wang, Ruie Chen, Zhangfeng Zhong, Zhi Shi, Meiwan Chen, Yitao Wang

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), EGCG (Epigallocatechin gallate) : CK(1956) : AC(314)
Diseases : Breast Cancer : CK(3592) : AC(1064), Cancers: Drug Resistant : CK(352) : AC(223)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Chemotherapeutic Synergy: Doxorubicin : CK(44) : AC(32)

Curcumin could be used as an adjuvant agent to chemotherapy in treatment of triple negative breast cancer.

Pubmed Data : Biomed Res Int. 2015 ;2015:878134. Epub 2015 Mar 23. PMID: **25879038**

Article Published Date : Dec 31, 2014

Authors : Sabrina Bimonte, Antonio Barbieri, Giuseppe Palma, Domenica Rea, Antonio Luciano, Massimiliano D'Aiuto, Claudio Arra, Francesco Izzo

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064), Breast Cancer: Triple Negative : CK(262) : AC(144)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62), Anti-Inflammatory Agents : CK(4861) : AC(1630), Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075), NF-kappaB Inhibitor : CK(1114) : AC(694)

Curcumin decreases survival of liver and breast cancer cells.

Pubmed Data : Strahlenther Onkol. 2011 Jul ;187(7):393-400. Epub 2011 Jun 27. PMID: **21713389**

Article Published Date : Jul 01, 2011

Authors : Mareike Ströfer, Wolfgang Jelkmann, Reinhard Depping

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064), Hypoxia : CK(123) : AC(60), Liver Cancer : CK(1235) : AC(462)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075), Radiosensitizer : CK(99) : AC(62)

Curcumin exhibits chemopreventive properties in hematogenous breast cancer metastases in

immunodeficient mice.

Pubmed Data : Cell Physiol Biochem. 2007;19(1-4):137-52. PMID: **17310108**

Article Published Date : Jan 01, 2007

Authors : Beatrice Bachmeier, Andreas G Nerlich, Cristina M Iancu, Michele Cilli, Erwin Schleicher, Roberta Vené, Raffaella Dell'Eva, Marianne Jochum, Adriana Albini, Ulrich Pfeffer

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Flavonoids : CK(1215) : AC(379), Polyphenols : CK(931) : AC(335)
Diseases : Breast Cancer : CK(3592) : AC(1064), Cancer Metastasis : CK(442) : AC(206), Immune Disorders: Low Immune Function : CK(489) : AC(118), Lung Cancer : CK(1043) : AC(393)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414), Antineoplastic Agents : CK(1158) : AC(639), Apoptotic : CK(2958) : AC(2075), NF-kappaB Inhibitor : CK(1114) : AC(694)

Curcumin has anti-breast cancer activity.

Pubmed Data : J Exp Ther Oncol. 2010;8(3):261-6. PMID: **20734924**

Article Published Date : Jan 01, 2010

Authors : Analía Quiroga, Patricia L Quiroga, Estefanía Martínez, Elio A Soria, Mirta A Valentich

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639), Apoptotic : CK(2958) : AC(2075), Enzyme Inhibitors : CK(473) : AC(251)

Curcumin induces programmed cell death and growth inhibition in breast cancer cells.

Pubmed Data : Cochrane Database Syst Rev. 2005(4):CD004649. Epub 2005 Oct 19. PMID: **10445426**

Article Published Date : Jan 01, 2005

Authors : C Ramachandran, W You

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075)

Curcumin induces programmed cell death in a murine

mammary gland cells.

Pubmed Data : Eur J Pharmacol. 2011 Oct 1 ;668(1-2):127-32. Epub 2011 Jul 8. PMID: **21762689**

Article Published Date : Oct 01, 2011

Authors : Abdelazim Ibrahim, Abdelmoniem El-Meligy, Gina Lungu, Hamdy Fetaih, Amina Dessouki, George Stoica, Rola Barhoumi

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Apoptotic : CK(2958) : AC(2075) , Bcl-2 protein down-regulation : CK(198) : AC(131)

Curcumin induces programmed cell death in breast cancer cells.

Pubmed Data : Anticancer Res. 2005 Sep-Oct;25(5):3293-302. PMID: **16101141**

Article Published Date : Sep 01, 2005

Authors : Cheppail Ramachandran, Sonia Rodriguez, Reshma Ramachandran, P K Raveendran Nair, Hugo Fonseca, Ziad Khatib, Enrique Escalon, Steven J Melnick

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Apoptotic : CK(2958) : AC(2075)

Curcumin induces programmed cell death in breast cancer cells.

Pubmed Data : Mutat Res. 2002 Jun 27;518(1):71-84. PMID: **12063069**

Article Published Date : Jun 27, 2002

Authors : Jon M Holy

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)

Curcumin induces programmed cell death in breast cancer.

Pubmed Data : FEBS Lett. 2002 Feb 13;512(1-3):334-40. PMID: **11852106**

Article Published Date : Feb 13, 2002

Authors : Tathagata Choudhuri, Suman Pal, Munna L Agwarwal, Tanya Das, Gaurisankar Sa

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)

Curcumin induces programmed cell death in human breast cancer cells.

Pubmed Data : Biochem Pharmacol. 2003 Feb 1;65(3):361-76. PMID: **12527329**

Article Published Date : Feb 01, 2003

Authors : Matthew S Squires, E Ann Hudson, Lynne Howells, Stewart Sale, Catherine E Houghton, J Louise Jones, Louise H Fox, Martin Dickens, Sally A Prigent, Margaret M Manson

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Enzyme Inhibitors : CK(473) : AC(251)

Curcumin induces programmed cell death in mouse breast cancer cells.

Pubmed Data : Biochem Biophys Res Commun. 2001 Nov 2;288(3):658-65. PMID: **11676493**

Article Published Date : Nov 02, 2001

Authors : S Pal, T Choudhuri, S Chattopadhyay, A Bhattacharya, G K Datta, T Das, G Sa

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Apoptotic : CK(2958) : AC(2075) , Bcl-2 protein down-regulation : CK(198) : AC(131) , Cell cycle arrest : CK(810) : AC(612)

Curcumin induces programmed cell death in triple negative breast cancer cell lines.

Pubmed Data : Breast Cancer. 2009 Sep 2;3:61-75. PMID: **19809577**

Article Published Date : Sep 02, 2009

Authors : Danica L Rowe, Tuba Ozbay, Ruth M O'Regan, Rita Nahta

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Triple Negative : CK(262) : AC(144)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Curcumin inhibits integrin (alpha6beta4)-dependent breast cancer cell motility and invasion.

Pubmed Data : Cancer Prev Res (Phila). 2008 Oct;1(5):385-91. PMID: **19138983**

Article Published Date : Oct 01, 2008

Authors : Hong Im Kim, Huang Huang, Satish Cheepala, Shile Huang, Jun Chung

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancer Metastasis : CK(442) : AC(206)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414) , Apoptotic : CK(2958) : AC(2075) , Enzyme Inhibitors : CK(473) : AC(251)

Curcumin inhibits programmed cell death in breast cancer cells.

Pubmed Data : J Biol Chem. 2005 May 20;280(20):20059-68. Epub 2005 Feb 28. PMID: **15738001**

Article Published Date : May 20, 2005

Authors : Tathagata Choudhuri, Suman Pal, Tanya Das, Gaurisankar Sa

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)

Curcumin inhibits the invasion and induces programmed cell death in human breast cancer cells.

Pubmed Data : Arch Pharm Res. 2001 Aug;24(4):349-54. PMID: **11534770**

Article Published Date : Aug 01, 2001

Authors : M S Kim, H J Kang, A Moon

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Curcumin sensitized breast cancer cells to chemotherapeutic drugs by reducing the BCSC population mainly through a reduction in the expression of ABCG2.

Pubmed Data : PLoS One. 2015 ;10(8):e0136694. Epub 2015 Aug 25. PMID: **26305906**

Article Published Date : Dec 31, 2014

Authors : Qianmei Zhou, Meina Ye, Yiyu Lu, Hui Zhang, Qilong Chen, Shuang Huang, Shibing Su

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Triple Negative : CK(262) : AC(144), Breast Cancer Stem Cells : CK(23) : AC(18)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075) , Chemopreventive : CK(2835) : AC(787) , Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Chemothapeutic Synergy: Paclitaxel : CK(32) : AC(23) , Chemotherapeutic Synergy: Cisplatin : CK(80) : AC(57), Chemotherapeutic Synergy: Doxorubicin : CK(44) : AC(32) , Chemotherapeutic Synergy: Mitomycin C : CK(1) : AC(1)

Curcumin significantly inhibited the growth of human breast cancer cells MCF-7 by inducing apoptosis in a dose and time dependent manner.

Pubmed Data : Iran J Cancer Prev. 2015 May ;8(3):e2331. Epub 2015 May 25. PMID: **26413251**

Article Published Date : Apr 30, 2015

Authors : Zeinab Khazaei Koohpar, Maliheh Entezari, Abolfazl Movafagh, Mehrdad Hashemi

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Dose Response : CK(1056) : AC(408) , Gene Expression Regulation : CK(431) : AC(214)

Curcumin suppresses breast cancer cells growth.

Pubmed Data : FEBS J. 2010 Aug;277(16):3437-48. Epub 2010 Jul 14. PMID: **20646066**

Article Published Date : Aug 01, 2010

Authors : Mithu Banerjee, Parminder Singh, Dulal Panda

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612)

Curcumin synergistically increases effects of beta-interferon and retinoic acid on breast cancer cells in vitro and in vivo.

Pubmed Data : J Drug Target. 2016 Sep 28:1-23. Epub 2016 Sep 28. PMID: **27677346**

Article Published Date : Sep 27, 2016

Authors : Min Ren, Ying Wang, Xiaodong Wu, Suxia Ge, Benzhong Wang

Study Type : Animal Study, In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075)
Additional Keywords : Natural Substance Synergy : CK(540) : AC(249)

Curcumin work synergistically with a PI3K inhibitor to induce cell death in breast cancer cellis.

Pubmed Data : Biochem Biophys Res Commun. 2010 Apr 9;394(3):476-81. Epub 2010 Feb 6. PMID: **20138829**

Article Published Date : Apr 09, 2010

Authors : Jaleel Kizhakkayil, Faisal Thayyullathil, Shahanas Chathoth, Abdulkader Hago, Mahendra Patel, Sehamuddin Galadari

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Apoptotic : CK(2958) : AC(2075) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Curcumin works synergistically with paclitaxel to inhibit

breast cancer cell metastasis to the lung in a mouse model.

Pubmed Data : Clin Cancer Res. 2005 Oct 15;11(20):7490-8. PMID: **16243823**

Article Published Date : Oct 15, 2005

Authors : Bharat B Aggarwal, Shishir Shishodia, Yasunari Takada, Sanjeev Banerjee, Robert A Newman, Carlos E Bueso-Ramos, Janet E Price

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Lung Metastasis : CK(23) : AC(14) , Lung Cancer : CK(1043) : AC(393)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Apoptotic : CK(2958) : AC(2075) , Cyclooxygenase 2 Inhibitors : CK(464) : AC(272) , Matrix metalloproteinase-2 (MMP-2) inhibitor : CK(287) : AC(147), NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Drug: Paclitaxel : CK(36) : AC(13) , Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Experimental evidence has shown that curcumin also regulates apoptosis and cell phase-related genes and microRNA in breast cancer cells.

Pubmed Data : J Lab Autom. 2016 Jun 20. Epub 2016 Jun 20. PMID: **27325106**

Article Published Date : Jun 19, 2016

Authors : Yiwei Wang, Jiayi Yu, Ran Cui, Jinjin Lin, Xianting Ding

Study Type : Review
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Resveratrol and curcumin synergistically caused apoptosis in cigarette smoke induced breast cancer cells.

Pubmed Data : Int J Biochem Cell Biol. 2015 Sep ;66:75-84. Epub 2015 Jul 23. PMID: **26212257**

Article Published Date : Aug 31, 2015

Authors : Purusottam Mohapatra, Shakti Ranjan Satapathy, Sumit Siddharth, Dipon Das, Anmada Nayak, Chanakya Nath Kundu

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Resveratrol : CK(1283) : AC(746)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Chemically-Induced : CK(26) : AC(16)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Additional Keywords : Natural Substance Synergy : CK(540) : AC(249)

Tetrahydrocurcumin exhibited significant cell growth inhibition by inducing MCF-7 cells to undergo mitochondrial apoptosis and G2/M arrest.

Pubmed Data : Food Chem Toxicol. 2014 May ;67:193-200. Epub 2014 Mar 1. PMID: **24593988**

Article Published Date : Apr 30, 2014

Authors : Ning Kang, Miao-Miao Wang, Ying-Hui Wang, Zhe-Nan Zhang, Hong-Rui Cao, Yuan-Hao Lv, Yang Yang, Peng-Hui Fan, Feng Qiu, Xiu-Mei Gao

Study Type : Human In Vitro
Additional Links
Substances : Curcumin: Degradiation byproducts : CK(1) : AC(1) , Tetrahydrocurcumin : CK(66) : AC(30)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Bcl-2 protein down-regulation : CK(198) : AC(131), Caspase-3 Activation : CK(91) : AC(66) , Cell cycle arrest : CK(810) : AC(612), P21 Activation : CK(72) : AC(47)

Tetrahydrocurcumin was found to have markedly cytotoxic and anti-proliferative activities against MCF-7 cells.

Pubmed Data : Food Nutr Res. 2016 ;60:30616. Epub 2016 Feb 17. PMID: **26899573**

Article Published Date : Dec 31, 2015

Authors : Xiao Han, Shan Deng, Ning Wang, Yafei Liu, Xingbin Yang

Study Type : In Vitro Study
Additional Links
Substances : Tetrahydrocurcumin : CK(66) : AC(30)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Chemopreventive : CK(2835) : AC(787)
Additional Keywords : Dose Response : CK(1056) : AC(408)

The anti-breast cancer activity of curcumin may be due in part to its down-regulation of insulin-like growth factor.

Pubmed Data : Life Sci. 2007 May 16;80(23):2161-9. Epub 2007 Apr 21. PMID: **17499312**

Article Published Date : May 16, 2007

Authors : Yanqiu Xia, Liji Jin, Bin Zhang, Hongyu Xue, Qiujuan Li, Yongping Xu

Study Type : In Vitro Study
Additional Links

Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Insulin-like Growth Factor (IGF): Elevated : CK(33) : AC(6)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2546) : AC(1685), Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612) , Insulin-Like Growth Factor Inhibition/Downregulation : CK(76) : AC(17)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

This review summarizes the studies revealing the preventive and therapeutic effects of curcumin and its analogs.

Pubmed Data : Integr Biol (Camb). 2012 Sep ;4(9):996-1007. Epub 2012 Jul 6. PMID: 22772921

Article Published Date : Aug 31, 2012

Authors : Ganji Purnachandra Nagaraju, Sheik Aliya, Syed F Zafar, Riyaz Basha, Roberto Diaz, Bassel F El-Rayes

Study Type : Review
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Curcuminoids : CK(4224) : AC(2161)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(634) : AC(414), Anticarcinogenic Agents : CK(1099) : AC(519) , Apoptotic : CK(2958) : AC(2075) , Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2835) : AC(787)
Additional Keywords : Gene Expression Regulation : CK(431) : AC(214) , Resistance Reversal : CK(13) : AC(9)

This study support the hypothesis that blocking the PI3K/Akt pathway may further increase curcumin induced apoptosis and overcome forced Bcl-2 expression.

Pubmed Data : Biomed Pharmacother. 2015 Apr ;71:161-71. Epub 2015 Mar 4. PMID: 25960232

Article Published Date : Mar 31, 2015

Authors : Yunus Akkoç, Özge Berrak, Elif Damla Arısan, Pınar Obakan, Ajda Çoker-Gürkan, Narçin Palavan-Ünsal

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Apoptotic : CK(2958) : AC(2075)

Curcumin and genistein, plant natural products, show synergistic inhibitory effects on the growth of human breast

cancer MCF-7 cells induced by estrogenic pesticides.

Pubmed Data : Biochem Biophys Res Commun. 1997 Apr 28;233(3):692-6. PMID: **9168916**

Article Published Date : Apr 28, 1997

Authors : S P Verma, E Salamone, B Goldin

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Genistein : CK(515) : AC(228), Isoflavones : CK(631) : AC(129)
Diseases : Breast Cancer : CK(3592) : AC(1064), Pesticide Toxicity : CK(192) : AC(61)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Curcumin exerts multiple suppressive effects on human breast carcinoma cells.

Pubmed Data : Int J Cancer. 2002 Mar 10;98(2):234-40. PMID: **11857414**

Article Published Date : Mar 10, 2002

Authors : Zhi-Ming Shao, Zhen-Zhou Shen, Can-Hui Liu, Maryam R Sartippour, Vay Liang Go, David Heber, Mai Nguyen

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064), Cancer Metastasis : CK(442) : AC(206)
Pharmacological Actions : Anti-Angiogenic : CK(197) : AC(137), Anti-metastatic : CK(634) : AC(414), Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2546) : AC(1685)

Curcumin exhibits anti-proliferative effects of curcumin against breast cancer.

Pubmed Data : Eur J Pharmacol. 2010 Jul 10;637(1-3):16-21. Epub 2010 Apr 10. PMID: **20385124**

Article Published Date : Jul 10, 2010

Authors : Wen-Feng Hua, Yong-Shui Fu, Yi-Ji Liao, Wen-Jie Xia, Yang-Chao Chen, Yi-Xin Zeng, Hsiang-Fu Kung, Dan Xie

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Cell cycle arrest : CK(810) : AC(612), Chemopreventive : CK(2835) : AC(787)

Curcumin has anti-breast cancer activity related to the activities of protein kinases on cell signal pathway.

Pubmed Data : Zhong Yao Cai. 2009 May;32(5):728-32. PMID: **19771847**

Article Published Date : May 01, 2009

Authors : Qian-Mei Zhou, Shi-Bing Su, Hui Zhang, Yi-Yu Lu

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Enzyme Inhibitors : CK(473) : AC(251), NF-kappaB Inhibitor : CK(1114) : AC(694) , Protein Kinase Inhibitors : CK(17) : AC(13)

Curcumin has anti-proliferative activity on human breast cancer cells.

Pubmed Data : Can Fam Physician. 1993 Nov;39:2362-7. PMID: **14642080**

Article Published Date : Nov 01, 1993

Authors : Gen-hong Di, He-cheng Li, Zhen-zhou Shen, Zhi-min Shao

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2546) : AC(1685), Matrix metalloproteinase-2 (MMP-2) inhibitor : CK(287) : AC(147) , Vascular Endothelial Growth Factor Inhibitors : CK(123) : AC(61)

Curcumin has antiproliferative effects against human breast tumor cell lines.

Pubmed Data : Anticancer Drugs. 1997 Jun;8(5):470-81. PMID: **9215611**

Article Published Date : Jun 01, 1997

Authors : K Mehta, P Pantazis, T McQueen, B B Aggarwal

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancers: Drug Resistant : CK(352) : AC(223) , Cancers: Multi-Drug Resistant : CK(121) : AC(94)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2546) : AC(1685), Cell cycle arrest : CK(810) : AC(612)

Additional Keywords : Drug: Doxorubicin : CK(166) : AC(62)

Curcumin inhibits the proliferation and migration of breast cancer cells.

Pubmed Data : Int J Mol Med. 2009 Apr;23(4):469-75. PMID: **19288022**

Article Published Date : Apr 01, 2009

Authors : Tsung-Lang Chiu, Chin-Cheng Su

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancer Metastasis : CK(442) : AC(206)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2546) : AC(1685), Cell cycle arrest : CK(810) : AC(612)

Curcumin inhibits tyrosine kinase activity associated breast cancer cell promotion.

Pubmed Data : Clin Cancer Res. 1999 Jul;5(7):1884-91. PMID: **10430096**

Article Published Date : Jul 01, 1999

Authors : R L Hong, W H Spohn, M C Hung

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Antiproliferative : CK(2546) : AC(1685), Enzyme Inhibitors : CK(473) : AC(251) , Heat Shock Protein Inducer : CK(83) : AC(30)

Curcuminoids inhibits breast cancer cell proliferation.

Pubmed Data : Pharmacol Res. 2010 Nov 25. Epub 2010 Nov 25. PMID: **9714342**

Article Published Date : Nov 25, 2010

Authors : A Simon, D P Allais, J L Duroux, J P Basly, S Durand-Fontanier, C Delage

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Anticarcinogenic Agents : CK(1099) : AC(519) , Antiproliferative : CK(2546) : AC(1685), Cell cycle arrest : CK(810) : AC(612)

Natural plant compounds may have preventive and therapeutic applications against the growth of breast tumors induced by environmental estroge

Pubmed Data : Environ Health Perspect. 1998 Dec;106(12):807-12. PMID: **9831541**

Article Published Date : Dec 01, 1998

Authors : S P Verma, B R Goldin, P S Lin

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Isoflavones : CK(631) : AC(129)
Diseases : Breast Cancer : CK(3592) : AC(1064), Estrogen Dominance : CK(107) : AC(38), Pesticide Toxicity : CK(192) : AC(61), Xenobiotic Exposures : CK(54) : AC(6)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639), Antiproliferative : CK(2546) : AC(1685)

Preventive compounds curcumin and piperine are capable of targeting breast stem cells.

Pubmed Data : Breast Cancer Res Treat. 2010 Aug ;122(3):777-85. Epub 2009 Nov 7. PMID: **19898931**

Article Published Date : Aug 01, 2010

Authors : Madhuri Kakarala, Dean E Brenner, Hasan Korkaya, Connie Cheng, Karim Tazi, Christophe Ginestier, Suling Liu, Gabriela Dontu, Max S Wicha

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Piperidines : CK(59) : AC(22)
Diseases : Breast Cancer : CK(3592) : AC(1064), Cancer Stem Cells : CK(105) : AC(64)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685)
Additional Keywords : Cancer Stem Cells : CK(135) : AC(88), Selective Cytotoxicity : CK(158) : AC(112)

The combination of Curcumin and Berberine is a novel strategy that has potential in the treatment of cancer patients.

Pubmed Data : Biomed Res Int. 2015 ;2015:354614. Epub 2015 Jun 29. PMID: **26247019**

Article Published Date : Dec 31, 2014

Authors : Acharya Balakrishna, M Hemanth Kumar

Study Type : In Vitro Study
Additional Links
Substances : Berberine : CK(325) : AC(166), Curcumin : CK(4803) : AC(2175)

Diseases : Acute T cell Leukemias : CK(18) : AC(16) , Breast Cancer : CK(3592) : AC(1064) , Liver Cancer : CK(1235) : AC(462), Lung Cancer : CK(1043) : AC(393)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685)
Additional Keywords : Natural Substance Synergy : CK(540) : AC(249)

The combination of curcumin, EGCG and arctigenin synergistically enhanced the anti-proliferative effects in both prostate and breast cancer cells.

Pubmed Data : RSC Adv. 2014 Aug 5 ;4(66):35242-35250. PMID: **25243063**

Article Published Date : Aug 04, 2014

Authors : Piwen Wang, Bin Wang, Seyung Chung, Yanyuan Wu, Susanne M Henning, Jaydutt V Vadgama

Study Type : In Vitro Study
Additional Links
Substances : Arctigenin : CK(14) : AC(9) , Burdock : CK(42) : AC(26) , Curcumin : CK(4803) : AC(2175) , EGCG (Epigallocatechin gallate) : CK(1956) : AC(314), Green Tea : CK(1976) : AC(562)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Prostate Cancer : CK(1499) : AC(438)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Chemopreventive : CK(2835) : AC(787)
Additional Keywords : Natural Substance Synergy : CK(540) : AC(249)

The combination of epigallocatechin gallate and curcumin suppresses ER alpha-breast cancer cell growth in vitro and in vivo.

Pubmed Data : Int J Cancer. 2008 May 1;122(9):1966-71. PMID: **18098290**

Article Published Date : May 01, 2008

Authors : Tiffany J Somers-Edgar, Marissa J Scandlyn, Emma C Stuart, Martin J Le Nedelec, Sophie P Valentine, Rhonda J Rosengren

Study Type : Animal Study
Additional Links
Substances : Catechin : CK(512) : AC(169), Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antiproliferative : CK(2546) : AC(1685), Estrogen Receptor Modulators : CK(51) : AC(31), Vascular Endothelial Growth Factor Inhibitors : CK(123) : AC(61)
Additional Keywords : ER Alpha-Breast Cancer : CK(2) : AC(1)

This study indicates the protective effects of a dendrosomal curcumin formulation on mice metastatic breast cancer.

Pubmed Data : Asian Pac J Cancer Prev. 2015 ;16(9):3917-22. PMID: **25987060**

Article Published Date : Dec 31, 2014

Authors : Sadaf Shiri, Ali Mohammad Alizadeh, Behzad Baradaran, Baharak Farhanghi, Dariush Shanehbandi, Saeed Khodayari, Hamid Khodayari, Abbas Tavassoli

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Metastatic : CK(123) : AC(52)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414) , Antiproliferative : CK(2546) : AC(1685), Immunomodulatory : CK(1287) : AC(358)
Additional Keywords : Gene Expression Regulation : CK(431) : AC(214) , Tumor Microenvironment : CK(29) : AC(21)

A review of recent applications of curcumin as anti-invasive and antimetastatic agent in in vitro and in vivo and ex vivo studies as well as associated molecular mechanisms.

Pubmed Data : Front Chem. 2014 ;2:113. Epub 2014 Dec 23. PMID: **25566531**

Article Published Date : Dec 31, 2013

Authors : Debasish Bandyopadhyay

Study Type : Review
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Colon Cancer : CK(749) : AC(430) , Esophageal Cancer : CK(506) : AC(85), Liver Cancer : CK(1235) : AC(462) , Lung Cancer : CK(1043) : AC(393) , Stomach Cancer : CK(579) : AC(194)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-metastatic : CK(634) : AC(414), Anticarcinogenic Agents : CK(1099) : AC(519) , Chemopreventive : CK(2835) : AC(787)

Aromatic-turmerone attenuates invasion and expression of MMP-9 and COX-2 through inhibition of NF-κB activation in TPA-induced breast cancer cells.

Pubmed Data : J Cell Biochem. 2012 Dec ;113(12):3653-62. PMID: **22740037**

Article Published Date : Nov 30, 2012

Authors : Sun Young Park, Young Hun Kim, YoungHee Kim, Sang-Joon Lee

Study Type : In Vitro Study
Additional Links
Substances : Turmerones : CK(9) : AC(6)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414) , Cyclooxygenase 2 Inhibitors : CK(464) : AC(272), Matrix metalloproteinase-9 (MMP-9) inhibitor : CK(212) : AC(128) , NF-kappaB Inhibitor :

CK(1114) : AC(694)

Curcumin blocks RON tyrosine kinase-mediated invasion of breast carcinoma cells.

Pubmed Data : Cancer Res. 2008 Jul 1;68(13):5185-92. PMID: **18593918**

Article Published Date : Jul 01, 2008

Authors : Madhusudhanan Narasimhan, Sudhakar Ammanamanchi

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancer Metastasis : CK(442) : AC(206)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414) , NF-kappaB Inhibitor : CK(1114) : AC(694)

Curcumin decreased expression of epithelial-mesenchymal transition-related genes in Tumor2 cell line.

Pubmed Data : Int J Oncol. 2016 Jun ;48(6):2534-42. Epub 2016 Apr 7. PMID: **27082017**

Article Published Date : May 31, 2016

Authors : Marcela Gallardo, Gloria M Calaf

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414)
Additional Keywords : Fibronectin : CK(26) : AC(7)

Demethoxycurcumin suppresses migration and invasion of human breast cancer cell line.

Pubmed Data : Eur J Pharmacol. 2010 Feb 10;627(1-3):8-15. Epub 2009 Oct 7. PMID: **19818349**

Article Published Date : Feb 10, 2010

Authors : Supachai Yodkeeree, Chadarat Ampasavate, Bokyung Sung, Bharat B Aggarwal, Pornngarm Limtrakul

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175) , Demethoxycurcumin : CK(23) : AC(12) , Turmeric : CK(5032) : AC(2348)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancer Metastasis : CK(442) : AC(206)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414) , NF-kappaB Inhibitor : CK(1114) : AC(694)

Dendrosomal curcumin has a chemoprotective effect on the breast cancer metastasis through suppression of NF-κB and its regulated gene products.

Pubmed Data : Eur J Pharmacol. 2015 Jul 5 ;758:188-96. Epub 2015 Apr 8. PMID: **25863259**

Article Published Date : Jul 04, 2015

Authors : Baharak Farhangi, Ali Mohammad Alizadeh, Hamid Khodayari, Saeed Khodayari, Mohammad Javad Dehghan, Vahid Khori, Alemeh Heidarzadeh, Mahmood Khaniki, Majid Sadeghiezadeh, Farhood Najafi

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Metastatic : CK(123) : AC(52)
Pharmacological Actions : Anti-metastatic : CK(634) : AC(414) , Cyclooxygenase 2 Inhibitors : CK(464) : AC(272), Matrix metalloproteinase-9 (MMP-9) inhibitor : CK(212) : AC(128) , NF-kappaB Inhibitor : CK(1114) : AC(694), Vascular Endothelial Growth Factor Inhibitors : CK(123) : AC(61)

This reviews the many different molecular aspects of curcumin in breast cancer treatments.

Pubmed Data : Anticancer Agents Med Chem. 2015 May 14 ;15(5):647-56. PMID: **25553436**

Article Published Date : May 13, 2015

Authors : Parveen Kumar, Almesh Kadakol, Prashanth Krishna Shasthrula, Nitin Arunrao Mundhe, Vinayak Sudhir Jamdade, Chandana C Barua, Anil Bhanudas Gaikwad

Study Type : Review
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Angiogenesis Inhibitors : CK(114) : AC(62) , Anti-Inflammatory Agents : CK(4861) : AC(1630), Anti-metastatic : CK(634) : AC(414) , NF-kappaB Inhibitor : CK(1114) : AC(694)
Additional Keywords : Natural Substance/Drug Synergy : CK(352) : AC(142)

Curcumin inhibits the growth of breast cancer through the manipulation of the arachidonate metabolism.

Pubmed Data : BMC Cancer. 2007;7:138. Epub 2007 Jul 25. PMID: **17651499**

Article Published Date : Jan 01, 2007

Authors : Rasha Hammamieh, Dena Sumaida, XiaoYan Zhang, Rina Das, Marti Jett

Study Type : In Vitro Study
Additional Links

Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancers: Drug Resistant : CK(352) : AC(223)
Pharmacological Actions : Anti-Inflammatory Agents : CK(4861) : AC(1630) , Cyclooxygenase Inhibitors : CK(71) : AC(39), Lipoxygenase Inhibitors : CK(38) : AC(17)
Additional Keywords : Drug: Doxorubicin : CK(166) : AC(62)

"Curcumin enhances the anticancer effects of trichostatin a in breast cancer cells."

Pubmed Data : Mol Carcinog. 2012 Jan 30. Epub 2012 Jan 30. PMID: **22290509**

Article Published Date : Jan 30, 2012

Authors : Guang Yan, Kimmer Graham, Susan Lanza-Jacoby

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Chemosensitizer : CK(394) : AC(286)
Additional Keywords : Drug Synergy : CK(351) : AC(156)

Apple and curcumin extracts contain phytochemicals which inhibit cellular processes associated with breast cancer cell resistance to chemotherapy.

Pubmed Data : J Agric Food Chem. 2007 Apr 18;55(8):3167-73. Epub 2007 Mar 21. PMID: **17373813**

Article Published Date : Apr 18, 2007

Authors : Hyungeun Yoon, Rui Hai Liu

Study Type : In Vitro Study
Additional Links
Substances : Apples : CK(374) : AC(100) , Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : NF-kappaB Inhibitor : CK(1114) : AC(694)

Curcumin and phototherapy have anti-breast cancer properties.

Pubmed Data : Rom J Morphol Embryol. 2015 ;56(1):71-6. PMID: **25826489**

Article Published Date : Dec 31, 2014

Authors : Hussam Abuelba, Carmen Elena Cotrutz, Bogdan Alexandru Stoica, Laura Stoica, DoiniŢa Olinici, Tudor Petreuş

Study Type : In Vitro Study

Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Therapeutic Actions : Sunlight exposure : CK(455) : AC(49)

Curcumin bound to phosphatidylcholine is superior to plain curcumin in combatting mammary gland tumor cell proliferation.

Pubmed Data : In Vivo. 2010 Jul-Aug;24(4):401-8. PMID: **20668306**

Article Published Date : Jul 01, 2010

Authors : Abdelazim Ibrahim, Abdelmouneim El-Meligy, Hamdy Fetaih, Amina Dessouki, George Stoica, Rola Barhoumi

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Phosphatidylcholine : CK(101) : AC(22)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639)

Curcumin exhibits anti-breast cancer properties.

Pubmed Data : Biochim Biophys Acta. 2007 Jul;1773(7):1116-23. Epub 2007 May 1. PMID: **17555831**

Article Published Date : Jul 01, 2007

Authors : Huang-Ge Zhang, Helen Kim, Cunren Liu, Shaohua Yu, Jianhua Wang, William E Grizzle, Robert P Kimberly, Stephen Barnes

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639)
Additional Keywords : Exosomes : CK(35) : AC(10)

Curcumin exhibits anti-cancer properties in breast cancer cells.

Pubmed Data : Biochem Pharmacol. 1998 Jul 15;56(2):197-206. PMID: **9698073**

Article Published Date : Jul 15, 1998

Authors : H P Ciolino, P J Daschner, T T Wang, G C Yeh

Study Type : In Vitro Study
Additional Links

Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Anticarcinogenic Agents : CK(1099) : AC(519)

Curcumin has a potent preventive action against radiation-induced breast cancer initiation.

Pubmed Data : Carcinogenesis. 2000 Oct;21(10):1835-41. PMID: **11023541**

Article Published Date : Oct 01, 2000

Authors : H Inano, M Onoda, N Inafuku, M Kubota, Y Kamada, T Osawa, H Kobayashi, K Wakabayashi

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Radiation Induced Illness : CK(1046) : AC(264)
Pharmacological Actions : Anticarcinogenic Agents : CK(1099) : AC(519) , Radioprotective : CK(756) : AC(262)

Curcumin has a potent preventive activity during the DES-dependent promotion stage of radiation-induced mammary tumorigenesis.

Pubmed Data : Carcinogenesis. 1999 Jun;20(6):1011-8. PMID: **10357781**

Article Published Date : Jun 01, 1999

Authors : H Inano, M Onoda, N Inafuku, M Kubota, Y Kamada, T Osawa, H Kobayashi, K Wakabayashi

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Radiation Induced Illness : CK(1046) : AC(264)
Pharmacological Actions : Anticarcinogenic Agents : CK(1099) : AC(519) , Radioprotective : CK(756) : AC(262)

Curcumin has a preventive effect on chemically-induced breast cancer.

Pubmed Data : Carcinogenesis. 1998 Jun;19(6):1039-43. PMID: **9667742**

Article Published Date : Jun 01, 1998

Authors : K Singletary, C MacDonald, M Iovinelli, C Fisher, M Wallig

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)

Diseases : Breast Cancer : CK(3592) : AC(1064) , DNA damage : CK(1017) : AC(387)
Pharmacological Actions : Anticarcinogenic Agents : CK(1099) : AC(519)

Curcumin induces p16 and its downstream target miR-146b-5p and suppresses IL-6.

Pubmed Data : Oncotarget. 2015 Aug 17. Epub 2015 Aug 17. PMID: **26338965**

Article Published Date : Aug 16, 2015

Authors : Mysoon M Al-Ansari, Abdelilah Aboussekhra

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787) , Interleukin-6 Downregulation : CK(1137) : AC(354), MicroRNA modulator : CK(264) : AC(145) , P16 Activation : CK(1) : AC(1)
Additional Keywords : Gene Expression Regulation : CK(431) : AC(214)

Curcumin inhibit the growth of hormone-independent and multi-drug resistant breast cancer cells.

Pubmed Data : Ann N Y Acad Sci. 2009 Feb;1155:278-83. PMID: **19250217**

Article Published Date : Feb 01, 2009

Authors : Manuela Labbozzetta, Monica Notarbartolo, Paola Poma, Annamaria Maurici, Luigi Inguglia, Paolo Marchetti, Michele Rizzi, Riccardo Baruchello, Daniele Simoni, Natale D'Alessandro

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Cancers: Multi-Drug Resistant : CK(121) : AC(94)

Curcumin inhibits cyclooxygenase and matrix metalloproteinase-8 expression associated with breast cancer progrression.

Pubmed Data : Antioxid Redox Signal. 2005 Nov-Dec;7(11-12):1612-20. PMID: **16356124**

Article Published Date : Nov 01, 2005

Authors : Ki Won Lee, Jung-Hwan Kim, Hyong Joo Lee, Young-Joon Surh

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)

Pharmacological Actions : Cyclooxygenase 2 Inhibitors : CK(464) : AC(272) , Matrix metalloproteinase-9 (MMP-9) inhibitor : CK(212) : AC(128), NF-kappaB Inhibitor : CK(1114) : AC(694)

Curcumin inhibits invasive ductal carcinoma of the breast in the cell model.

Pubmed Data : Chem Biol Interact. 2010 Feb 12;183(3):455-61. Epub 2009 Nov 26. PMID: **19944674**

Article Published Date : Feb 12, 2010

Authors : Chandra P Prasad, Gayatri Rath, Sandeep Mathur, Dinesh Bhatnagar, Ranju Ralhan

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Ductal Carcinoma: Invasive : CK(73) : AC(8)
Pharmacological Actions : Anti-Proliferative : CK(59) : AC(52) , Antineoplastic Agents : CK(1158) : AC(639), Maspin (Protease Inhibitor) Up-Regulation : CK(1) : AC(1) , Protease Inhibitors : CK(15) : AC(6) , Tumor Suppressor Protein p53 Upregulation : CK(293) : AC(202)

Curcumin inhibits telomerase activity in breast ancer cells.

Pubmed Data : J Urol. 2011 Feb;185(2):719-24. Epub 2010 Dec 18. PMID: **12104041**

Article Published Date : Feb 01, 2011

Authors : Cheppail Ramachandran, Hugo B Fonseca, Perseus Jhabvala, Enrique A Escalon, Steven J Melnick

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Enzyme Inhibitors : CK(473) : AC(251) , Telomerase Inhibitor : CK(55) : AC(35)

Curcumin is an inhibitor of S-palmitoylation with some selectivity establishes a possible unifying mechanism for at least some of curcumin’s seemingly pleiotropic effects.

Pubmed Data : PLoS One. 2015 ;10(5):e0125399. Epub 2015 May 4. PMID: **25938910**

Article Published Date : Dec 31, 2014

Authors : David T Coleman, Young Hwa Soung, Young-Joon Surh, James A Cardelli, Jun Chung

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Breast Cancer: Metastatic : CK(123) : AC(52)

Pharmacological Actions : Palmitoylation Inhibitors : CK(1) : AC(1)

Curcumin prevents chemically-induced mammary cancer.

Pubmed Data : Cancer Lett. 1996 Jun 5;103(2):137-41. PMID: **8635149**

Article Published Date : Jun 05, 1996

Authors : K Singletary, C MacDonald, M Wallig, C Fisher

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , DNA damage : CK(1017) : AC(387)
Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639)

Curcumin prevents progestin-induced breast cancer cell promotion.

Pubmed Data : Menopause. 2008 May-Jun;15(3):570-4. PMID: **18467956**

Article Published Date : May 01, 2008

Authors : Candace E Carroll, Mark R Ellersieck, Salman M Hyder

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Drug-Induced Toxicity: Progestin : CK(1) : AC(1)
Pharmacological Actions : Anti-Angiogenic : CK(197) : AC(137), Vascular Endothelial Growth Factor A Inhibitor : CK(132) : AC(71)

Curcumin reduced the side effects of mitomycin C in the treatment of breast cancer.

Pubmed Data : Cancer Sci. 2009 Nov;100(11):2040-5. Epub 2009 Jul 23. PMID: **19703194**

Article Published Date : Nov 01, 2009

Authors : Qian-Mei Zhou, Hui Zhang, Yi-Yu Lu, Xiu-Feng Wang, Shi-Bing Su

Study Type : Animal Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064) , Chemotherapy Induced Myelotoxicity : CK(48) : AC(13), Chemotherapy-Induced Toxicity : CK(1033) : AC(327) , Chemotherapy-Induced Toxicity: Mitomycin-C : CK(7) : AC(4), DNA damage : CK(1017) : AC(387)
Pharmacological Actions : Renoprotective : CK(572) : AC(254)
Additional Keywords : Drug: Mitomycin : CK(4) : AC(3) , Drug Synergy : CK(351) : AC(156)

Curcumin reduces the expression of malignancy-associated Bcl-2 in breast cancer cells.

Pubmed Data : Med Oncol. 2010 Dec;27(4):1114-8. Epub 2009 Nov 12. PMID: **19908170**

Article Published Date : Dec 01, 2010

Authors : Jie Yang, Yunxin Cao, Jifeng Sun, Yong Zhang

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Bcl-2 protein down-regulation : CK(198) : AC(131)

Curcumin suppresses human breast cancer cell growth.

Pubmed Data : Chem Biol Interact. 2009 Oct 7;181(2):263-71. Epub 2009 Jun 30. PMID: **19573523**

Article Published Date : Oct 07, 2009

Authors : Chandra P Prasad, Gayatri Rath, Sandeep Mathur, Dinesh Bhatnagar, Ranju Ralhan

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175)
Diseases : Breast Cancer : CK(3592) : AC(1064)

Curcumoids inhibit matrix metalloproteinase-3 secretion in human invasive breast carcinoma cells.

Pubmed Data : Arch Pharm Res. 2010 Jul;33(7):989-98. Epub 2010 Jul 27. PMID: **20661707**

Article Published Date : Jul 01, 2010

Authors : Mathanaporn Boonrao, Supachai Yodkeeree, Chadarat Ampasavate, Songyot Anuchapreeda, Pornngarm Limtrakul

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Turmeric : CK(5032) : AC(2348)
Diseases : Breast Cancer : CK(3592) : AC(1064), Cancer Metastasis : CK(442) : AC(206)
Pharmacological Actions : Matrix metalloproteinase-3 (MMP-3) inhibitor : CK(61) : AC(18), Matrix metalloproteinase-9 (MMP-9) inhibitor : CK(212) : AC(128)

The present review may provide information on the use of these natural compounds for the prevention of breast

cancer.

Pubmed Data : J Cancer Prev. 2015 Dec ;20(4):223-31. Epub 2015 Dec 30. PMID: **26734584**

Article Published Date : Nov 30, 2015

Authors : Eun-Yi Ko, Aree Moon

Study Type : Review
Additional Links
Substances : Capsaicin : CK(129) : AC(55), Curcumin : CK(4803) : AC(2175), Genipin : CK(1) : AC(1), Lycopene : CK(365) : AC(78), Ursolic Acid : CK(60) : AC(39)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)

This review summarizes the epigenetic events associated with breast cancer and the potential of dietary polyphenols to modulate these events.

Pubmed Data : Chem Res Toxicol. 2012 Jan 13 ;25(1):61-73. Epub 2011 Oct 28. PMID: **21992498**

Article Published Date : Jan 12, 2012

Authors : Shabana I Khan, Pranapda Aumsuwan, Ikhlas A Khan, Larry A Walker, Asok K Dasmahapatra

Study Type : Review
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), EGCG (Epigallocatechin gallate) : CK(1956) : AC(314), Genistein : CK(515) : AC(228), Green Tea : CK(1976) : AC(562), Isothiocyanates : CK(573) : AC(265), Resveratrol : CK(1283) : AC(746), Soy : CK(1787) : AC(399), Sulforaphane : CK(533) : AC(262), Turmeric : CK(5032) : AC(2348)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Anticarcinogenic Agents : CK(1099) : AC(519), Chemopreventive : CK(2835) : AC(787)
Additional Keywords : Risk Reduction : CK(6417) : AC(686)

This study identified novel mechanisms by which curcumin and piperine target breast stem cell self-renewal.

Pubmed Data : Breast Cancer Res Treat. 2016 Jun 15. Epub 2016 Jun 15. PMID: **27306423**

Article Published Date : Jun 14, 2016

Authors : Justin A Colacino, Sean P McDermott, Maureen A Sartor, Max S Wicha, Laura S Rozek

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(4803) : AC(2175), Piperine : CK(114) : AC(60)
Diseases : Breast Cancer : CK(3592) : AC(1064)
Pharmacological Actions : Chemopreventive : CK(2835) : AC(787)
Additional Keywords : Cancer Stem Cells : CK(135) : AC(88), Gene Expression Regulation : CK(431) :

AC(214)

Various plant substances inhibit chemically-induced mammary gland tumor promotion.

Pubmed Data : Nutr Cancer. 2008 Mar-Apr;60(2):227-34. PMID: **1905902**

Article Published Date : Mar 01, 2008

Authors : R G Mehta, R C Moon

Study Type : In Vitro Study

Additional Links

Substances : Beta Sitosterol : CK(45) : AC(15) , Curcumin : CK(4803) : AC(2175) , D-Limonene : CK(20) : AC(8), DHEA (Dehydroepiandrosterone) : CK(229) : AC(36) , Silymarin : CK(130) : AC(33)

Diseases : Breast Cancer : CK(3592) : AC(1064)

Pharmacological Actions : Antineoplastic Agents : CK(1158) : AC(639) , Chemopreventive : CK(2835) : AC(787)