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Research Topic

Infection: Antibiotic Resistant

Research Subtopics

Bacterial Infections: Resistance/Biofilm Formation
Carbapenem-resistant Acinetobacter baumannii (CRAB)
MRSA
Methicillin-resistant Staphylococcus aureus
Staphylococcus aureus: Methicillin-resistant (MRSA)

This Smart Search PDF was created based on **1** research topic. There are a total of **141** unique research articles on GreenMedInfo.com in regard to your search topic, all compiled in this research document.

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.

Our technology pulls from the equivalent of 20,454+ years of scientific experimental labor and pulls results based on variables the user decides are relevant.

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

Overview of Terms Associated with Your Search Topic

119 Relevant Results for Substances

Substance Name	Cumulative Knowledge	Article Count
Garlic	12	10
Cinnamon	8	8
Clove	5	5
Eucalyptus	4	3
Cranberry	12	3
Tea Tree	12	3
Cinnamaldehyde	3	3
Honey	3	3
Peppermint	3	2
Copper	2	2
Grapefruit	2	2
Lemongrass	2	2
Allicin	1	1
Manuka Honey	22	4
EGCG (Epigallocatechin gallate)	12	3
Probiotics	12	3
Silver (nanoparticles)	12	4
Catechin	11	2

Grapefruit Seed Extract	11	2
Turmeric	7	3
Nigella sativa (aka Black Seed)	6	2
Curcumin	3	3
Grape Seed Extract	3	2
Rosemary	3	2
Thyme	3	2
Banana	2	2
Bay leaf	2	2
Bee Propolis	2	2
Cumin	2	2
Ginger	2	2
Green Tea	2	2
Kaempferol	2	2
Pomegranate	2	2
Mango Seed	1	1
Quercus infectoria	1	1
Raspberry root	1	1
Sage	1	1
Sandalwood	1	1
Tarragon	1	1
Wormwood	1	1
Breast Milk	10	1
Lactobacillus fermentum	10	1
Lactobacillus probiotics	10	1
Lactobacillus salivarius	10	1
Lauric acid	5	1
Traditional Herbal Recipes: Thai	5	1

Flavonoids	3	2
Lactoferrin	3	1
Polyphenols	3	2
Berberine	2	2
Bifidobacterium Breve	2	1
Cannabinoids	2	2
Cannabis	2	2
Dill	2	1
Galactooligosaccharides	2	1
Honokiol	2	2
Magnolol	2	2
Silver Compouds	2	2
18β-Glycyrrhetinic Acid	1	1
Alnus pendula	1	1
Alpinia galanga	1	1
Artemisia absinthium	1	1
Bacteriocin	1	1
Baicalein	1	1
Bee Venom	1	1
Caffeoylquinic Acids	1	1
Carvacrol	1	1
Catnip	1	1
Citrus Oils	1	1
Coriandor	1	1
Cranberry Proanthocyanidins	1	1
Dandelion	1	1
Elderberry	1	1
Elecampane	1	1
Epicatechin	1	1

Ethyl p-methoxycinnamate (EPMC)	1	1
Gallotannins	1	1
Geranium	1	1
Goldenseal	1	1
Guava	1	1
Hibiscus sabdariffa	1	1
Honey: Ulmo	1	1
Honeydew (melon)	1	1
Hypericum japonicum	1	1
Kaempferia galanga	1	1
Lactobacillus Acidophilus	1	1
Lactobacillus casei	1	1
Lactobacillus paracasei	1	1
Lactobacillus rhamnosus GG	1	1
Lavender	1	1
Lemongrass: Essential Oil	1	1
Lime	1	1
Magnolia	1	1
Mango kernel	1	1
Mangosteen	1	1
Maple Syrup	1	1
Mint	1	1
Nettle	1	1
Norway spruce	1	1
Nutmeg	1	1
Oleanolic acid	1	1
Oleic acid	1	1
Olive leaf extract	1	1

Orange oil	1	1
Oregano	1	1
Piperine	1	1
Pomegranate Polyphenols	1	1
Prickly Ash	1	1
Proanthocyanidins	1	1
Propionibacterium acnes	1	1
Quercetin	1	1
Resins	1	1
Sojacareubin	1	1
Tabebuia	1	1
Thymoquinone	1	1
Tomatidine	1	1
Ursolic Acid	1	1
Vitamin C	1	1
Vitamin D	1	1

9 Relevant Results for Problem Substances

Problem Substance Name	Cumulative Knowledge	Article Count
Antibiotics	21	2
Bacillus anthracis	1	1
Fluoroquinolone Antibiotic	20	1
Hydrocortisone	10	1
Meat	10	1
Chlorhexidine gluconate	1	1
Disinfection by-products: In Drinking Water	1	1
Tap Water	1	1
Zinc Chloride	1	1

6 Relevant Results for Therapeutic Actions

Therapeutic Action Name	Cumulative Knowledge	Article Count
Photodynamic therapy	6	2
Light Therapy	2	2
Hyperbaric Treatment	2	1
Laser Treatment: Low-Level	1	1
Light-Emitting Diodes (LEDs) Therapy	1	1
Maggot therapy	1	1

2 Relevant Results for Problematic Actions

Problematic Action Name	Cumulative Knowledge	Article Count
Intrapartum Antibiotics: Group B Streptococcus	3	1
Genetically Modified Organisms	1	1

25 Relevant Results for Keywords

Keyword Name	Cumulative Knowledge	Article Count
Superiority of Natural Substances versus Drugs	31	4
Plant Extracts	23	19
Antibiotic Resistance	52	5
Diseases that are Linked	31	4
Drug Synergy	6	6
Multi-Drug Resistant Pathogens	6	6
Drug-Plant-Vitamin Synergies	4	4
Drug Resistant Pathogens	3	3
Natural Substances Versus Drugs	2	2
Biofilm	12	3

Natural Substance/Drug Synergy	8	8
Antibiotic Alternatives	1	1
Horizontal Gene Transfer	11	2
Drug: Vancomycin	10	1
Meat Packing Industry	10	1
Dose Response	6	2
Phytotherapy	5	1
Bacteriophage Therapy	3	1
Organic Versus Conventional	2	1
Therapeutic Action Synergy with Drugs	2	1
Drug Sparing	1	1
Drug: Mupirocin	1	1
Drug: Triclosan	1	1
Essential Oils	1	1
Natural Substance Synergy	1	1

83 Relevant Results for Diseases

Disease/Symptom	Cumulative Knowledge	Article Count
MRSA	116	45
Staphylococcus aureus infection	16	12
Pseudomonas aeruginosa	13	12
Candida Infection	4	4
Staphylococcus aureus: Methicillin-resistant (MRSA)	124	52
Bacterial Infections: Resistance/Biofilm Formation	67	34
Urinary Tract Infections	33	5
Staphylococcal Infections	14	5
Pseudomonas Infections	12	3

Escherichia coli Infections	10	10
Infection: Antibiotic Resistant	91	25
Staphylococcus epidermidis	11	3
Elderly: Age Specific Diseases	10	1
Leg Ulcer	10	1
Venous Ulcer	10	1
Streptococcus Infections	4	3
Klebsiella Infections	3	3
Streptococcus pyogenes	3	3
Campylobacter Infections	2	2
Cystic Fibrosis: Infections	2	2
Gram-Positive Bacterial Infections	2	2
Methicillin-resistant Staphylococcus aureus	2	2
Mycobacterium tuberculosis	2	2
Tuberculosis	2	2
Anthrax	1	1
Enterobacteriaceae Infections	1	1
Sinusitis	1	1
Pulmonary Tubercolosis	20	1
Upper Respiratory Infections	20	1
Infant Infections	13	2
Vitamin D Deficiency	11	2
Bladder Infections	10	1
Ear Infection	10	1
Heart Failure	10	1
Lactation Disorders	10	1
Leaky Gut Syndrome	10	1
Mastitis	10	1

Osteomyelitis	10	1
Spinal Stenosis	10	1
Staphylococci: Coagulase-Negative (CNS)	10	1
Rhinosinusitis	5	1
Skin Infections	5	1
Neonatal group B streptococcal (GBS) infections	3	1
Otitis media	3	1
Bacillus Cereus infection	2	2
Bacteria: Weaponized	2	2
Bacterial Infections and Mycoses	2	2
Bubonic Plague	2	2
Enterococcus Infections	2	2
Hepatitis C	2	2
Kidney Infection	2	1
Peridontal Infection	2	2
Salmonella Infections	2	2
Urinary Tract Infections: Catheter-Associated	2	1
Bacillus subtilis infections	1	1
Breast Cancer	1	1
Brucellosis	1	1
Carbapenem-resistant Acinetobacter baumannii (CRAB)	1	1
Citrobacter Infection	1	1
Clostridium Infections	1	1
Dental Caries	1	1
Diarrhea: Bacterial	1	1
Gastric Cancer	1	1
Gram-Negative Bacterial Infections	1	1
HIV Infections	1	1

Haemophilus influenzae	1	1
Helicobacter Pylori Infection	1	1
Hepatitis B	1	1
Herpes Simplex Virus Type 1	1	1
Herpes Simplex Virus Type 2	1	1
Influenza	1	1
Klesiella Pneumonia Infection	1	1
Leishmaniasis	1	1
Melanoma	1	1
Mycobacterium Infections	1	1
Pneumonia	1	1
Promyelocytic leukemia	1	1
Proteus Vulgaris Infections	1	1
Sepsis	1	1
Steptococcus Mutans Infections	1	1
Streptococcus infections: Group A	1	1
Vancomycin-Resistant Enterococcus sp. (VRE)	1	1
Wound Healing: Delayed	1	1

11 Relevant Results for Pharmacological Actions

Pharmacological Action Name	Cumulative Knowledge	Article Count
Anti-Bacterial Agents	168	85
Antifungal Agents	3	3
Antimicrobial	13	12
Antiviral Agents	4	2
Antioxidants	3	2
Drug synergy	1	1
Antiparasitic Agents	1	1

Antiproliferative	1	1
Apoptotic	1	1
Disinfectants	1	1
Iron Chelating Agents	1	1

View the Evidence.
141 Research Articles in Total.

Category : Substances

18β-Glycyrrhetinic Acid (AC 1) (CK 1)

18β-Glycyrrhetinic Acid exhibits anti-MRSA properties.

Pubmed Data : Antimicrob Agents Chemother. 2012 Oct 31. Epub 2012 Oct 31. PMID: 23114775
Article Published Date : Oct 30, 2012
Authors : Danyelle R Long, Julia Mead, Jay M Hendricks, Michele E Hardy, Jovanka M Voyich
Study Type : In Vitro Study
Additional Links
Substances : 18β-Glycyrrhetinic Acid : CK(1) : AC(1)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Allicin (AC 1) (CK 1)

The compound found within garlic known as allicin has antibacterial activity against methicillin-resistant Staphylococcus aureus.

Pubmed Data : Br J Biomed Sci. 2004;61(2):71-4. PMID: 15250668

Article Published Date : Jan 01, 2004

Authors : R R Cutler, P Wilson

Study Type : In Vitro Study
Additional Links
Substances : Allicin : CK(44) : AC(22) , Garlic : CK(569) : AC(172)
Diseases : Methicillin-resistant Staphylococcus aureus : CK(199) : AC(65) , MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Alnus pendula (AC 1) (CK 1)

Alnus pendula exhibits antibacterial activity against methicillin-resistant Staphylococcus aureus.

Pubmed Data : Eur Rev Med Pharmacol Sci. 2012 Jul ;16(7):853-9. PMID: 22953631

Article Published Date : Jun 30, 2012

Authors : J G Choi, M W Lee, S E Choi, M H Kim, O H Kang, Y S Lee, H S Chae, B Obiang-Obounou, Y C Oh, M R Kim, D W Shin, J H Lee, D Y Kwon

Study Type : In Vitro Study
Additional Links
Substances : Alnus pendula : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Alpinia galanga (AC 1) (CK 1)

Alpinia galanga contains a compound with activity against multi-drug resistant bacteria.

Pubmed Data : J Ethnopharmacol. 2009 Jun 25;123(3):522-5. Epub 2009 Mar 26. PMID: 19501283

Article Published Date : Jun 25, 2009

Authors : C Latha, Varsha D Shriram, Sheetal S Jahagirdar, Prashant K Dhakephalkar, Supada R

Rojatkar

Study Type : In Vitro Study
Additional Links
Substances : Alpinia galanga : CK(6) : AC(4)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Escherichia coli Infections : CK(100) : AC(43), Salmonella Infections : CK(38) : AC(20)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Drug Sparing : CK(451) : AC(50) , Plant Extracts : CK(6992) : AC(2315)

Artemisia absinthium (AC 1) (CK 1)

Caffeoylquinic Acids from Artemisia absinthium exhibits inhibitory activity against a key multidrug resistance determinant in gram-positive bacteria.

Pubmed Data : PLoS One. 2011;6(4):e18127. Epub 2011 Apr 4. PMID: 21483731

Article Published Date : Jan 01, 2011

Authors : Yiannis C Fiamegos, Panagiotis L Kastritis, Vassiliki Exarchou, Haley Han, Alexandre M J J Bonvin, Jacques Vervoort, Kim Lewis, Michael R Hamblin, George P Tegos

Study Type : In Vitro Study
Additional Links
Substances : Artemisia absinthium : CK(1) : AC(1) , Caffeoylquinic Acids : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Gram-Positive Bacterial Infections : CK(19) : AC(12)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Bacteriocin (AC 1) (CK 1)

A bacteriocin from Lactobacillus paracasei subsp. paracasei BMK2005, an intestinal isolate active against multidrug-resistant pathogens.

Pubmed Data : World J Microbiol Biotechnol. 2012 Apr ;28(4):1543-52. Epub 2011 Dec 3. PMID:

22805936

Article Published Date : Mar 31, 2012

Authors : Kamel Bendjeddou, Michel Fons, Pierre Strocker, Djamila Sadoun

Study Type : In Vitro Study
Additional Links
Substances : Bacteriocin : CK(1) : AC(1) , Lactobacillus paracasei : CK(22) : AC(3)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Baicalein (AC 1) (CK 1)

Baicalein works synergistically with ciproflaxacin against MRSA.

Pubmed Data : J Ethnopharmacol. 2011 Jul 1. Epub 2011 Jul 1. PMID: 21782012

Article Published Date : Jul 01, 2011

Authors : Ben C L Chan, Margaret Ip, Clara B S Lau, S L Lui, Claude Jolivalt, Carine Ganem-Elbaz, Marc Litaudon, Neil E Reiner, Huansheng Gong, Raymond H See, K P Fung, P C Leung

Study Type : In Vitro Study
Additional Links
Substances : Baicalein : CK(7) : AC(6)
Diseases : MRSA : CK(199) : AC(65)
Additional Keywords : Drug Synergy : CK(341) : AC(151)

Banana (AC 2) (CK 2)

A compound from the rhizome of the banana plant have anti-MRSA activity.

Pubmed Data : Zhongguo Zhong Yao Za Zhi. 2010 Sep;35(18):2424-7. PMID: 21141492

Article Published Date : Sep 01, 2010

Authors : Qian Zhang, Wenyi Kang

Study Type : In Vitro Study

Additional Links
Substances : Banana : CK(189) : AC(38)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Banana leaf extracts possess antibacterial and antioxidant activities.

Pubmed Data : Asian Pac J Trop Biomed. 2013 Sep ;3(9):737-42. PMID: 23998016

Article Published Date : Aug 31, 2013

Authors : Ponmurugan Karuppiah, Muhammed Mustaffa

Study Type : In Vitro Study
Additional Links
Substances : Banana : CK(189) : AC(38)
Diseases : Citrobacter Infection : CK(3) : AC(1) , Escherichia coli Infections : CK(100) : AC(43) , Infection: Antibiotic Resistant : CK(350) : AC(112) , Pseudomonas aeruginosa : CK(91) : AC(34)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antioxidants : CK(6711) : AC(2004)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Bay leaf (AC 2) (CK 2)

Compounds isolated from Bay leaf have anti-MRSA activity.

Pubmed Data : Biol Pharm Bull. 2008 Sep;31(9):1794-7. PMID: 18758079

Article Published Date : Sep 01, 2008

Authors : Nao Otsuka, Mei-Hua Liu, Sumiko Shiota, Wakano Ogawa, Teruo Kuroda, Tsutomu Hatano, Tomofusa Tsuchiya

Study Type : In Vitro Study
Additional Links
Substances : Bay leaf : CK(54) : AC(26) , Kaempferol : CK(34) : AC(21)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Kaempferol glycosides purified from Bay leaf work

synergistically with fluorioquinolones on MRSA.

Pubmed Data : Biol Pharm Bull. 2009 Mar;32(3):489-92. PMID: 19252301

Article Published Date : Mar 01, 2009

Authors : Mei-Hua Liu, Nao Otsuka, Kumiko Noyori, Sumiko Shiota, Wakano Ogawa, Teruo Kuroda, Tsutomu Hatano, Tomofusa Tsuchiya

Study Type : In Vitro Study
Additional Links
Substances : Bay leaf : CK(54) : AC(26) , Kaempferol : CK(34) : AC(21)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Drug synergy : CK(51) : AC(12)
Additional Keywords : Drug Synergy : CK(341) : AC(151)

Bee Propolis (AC 2) (CK 2)

Bee propolis contain compounds which have inhibitory activity against methicillin-resistant Staphylococcus aureus (MRSA),

Pubmed Data : Aliment Pharmacol Ther. 1998 Dec;12(12):1279-89. PMID: 20077439

Article Published Date : Dec 01, 1998

Authors : Raghavendra Raghukumar, Leila Vali, Dave Watson, James Fearnley, Véronique Seidel

Study Type : In Vitro Study
Additional Links
Substances : Bee Propolis : CK(220) : AC(84)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Propolis exhibits antimicrobial effects on Escherichia coli and Staphylococcus aureus strains resistant to various antibiotics and some microorganisms.

Pubmed Data : J Med Food. 2000;3(4):173-80. PMID: 19236174

Article Published Date : Jan 01, 2000

Authors : A Ugur, M Barlas, N Ceyhan, V Turkmen

Study Type : In Vitro Study

Additional Links
Substances : Bee Propolis : CK(220) : AC(84)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Brucellosis : CK(1) : AC(1), Escherichia coli Infections : CK(100) : AC(43) , Salmonella Infections : CK(38) : AC(20) , Staphylococcus aureus infection : CK(103) : AC(40) , Streptococcus pyogenes : CK(18) : AC(16)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Bee Venom (AC 1) (CK 1)

Bee venom has antibacterial and synergistic activities with ampicillin, penicillin, gentamicin and vancomycin against MRSA strains.

Pubmed Data : Molecules. 2016 ;21(1). Epub 2016 Jan 12. PMID: 26771592

Article Published Date : Dec 31, 2015

Authors : Sang Mi Han, Joung Min Kim, In Pyo Hong, Soon Ok Woo, Se Gun Kim, He Rye Jang, Sok Cheon Pak

Study Type : In Vitro Study
Additional Links
Substances : Bee Venom : CK(20) : AC(8)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)
Additional Keywords : Antimicrobial : CK(190) : AC(82) , Natural Substance/Drug Synergy : CK(172) : AC(48)

Berberine (AC 2) (CK 2)

"Antibacterial and synergy of berberines with antibacterial agents against clinical multi-drug resistant isolates of methicillin-resistant Staphylococcus aureus (MRSA)."

Pubmed Data : Molecules. 2012 ;17(9):10322-30. Epub 2012 Aug 29. PMID: 22932213

Article Published Date : Dec 31, 2011

Authors : Guo-Ying Zuo, Yang Li, Jun Han, Gen-Chun Wang, Yun-Ling Zhang, Zhong-Qi Bian

Study Type : In Vitro Study
Additional Links
Substances : Berberine : CK(220) : AC(77)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Natural Substance/Drug Synergy : CK(172) : AC(48)

Berberine can inhibit MRSA biofilm formation and could enhance the bactericidal activity of antibiotics.

Pubmed Data : Sci Rep. 2016 ;6:24748. Epub 2016 Apr 22. PMID: 27103062

Article Published Date : Dec 31, 2015

Authors : Ming Chu, Ming-Bo Zhang, Yan-Chen Liu, Jia-Rui Kang, Zheng-Yun Chu, Kai-Lin Yin, Ling-Yu Ding, Ran Ding, Rong-Xin Xiao, Yi-Nan Yin, Xiao-Yan Liu, Yue-Dan Wang

Study Type : In Vitro Study
Additional Links
Substances : Berberine : CK(220) : AC(77)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Biofilm : CK(13) : AC(4) , Natural Substance/Drug Synergy : CK(172) : AC(48)

Bifidobacterium Breve (AC 1) (CK 2)

A combination of Bifidobacterium Breve and prebiotic galactooligosaccharides exhibit anti-MRSA activity.

Pubmed Data : Microbiol Immunol. 2010 May ;54(5):265-75. PMID: 20536723

Article Published Date : May 01, 2010

Authors : Enkhtuya Lkhagvadorj, Satoru Nagata, Mariko Wada, Lei Bian, Chongxin Wang, Yukihide Chiba, Yuichiro Yamashiro, Toshiaki Shimizu, Takashi Asahara, Koji Nomoto

Study Type : Animal Study
Additional Links
Substances : Bifidobacterium Breve : CK(57) : AC(9) , Galactooligosaccharides : CK(2) : AC(1)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Breast Milk (AC 1) (CK 10)

Probiotic strains from breast milk are superior to antibiotics in the treatment of infectious mastitits.

Pubmed Data : Clin Infect Dis. 2010 Jun 15 ;50(12):1551-8. PMID: 20455694

Article Published Date : Jun 15, 2010

Authors : Rebeca Arroyo, Virginia Martín, Antonio Maldonado, Esther Jiménez, Leónides Fernández, Juan Miguel Rodríguez

Study Type : Human Study
Additional Links
Substances : Breast Milk : CK(428) : AC(49), Lactobacillus fermentum : CK(21) : AC(3) , Lactobacillus probiotics : CK(1445) : AC(200), Lactobacillus salivarius : CK(33) : AC(5), Probiotics : CK(2859) : AC(282)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Lactation Disorders : CK(132) : AC(16) , Mastitis : CK(14) : AC(4)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Superiority of Natural Substances versus Drugs : CK(1256) : AC(225)

Caffeoylquinic Acids (AC 1) (CK 1)

Caffeoylquinic Acids from Artemisia absinthium exhibits inhibitory activity against a key multidrug resistance determinant in gram-positive bacteria.

Pubmed Data : PLoS One. 2011;6(4):e18127. Epub 2011 Apr 4. PMID: 21483731

Article Published Date : Jan 01, 2011

Authors : Yiannis C Fiamegos, Panagiotis L Kastritis, Vassiliki Exarchou, Haley Han, Alexandre M J J Bonvin, Jacques Vervoort, Kim Lewis, Michael R Hamblin, George P Tegos

Study Type : In Vitro Study
Additional Links
Substances : Artemisia absinthium : CK(1) : AC(1) , Caffeoylquinic Acids : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Gram-Positive Bacterial Infections : CK(19) : AC(12)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Cannabinoids (AC 2) (CK 2)

Biologically active cannabinoids from high-potency Cannabis sativa displayed significant antibacterial and antifungal activities.

Pubmed Data : J Nat Prod. 2009 May 22 ;72(5):906-11. PMID: 19344127

Article Published Date : May 21, 2009

Authors : Mohamed M Radwan, Mahmoud A Elsohly, Desmond Slade, Safwat A Ahmed, Ikhlas A Khan, Samir A Ross

Study Type : In Vitro Study
Additional Links
Substances : Cannabinoids : CK(489) : AC(60), Cannabis : CK(1508) : AC(244)
Diseases : Candida Infection : CK(227) : AC(97), Leishmaniasis : CK(20) : AC(17) , Pseudomonas aeruginosa : CK(91) : AC(34), Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Cannabinoids showed potent activity against a variety of methicillin-resistant Staphylococcus aureus (MRSA) strains.

Pubmed Data : J Nat Prod. 2008 Aug ;71(8):1427-30. Epub 2008 Aug 6. PMID: 18681481

Article Published Date : Jul 31, 2008

Authors : Giovanni Appendino, Simon Gibbons, Anna Giana, Alberto Pagani, Gianpaolo Grassi, Michael Stavri, Eileen Smith, M Mukhlesur Rahman

Study Type : In Vitro Study
Additional Links
Substances : Cannabinoids : CK(489) : AC(60), Cannabis : CK(1508) : AC(244)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Cannabis (AC 2) (CK 2)

Biologically active cannabinoids from high-potency Cannabis sativa displayed significant antibacterial and antifungal activities.

Pubmed Data : J Nat Prod. 2009 May 22 ;72(5):906-11. PMID: 19344127

Article Published Date : May 21, 2009

Authors : Mohamed M Radwan, Mahmoud A Elsohly, Desmond Slade, Safwat A Ahmed, Ikhlas A Khan, Samir A Ross

Study Type : In Vitro Study
Additional Links
Substances : Cannabinoids : CK(489) : AC(60), Cannabis : CK(1508) : AC(244)
Diseases : Candida Infection : CK(227) : AC(97), Leishmaniasis : CK(20) : AC(17) , Pseudomonas aeruginosa : CK(91) : AC(34), Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Cannabinoids showed potent activity against a variety of methicillin-resistant Staphylococcus aureus (MRSA) strains.

Pubmed Data : J Nat Prod. 2008 Aug ;71(8):1427-30. Epub 2008 Aug 6. PMID: 18681481

Article Published Date : Jul 31, 2008

Authors : Giovanni Appendino, Simon Gibbons, Anna Giana, Alberto Pagani, Gianpaolo Grassi, Michael Stavri, Eileen Smith, M Mukhlesur Rahman

Study Type : In Vitro Study
Additional Links
Substances : Cannabinoids : CK(489) : AC(60), Cannabis : CK(1508) : AC(244)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Carvacrol (AC 1) (CK 1)

Cinnamon and Oregano, containing cinnamaldehyde and carvacrol, respectively, exhibit powerful antimicrobial activity against antibiotic-resistant strains of

Campylobacter jejuni isolates.

Pubmed Data : J Food Prot. 2008 Jun;71(6):1145-9. PMID: 18592739

Article Published Date : Jun 01, 2008

Authors : Sadhana Ravishankar, Libin Zhu, Bibiana Law, Lynn Joens, Mendel Friedman

Study Type : In Vitro Study
Additional Links
Substances : Carvacrol : CK(67) : AC(9) , Cinnamaldehyde : CK(209) : AC(17) , Cinnamon : CK(147) : AC(64), Oregano : CK(70) : AC(33)
Diseases : Campylobacter Infections : CK(18) : AC(7) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Catechin (AC 2) (CK 11)

Epicatechin 3-gallate (ECg) exhibits potential anti-MRSA activity.

Pubmed Data : Lett Appl Microbiol. 2008 Feb ;46(2):181-5. Epub 2007 Dec 7. PMID: 18069979

Article Published Date : Feb 01, 2008

Authors : S Shah, P D Stapleton, P W Taylor

Study Type : In Vitro Study
Additional Links
Substances : Catechin : CK(483) : AC(134), Epicatechin : CK(3) : AC(2) , Flavonoids : CK(1072) : AC(301), Polyphenols : CK(916) : AC(329)
Diseases : MRSA : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

The inhalation of tea catechin appears to suppress MRSA infection in the elderly.

Pubmed Data : J Am Med Dir Assoc. 2006 Feb;7(2):79-83. Epub 2005 Jul 22. PMID: 16461248

Article Published Date : Feb 01, 2006

Authors : Hiroshi Yamada, Masato Tateishi, Kazuhiro Harada, Toshihiko Ohashi, Takako Shimizu, Tetsushi Atsumi, Yasuko Komagata, Hajime Iijima, Kanki Komiyama, Hiroshi Watanabe, Yukihiko Hara, Kyoichi Ohashi

Study Type : Human Study
Additional Links
Substances : Catechin : CK(483) : AC(134), EGCG (Epigallocatechin gallate) : CK(511) : AC(269)
Diseases : Elderly: Age Specific Diseases : CK(442) : AC(38) , MRSA : CK(199) : AC(65) ,

Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Catnip (AC 1) (CK 1)

Catnip inhibits and prevents adherence of Staphylococcus aureus strains.

Pubmed Data : Int J Antimicrob Agents. 2001 Dec;18(6):583-5. PMID: 11738350

Article Published Date : Dec 01, 2001

Authors : A Nostro, M A Cannatelli, G Crisafi, V Alonzo

Study Type : In Vitro Study
Additional Links
Substances : Catnip : CK(6) : AC(4)
Diseases : MRSA : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Cinnamaldehyde (AC 3) (CK 3)

A compound in cinammon has anti-biofilm against uropathogenic Escherichia coli.

Pubmed Data : J Urol. 2010 Jul;184(1):358-63. Epub 2010 May 20. PMID: 20488489

Article Published Date : Jul 01, 2010

Authors : Mary Anne Roshni Amalaradjou, Amoolya Narayanan, Sangeetha Ananda Baskaran, Kumar Venkitanarayanan

Study Type : In Vitro Study
Additional Links
Substances : Cinnamaldehyde : CK(209) : AC(17)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Escherichia coli Infections : CK(100) : AC(43), Urinary Tract Infections : CK(338) : AC(47)

Cinnamon and Oregano, containing cinnamaldehyde and carvacrol, respectively, exhibit powerful antimicrobial activity against antibiotic-resistant strains of Campylobacter jejuni isolates.

Pubmed Data : J Food Prot. 2008 Jun;71(6):1145-9. PMID: 18592739

Article Published Date : Jun 01, 2008

Authors : Sadhana Ravishankar, Libin Zhu, Bibiana Law, Lynn Joens, Mendel Friedman

Study Type : In Vitro Study
Additional Links
Substances : Carvacrol : CK(67) : AC(9) , Cinnamaldehyde : CK(209) : AC(17) , Cinnamon : CK(147) : AC(64), Oregano : CK(70) : AC(33)
Diseases : Campylobacter Infections : CK(18) : AC(7) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Cinnamon osmophloeum contains a compound, cinnamaldehyde, with powerful antibacterial activity against MRSA, and various other multi-drug resistant pathogens

Pubmed Data : J Ethnopharmacol. 2001 Sep;77(1):123-7. PMID: 11483389

Article Published Date : Sep 01, 2001

Authors : S T Chang, P F Chen, S C Chang

Study Type : In Vitro Study
Additional Links
Substances : Cinnamaldehyde : CK(209) : AC(17) , Cinnamon : CK(147) : AC(64)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Cinnamon (AC 8) (CK 8)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Cinnamon and Oregano, containing cinnamaldehyde and carvacrol, respectively, exhibit powerful antimicrobial activity against antibiotic-resistant strains of Campylobacter jejuni isolates.

Pubmed Data : J Food Prot. 2008 Jun;71(6):1145-9. PMID: 18592739

Article Published Date : Jun 01, 2008

Authors : Sadhana Ravishankar, Libin Zhu, Bibiana Law, Lynn Joens, Mendel Friedman

Study Type : In Vitro Study
Additional Links
Substances : Carvacrol : CK(67) : AC(9) , Cinnamaldehyde : CK(209) : AC(17) , Cinnamon : CK(147) : AC(64), Oregano : CK(70) : AC(33)
Diseases : Campylobacter Infections : CK(18) : AC(7) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Cinnamon oil has antimicrobial effects against Staphylococcus epidermidis.

Pubmed Data : Appl Environ Microbiol. 2009 Nov;75(21):6850-5. Epub 2009 Sep 11. PMID: 19749058

Article Published Date : Nov 01, 2009

Authors : Titik Nuryastuti, Henny C van der Mei, Henk J Busscher, Susi Iravati, Abu T Aman, Bastiaan P Krom

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Staphylococcal Infections : CK(30) : AC(18), Staphylococcus epidermidis : CK(2) : AC(1)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Drug Synergy : CK(341) : AC(151)

Cinnamon osmophloeum contains a compound, cinnamaldehyde, with powerful antibacterial activity against MRSA, and various other multi-drug resistant pathogens

Pubmed Data : J Ethnopharmacol. 2001 Sep;77(1):123-7. PMID: 11483389

Article Published Date : Sep 01, 2001

Authors : S T Chang, P F Chen, S C Chang

Study Type : In Vitro Study
Additional Links
Substances : Cinnamaldehyde : CK(209) : AC(17) , Cinnamon : CK(147) : AC(64)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Cinnamon verum bark has the highest antimicrobial activity, particularly against antibiotic resistant strains, of 13 essential oils tested.

Pubmed Data : Lett Appl Microbiol. 2008 Sep;47(3):167-73. PMID: 19552780

Article Published Date : Sep 01, 2008

Authors : L Mayaud, A Carricajo, A Zhiri, G Aubert

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Cinnamon, clove and cumin exhibit anti-MRSA properties, in vitro.

Pubmed Data : Oman Med J. 2011 Sep ;26(5):319-23. PMID: 22125725

Article Published Date : Sep 01, 2011

Authors : Shayamapda Mandal, , Krishnendu Saha, Nishith Kumar Pal

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Cumin : CK(34) : AC(23)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Trans-cinnamaldehyde from Cinnamomum zeylanicum

bark essential oil reduces the clindamycin resistance of Clostridium difficile in vitro.

Pubmed Data : J Food Sci. 2007 Jan;72(1):S055-8. PMID: 17995898

Article Published Date : Jan 01, 2007

Authors : A R Shahverdi, H R Monsef-Esfahani, F Tavasoli, A Zaheri, R Mirjani

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64)
Diseases : Clostridium Infections : CK(171) : AC(30) , Infection: Antibiotic Resistant : CK(350) : AC(112)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Turmeric, Mint, Coriander, Garlic, Kalonji, Cinnamon and Cloves extracts had anti-staphylococcal activity.

Pubmed Data : Pak J Pharm Sci. 2015 May ;28(3):997-1004. PMID: 26004734

Article Published Date : Apr 30, 2015

Authors : Fakhra Liaqat, Ali Ahmad Sheikh, Jawad Nazir, Tanveer Hussain, Masood Rabbani, Arfat Yousaf Shaheen, Javed Muhammad

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Coriandor : CK(1) : AC(1) , Mint : CK(333) : AC(52), Turmeric : CK(4121) : AC(2001)
Diseases : Methicillin-resistant Staphylococcus aureus : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Anti-Bacterial Agents : CK(1274) : AC(423)

Citrus Oils (AC 1) (CK 1)

A citrus oil blend of Orange & Bergamot was vaporized with 24 hour exposure and effective at reducing meticillin-resistant Staphylococcus aureus (MRSA) and vancomycin-resistant Enterococcus sp. (VRE) on stainless steel surfaces.

Pubmed Data : J Hosp Infect. 2012 Jan ;80(1):61-6. Epub 2011 Dec 6. PMID: 22153952

Article Published Date : Dec 31, 2011

Authors : K Laird, D Armitage, C Phillips

Study Type : Bacterial
Additional Links
Substances : Citrus Oils : CK(2) : AC(1) , Orange oil : CK(2) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65) , Vancomycin-Resistant Enterococcus sp. (VRE) : CK(1) : AC(1)
Pharmacological Actions : Disinfectants : CK(1) : AC(1)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Clove (AC 5) (CK 5)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Cinnamon, clove and cumin exhibit anti-MRSA properties, in vitro.

Pubmed Data : Oman Med J. 2011 Sep ;26(5):319-23. PMID: 22125725

Article Published Date : Sep 01, 2011

Authors : Shayamapda Mandal, , Krishnendu Saha, Nishith Kumar Pal

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Cumin : CK(34) : AC(23)

Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Clove appears interfere with quorum sensing activity in bacteria, reducing their drug-resistant virulence and pathogenicity.

Pubmed Data : Lett Appl Microbiol. 2009 Sep;49(3):354-60. Epub 2009 Jul 14. PMID: 19627477

Article Published Date : Sep 01, 2009

Authors : M S A Khan, M Zahin, S Hasan, F M Husain, I Ahmad

Study Type : In Vitro Study
Additional Links
Substances : Clove : CK(93) : AC(48)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Pseudomonas aeruginosa : CK(91) : AC(34)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Clove, guava and lemongrass exhibit the highest synergism rate with antimicrobial drugs.

Pubmed Data : Mem Inst Oswaldo Cruz. 2006 Jun;101(4):387-90. PMID: 16951808

Article Published Date : Jun 01, 2006

Authors : Joyce Elaine Cristina Betoni, Rebeca Passarelli Mantovani, Lidiane Nunes Barbosa, Luiz Claudio Di Stasi, Ary Fernandes Junior

Study Type : In Vitro Study
Additional Links
Substances : Clove : CK(93) : AC(48) , Guava : CK(18) : AC(9) , Lemongrass : CK(14) : AC(5)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Bacterial Infections and Mycoses : CK(129) : AC(55), Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266) , Drug Resistant Pathogens : CK(46) : AC(7), Plant Extracts : CK(6992) : AC(2315)

Turmeric, Mint, Coriander, Garlic, Kalonji, Cinnamon and Cloves extracts had anti-staphylococcal activity.

Pubmed Data : Pak J Pharm Sci. 2015 May ;28(3):997-1004. PMID: 26004734

Article Published Date : Apr 30, 2015

Authors : Fakhra Liaqat, Ali Ahmad Sheikh, Jawad Nazir, Tanveer Hussain, Masood Rabbani, Arfat Yousaf Shaheen, Javed Muhammad

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Coriandor : CK(1) : AC(1) , Mint :

CK(333) : AC(52), Turmeric : CK(4121) : AC(2001)
Diseases : Methicillin-resistant Staphylococcus aureus : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Anti-Bacterial Agents : CK(1274) : AC(423)

Copper (AC 2) (CK 2)

A combination of pomegranate rind extract, copper and vitamin C have antimicrobial activity against multidrug resistant Pseudomonas aeruginosa.

Pubmed Data : Br J Biomed Sci. 2009;66(3):129-32. PMID: 19839222

Article Published Date : Jan 01, 2009

Authors : S W J Gould, M D Fielder, A F Kelly, W El Sankary, D P Naughton

Study Type : In Vitro Study
Additional Links
Substances : Copper : CK(82) : AC(16) , Pomegranate : CK(343) : AC(73) , Vitamin C : CK(1755) : AC(271)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Pseudomonas aeruginosa : CK(91) : AC(34), Pseudomonas Infections : CK(28) : AC(11)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Copper surfaces reduce the rate of healthcare-acquired infections in the intensive care unit.

Pubmed Data : Infect Control Hosp Epidemiol. 2013 May ;34(5):479-86. PMID: 23571364

Article Published Date : Apr 30, 2013

Authors : Cassandra D Salgado, Kent A Sepkowitz, Joseph F John, J Robert Cantey, Hubert H Attaway, Katherine D Freeman, Peter A Sharpe, Harold T Michels, Michael G Schmidt

Study Type : Bacterial
Additional Links
Substances : Copper : CK(82) : AC(16)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , MRSA : CK(199) : AC(65)
Additional Keywords : MRSA : CK(199) : AC(65)

Coriandor (AC 1) (CK 1)

Turmeric, Mint, Coriander, Garlic, Kalonji, Cinnamon and Cloves extracts had anti-staphylococcal activity.

Pubmed Data : Pak J Pharm Sci. 2015 May ;28(3):997-1004. PMID: 26004734

Article Published Date : Apr 30, 2015

Authors : Fakhra Liaqat, Ali Ahmad Sheikh, Jawad Nazir, Tanveer Hussain, Masood Rabbani, Arfat Yousaf Shaheen, Javed Muhammad

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Coriandor : CK(1) : AC(1) , Mint : CK(333) : AC(52), Turmeric : CK(4121) : AC(2001)
Diseases : Methicillin-resistant Staphylococcus aureus : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Anti-Bacterial Agents : CK(1274) : AC(423)

Cranberry (AC 3) (CK 12)

Cranberry exhibits anti-MRSA and anti-biofilm properties.

Pubmed Data : Phytother Res. 2012 Sep ;26(9):1371-4. Epub 2012 Feb 1. PMID: 22294419

Article Published Date : Aug 31, 2012

Authors : Kerry L LaPlante, Simon A Sarkisian, Suzanne Woodmansee, David C Rowley, Navindra P Seeram

Study Type : Bacterial
Additional Links
Substances : Cranberry : CK(226) : AC(42)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Cranberry may reduce the risk of urinary tract infectcions by inhibiting biofilms in the bladder.

Pubmed Data : Spinal Cord. 2001 Jan;39(1):26-30. PMID: 11224011

Article Published Date : Jan 01, 2001

Authors : G Reid, J Hsiehl, P Potter, J Mighton, D Lam, D Warren, J Stephenson

Study Type : Human Study
Additional Links
Substances : Cranberry : CK(226) : AC(42)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Bladder Infections : CK(32) : AC(5)
Additional Keywords : Biofilm : CK(13) : AC(4)

Proanthocyanidin inhibits the adherence of multi-drug resistant E. coli.

Pubmed Data : Urol Res. 2011 Jun 19. Epub 2011 Jun 19. PMID: 21688109

Article Published Date : Jun 19, 2011

Authors : Ashish Gupta, Mayank Dwivedi, Abbas Ali Mahdi, G A Nagana Gowda, Chunni Lal Khetrapal, Mahendra Bhandari

Study Type : In Vitro Study
Additional Links
Substances : Cranberry : CK(226) : AC(42) , Proanthocyanidins : CK(21) : AC(3)
Diseases : Escherichia coli Infections : CK(100) : AC(43) , Infection: Antibiotic Resistant : CK(350) : AC(112), Urinary Tract Infections : CK(338) : AC(47)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Cranberry Proanthocyanidins (AC 1) (CK 1)

"Antibacterial effects of plant-derived extracts on methicillin-resistant Staphylococcus aureus."

Pubmed Data : Foodborne Pathog Dis. 2012 Jun ;9(6):573-8. PMID: 22663188

Article Published Date : May 31, 2012

Authors : Xiaowei Su, Amy B Howell, Doris H D'Souza

Study Type : In Vitro Study
Additional Links
Substances : Cranberry Proanthocyanidins : CK(1) : AC(1) , Grape Seed Extract : CK(274) : AC(58) , Pomegranate Polyphenols : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315) , Proanthocyanidins : CK(170) : AC(48)

Cumin (AC 2) (CK 2)

Cinnamon, clove and cumin exhibit anti-MRSA properties, in vitro.

Pubmed Data : Oman Med J. 2011 Sep ;26(5):319-23. PMID: 22125725

Article Published Date : Sep 01, 2011

Authors : Shayamapda Mandal, , Krishnendu Saha, Nishith Kumar Pal

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Cumin : CK(34) : AC(23)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Cumin essential oil exhibits anti-Klebsiella activity.

Pubmed Data : Pharmacogn Mag. 2010 Jan ;6(21):57-61. Epub 2010 Feb 13. PMID: 20548937

Article Published Date : Jan 01, 2010

Authors : Safoura Derakhshan, Morteza Sattari, Mohsen Bigdeli

Study Type : In Vitro Study
Additional Links
Substances : Cumin : CK(34) : AC(23)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Klebsiella Infections : CK(59) : AC(23)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Curcumin (AC 3) (CK 3)

Curcumin has a phototoxic effect on methicillin-resistant

Staphylococcus aureus.

Pubmed Data : Lasers Med Sci. 2012 Feb 23. Epub 2012 Feb 23. PMID: 22358772

Article Published Date : Feb 23, 2012

Authors : Ana Paula Dias Ribeiro, Ana Cláudia Pavarina, Livia Nordi Dovigo, Iguatemy Lourenço Brunetti, Vanderlei Salvador Bagnato, Carlos Eduardo Vergani, Carlos Alberto de Souza Costa

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(3954) : AC(2095)
Diseases : MRSA : CK(199) : AC(65)
Therapeutic Actions : Light Therapy : CK(102) : AC(19)

Curcumin in combination with antibiotics could lead to the development of new combination of antibiotics against MRSA infection.

Pubmed Data : Phytomedicine. 2013 Jun 15 ;20(8-9):714-8. Epub 2013 Mar 26. PMID: 23537748

Article Published Date : Jun 14, 2013

Authors : Su-Hyun Mun, Dae-Ki Joung, Yong-Sik Kim, Ok-Hwa Kang, Sung-Bae Kim, Yun-Soo Seo, Youn-Chul Kim, Dong-Sung Lee, Dong-Won Shin, Kee-Tae Kweon, Dong-Yeul Kwon

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(3954) : AC(2095) , Turmeric : CK(4121) : AC(2001)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Natural Substance/Drug Synergy : CK(172) : AC(48) , Plant Extracts : CK(6992) : AC(2315)

These data indicate a remarkable antibacterial effect of curcumin, with membrane permeability enhancers and ATPase inhibitors.

Pubmed Data : Molecules. 2014 ;19(11):18283-95. Epub 2014 Nov 10. PMID: 25389660

Article Published Date : Dec 31, 2013

Authors : Su-Hyun Mun, Sung-Bae Kim, Ryong Kong, Jang-Gi Choi, Youn-Chul Kim, Dong-Won Shin, Ok-Hwa Kang, Dong-Yeul Kwon

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(3954) : AC(2095)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Natural Substance/Drug Synergy : CK(172) : AC(48) , Natural Substance/Drug Synergy : CK(172) : AC(48)

Dandelion (AC 1) (CK 1)

The antimicrobial efficacy of dandelion root extracts in this study support the use of dandelion root as a source of natural antimicrobial compounds.

Pubmed Data : Phytother Res. 2015 Jan 21. Epub 2015 Jan 21. PMID: 25644491

Article Published Date : Jan 20, 2015

Authors : O Kenny, N P Brunton, D Walsh, C M Hewage, P McLoughlin, T J Smyth

Study Type : In Vitro Study
Additional Links
Substances : Dandelion : CK(110) : AC(42)
Diseases : Bacillus Cereus infection : CK(1) : AC(1) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65), Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Dill (AC 1) (CK 2)

The essential oil of dill and peppermint enhances the antimicrobial activity of nitrofurantoin against enterobacteria.

Pubmed Data : Nutr Cancer. 1996;26(1):111-20. PMID: 17192709

Article Published Date : Jan 01, 1996

Authors : Fatemeh Rafii, Ahmad R Shahverdi

Study Type : Animal Study
Additional Links
Substances : Dill : CK(17) : AC(11) , Peppermint : CK(300) : AC(48)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

EGCG (Epigallocatechin gallate) (AC 3) (CK 12)

EGCG, a polyphenol found within green tea, synergizes the activity of beta-lactam antibiotics against methicillin-resistant Staphylococcus aureus.

Pubmed Data : Antimicrob Agents Chemother. 2001 Jun;45(6):1737-42. PMID: 11353619

Article Published Date : Jun 01, 2001

Authors : W H Zhao, Z Q Hu, S Okubo, Y Hara, T Shimamura

Study Type : In Vitro Study
Additional Links
Substances : EGCG (Epigallocatechin gallate) : CK(511) : AC(269)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Epigallocatechin gallate and Quercetin had a synergistic effect against methicillin-resistant Staphylococcus aureus.

Pubmed Data : J Nat Prod. 2015 Aug 12. Epub 2015 Aug 12. PMID: 26267658

Article Published Date : Aug 11, 2015

Authors : Jonathan W Betts, Amir S Sharili, Lynette M Phee, David W Wareham

Study Type : In Vitro Study
Additional Links
Substances : EGCG (Epigallocatechin gallate) : CK(511) : AC(269) , Quercetin : CK(412) : AC(143)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)
Additional Keywords : Natural Substance Synergy : CK(471) : AC(217)

The inhalation of tea catechin appears to suppress MRSA infection in the elderly.

Pubmed Data : J Am Med Dir Assoc. 2006 Feb;7(2):79-83. Epub 2005 Jul 22. PMID: 16461248

Article Published Date : Feb 01, 2006

Authors : Hiroshi Yamada, Masato Tateishi, Kazuhiro Harada, Toshihiko Ohashi, Takako Shimizu, Tetsushi Atsumi, Yasuko Komagata, Hajime Iijima, Kanki Komiyama, Hiroshi Watanabe, Yukihiko

Hara, Kyoichi Ohashi

Study Type : Human Study
Additional Links
Substances : Catechin : CK(483) : AC(134), EGCG (Epigallocatechin gallate) : CK(511) : AC(269)
Diseases : Elderly: Age Specific Diseases : CK(442) : AC(38) , MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Elderberry (AC 1) (CK 1)

Extracts of Sambucus ebulus and Urtica dioica possess antibacterial potency against MRSA isolates.

Pubmed Data : Afr J Tradit Complement Altern Med. 2014 ;11(5):38-40. Epub 2014 Aug 23. PMID: 25395702

Article Published Date : Dec 31, 2013

Authors : Ali Salehzadeh, Leila Asadpour, Akram Sadat Naeemi, Elham Houshmand

Study Type : In Vitro Study
Additional Links
Substances : Elderberry : CK(53) : AC(8) , Nettle : CK(116) : AC(13)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Elecampane (AC 1) (CK 1)

Elecampane (Inula helenium) has potent antisaphylococcal activity, including against MRSA, in vitro.

Pubmed Data : Br J Biomed Sci. 2009;66(4):186-9. PMID: 20095126

Article Published Date : Jan 01, 2009

Authors : S O'Shea, B Lucey, L Cotter

Study Type : In Vitro Study
Additional Links
Substances : Elecampane : CK(4) : AC(6)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Epicatechin (AC 1) (CK 1)

Epicatechin 3-gallate (ECg) exhibits potential anti-MRSA activity.

Pubmed Data : Lett Appl Microbiol. 2008 Feb ;46(2):181-5. Epub 2007 Dec 7. PMID: 18069979

Article Published Date : Feb 01, 2008

Authors : S Shah, P D Stapleton, P W Taylor

Study Type : In Vitro Study
Additional Links
Substances : Catechin : CK(483) : AC(134), Epicatechin : CK(3) : AC(2) , Flavonoids : CK(1072) : AC(301), Polyphenols : CK(916) : AC(329)
Diseases : MRSA : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Ethyl p-methoxycinnamate (EPMC) (AC 1) (CK 1)

Ethyl p-methoxycinnamate isolated from a traditional anti-tuberculosis medicinal herb inhibits drug resistant strains of Mycobacterium tuberculosis in vitro.

Pubmed Data : Fitoterapia. 2011 Apr 1. Epub 2011 Apr 1. PMID: 21459133

Article Published Date : Apr 01, 2011

Authors : Divya Lakshmanan, Jim Werngren, Leny Jose, K P Suja, Mangalam S Nair, R Luxmi Varma,

Sathish Mundayoor, Sven Hoffner, R Ajay Kumar

Study Type : In Vitro Study
Additional Links
Substances : Ethyl p-methoxycinnamate (EPMC) : CK(1) : AC(1) , Kaempferia galanga : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Tuberculosis : CK(244) : AC(42)

Eucalyptus (AC 3) (CK 4)

The fruit oil of E. globulus exerted the most pronounced activity against methicillin-resistant Staphylococcus aureus in this study.

Pubmed Data : Pharm Biol. 2011 Sep ;49(9):893-9. Epub 2011 May 19. PMID: 21591991

Article Published Date : Aug 31, 2011

Authors : Sri Mulyaningsih, Frank Sporer, Jürgen Reichling, Michael Wink

Study Type : In Vitro Study
Additional Links
Substances : Eucalyptus : CK(67) : AC(22)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Essential Oils : CK(104) : AC(38) , Plant Extracts : CK(6992) : AC(2315)

Thyme and Eucalyptus oil have antibacterial activity against MRSA isolates.

Pubmed Data : Phytomedicine. 2009 Jul 1. Epub 2009 Jul 1. PMID: 19576738

Article Published Date : Jul 01, 2009

Authors : A Tohidpour, M Sattari, R Omidbaigi, A Yadegar, J Nazemi

Study Type : Animal Study
Additional Links
Substances : Eucalyptus : CK(67) : AC(22) , Thyme : CK(40) : AC(25)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Wormwood, tarragon and eucalyptus contain the compound pipertone which reduces antibiotic resistance

against Enterobacter cloacae.

Pubmed Data : J Chromatogr B Analyt Technol Biomed Life Sci. 2007 May 1;850(1-2):528-30. Epub 2006 Nov 30. PMID: 17140862

Article Published Date : May 01, 2007

Authors : Ahmad R Shahverdi, Farid Abdolpour, Hamid R Monsef-Esfahani, Hasan Farsam

Study Type : In Vitro Study
Additional Links
Substances : Eucalyptus : CK(67) : AC(22) , Tarragon : CK(19) : AC(14) , Wormwood : CK(41) : AC(12)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Enterobacteriaceae Infections : CK(39) : AC(9) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Flavonoids (AC 2) (CK 3)

Epicatechin 3-gallate (ECg) exhibits potential anti-MRSA activity.

Pubmed Data : Lett Appl Microbiol. 2008 Feb ;46(2):181-5. Epub 2007 Dec 7. PMID: 18069979

Article Published Date : Feb 01, 2008

Authors : S Shah, P D Stapleton, P W Taylor

Study Type : In Vitro Study
Additional Links
Substances : Catechin : CK(483) : AC(134), Epicatechin : CK(3) : AC(2) , Flavonoids : CK(1072) : AC(301), Polyphenols : CK(916) : AC(329)
Diseases : MRSA : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Grape seed extract has bactericidal effects on MRSA.

Pubmed Data : J Toxicol Sci. 2010;35(3):357-64. PMID: 20519844

Article Published Date : Jan 01, 2010

Authors : Aamar Al-Habib, Esmaeil Al-Saleh, Abdel-Majeed Safer, Mohammad Afzal

Study Type : Animal Study
Additional Links
Substances : Flavonoids : CK(1072) : AC(301) , Grape Seed Extract : CK(274) : AC(58) , Polyphenols : CK(916) : AC(329)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antioxidants : CK(6711) : AC(2004)

Galactooligosaccharides (AC 1) (CK 2)

A combination of Bifidobacterium Breve and prebiotic galactooligosaccharides exhibit anti-MRSA activity.

Pubmed Data : Microbiol Immunol. 2010 May ;54(5):265-75. PMID: 20536723

Article Published Date : May 01, 2010

Authors : Enkhtuya Lkhagvadorj, Satoru Nagata, Mariko Wada, Lei Bian, Chongxin Wang, Yukihide Chiba, Yuichiro Yamashiro, Toshiaki Shimizu, Takashi Asahara, Koji Nomoto

Study Type : Animal Study
Additional Links
Substances : Bifidobacterium Breve : CK(57) : AC(9) , Galactooligosaccharides : CK(2) : AC(1)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Gallotannins (AC 1) (CK 1)

Mango kernels contain gallotannins which exhibit antimicrobial actitivity.

Pubmed Data : Appl Environ Microbiol. 2011 Feb 11. Epub 2011 Feb 11. PMID: 21317249

Article Published Date : Feb 11, 2011

Authors : Christina Engels, Andreas Schieber, Michael G Gänzle

Study Type : In Vitro Study
Additional Links
Substances : Gallotannins : CK(1) : AC(1) , Mango kernel : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Bacterial Infections and Mycoses : CK(129) : AC(55)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82) , Iron Chelating Agents : CK(4) : AC(3)

Garlic (AC 10) (CK 12)

Antibacterial effect of Allium sativum cloves and Zingiber officinale rhizomes against multiple-drug resistant clinical pathogens.

Pubmed Data : Asian Pac J Trop Biomed. 2012 Aug ;2(8):597-601. PMID: 23569978

Article Published Date : Jul 31, 2012

Authors : Ponmurugan Karuppiah, Shyamkumar Rajaram

Study Type : Bacterial
Additional Links
Substances : Garlic : CK(569) : AC(172) , Ginger : CK(569) : AC(113)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Garlic and tea have antibacterial activity against Klebsiella, as well as drug resistant strains of Saphylococci, Enterococci and Psedomonas aeruginosa.

Pubmed Data : Nutrition. 2003 Nov-Dec;19(11-12):994-6. PMID: 14624951

Article Published Date : Nov 01, 2003

Authors : Yee-Lean Lee, Thomas Cesario, Yang Wang, Edward Shanbrom, Lauri Thrupp

Study Type : In Vitro Study
Additional Links
Substances : Garlic : CK(569) : AC(172) , Green Tea : CK(1589) : AC(278)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Klebsiella Infections : CK(59) : AC(23), Pseudomonas aeruginosa : CK(91) : AC(34) , Staphylococcal Infections : CK(30) : AC(18)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Garlic blocks catheter-associated urinary tract and kidney infections caused by Pseudomonas aeruginosa.

Pubmed Data : FEMS Immunol Med Microbiol. 2009 Sep 18. PMID: 19878318

Article Published Date : Sep 18, 2009

Authors : Kusum Harjai, Ravi Kumar, Sukhvinder Singh

Study Type : Animal Study
Additional Links
Substances : Garlic : CK(569) : AC(172)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Kidney Infection :

CK(10) : AC(5), Pseudomonas aeruginosa : CK(91) : AC(34) , Urinary Tract Infections: Catheter-Associated : CK(2) : AC(1)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Garlic contributes to the destruction of biofilm-based resistance of Pseudomonas aeruginosa infection to antibiotics.

Pubmed Data : Microbiology. 2005 Dec;151(Pt 12):3873-80. PMID: 16339933

Article Published Date : Dec 01, 2005

Authors : Thomas Bjarnsholt, PeterØstrup Jensen, Thomas B Rasmussen, Lars Christophersen, Henrik Calum, Morten Hentzer, Hans-Petter Hougen, Jørgen Rygaard, Claus Moser, Leo Eberl, Niels Høiby, Michael Givskov

Study Type : In Vitro Study
Additional Links
Substances : Garlic : CK(569) : AC(172)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Pseudomonas aeruginosa : CK(91) : AC(34), Pseudomonas Infections : CK(28) : AC(11)
Additional Keywords : Biofilm : CK(13) : AC(4) , Drug-Plant-Vitamin Synergies : CK(965) : AC(266)

Garlic exhibits significant activity against multi-drug resistant mycobacteria tuberculosis.

Pubmed Data : Pak J Pharm Sci. 2011 Jan;24(1):81-5. PMID: 21190924

Article Published Date : Jan 01, 2011

Authors : Abdul Hannan, Muhammad Ikram Ullah, Muhammad Usman, Shahid Hussain, Muhammad Absar, Khursheed Javed

Study Type : In Vitro Study
Additional Links
Substances : Garlic : CK(569) : AC(172)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Mycobacterium tuberculosis : CK(3) : AC(2), Tuberculosis : CK(244) : AC(42)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Garlic inhibits multidrug resistant Streptococcus mutans.

Pubmed Data : J Indian Soc Pedod Prev Dent. 2007 Oct-Dec;25(4):164-8. PMID: 18007101

Article Published Date : Oct 01, 2007

Authors : M M Fani, J Kohanteb, M Dayaghi

Study Type : In Vitro Study
Additional Links
Substances : Garlic : CK(569) : AC(172)

Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Dental Caries : CK(323) : AC(38), Peridontal Infection : CK(37) : AC(6) , Steptococcus Mutans Infections : CK(16) : AC(6)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

The compound found within garlic known as allicin has antibacterial activity against methicillin-resistant Staphylococcus aureus.

Pubmed Data : Br J Biomed Sci. 2004;61(2):71-4. PMID: 15250668

Article Published Date : Jan 01, 2004

Authors : R R Cutler, P Wilson

Study Type : In Vitro Study
Additional Links
Substances : Allicin : CK(44) : AC(22) , Garlic : CK(569) : AC(172)
Diseases : Methicillin-resistant Staphylococcus aureus : CK(199) : AC(65) , MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

The role of diallyl sulfides and dipropyl sulfides in the in vitro antimicrobial activity of the essential oil of garlic, Allium sativum L., and Leek, Allium porrum L.

Pubmed Data : Phytother Res. 2013 Mar ;27(3):380-3. Epub 2012 May 21. PMID: 22610968

Article Published Date : Feb 28, 2013

Authors : Sergio Casella, Michele Leonardi, Bernardo Melai, Filippo Fratini, Luisa Pistelli

Study Type : Bacterial
Additional Links
Substances : Garlic : CK(569) : AC(172) , Ginger : CK(569) : AC(113)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Two compounds found within garlic inhibit methicillin-resistant Staphylococcus aureus infection in diabetic mice.

Pubmed Data : J Med Microbiol. 2007 Jun;56(Pt 6):803-8. PMID: 17510266

Article Published Date : Jun 01, 2007

Authors : Shih-Ming Tsao, Wen-Hu Liu, Mei-Chin Yin

Study Type : Animal Study
Additional Links
Substances : Garlic : CK(569) : AC(172)
Diseases : MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) :

AC(65)

Water extract of garlic has antimicrobical activity against multidrug-resistant bacteria and Candida species from Nigeria.

Pubmed Data : J Med Food. 2004;7(3):327-33. PMID: 15383227

Article Published Date : Jan 01, 2004

Authors : B A Iwalokun, A Ogunledun, D O Ogbolu, S B Bamiro, J Jimi-Omojola

Study Type : In Vitro Study
Additional Links
Substances : Garlic : CK(569) : AC(172)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Candida Infection : CK(227) : AC(97), Haemophilus influenzae : CK(54) : AC(9) , Streptococcus Infections : CK(389) : AC(51), Streptococcus pyogenes : CK(18) : AC(16)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Geranium (AC 1) (CK 1)

A combination of Citricidal (grapefruit seed extract) and geranium oil showed the greatest anti-bacterial effects against MRSA.

Pubmed Data : Burns. 2004 Dec;30(8):772-7. PMID: 15555788

Article Published Date : Dec 01, 2004

Authors : V Edwards-Jones, R Buck, S G Shawcross, M M Dawson, K Dunn

Study Type : In Vitro Study
Additional Links
Substances : Geranium : CK(16) : AC(7) , Grapefruit Seed Extract : CK(37) : AC(14)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Ginger (AC 2) (CK 2)

Antibacterial effect of Allium sativum cloves and Zingiber officinale rhizomes against multiple-drug resistant clinical pathogens.

Pubmed Data : Asian Pac J Trop Biomed. 2012 Aug ;2(8):597-601. PMID: 23569978

Article Published Date : Jul 31, 2012

Authors : Ponmurugan Karuppiah, Shyamkumar Rajaram

Study Type : Bacterial
Additional Links
Substances : Garlic : CK(569) : AC(172) , Ginger : CK(569) : AC(113)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Infection: Antibiotic Resistant : CK(350) : AC(112)

The role of diallyl sulfides and dipropyl sulfides in the in vitro antimicrobial activity of the essential oil of garlic, Allium sativum L., and Leek, Allium porrum L.

Pubmed Data : Phytother Res. 2013 Mar ;27(3):380-3. Epub 2012 May 21. PMID: 22610968

Article Published Date : Feb 28, 2013

Authors : Sergio Casella, Michele Leonardi, Bernardo Melai, Filippo Fratini, Luisa Pistelli

Study Type : Bacterial
Additional Links
Substances : Garlic : CK(569) : AC(172) , Ginger : CK(569) : AC(113)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Goldenseal (AC 1) (CK 1)

Antimicrobial activity of goldenseal (Hydrastis canadensis) against methicillin-resistant Staphylococcus aureus (MRSA).

Pubmed Data : Planta Med. 2012 Sep ;78(14):1556-61. Epub 2012 Jul 18. PMID: 22814821

Article Published Date : Aug 31, 2012

Authors : Nadja B Cech, Hiyas A Junio, Laynez W Ackermann, Jeffrey S Kavanaugh, Alexander R Horswill

Study Type : In Vitro Study
Additional Links
Substances : Goldenseal : CK(9) : AC(6)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Grape Seed Extract (AC 2) (CK 3)

"Antibacterial effects of plant-derived extracts on methicillin-resistant Staphylococcus aureus."

Pubmed Data : Foodborne Pathog Dis. 2012 Jun ;9(6):573-8. PMID: 22663188

Article Published Date : May 31, 2012

Authors : Xiaowei Su, Amy B Howell, Doris H D'Souza

Study Type : In Vitro Study
Additional Links
Substances : Cranberry Proanthocyanidins : CK(1) : AC(1) , Grape Seed Extract : CK(274) : AC(58) , Pomegranate Polyphenols : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315) , Proanthocyanidins : CK(170) : AC(48)

Grape seed extract has bactericidal effects on MRSA.

Pubmed Data : J Toxicol Sci. 2010;35(3):357-64. PMID: 20519844

Article Published Date : Jan 01, 2010

Authors : Aamar Al-Habib, Esmaeil Al-Saleh, Abdel-Majeed Safer, Mohammad Afzal

Study Type : Animal Study
Additional Links
Substances : Flavonoids : CK(1072) : AC(301) , Grape Seed Extract : CK(274) : AC(58) , Polyphenols : CK(916) : AC(329)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antioxidants : CK(6711) : AC(2004)

Grapefruit (AC 2) (CK 2)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Grapefruit juice and its furocomarins inhibit bacterial communication and biofilm accumulation.

Pubmed Data : Int J Food Microbiol. 2008 Jul 15;125(2):204-8. Epub 2008 Mar 31. PMID: 18504060

Article Published Date : Jul 15, 2008

Authors : Basavaraj Girennavar, Martha L Cepeda, Kamlesh A Soni, Amit Vikram, Palmy Jesudhasan, G K Jayaprakasha, Suresh D Pillai, Bhimanagouda S Patil

Study Type : In Vitro Study
Additional Links
Substances : Grapefruit : CK(106) : AC(29)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)

Grapefruit Seed Extract (AC 2) (CK 11)

A combination of Citricidal (grapefruit seed extract) and geranium oil showed the greatest anti-bacterial effects against MRSA.

Pubmed Data : Burns. 2004 Dec;30(8):772-7. PMID: 15555788

Article Published Date : Dec 01, 2004

Authors : V Edwards-Jones, R Buck, S G Shawcross, M M Dawson, K Dunn

Study Type : In Vitro Study
Additional Links
Substances : Geranium : CK(16) : AC(7) , Grapefruit Seed Extract : CK(37) : AC(14)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Grapefruit seeds are effective in treating urinary tract infections.

Pubmed Data : J Altern Complement Med. 2005 Apr;11(2):369-71. PMID: 15865506

Article Published Date : Apr 01, 2005

Authors : O A Oyelami, E A Agbakwuru, L A Adeyemi, G B Adedeji

Study Type : Human Study
Additional Links
Substances : Grapefruit Seed Extract : CK(37) : AC(14)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Urinary Tract Infections : CK(338) : AC(47)
Additional Keywords : Superiority of Natural Substances versus Drugs : CK(1298) : AC(245)

Green Tea (AC 2) (CK 2)

Garlic and tea have antibacterial activity against Klebsiella, as well as drug resistant strains of Saphylococci, Enterococci and Psedomonas aeruginosa.

Pubmed Data : Nutrition. 2003 Nov-Dec;19(11-12):994-6. PMID: 14624951

Article Published Date : Nov 01, 2003

Authors : Yee-Lean Lee, Thomas Cesario, Yang Wang, Edward Shanbrom, Lauri Thrupp

Study Type : In Vitro Study
Additional Links

Substances : Garlic : CK(569) : AC(172) , Green Tea : CK(1589) : AC(278)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Klebsiella Infections : CK(59) : AC(23), Pseudomonas aeruginosa : CK(91) : AC(34) , Staphylococcal Infections : CK(30) : AC(18)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Green tea exhibits anti-MRSA activity.

Pubmed Data : Curr Microbiol. 2008 Dec ;57(6):542-6. Epub 2008 Sep 10. PMID: **18781360**

Article Published Date : Dec 01, 2008

Authors : Yun-Seok Cho, Neal L Schiller, Kye-Heon Oh

Study Type : In Vitro Study
Additional Links
Substances : Green Tea : CK(1821) : AC(510)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Guava (AC 1) (CK 1)

Clove, guava and lemongrass exhibit the highest synergism rate with antimicrobial drugs.

Pubmed Data : Mem Inst Oswaldo Cruz. 2006 Jun;101(4):387-90. PMID: **16951808**

Article Published Date : Jun 01, 2006

Authors : Joyce Elaine Cristina Betoni, Rebeca Passarelli Mantovani, Lidiane Nunes Barbosa, Luiz Claudio Di Stasi, Ary Fernandes Junior

Study Type : In Vitro Study
Additional Links
Substances : Clove : CK(93) : AC(48) , Guava : CK(18) : AC(9) , Lemongrass : CK(14) : AC(5)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Bacterial Infections and Mycoses : CK(129) : AC(55), Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266) , Drug Resistant Pathogens : CK(46) : AC(7), Plant Extracts : CK(6992) : AC(2315)

Hibiscus sabdariffa (AC 1) (CK 1)

Crude extracts and phytochemicals derived from H. sabdariffa has antimicrobial, antiparasitic, and anticancer properties.

Pubmed Data : Ceska Slov Farm. 2016 ;65(1):10-14. PMID: 27118499

Article Published Date : Dec 31, 2015

Authors : Sherif T S Hassan, Kateřina Berchová, Miroslava Šudomová

Study Type : Review
Additional Links
Substances : Hibiscus sabdariffa : CK(21) : AC(7)
Diseases : Bacillus subtilis infections : CK(1) : AC(1) , Breast Cancer : CK(3368) : AC(997) , Escherichia coli Infections : CK(100) : AC(43), Gastric Cancer : CK(440) : AC(120) , Klebsiella Infections : CK(59) : AC(23), Melanoma : CK(239) : AC(91) , Promyelocytic leukemia : CK(87) : AC(76), Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65), Staphylococcus aureus infection : CK(103) : AC(40), Urinary Tract Infections : CK(338) : AC(47)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82) , Antiparasitic Agents : CK(37) : AC(22) , Antiproliferative : CK(2143) : AC(1208), Apoptotic : CK(2582) : AC(1717)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Honey (AC 3) (CK 3)

Honey may have a therapeutic role in treating refractory chronic rhinosinusitus.

Pubmed Data : Otolaryngol Head Neck Surg. 2009 Jul;141(1):114-8. Epub 2009 Mar 9. PMID: 19559969

Article Published Date : Jul 01, 2009

Authors : Talal Alandejani, Joseph Marsan, Wendy Ferris, Robert Slinger, Frank Chan

Study Type : In Vitro Study
Additional Links
Substances : Honey : CK(435) : AC(90)
Diseases : MRSA : CK(199) : AC(65) , Pseudomonas aeruginosa : CK(91) : AC(34) , Sinusitis : CK(143) : AC(15), Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Honeydew and manuka honey has strong antimicrobial

activity against multi-drug resistant pathogens.

Pubmed Data : Phytother Res. 2010 Sep 29. Epub 2010 Sep 29. PMID: 20882522

Article Published Date : Sep 29, 2010

Authors : Juraj Majtan, Lubica Majtanova, Jana Bohova, Viktor Majtan

Study Type : In Vitro Study
Additional Links
Substances : Honey : CK(435) : AC(90) , Honeydew (melon) : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Ulmo honey, manuka honey and artificial honey were compared against MRSA, E. coli and Pseudomonas; Ulmo showed high antimicrobial activity.

Pubmed Data : BMC Complement Altern Med. 2010 ;10:47. Epub 2010 Sep 2. PMID: 20813024

Article Published Date : Dec 31, 2009

Authors : Orla Sherlock, Anthony Dolan, Rahma Athman, Alice Power, Georgina Gethin, Seamus Cowman, Hilary Humphreys

Study Type : Bacterial
Additional Links
Substances : Honey : CK(435) : AC(90) , Honey: Ulmo : CK(1) : AC(1)
Diseases : Escherichia coli Infections : CK(100) : AC(43) , Pseudomonas aeruginosa : CK(91) : AC(34) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)

Honey: Ulmo (AC 1) (CK 1)

Ulmo honey, manuka honey and artificial honey were compared against MRSA, E. coli and Pseudomonas; Ulmo showed high antimicrobial activity.

Pubmed Data : BMC Complement Altern Med. 2010 ;10:47. Epub 2010 Sep 2. PMID: 20813024

Article Published Date : Dec 31, 2009

Authors : Orla Sherlock, Anthony Dolan, Rahma Athman, Alice Power, Georgina Gethin, Seamus Cowman, Hilary Humphreys

Study Type : Bacterial
Additional Links

Substances : Honey : CK(435) : AC(90) , Honey: Ulmo : CK(1) : AC(1)
Diseases : Escherichia coli Infections : CK(100) : AC(43) , Pseudomonas aeruginosa : CK(91) : AC(34) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)

Honeydew (melon) (AC 1) (CK 1)

Honeydew and manuka honey has strong antimicrobial activity against multi-drug resistant pathogens.

Pubmed Data : Phytother Res. 2010 Sep 29. Epub 2010 Sep 29. PMID: 20882522

Article Published Date : Sep 29, 2010

Authors : Juraj Majtan, Lubica Majtanova, Jana Bohova, Viktor Majtan

Study Type : In Vitro Study
Additional Links
Substances : Honey : CK(435) : AC(90) , Honeydew (melon) : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Honokiol (AC 2) (CK 2)

Magnolol and honokiol are potentially useful for the treatment of drug-resistant S. aureus infections when used in combination with lower concentration of antibiotics.

Pubmed Data : Biomed Res Int. 2015 ;2015:283630. Epub 2015 Aug 19. PMID: 26357651

Article Published Date : Dec 31, 2014

Authors : Su Young Kim, Ju Kim, Seung-Il Jeong, Kwang Yeop Jahng, Kang-Yeol Yu

Study Type : In Vitro Study
Additional Links
Substances : Honokiol : CK(29) : AC(4) , Magnolia : CK(40) : AC(11) , Magnolol : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Pharmacological Actions : Antimicrobial : CK(190) : AC(82)
Additional Keywords : Dose Response : CK(782) : AC(281) , Dose Response : CK(782) : AC(281) , Natural Substance/Drug Synergy : CK(172) : AC(48) , Plant Extracts : CK(6992) : AC(2315)

Magnolol and honokiol showed a broad spectrum of synergistic potentiation of conventional antibacterial agents.

Pubmed Data : BMC Complement Altern Med. 2015 ;15(1):425. Epub 2015 Dec 1. PMID: 26627468

Article Published Date : Dec 31, 2014

Authors : Guo-Ying Zuo, Xin-Juan Zhang, Jun Han, Yu-Qing Li, Gen-Chun Wang

Study Type : In Vitro Study
Additional Links
Substances : Honokiol : CK(29) : AC(4) , Magnolol : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Antibiotic Resistance : CK(56) : AC(7) , Natural Substance/Drug Synergy : CK(172) : AC(48), Natural Substances Versus Drugs : CK(1544) : AC(250) , Natural Substances Versus Drugs : CK(1544) : AC(250)
Problem Substances : Antibiotics : CK(288) : AC(24)

Hypericum japonicum (AC 1) (CK 1)

Sojacareubin from the Chinese Herb Hypericum japonicum exhibits anti-MRSA.

Pubmed Data : Int J Mol Sci. 2012 ;13(7):8210-8. Epub 2012 Jul 3. PMID: 22942699

Article Published Date : Dec 31, 2011

Authors : Guo-Ying Zuo, Jing An, Jun Han, Yun-Ling Zhang, Gen-Chun Wang, Xiao-Yan Hao, Zhong-Qi Bian

Study Type : In Vitro Study
Additional Links
Substances : Hypericum japonicum : CK(1) : AC(1) , Sojacareubin : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Kaempferia galanga (AC 1) (CK 1)

Ethyl p-methoxycinnamate isolated from a traditional anti-tuberculosis medicinal herb inhibits drug resistant strains of Mycobacterium tuberculosis in vitro.

Pubmed Data : Fitoterapia. 2011 Apr 1. Epub 2011 Apr 1. PMID: 21459133

Article Published Date : Apr 01, 2011

Authors : Divya Lakshmanan, Jim Werngren, Leny Jose, K P Suja, Mangalam S Nair, R Luxmi Varma, Sathish Mundayoor, Sven Hoffner, R Ajay Kumar

Study Type : In Vitro Study
Additional Links
Substances : Ethyl p-methoxycinnamate (EPMC) : CK(1) : AC(1) , Kaempferia galanga : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Tuberculosis : CK(244) : AC(42)

Kaempferol (AC 2) (CK 2)

Compounds isolated from Bay leaf have anti-MRSA activity.

Pubmed Data : Biol Pharm Bull. 2008 Sep;31(9):1794-7. PMID: 18758079

Article Published Date : Sep 01, 2008

Authors : Nao Otsuka, Mei-Hua Liu, Sumiko Shiota, Wakano Ogawa, Teruo Kuroda, Tsutomu Hatano, Tomofusa Tsuchiya

Study Type : In Vitro Study
Additional Links
Substances : Bay leaf : CK(54) : AC(26) , Kaempferol : CK(34) : AC(21)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Kaempferol glycosides purified from Bay leaf work synergistically with fluorioquinolones on MRSA.

Pubmed Data : Biol Pharm Bull. 2009 Mar;32(3):489-92. PMID: 19252301

Article Published Date : Mar 01, 2009

Authors : Mei-Hua Liu, Nao Otsuka, Kumiko Noyori, Sumiko Shiota, Wakano Ogawa, Teruo Kuroda, Tsutomu Hatano, Tomofusa Tsuchiya

Study Type : In Vitro Study
Additional Links
Substances : Bay leaf : CK(54) : AC(26) , Kaempferol : CK(34) : AC(21)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Drug synergy : CK(51) : AC(12)
Additional Keywords : Drug Synergy : CK(341) : AC(151)

Lactobacillus Acidophilus (AC 1) (CK 1)

Lactobacillus bacteria exhibit anti-MRSA properties.

Pubmed Data : Microbiol Res. 2010 Oct 20 ;165(8):674-86. Epub 2010 Jan 29. PMID: 20116228

Article Published Date : Oct 20, 2010

Authors : Barbara Karska-Wysocki, Mari Bazo, Wanda Smoragiewicz

Study Type : In Vitro Study
Additional Links
Substances : Lactobacillus Acidophilus : CK(170) : AC(22) , Lactobacillus casei : CK(156) : AC(29)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Lactobacillus casei (AC 1) (CK 1)

Lactobacillus bacteria exhibit anti-MRSA properties.

Pubmed Data : Microbiol Res. 2010 Oct 20 ;165(8):674-86. Epub 2010 Jan 29. PMID: 20116228

Article Published Date : Oct 20, 2010

Authors : Barbara Karska-Wysocki, Mari Bazo, Wanda Smoragiewicz

Study Type : In Vitro Study

Additional Links
Substances : Lactobacillus Acidophilus : CK(170) : AC(22) , Lactobacillus casei : CK(156) : AC(29)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Lactobacillus fermentum (AC 1) (CK 10)

Probiotic strains from breast milk are superior to antibiotics in the treatment of infectious mastitits.

Pubmed Data : Clin Infect Dis. 2010 Jun 15 ;50(12):1551-8. PMID: 20455694

Article Published Date : Jun 15, 2010

Authors : Rebeca Arroyo, Virginia Martín, Antonio Maldonado, Esther Jiménez, Leónides Fernández, Juan Miguel Rodríguez

Study Type : Human Study
Additional Links
Substances : Breast Milk : CK(428) : AC(49), Lactobacillus fermentum : CK(21) : AC(3) , Lactobacillus probiotics : CK(1445) : AC(200), Lactobacillus salivarius : CK(33) : AC(5), Probiotics : CK(2859) : AC(282)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Lactation Disorders : CK(132) : AC(16) , Mastitis : CK(14) : AC(4)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Superiority of Natural Substances versus Drugs : CK(1256) : AC(225)

Lactobacillus paracasei (AC 1) (CK 1)

A bacteriocin from Lactobacillus paracasei subsp. paracasei BMK2005, an intestinal isolate active against multidrug-resistant pathogens.

Pubmed Data : World J Microbiol Biotechnol. 2012 Apr ;28(4):1543-52. Epub 2011 Dec 3. PMID: 22805936

Article Published Date : Mar 31, 2012

Authors : Kamel Bendjeddou, Michel Fons, Pierre Strocker, Djamila Sadoun

Study Type : In Vitro Study
Additional Links
Substances : Bacteriocin : CK(1) : AC(1) , Lactobacillus paracasei : CK(22) : AC(3)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Lactobacillus probiotics (AC 1) (CK 10)

Probiotic strains from breast milk are superior to antibiotics in the treatment of infectious mastitits.

Pubmed Data : Clin Infect Dis. 2010 Jun 15 ;50(12):1551-8. PMID: 20455694

Article Published Date : Jun 15, 2010

Authors : Rebeca Arroyo, Virginia Martín, Antonio Maldonado, Esther Jiménez, Leónides Fernández, Juan Miguel Rodríguez

Study Type : Human Study
Additional Links
Substances : Breast Milk : CK(428) : AC(49), Lactobacillus fermentum : CK(21) : AC(3) , Lactobacillus probiotics : CK(1445) : AC(200), Lactobacillus salivarius : CK(33) : AC(5), Probiotics : CK(2859) : AC(282)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Lactation Disorders : CK(132) : AC(16) , Mastitis : CK(14) : AC(4)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Superiority of Natural Substances versus Drugs : CK(1256) : AC(225)

Lactobacillus rhamnosus GG (AC 1) (CK 1)

Lactobacillus rhamnosus GG inhibits invasion of cultured human respiratory cells by macrolide-resistant group A

streptococci.

Pubmed Data : Lett Appl Microbiol. 2009 Mar;48(3):368-72. Epub 2009 Jan 23. PMID: 19187508

Article Published Date : Mar 01, 2009

Authors : M S Princivalli, C Paoletti, G Magi, C Palmieri, L Ferrante, B Facinelli

Study Type : In Vitro Study
Additional Links
Substances : Lactobacillus rhamnosus GG : CK(201) : AC(27)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Streptococcus infections: Group A : CK(10) : AC(6), Streptococcus pyogenes : CK(18) : AC(16)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Lactobacillus salivarius (AC 1) (CK 10)

Probiotic strains from breast milk are superior to antibiotics in the treatment of infectious mastitits.

Pubmed Data : Clin Infect Dis. 2010 Jun 15 ;50(12):1551-8. PMID: 20455694

Article Published Date : Jun 15, 2010

Authors : Rebeca Arroyo, Virginia Martín, Antonio Maldonado, Esther Jiménez, Leónides Fernández, Juan Miguel Rodríguez

Study Type : Human Study
Additional Links
Substances : Breast Milk : CK(428) : AC(49), Lactobacillus fermentum : CK(21) : AC(3) , Lactobacillus probiotics : CK(1445) : AC(200), Lactobacillus salivarius : CK(33) : AC(5), Probiotics : CK(2859) : AC(282)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Lactation Disorders : CK(132) : AC(16) , Mastitis : CK(14) : AC(4)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Superiority of Natural Substances versus Drugs : CK(1256) : AC(225)

Lactoferrin (AC 1) (CK 3)

Lactoferrin works synergistically with bacteriophage

therapy in antibiotic-resistant external ear infection.

Pubmed Data : Scand J Rheumatol. 1991;20(4):294-302. PMID: 17357317

Article Published Date : Jan 01, 1991

Authors : B Weber-Dabrowska, M Zimecki, M Kruzel, I Kochanowska, M Lusiak-Szelachowska

Study Type : Human: Case Report
Additional Links
Substances : Lactoferrin : CK(117) : AC(30)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Otitis media : CK(566) : AC(32)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462) , Antiviral Agents : CK(862) : AC(376)
Additional Keywords : Bacteriophage Therapy : CK(3) : AC(1)

Lauric acid (AC 1) (CK 5)

Antimicrobial activity of saturated fatty acids and fatty amines against methicillin-resistant Staphylococcus aureus.

Pubmed Data : Biol Pharm Bull. 2004 Sep ;27(9):1321-6. PMID: 15340213

Article Published Date : Aug 31, 2004

Authors : Takashi Kitahara, Nao Koyama, Junichi Matsuda, Yuko Aoyama, Yoichi Hirakata, Shimeru Kamihira, Shigeru Kohno, Mikiro Nakashima, Hitoshi Sasaki

Study Type : Human In Vitro
Additional Links
Substances : Lauric acid : CK(14) : AC(4)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Lavender (AC 1) (CK 1)

Lavender oil has antimicrobial activity against methicillin-sensitive and methicillin-resistant Staphylococcus aureus.

Pubmed Data : J Altern Complement Med. 2009 Mar;15(3):275-9. PMID: 19249919

Article Published Date : Mar 01, 2009

Authors : Sibel Roller, Nina Ernest, Jane Buckle

Study Type : In Vitro Study
Additional Links
Substances : Lavender : CK(330) : AC(38)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Lemongrass (AC 2) (CK 2)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Clove, guava and lemongrass exhibit the highest synergism rate with antimicrobial drugs.

Pubmed Data : Mem Inst Oswaldo Cruz. 2006 Jun;101(4):387-90. PMID: 16951808

Article Published Date : Jun 01, 2006

Authors : Joyce Elaine Cristina Betoni, Rebeca Passarelli Mantovani, Lidiane Nunes Barbosa, Luiz Claudio Di Stasi, Ary Fernandes Junior

Study Type : In Vitro Study
Additional Links
Substances : Clove : CK(93) : AC(48) , Guava : CK(18) : AC(9) , Lemongrass : CK(14) : AC(5)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Bacterial

Infections and Mycoses : CK(129) : AC(55), Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Drug-Plant-Vitamin Synergies : CK(965) : AC(266) , Drug Resistant Pathogens : CK(46) : AC(7), Plant Extracts : CK(6992) : AC(2315)

Lemongrass: Essential Oil (AC 1) (CK 1)

Plant-derived antiseptic oils may represent a promising and affordable topical agent to support surgical treatment against multi-resistant and hospital-acquired infections.

Pubmed Data : J Craniomaxillofac Surg. 2013 Jun ;41(4):321-6. Epub 2012 Nov 29. PMID: 23199627

Article Published Date : May 31, 2013

Authors : Patrick H Warnke, Alexander J S Lott, Eugene Sherry, Joerg Wiltfang, Rainer Podschun

Study Type : Bacterial
Additional Links
Substances : Lemongrass: Essential Oil : CK(2) : AC(1) , Tea Tree : CK(107) : AC(23)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Additional Keywords : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Problem Substances : Chlorhexidine gluconate : CK(32) : AC(5)

Lime (AC 1) (CK 1)

Lime has potent antibacterial activity against multiple drug resistant E. coli.

Pubmed Data : Ann Clin Microbiol Antimicrob. 2011;10:10. Epub 2011 Mar 15. PMID: 21406097

Article Published Date : Jan 01, 2011

Authors : Shahedur Rahman, Anowar Khasru Parvez, Rezuanul Islam, Mahboob Hossain Khan

Study Type : In Vitro Study
Additional Links
Substances : Lime : CK(2) : AC(2)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Diarrhea: Bacterial : CK(1) : AC(1), Escherichia coli Infections : CK(100) : AC(43)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Magnolia (AC 1) (CK 1)

Magnolol and honokiol are potentially useful for the treatment of drug-resistant S. aureus infections when used in combination with lower concentration of antibiotics.

Pubmed Data : Biomed Res Int. 2015 ;2015:283630. Epub 2015 Aug 19. PMID: 26357651

Article Published Date : Dec 31, 2014

Authors : Su Young Kim, Ju Kim, Seung-Il Jeong, Kwang Yeop Jahng, Kang-Yeol Yu

Study Type : In Vitro Study
Additional Links
Substances : Honokiol : CK(29) : AC(4) , Magnolia : CK(40) : AC(11) , Magnolol : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)
Additional Keywords : Dose Response : CK(782) : AC(281) , Dose Response : CK(782) : AC(281) , Natural Substance/Drug Synergy : CK(172) : AC(48) , Plant Extracts : CK(6992) : AC(2315)

Magnolol (AC 2) (CK 2)

Magnolol and honokiol are potentially useful for the treatment of drug-resistant S. aureus infections when used in combination with lower concentration of antibiotics.

Pubmed Data : Biomed Res Int. 2015 ;2015:283630. Epub 2015 Aug 19. PMID: 26357651

Article Published Date : Dec 31, 2014

Authors : Su Young Kim, Ju Kim, Seung-Il Jeong, Kwang Yeop Jahng, Kang-Yeol Yu

Study Type : In Vitro Study
Additional Links
Substances : Honokiol : CK(29) : AC(4) , Magnolia : CK(40) : AC(11) , Magnolol : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)
Additional Keywords : Dose Response : CK(782) : AC(281) , Dose Response : CK(782) : AC(281) , Natural Substance/Drug Synergy : CK(172) : AC(48) , Plant Extracts : CK(6992) : AC(2315)

Magnolol and honokiol showed a broad spectrum of synergistic potentiation of conventional antibacterial agents.

Pubmed Data : BMC Complement Altern Med. 2015 ;15(1):425. Epub 2015 Dec 1. PMID: 26627468

Article Published Date : Dec 31, 2014

Authors : Guo-Ying Zuo, Xin-Juan Zhang, Jun Han, Yu-Qing Li, Gen-Chun Wang

Study Type : In Vitro Study
Additional Links
Substances : Honokiol : CK(29) : AC(4) , Magnolol : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Antibiotic Resistance : CK(56) : AC(7) , Natural Substance/Drug Synergy : CK(172) : AC(48), Natural Substances Versus Drugs : CK(1544) : AC(250) , Natural Substances Versus Drugs : CK(1544) : AC(250)
Problem Substances : Antibiotics : CK(288) : AC(24)

Mango Seed (AC 1) (CK 1)

Mango seed kernel extract may potentially be useful as an alternative therapeutic agent or an adjunctive therapy along with penicillin G in the treatment of MRSA infections.

Pubmed Data : Molecules. 2011 ;16(8):6255-70. Epub 2011 Jul 25. PMID: 21788933

Article Published Date : Jan 01, 2011

Authors : Pimsumon Jiamboonsri, Pimolpan Pithayanukul, Rapepol Bavovada, Mullika T

Chomnawang

Study Type : In Vitro Study
Additional Links
Substances : Mango Seed : CK(1) : AC(1)
Diseases : Infection: Antibiotic Resistant : CK(401) : AC(141) , MRSA : CK(199) : AC(65)
Additional Keywords : Antibiotic Alternatives : CK(63) : AC(7) , Drug Synergy : CK(341) : AC(151) , Natural Substances Versus Drugs : CK(1544) : AC(250)

Mango kernel (AC 1) (CK 1)

Mango kernels contain gallotannins which exhibit antimicrobial actitivity.

Pubmed Data : Appl Environ Microbiol. 2011 Feb 11. Epub 2011 Feb 11. PMID: 21317249

Article Published Date : Feb 11, 2011

Authors : Christina Engels, Andreas Schieber, Michael G Gänzle

Study Type : In Vitro Study
Additional Links
Substances : Gallotannins : CK(1) : AC(1), Mango kernel : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Bacterial Infections and Mycoses : CK(129) : AC(55)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82) , Iron Chelating Agents : CK(4) : AC(3)

Mangosteen (AC 1) (CK 1)

Mangosteen plants inhibit MRSA Staphylococcus A.

Pubmed Data : Clin Microbiol Infect. 2005 Jun;11(6):510-2. PMID: 15882206

Article Published Date : Jun 01, 2005

Authors : S P Voravuthikunchai, L Kitpipit

Study Type : In Vitro Study
Additional Links
Substances : Mangosteen : CK(42) : AC(20)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Manuka Honey (AC 4) (CK 22)

Manuka honey appears to be an effective antibacterial wound healing agent against MRSA-colonized leg ulcers.

Pubmed Data : J Dermatolog Treat. 2001 Mar;12(1):33-6. PMID: 12171686

Article Published Date : Mar 01, 2001

Authors : S Natarajan, D Williamson, J Grey, K G Harding, R A Cooper

Study Type : Human Study
Additional Links
Substances : Manuka Honey : CK(63) : AC(14)
Diseases : Leg Ulcer : CK(30) : AC(3) , MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Antibiotic Resistance : CK(56) : AC(7)

Manuka honey fights serious infection caused by MRSA

Pubmed Data : J Wound Care. 2008 Jun;17(6):241-4, 246-7. PMID: 18666717

Article Published Date : Jun 01, 2008

Authors : G Gethin, S Cowman

Study Type : Human Study
Additional Links
Substances : Manuka Honey : CK(63) : AC(14)
Diseases : MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65), Venous Ulcer : CK(42) : AC(6)

Manuka honey inhibits cell division in methicillin-resistant Staphylococcus aureus.

Pubmed Data : J Antimicrob Chemother. 2011 Nov ;66(11):2536-42. Epub 2011 Sep 7. PMID: 21903658

Article Published Date : Nov 01, 2011

Authors : Rowena Jenkins, Neil Burton, Rose Cooper

Study Type : In Vitro Study
Additional Links
Substances : Manuka Honey : CK(63) : AC(14)

Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Oxacillin and manuka honey work synergistically against MRSA.

Pubmed Data : J Antimicrob Chemother. 2012 Mar 1. Epub 2012 Mar 1. PMID: 22382468

Article Published Date : Mar 01, 2012

Authors : Rowena E Jenkins, Rose Cooper

Study Type : In Vitro Study
Additional Links
Substances : Manuka Honey : CK(63) : AC(14)
Diseases : MRSA : CK(199) : AC(65)
Additional Keywords : Drug Synergy : CK(341) : AC(151)

Maple Syrup (AC 1) (CK 1)

A maple syrup extract exhibited antimicrobial activity as well as strong synergistic interaction with selected antibiotics against gram negative clinical strains of bacteria.

Pubmed Data : Appl Environ Microbiol. 2015 Mar 27. Epub 2015 Mar 27. PMID: 25819960

Article Published Date : Mar 26, 2015

Authors : Vimal B Maisuria, Zeinab Hosseinidoust, Nathalie Tufenkji

Study Type : In Vitro Study
Additional Links
Substances : Maple Syrup : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Escherichia coli Infections : CK(100) : AC(43), Pseudomonas aeruginosa : CK(91) : AC(34)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462) , Antimicrobial : CK(190) : AC(82)
Additional Keywords : Natural Substance/Drug Synergy : CK(172) : AC(48)

Mint (AC 1) (CK 1)

Turmeric, Mint, Coriander, Garlic, Kalonji, Cinnamon and Cloves extracts had anti-staphylococcal activity.

Pubmed Data : Pak J Pharm Sci. 2015 May ;28(3):997-1004. PMID: 26004734

Article Published Date : Apr 30, 2015

Authors : Fakhra Liaqat, Ali Ahmad Sheikh, Jawad Nazir, Tanveer Hussain, Masood Rabbani, Arfat Yousaf Shaheen, Javed Muhammad

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Coriandor : CK(1) : AC(1) , Mint : CK(333) : AC(52), Turmeric : CK(4121) : AC(2001)
Diseases : Methicillin-resistant Staphylococcus aureus : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Anti-Bacterial Agents : CK(1274) : AC(423)

Nettle (AC 1) (CK 1)

Extracts of Sambucus ebulus and Urtica dioica possess antibacterial potency against MRSA isolates.

Pubmed Data : Afr J Tradit Complement Altern Med. 2014 ;11(5):38-40. Epub 2014 Aug 23. PMID: 25395702

Article Published Date : Dec 31, 2013

Authors : Ali Salehzadeh, Leila Asadpour, Akram Sadat Naeemi, Elham Houshmand

Study Type : In Vitro Study
Additional Links
Substances : Elderberry : CK(53) : AC(8) , Nettle : CK(116) : AC(13)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Nigella sativa (aka Black Seed) (AC 2) (CK 6)

N. sativa oil could be used against multi-drug resistant S. aureus in the treatment of diabetic wounds.

Pubmed Data : Pak J Pharm Sci. 2015 Nov ;28(6):1985-90. PMID: 26639493

Article Published Date : Oct 31, 2015

Authors : Lorina Badger Emeka, Promise Madu Emeka, Tahir Mehmood Khan

Study Type : Human In Vitro
Additional Links
Substances : Nigella sativa (aka Black Seed) : CK(253) : AC(67)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Dose Response : CK(782) : AC(281)

Nigella sativa has anti-bacterial activity against clinical isolates of methicillin resistant Staphylococcus aureus.

Pubmed Data : J Ayub Med Coll Abbottabad. 2008 Jul-Sep;20(3):72-4. PMID: 19610522

Article Published Date : Jul 01, 2008

Authors : Abdul Hannan, Sidrah Saleem, Saadia Chaudhary, Muhammad Barkaat, Muhammad Usman Arshad

Study Type : In Vitro Study
Additional Links
Substances : Nigella sativa (aka Black Seed) : CK(253) : AC(67)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Norway spruce (AC 1) (CK 1)

Norway spruce has antibacterial effects against Proteus

vulgaris, methicillin-resistant Staphylococcus aureus (MRSA) and vancomycin-resistant enterococcus (VRE)

Pubmed Data : APMIS. 2007 Apr;115(4):335-40. PMID: 17504300

Article Published Date : Apr 01, 2007

Authors : M Rautio, A Sipponen, R Peltola, J Lohi, J J Jokinen, A Papp, P Carlson, P Sipponen

Study Type : In Vitro Study
Additional Links
Substances : Norway spruce : CK(12) : AC(3) , Resins : CK(2) : AC(2)
Diseases : Enterococcus Infections : CK(3) : AC(3) , Proteus Vulgaris Infections : CK(1) : AC(1) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Drug Resistant Pathogens : CK(46) : AC(7)

Nutmeg (AC 1) (CK 1)

Nutmeg contains a compound with potent anti-biofilm activity against oral bacteria.

Pubmed Data : Toxicol Ind Health. 2007 Oct;23(9):507-13. PMID: 17926328

Article Published Date : Oct 01, 2007

Authors : , Yaya Rukayadi, Kyu-Hoi Kim, Jae-Kwan Hwang

Study Type : In Vitro Study
Additional Links
Substances : Nutmeg : CK(26) : AC(17)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Peridontal Infection : CK(37) : AC(6)

Oleanolic acid (AC 1) (CK 1)

The present review investigates the potential use of these triterpenes against human pathogens, including their

mechanisms of action.

Pubmed Data : Evid Based Complement Alternat Med. 2015 ;2015:620472. Epub 2015 Feb 22. PMID: 25793002

Article Published Date : Dec 31, 2014

Authors : Jéssica A Jesus, João Henrique G Lago, Márcia D Laurenti, Eduardo S Yamamoto, Luiz Felipe D Passero

Study Type : Review
Additional Links
Substances : Oleanolic acid : CK(7) : AC(4) , Ursolic Acid : CK(27) : AC(20)
Diseases : Bacillus Cereus infection : CK(1) : AC(1) , Enterococcus Infections : CK(3) : AC(3) , Hepatitis B : CK(230) : AC(37), Hepatitis C : CK(434) : AC(65) , Herpes Simplex Virus Type 1 : CK(39) : AC(16) , Herpes Simplex Virus Type 2 : CK(18) : AC(6) , Klesiella Pneumonia Infection : CK(2) : AC(1) , Mycobacterium tuberculosis : CK(3) : AC(2) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65), Staphylococcus aureus infection : CK(103) : AC(40) , Streptococcus Infections : CK(389) : AC(51)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antimicrobial : CK(190) : AC(82), Antiviral Agents : CK(862) : AC(376)

Oleic acid (AC 1) (CK 1)

An innate bactericidal oleic acid effective against skin infection of methicillin-resistant Staphylococcus aureus.

Pubmed Data : J Microbiol Biotechnol. 2011 Apr ;21(4):391-9. PMID: 21532323

Article Published Date : Mar 31, 2011

Authors : Chao-Hsuan Chen, Yanhan Wang, Teruaki Nakatsuji, Yu-Tuseng Liu, Christos Zouboulis, Richard Gallo, Liangfang Zhang, Ming-Fa Hsieh, Chun-Ming Huang

Study Type : Bacterial
Additional Links
Substances : Oleic acid : CK(18) : AC(6)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Olive leaf extract (AC 1) (CK 1)

Olive leaf extract demonstrates antimicrobial activity against Campylobacter jejuni, Helicobacter pylori and Staphylococcus aureus [including meticillin-resistant S. aureus (MRSA)].

Pubmed Data : Front Neurol Neurosci. 2010;28:107-12. Epub 2010 Mar 26. PMID: 19135874

Article Published Date : Jan 01, 2010

Authors : Aurelia N Sudjana, Carla D'Orazio, Vanessa Ryan, Nooshin Rasool, Justin Ng, Nabilah Islam, Thomas V Riley, Katherine A Hammer

Study Type : In Vitro Study
Additional Links
Substances : Olive leaf extract : CK(164) : AC(30)
Diseases : Campylobacter Infections : CK(18) : AC(7) , Helicobacter Pylori Infection : CK(391) : AC(68), Staphylococcal Infections : CK(30) : AC(18) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65), Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Orange oil (AC 1) (CK 1)

A citrus oil blend of Orange & Bergamot was vaporized with 24 hour exposure and effective at reducing meticillin-resistant Staphylococcus aureus (MRSA) and vancomycin-resistant Enterococcus sp. (VRE) on stainless steel surfaces.

Pubmed Data : J Hosp Infect. 2012 Jan ;80(1):61-6. Epub 2011 Dec 6. PMID: 22153952

Article Published Date : Dec 31, 2011

Authors : K Laird, D Armitage, C Phillips

Study Type : Bacterial
Additional Links
Substances : Citrus Oils : CK(2) : AC(1) , Orange oil : CK(2) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65) , Vancomycin-Resistant Enterococcus sp. (VRE) : CK(1) : AC(1)
Pharmacological Actions : Disinfectants : CK(1) : AC(1)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315)

Oregano (AC 1) (CK 1)

Cinnamon and Oregano, containing cinnamaldehyde and carvacrol, respectively, exhibit powerful antimicrobial activity against antibiotic-resistant strains of Campylobacter jejuni isolates.

Pubmed Data : J Food Prot. 2008 Jun;71(6):1145-9. PMID: 18592739

Article Published Date : Jun 01, 2008

Authors : Sadhana Ravishankar, Libin Zhu, Bibiana Law, Lynn Joens, Mendel Friedman

Study Type : In Vitro Study
Additional Links
Substances : Carvacrol : CK(67) : AC(9) , Cinnamaldehyde : CK(209) : AC(17) , Cinnamon : CK(147) : AC(64), Oregano : CK(70) : AC(33)
Diseases : Campylobacter Infections : CK(18) : AC(7) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Peppermint (AC 2) (CK 3)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

The essential oil of dill and peppermint enhances the antimicrobial activity of nitrofurantoin against enterobacteria.

Pubmed Data : Nutr Cancer. 1996;26(1):111-20. PMID: 17192709

Article Published Date : Jan 01, 1996

Authors : Fatemeh Rafii, Ahmad R Shahverdi

Study Type : Animal Study
Additional Links
Substances : Dill : CK(17) : AC(11) , Peppermint : CK(300) : AC(48)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Piperine (AC 1) (CK 1)

Piperine potentiates the antibacterial activity of ciprofloxacin against Staphylococcus aureus.

Pubmed Data : Antimicrob Agents Chemother. 2006 Feb;50(2):810-2. PMID: 16436753

Article Published Date : Feb 01, 2006

Authors : Inshad Ali Khan, Zahid Mehmood Mirza, Ashwani Kumar, Vijeshwar Verma, Ghulam Nabi Qazi

Study Type : In Vitro Study
Additional Links
Substances : Piperine : CK(68) : AC(14)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)

Polyphenols (AC 2) (CK 3)

Epicatechin 3-gallate (ECg) exhibits potential anti-MRSA

activity.

Pubmed Data : Lett Appl Microbiol. 2008 Feb ;46(2):181-5. Epub 2007 Dec 7. PMID: 18069979

Article Published Date : Feb 01, 2008

Authors : S Shah, P D Stapleton, P W Taylor

Study Type : In Vitro Study
Additional Links
Substances : Catechin : CK(483) : AC(134), Epicatechin : CK(3) : AC(2), Flavonoids : CK(1072) : AC(301), Polyphenols : CK(916) : AC(329)
Diseases : MRSA : CK(199) : AC(65), Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Grape seed extract has bactericidal effects on MRSA.

Pubmed Data : J Toxicol Sci. 2010;35(3):357-64. PMID: 20519844

Article Published Date : Jan 01, 2010

Authors : Aamar Al-Habib, Esmaeil Al-Saleh, Abdel-Majeed Safer, Mohammad Afzal

Study Type : Animal Study
Additional Links
Substances : Flavonoids : CK(1072) : AC(301), Grape Seed Extract : CK(274) : AC(58), Polyphenols : CK(916) : AC(329)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423), Antioxidants : CK(6711) : AC(2004)

Pomegranate (AC 2) (CK 2)

A combination of pomegranate rind extract, copper and vitamin C have antimicrobial activity against multidrug resistant Pseudomonas aeruginosa.

Pubmed Data : Br J Biomed Sci. 2009;66(3):129-32. PMID: 19839222

Article Published Date : Jan 01, 2009

Authors : S W J Gould, M D Fielder, A F Kelly, W El Sankary, D P Naughton

Study Type : In Vitro Study
Additional Links
Substances : Copper : CK(82) : AC(16), Pomegranate : CK(343) : AC(73), Vitamin C : CK(1755) : AC(271)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112), Pseudomonas aeruginosa : CK(91) :

AC(34), Pseudomonas Infections : CK(28) : AC(11)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Pomegranate rind extract exhibits anti-MRSA properties synergistically with cupric sulfate. .

Pubmed Data : BMC Complement Altern Med. 2009 ;9:23. Epub 2009 Jul 27. PMID: 19635137

Article Published Date : Jan 01, 2009

Authors : Simon W J Gould, Mark D Fielder, Alison F Kelly, Declan P Naughton

Study Type : Bacterial
Additional Links
Substances : Pomegranate : CK(343) : AC(73)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Drug Synergy : CK(341) : AC(151) , Plant Extracts : CK(6992) : AC(2315)

Pomegranate Polyphenols (AC 1) (CK 1)

"Antibacterial effects of plant-derived extracts on methicillin-resistant Staphylococcus aureus."

Pubmed Data : Foodborne Pathog Dis. 2012 Jun ;9(6):573-8. PMID: 22663188

Article Published Date : May 31, 2012

Authors : Xiaowei Su, Amy B Howell, Doris H D'Souza

Study Type : In Vitro Study
Additional Links
Substances : Cranberry Proanthocyanidins : CK(1) : AC(1) , Grape Seed Extract : CK(274) : AC(58) , Pomegranate Polyphenols : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Plant Extracts : CK(6992) : AC(2315) , Proanthocyanidins : CK(170) : AC(48)

Prickly Ash (AC 1) (CK 1)

Zanthoxylum clava-herculis extract exhibits potent activity against multi-drug resistance MRSA Staphyloccocus.

Pubmed Data : Phytother Res. 2003 Mar;17(3):274-5. PMID: 12672160

Article Published Date : Mar 01, 2003

Authors : Simon Gibbons, Julia Leimkugel, Moyo Oluwatuyi, Michael Heinrich

Study Type : In Vitro Study
Additional Links
Substances : Prickly Ash : CK(11) : AC(4)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Proanthocyanidins (AC 1) (CK 1)

Proanthocyanidin inhibits the adherence of multi-drug resistant E. coli.

Pubmed Data : Urol Res. 2011 Jun 19. Epub 2011 Jun 19. PMID: 21688109

Article Published Date : Jun 19, 2011

Authors : Ashish Gupta, Mayank Dwivedi, Abbas Ali Mahdi, G A Nagana Gowda, Chunni Lal Khetrapal, Mahendra Bhandari

Study Type : In Vitro Study
Additional Links
Substances : Cranberry : CK(226) : AC(42) , Proanthocyanidins : CK(21) : AC(3)
Diseases : Escherichia coli Infections : CK(100) : AC(43) , Infection: Antibiotic Resistant : CK(350) : AC(112), Urinary Tract Infections : CK(338) : AC(47)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Probiotics (AC 3) (CK 12)

Antibiotic resistance in probiotic bacteria may actually be beneficial to the host.

Pubmed Data : Front Microbiol. 2013 ;4:202. Epub 2013 Jul 18. PMID: 23882264

Article Published Date : Dec 31, 2012

Authors : Miguel Gueimonde, Borja Sánchez, Clara G de Los Reyes-Gavilán, Abelardo Margolles

Study Type : Bacterial
Additional Links
Substances : Probiotics : CK(2818) : AC(348)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112)

Fermentation of Propionibacterium acnes, a commensal bacterium in the human skin microbiome, as skin probiotics against methicillin-resistant Staphylococcus aureus.

Pubmed Data : PLoS One. 2013 ;8(2):e55380. Epub 2013 Feb 6. PMID: 23405142

Article Published Date : Dec 31, 2012

Authors : Muya Shu, Yanhan Wang, Jinghua Yu, Sherwin Kuo, Alvin Coda, Yong Jiang, Richard L Gallo, Chun-Ming Huang

Study Type : Bacterial
Additional Links
Substances : Probiotics : CK(2818) : AC(348) , Propionibacterium acnes : CK(1) : AC(1)
Diseases : MRSA : CK(199) : AC(65)

Probiotic strains from breast milk are superior to antibiotics in the treatment of infectious mastitits.

Pubmed Data : Clin Infect Dis. 2010 Jun 15 ;50(12):1551-8. PMID: 20455694

Article Published Date : Jun 15, 2010

Authors : Rebeca Arroyo, Virginia Martín, Antonio Maldonado, Esther Jiménez, Leónides Fernández, Juan Miguel Rodríguez

Study Type : Human Study
Additional Links
Substances : Breast Milk : CK(428) : AC(49), Lactobacillus fermentum : CK(21) : AC(3) , Lactobacillus probiotics : CK(1445) : AC(200), Lactobacillus salivarius : CK(33) : AC(5), Probiotics : CK(2859) : AC(282)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Lactation Disorders : CK(132) : AC(16) , Mastitis : CK(14) : AC(4)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Superiority of Natural Substances versus Drugs : CK(1256) : AC(225)

Propionibacterium acnes (AC 1) (CK 1)

Fermentation of Propionibacterium acnes, a commensal bacterium in the human skin microbiome, as skin probiotics against methicillin-resistant Staphylococcus aureus.

Pubmed Data : PLoS One. 2013 ;8(2):e55380. Epub 2013 Feb 6. PMID: 23405142

Article Published Date : Dec 31, 2012

Authors : Muya Shu, Yanhan Wang, Jinghua Yu, Sherwin Kuo, Alvin Coda, Yong Jiang, Richard L Gallo, Chun-Ming Huang

Study Type : Bacterial
Additional Links
Substances : Probiotics : CK(2818) : AC(348) , Propionibacterium acnes : CK(1) : AC(1)
Diseases : MRSA : CK(199) : AC(65)

Quercetin (AC 1) (CK 1)

Epigallocatechin gallate and Quercetin had a synergistic effect against methicillin-resistant Staphylococcus aureus.

Pubmed Data : J Nat Prod. 2015 Aug 12. Epub 2015 Aug 12. PMID: 26267658

Article Published Date : Aug 11, 2015

Authors : Jonathan W Betts, Amir S Sharili, Lynette M Phee, David W Wareham

Study Type : In Vitro Study
Additional Links
Substances : EGCG (Epigallocatechin gallate) : CK(511) : AC(269) , Quercetin : CK(412) : AC(143)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)
Additional Keywords : Natural Substance Synergy : CK(471) : AC(217)

Quercus infectoria (AC 1) (CK 1)

"Anti-biofilm activity of Quercus infectoria G. Olivier against methicillin-resistant Staphylococcus aureus."

Pubmed Data : Lett Appl Microbiol. 2012 Jun ;54(6):511-7. Epub 2012 Apr 4. PMID: 22486208

Article Published Date : May 31, 2012

Authors : S Chusri, P Na Phatthalung, S P Voravuthikunchai

Study Type : In Vitro Study
Additional Links
Substances : Quercus infectoria : CK(1) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Raspberry root (AC 1) (CK 1)

Black raspberry root polyphenols exhibit antibacterial activity against drug resistant bacteria.

Pubmed Data : Korean J Physiol Pharmacol. 2013 Feb ;17(1):73-9. Epub 2013 Feb 14. PMID: 23440625

Article Published Date : Jan 31, 2013

Authors : Seong Keun Kim, Hyuna Kim, Song Ah Kim, Hee Kuk Park, Wonyong Kim

Study Type : In Vitro Study
Additional Links
Substances : Raspberry root : CK(1) : AC(1)
Diseases : Anthrax : CK(43) : AC(6) , Bacillus anthracis : CK(1) : AC(1) , Carbapenem-resistant Acinetobacter baumannii (CRAB) : CK(1) : AC(1), MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Problem Substances : Bacillus anthracis : CK(1) : AC(1)

Resins (AC 1) (CK 1)

Norway spruce has antibacterial effects against Proteus vulgaris, methicillin-resistant Staphylococcus aureus (MRSA) and vancomycin-resistant enterococcus (VRE)

Pubmed Data : APMIS. 2007 Apr;115(4):335-40. PMID: 17504300

Article Published Date : Apr 01, 2007

Authors : M Rautio, A Sipponen, R Peltola, J Lohi, J J Jokinen, A Papp, P Carlson, P Sipponen

Study Type : In Vitro Study
Additional Links
Substances : Norway spruce : CK(12) : AC(3) , Resins : CK(2) : AC(2)
Diseases : Enterococcus Infections : CK(3) : AC(3) , Proteus Vulgaris Infections : CK(1) : AC(1) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65) , Staphylococcus aureus infection : CK(103) : AC(40)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Drug Resistant Pathogens : CK(46) : AC(7)

Rosemary (AC 2) (CK 3)

Dried rosemary leaves are effective in treating streptococcosis infection in tilapia without the development of resistance.

Pubmed Data : J Environ Sci Health A Tox Hazard Subst Environ Eng. 2007 Sep;42(11):1579-84. PMID: 20158579

Article Published Date : Sep 01, 2007

Authors : D Zilberg, A Tal, N Froyman, S Abutbul, N Dudai, A Golan-Goldhirsh

Study Type : Animal Study
Additional Links
Substances : Rosemary : CK(174) : AC(62)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Streptococcus Infections : CK(389) : AC(51)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antimicrobial : CK(190) : AC(82)

Rosemary has activity against drug-resistant bacterial and fungal pathogens.

Pubmed Data : Altern Ther Health Med. 2007 Sep-Oct;13(5):54-9. PMID: 17900043

Article Published Date : Sep 01, 2007

Authors : Suaib Luqman, Gaurav R Dwivedi, Mahendra P Darokar, Alok Kalra, Suman P S Khanuja

Study Type : In Vitro Study
Additional Links
Substances : Rosemary : CK(174) : AC(62)
Diseases : Candida Infection : CK(227) : AC(97), Escherichia coli Infections : CK(100) : AC(43) , Infection: Antibiotic Resistant : CK(350) : AC(112) , Mycobacterium Infections : CK(274) : AC(16)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Sage (AC 1) (CK 1)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Sandalwood (AC 1) (CK 1)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Silver (nanoparticles) (AC 4) (CK 12)

Collodial silver has high antimicrobial and bactericidal activity against Gram-positive and Gram-negative bacteria, including MRSA staphylococcus.

Pubmed Data : J Phys Chem B. 2006 Aug 24;110(33):16248-53. PMID: 16913750

Article Published Date : Aug 24, 2006

Authors : Ales Panacek, Libor Kvítek, Robert Prucek, Milan Kolar, Renata Vecerova, Nadezda Pizúrova, Virender K Sharma, Tat'jana Nevecna, Radek Zboril

Additional Links
Substances : Silver (nanoparticles) : CK(20) : AC(9)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Nano silver is an effective treatment against MRSA Staphylococcus aureus in wounds.

Pubmed Data : J Wound Care. 2006 Jul;15(7):285-90. PMID: 16869194

Article Published Date : Jul 01, 2006

Authors : V Edwards-Jones

Study Type : In Vitro Study
Additional Links
Substances : Silver (nanoparticles) : CK(20) : AC(9)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Silver nanoparticles may be a useful tool to combat multi-drug resistant bacteria.

Pubmed Data : J Appl Microbiol. 2012 Feb 11. Epub 2012 Feb 11. PMID: 22324439

Article Published Date : Feb 11, 2012

Authors : Mahendra K Rai, Shivaji D Deshmukh, Avinash P Ingle, Aniket K Gade

Study Type : In Vitro Study
Additional Links
Substances : Silver (nanoparticles) : CK(20) : AC(9)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Drug Resistant Pathogens : CK(46) : AC(7)

Topical nanocrystalline silver dressing may provide an alternative treatment for MRSA infected wounds to oral antimicrobials.

Pubmed Data : Int J Low Extrem Wounds. 2008 Mar;7(1):45-8. PMID: 18372271

Article Published Date : Mar 01, 2008

Authors : Mayukh Bhattacharyya, Helen Bradley

Study Type : Human Study
Additional Links
Substances : Silver (nanoparticles) : CK(20) : AC(9)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Silver Compouds (AC 2) (CK 2)

"Synthesis and in vitro Efficacy Studies of Silver Carbene Complexes on Biosafety Level 3 Bacteria."

Pubmed Data : Eur J Inorg Chem. 2009 May 1 ;2009(13):1739-1745. PMID: 20160993

Article Published Date : May 01, 2009

Authors : Matthew J Panzner, Arpaporn Deeraksa, Alyssa Smith, Brian D Wright, Khadijah M Hindi, Aysegul Kascatan-Nebioglu, Alfredo G Torres, Barbara M Judy, Christine E Hovis, Julia K Hilliard, Rebekah J Mallett, Emily Cope, D Mark Estes, Carolyn L Cannon, Jeff G Leid, Wiley J Youngs

Study Type : Bacterial
Additional Links
Substances : Silver Compouds : CK(1) : AC(1)
Diseases : Bacteria: Weaponized : CK(1) : AC(1) , Bubonic Plague : CK(7) : AC(1) , MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

"Synthesis, characterization, and antimicrobial activity of silver carbene complexes derived from 4,5,6,7-tetrachlorobenzimidazole against antibiotic resistant bacteria."

Pubmed Data : Dalton Trans. 2012 Jun 7 ;41(21):6500-6. Epub 2012 Mar 8. PMID: 22402409

Article Published Date : Jun 07, 2012

Authors : Brian D Wright, Parth N Shah, Lucas J McDonald, Michael L Shaeffer, Patrick O Wagers, Matthew J Panzner, Justin Smolen, Jasur Tagaev, Claire A Tessier, Carolyn L Cannon, Wiley J Youngs

Study Type : In Vitro Study
Additional Links
Substances : Silver Compouds : CK(1) : AC(1)
Diseases : Bacteria: Weaponized : CK(1) : AC(1) , Bubonic Plague : CK(7) : AC(1) , Cystic Fibrosis: Infections : CK(1) : AC(1), MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Sojacareubin (AC 1) (CK 1)

Sojacareubin from the Chinese Herb Hypericum japonicum exhibits anti-MRSA.

Pubmed Data : Int J Mol Sci. 2012 ;13(7):8210-8. Epub 2012 Jul 3. PMID: 22942699

Article Published Date : Dec 31, 2011

Authors : Guo-Ying Zuo, Jing An, Jun Han, Yun-Ling Zhang, Gen-Chun Wang, Xiao-Yan Hao, Zhong-Qi Bian

Study Type : In Vitro Study
Additional Links
Substances : Hypericum japonicum : CK(1) : AC(1) , Sojacareubin : CK(1) : AC(1)

Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Tabebuia (AC 1) (CK 1)

The Tabebuia tree bark contains compounds with anti-MRSA staphylococci activity.

Pubmed Data : Ann Clin Microbiol Antimicrob. 2006 Mar 22;5:5. PMID: 16553949

Article Published Date : Mar 22, 2006

Authors : Eliezer Menezes Pereira, Thelma de Barros Machado, Ivana Correa Ramos Leal, Desyreé Murta Jesus, Clarissa Rosa de Almeida Damaso, Antonio Ventura Pinto, Marcia Giambiagi-deMarval, Ricardo Machado Kuster, Kátia Regina Netto dos Santos

Study Type : In Vitro Study
Additional Links
Substances : Tabebuia : CK(10) : AC(9)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Tarragon (AC 1) (CK 1)

Wormwood, tarragon and eucalyptus contain the compound pipertone which reduces antibiotic resistance against Enterobacter cloacae.

Pubmed Data : J Chromatogr B Analyt Technol Biomed Life Sci. 2007 May 1;850(1-2):528-30. Epub 2006 Nov 30. PMID: 17140862

Article Published Date : May 01, 2007

Authors : Ahmad R Shahverdi, Farid Abdolpour, Hamid R Monsef-Esfahani, Hasan Farsam

Study Type : In Vitro Study
Additional Links
Substances : Eucalyptus : CK(67) : AC(22) , Tarragon : CK(19) : AC(14) , Wormwood : CK(41) : AC(12)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) ,

Enterobacteriaceae Infections : CK(39) : AC(9) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Tea Tree (AC 3) (CK 12)

Plant-derived antiseptic oils may represent a promising and affordable topical agent to support surgical treatment against multi-resistant and hospital-acquired infections.

Pubmed Data : J Craniomaxillofac Surg. 2013 Jun ;41(4):321-6. Epub 2012 Nov 29. PMID: 23199627

Article Published Date : May 31, 2013

Authors : Patrick H Warnke, Alexander J S Lott, Eugene Sherry, Joerg Wiltfang, Rainer Podschun

Study Type : Bacterial
Additional Links
Substances : Lemongrass: Essential Oil : CK(2) : AC(1) , Tea Tree : CK(107) : AC(23)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Additional Keywords : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Problem Substances : Chlorhexidine gluconate : CK(32) : AC(5)

Tea tree oil as an alternative topical decolonization agent for methicillin-resistant Staphylococcus aureus.

Pubmed Data : J Hosp Infect. 2000 Nov;46(3):236-7. PMID: 11073734

Article Published Date : Nov 01, 2000

Authors : M Caelli, J Porteous, C F Carson, R Heller, T V Riley

Study Type : In Vitro Study
Additional Links
Substances : Tea Tree : CK(107) : AC(23)
Diseases : MRSA : CK(199) : AC(65)
Additional Keywords : Drug: Mupirocin : CK(1) : AC(1) , Drug: Triclosan : CK(1) : AC(1) , Superiority of Natural Substances versus Drugs : CK(1298) : AC(245)

Tea tree topical preparations are superior to standard topical regimen for the clearance of MRSA colonization.

Pubmed Data : J Hosp Infect. 2004 Apr;56(4):283-6. PMID: 15066738

Article Published Date : Apr 01, 2004

Authors : M S Dryden, S Dailly, M Crouch

Study Type : Human Study
Additional Links
Substances : Tea Tree : CK(107) : AC(23)
Diseases : MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Additional Keywords : Superiority of Natural Substances versus Drugs : CK(1298) : AC(245)

Thyme (AC 2) (CK 3)

A number of plant oil extracts inhibit multi-resistant strains of bacteria and yeast.

Pubmed Data : J Craniomaxillofac Surg. 2009 May 25. PMID: 19473851

Article Published Date : May 25, 2009

Authors : Patrick H Warnke, Stephan T Becker, Rainer Podschun, Sureshan Sivananthan, Ingo N Springer, Paul A J Russo, Joerg Wiltfang, Helmut Fickenscher, Eugene Sherry

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Grapefruit : CK(106) : AC(29) , Lemongrass : CK(14) : AC(5) , Peppermint : CK(300) : AC(48) , Sage : CK(91) : AC(18) , Sandalwood : CK(4) : AC(4), Thyme : CK(40) : AC(25)
Diseases : Candida Infection : CK(227) : AC(97), MRSA : CK(199) : AC(65) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antifungal Agents : CK(201) : AC(125)

Thyme and Eucalyptus oil have antibacterial activity against MRSA isolates.

Pubmed Data : Phytomedicine. 2009 Jul 1. Epub 2009 Jul 1. PMID: 19576738

Article Published Date : Jul 01, 2009

Authors : A Tohidpour, M Sattari, R Omidbaigi, A Yadegar, J Nazemi

Study Type : Animal Study
Additional Links
Substances : Eucalyptus : CK(67) : AC(22) , Thyme : CK(40) : AC(25)
Diseases : MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)

Thymoquinone (AC 1) (CK 1)

This is the first detailed report on anti-MRSA activity of thymoquinone.

Pubmed Data : Lett Appl Microbiol. 2016 Mar ;62(3):283-9. PMID: 26743923

Article Published Date : Feb 29, 2016

Authors : P Hariharan, M Paul-Satyaseela, A Gnanamani

Study Type : In Vitro Study
Additional Links
Substances : Thymoquinone : CK(130) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Tomatidine (AC 1) (CK 1)

The combination of tomatidine and tobramycin maybe a new treatment for cystic fibrosis patients frequently cocolonized by MRSA and P. aeruginosa.

Pubmed Data : Antimicrob Agents Chemother. 2015 Dec ;59(12):7458-64. Epub 2015 Sep 21. PMID: 26392496

Article Published Date : Nov 30, 2015

Authors : Simon Boulanger, Gabriel Mitchell, Kamal Bouarab, Éric Marsault, André Cantin, Eric H Frost, Eric Déziel, François Malouin

Study Type : In Vitro Study
Additional Links
Substances : Tomatidine : CK(3) : AC(1)
Diseases : Cystic Fibrosis: Infections : CK(1) : AC(1) , Pseudomonas aeruginosa : CK(91) : AC(34) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Traditional Herbal Recipes: Thai (AC 1) (CK 5)

A traditional Thai herbal formulation inhibits Staphylococcus epidermis biofilm formation.

Pubmed Data : Evid Based Complement Alternat Med. 2012 ;2012:159797. Epub 2012 Aug 7. PMID: 22919409

Article Published Date : Dec 31, 2011

Authors : S Chusri, K Sompetch, S Mukdee, S Jansrisewangwong, T Srichai, K Maneenoon, S Limsuwan, S P Voravuthikunchai

Study Type : Human In Vitro
Additional Links
Substances : Traditional Herbal Recipes: Thai : CK(5) : AC(1)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Skin Infections : CK(21) : AC(1), Staphylococcus epidermidis : CK(2) : AC(1)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Turmeric (AC 3) (CK 7)

An ethyl acetate extract of C. longa may have antibacterial activity and the potential to restore the effectiveness of beta-lactams against MRSA.

Pubmed Data : Phytother Res. 2005 Jul ;19(7):599-604. PMID: 16161063

Article Published Date : Jun 30, 2005

Authors : Kang-Ju Kim, Hyeon-Hee Yu, Jung-Dan Cha, Se-Jeong Seo, Na-Young Choi, Yong-Ouk You

Study Type : Human In Vitro
Additional Links
Substances : Turmeric : CK(4121) : AC(2001)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Phytotherapy : CK(971) : AC(160) , Plant Extracts : CK(6992) : AC(2315)

Curcumin in combination with antibiotics could lead to the development of new combination of antibiotics against MRSA infection.

Pubmed Data : Phytomedicine. 2013 Jun 15 ;20(8-9):714-8. Epub 2013 Mar 26. PMID: 23537748

Article Published Date : Jun 14, 2013

Authors : Su-Hyun Mun, Dae-Ki Joung, Yong-Sik Kim, Ok-Hwa Kang, Sung-Bae Kim, Yun-Soo Seo, Youn-Chul Kim, Dong-Sung Lee, Dong-Won Shin, Kee-Tae Kweon, Dong-Yeul Kwon

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(3954) : AC(2095) , Turmeric : CK(4121) : AC(2001)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Natural Substance/Drug Synergy : CK(172) : AC(48) , Plant Extracts : CK(6992) : AC(2315)

Turmeric, Mint, Coriander, Garlic, Kalonji, Cinnamon and Cloves extracts had anti-staphylococcal activity.

Pubmed Data : Pak J Pharm Sci. 2015 May ;28(3):997-1004. PMID: 26004734

Article Published Date : Apr 30, 2015

Authors : Fakhra Liaqat, Ali Ahmad Sheikh, Jawad Nazir, Tanveer Hussain, Masood Rabbani, Arfat Yousaf Shaheen, Javed Muhammad

Study Type : In Vitro Study
Additional Links
Substances : Cinnamon : CK(147) : AC(64) , Clove : CK(93) : AC(48) , Coriandor : CK(1) : AC(1) , Mint : CK(333) : AC(52), Turmeric : CK(4121) : AC(2001)
Diseases : Methicillin-resistant Staphylococcus aureus : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Anti-Bacterial Agents : CK(1274) : AC(423)

Ursolic Acid (AC 1) (CK 1)

The present review investigates the potential use of these triterpenes against human pathogens, including their mechanisms of action.

Pubmed Data : Evid Based Complement Alternat Med. 2015 ;2015:620472. Epub 2015 Feb 22. PMID: 25793002

Article Published Date : Dec 31, 2014

Authors : Jéssica A Jesus, João Henrique G Lago, Márcia D Laurenti, Eduardo S Yamamoto, Luiz Felipe D Passero

Study Type : Review
Additional Links
Substances : Oleanolic acid : CK(7) : AC(4) , Ursolic Acid : CK(27) : AC(20)
Diseases : Bacillus Cereus infection : CK(1) : AC(1) , Enterococcus Infections : CK(3) : AC(3) , Hepatitis B : CK(230) : AC(37), Hepatitis C : CK(434) : AC(65) , Herpes Simplex Virus Type 1 : CK(39) : AC(16) , Herpes Simplex Virus Type 2 : CK(18) : AC(6) , Klesiella Pneumonia Infection : CK(2) : AC(1) , Mycobacterium tuberculosis : CK(3) : AC(2) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65), Staphylococcus aureus infection : CK(103) : AC(40) , Streptococcus Infections : CK(389) : AC(51)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423) , Antimicrobial : CK(190) : AC(82), Antiviral Agents : CK(862) : AC(376)

Vitamin C (AC 1) (CK 1)

A combination of pomegranate rind extract, copper and vitamin C have antimicrobial activity against multidrug resistant Pseudomonas aeruginosa.

Pubmed Data : Br J Biomed Sci. 2009;66(3):129-32. PMID: 19839222

Article Published Date : Jan 01, 2009

Authors : S W J Gould, M D Fielder, A F Kelly, W El Sankary, D P Naughton

Study Type : In Vitro Study
Additional Links
Substances : Copper : CK(82) : AC(16) , Pomegranate : CK(343) : AC(73) , Vitamin C : CK(1755) : AC(271)
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Pseudomonas aeruginosa : CK(91) : AC(34), Pseudomonas Infections : CK(28) : AC(11)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Multi-Drug Resistant Pathogens : CK(16) : AC(13)

Vitamin D (AC 1) (CK 1)

This review details the association between vitamin D deficiency and common infections.

Pubmed Data : Can J Physiol Pharmacol. 2015 May ;93(5):363-8. Epub 2015 Jan 26. PMID: 25741906

Article Published Date : Apr 30, 2015

Authors : Richard R Watkins, Tracy L Lemonovich, Robert A Salata

Study Type : Review
Additional Links
Substances : Vitamin D : CK(2705) : AC(379)
Diseases : Hepatitis C : CK(434) : AC(65) , HIV Infections : CK(609) : AC(186) , Influenza : CK(722) : AC(99), Pneumonia : CK(330) : AC(40) , Sepsis : CK(235) : AC(27) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65), Vitamin D Deficiency : CK(1190) : AC(49)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Diseases that are Linked : CK(2142) : AC(272)

Wormwood (AC 1) (CK 1)

Wormwood, tarragon and eucalyptus contain the compound pipertone which reduces antibiotic resistance against Enterobacter cloacae.

Pubmed Data : J Chromatogr B Analyt Technol Biomed Life Sci. 2007 May 1;850(1-2):528-30. Epub 2006 Nov 30. PMID: 17140862

Article Published Date : May 01, 2007

Authors : Ahmad R Shahverdi, Farid Abdolpour, Hamid R Monsef-Esfahani, Hasan Farsam

Study Type : In Vitro Study
Additional Links
Substances : Eucalyptus : CK(67) : AC(22) , Tarragon : CK(19) : AC(14) , Wormwood : CK(41) : AC(12)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93) , Enterobacteriaceae Infections : CK(39) : AC(9) , Infection: Antibiotic Resistant : CK(350) : AC(112)

Category : Problem Substances

Antibiotics (AC 2) (CK 21)

Individuals prescribed an antibiotic in primary care for a respiratory or urinary infection develop bacterial resistance to that antibiotic.

Pubmed Data : BMJ. 2010;340:c2096. Epub 2010 May 18. PMID: 20483949

Article Published Date : Feb 01, 2009

Authors : Céire Costelloe, Chris Metcalfe, Andrew Lovering, David Mant, Alastair D Hay

Study Type : Meta Analysis
Additional Links
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Upper Respiratory Infections : CK(950) : AC(114), Urinary Tract Infections : CK(338) : AC(47)
Pharmacological Actions : Anti-Bacterial Agents : CK(1274) : AC(423)
Additional Keywords : Antibiotic Resistance : CK(56) : AC(7)
Problem Substances : Antibiotics : CK(288) : AC(24)

Magnolol and honokiol showed a broad spectrum of synergistic potentiation of conventional antibacterial agents.

Pubmed Data : BMC Complement Altern Med. 2015 ;15(1):425. Epub 2015 Dec 1. PMID: 26627468

Article Published Date : Dec 31, 2014

Authors : Guo-Ying Zuo, Xin-Juan Zhang, Jun Han, Yu-Qing Li, Gen-Chun Wang

Study Type : In Vitro Study
Additional Links
Substances : Honokiol : CK(29) : AC(4) , Magnolol : CK(1) : AC(1)
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Antibiotic Resistance : CK(56) : AC(7) , Natural Substance/Drug Synergy : CK(172) : AC(48), Natural Substances Versus Drugs : CK(1544) : AC(250) , Natural Substances Versus Drugs : CK(1544) : AC(250)
Problem Substances : Antibiotics : CK(288) : AC(24)

Bacillus anthracis (AC 1) (CK 1)

Black raspberry root polyphenols exhibit antibacterial activity against drug resistant bacteria.

Pubmed Data : Korean J Physiol Pharmacol. 2013 Feb ;17(1):73-9. Epub 2013 Feb 14. PMID: 23440625

Article Published Date : Jan 31, 2013

Authors : Seong Keun Kim, Hyuna Kim, Song Ah Kim, Hee Kuk Park, Wonyong Kim

Study Type : In Vitro Study
Additional Links
Substances : Raspberry root : CK(1) : AC(1)
Diseases : Anthrax : CK(43) : AC(6) , Bacillus anthracis : CK(1) : AC(1) , Carbapenem-resistant Acinetobacter baumannii (CRAB) : CK(1) : AC(1), MRSA : CK(199) : AC(65)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Problem Substances : Bacillus anthracis : CK(1) : AC(1)

Chlorhexidine gluconate (AC 1) (CK 1)

Plant-derived antiseptic oils may represent a promising and affordable topical agent to support surgical treatment against multi-resistant and hospital-acquired infections.

Pubmed Data : J Craniomaxillofac Surg. 2013 Jun ;41(4):321-6. Epub 2012 Nov 29. PMID: 23199627

Article Published Date : May 31, 2013

Authors : Patrick H Warnke, Alexander J S Lott, Eugene Sherry, Joerg Wiltfang, Rainer Podschun

Study Type : Bacterial
Additional Links
Substances : Lemongrass: Essential Oil : CK(2) : AC(1) , Tea Tree : CK(107) : AC(23)
Diseases : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Additional Keywords : Bacterial Infections: Resistance/Biofilm Formation : CK(264) : AC(93)
Problem Substances : Chlorhexidine gluconate : CK(32) : AC(5)

Disinfection by-products: In Drinking Water (AC 1) (CK 1)

Exposure to mutagenic disinfection byproducts leads to increase of antibiotic resistance in Pseudomonas aeruginosa.

Pubmed Data : Environ Sci Technol. 2014 Jul 15 ;48(14):8188-95. Epub 2014 Jun 26. PMID: 24933271

Article Published Date : Jul 14, 2014

Authors : Lu Lv, Tao Jiang, Shenghua Zhang, Xin Yu

Study Type : Bacterial
Additional Links
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Pseudomonas aeruginosa : CK(91) : AC(34)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Problem Substances : Disinfection by-products: In Drinking Water : CK(2) : AC(2) , Tap Water : CK(6) : AC(6)

Fluoroquinolone Antibiotic (AC 1) (CK 20)

Fluoroquinolone prescriptions for pneumonia are associated with longer delays in diagnosis and treatment of pulmonary TB and a higher risk of developing fluoroquinolone-resistant M. tuberculosis.

Pubmed Data : Int J Infect Dis. 2011 Mar;15(3):e211-6. Epub 2010 Dec 30. PMID: 21195001

Article Published Date : Mar 01, 2011

Authors : Tun-Chieh Chen, Po-Liang Lu, Chun-Yu Lin, Wei-Ru Lin, Yen-Hsu Chen

Study Type : Meta Analysis
Additional Links

Diseases : Infection: Antibiotic Resistant : CK(401) : AC(141) , Pulmonary Tubercolosis : CK(80) : AC(12)
Additional Keywords : Antibiotic Resistance : CK(56) : AC(7)
Problem Substances : Fluoroquinolone Antibiotic : CK(82) : AC(11)

Hydrocortisone (AC 1) (CK 10)

Vertebral osteomyelitis caused by methicillin-resistant staphylococcus aureus (MRSA) is a potentially catastrophic outcome after lumbar epidural steroid injection.

Pubmed Data : Pain Physician. 2008 Sep-Oct;11(5):693-7. PMID: 18850035

Article Published Date : Sep 01, 2008

Authors : Thomas T Simopoulos, Jan J Kraemer, Paul Glazer, Zahid H Bajwa

Study Type : Human Study
Additional Links
Diseases : MRSA : CK(199) : AC(65) , Osteomyelitis : CK(43) : AC(6) , Spinal Stenosis : CK(30) : AC(3)
Additional Keywords : Diseases that are Linked : CK(2142) : AC(272)
Problem Substances : Hydrocortisone : CK(30) : AC(3)

Meat (AC 1) (CK 10)

"MRSA in pork production shower facilities: an intervention to reduce occupational exposure."

Pubmed Data : J Agric Saf Health. 2012 Jan ;18(1):5-9. PMID: 22458012

Article Published Date : Dec 31, 2011

Authors : K R Leedom Larson, E A Wagstrom, K J Donham, A L Harper, B M Hanson, M J Male, T C Smith

Study Type : Human Study
Additional Links
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)

Additional Keywords : Meat Packing Industry : CK(10) : AC(1)
Problem Substances : Meat : CK(94) : AC(8)

Tap Water (AC 1) (CK 1)

Exposure to mutagenic disinfection byproducts leads to increase of antibiotic resistance in Pseudomonas aeruginosa.

Pubmed Data : Environ Sci Technol. 2014 Jul 15 ;48(14):8188-95. Epub 2014 Jun 26. PMID: 24933271

Article Published Date : Jul 14, 2014

Authors : Lu Lv, Tao Jiang, Shenghua Zhang, Xin Yu

Study Type : Bacterial
Additional Links
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Pseudomonas aeruginosa : CK(91) : AC(34)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Problem Substances : Disinfection by-products: In Drinking Water : CK(2) : AC(2) , Tap Water : CK(6) : AC(6)

Zinc Chloride (AC 1) (CK 1)

Zinc chloride resistance may be contributing to the development of MRSA.

Pubmed Data : Vet Microbiol. 2010 May 19;142(3-4):455-7. Epub 2009 Oct 31. PMID: 19939591

Article Published Date : May 19, 2010

Authors : Frank Møller Aarestrup, Lina Cavaco, Henrik Hasman

Study Type : In Vitro Study
Additional Links
Diseases : MRSA : CK(199) : AC(65)
Problem Substances : Zinc Chloride : CK(21) : AC(8)

Category : Therapeutic Actions

Hyperbaric Treatment (AC 1) (CK 2)

The combination of hyperbaric oxygen with antibiotics shows a significant effect on MRSA mediastinitis.

Pubmed Data : Braz J Cardiovasc Surg. 2015 Oct ;30(5):538-43. PMID: 26735600

Article Published Date : Sep 30, 2015

Authors : Tolga Kurt, Ahmet Vural, Ahmet Temiz, Ersan Ozbudak, Ali Umit Yener, Suzan Sacar, Mustafa Sacar

Study Type : Animal Study
Additional Links
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Therapeutic Actions : Hyperbaric Treatment : CK(379) : AC(46)
Additional Keywords : Therapeutic Action Synergy with Drugs : CK(20) : AC(2)

Laser Treatment: Low-Level (AC 1) (CK 1)

This concludes that both 405-nm laser and 405-nm LED's on MRSA had similar antimicrobial effects.

Pubmed Data : Lasers Med Sci. 2015 Sep 11. Epub 2015 Sep 11. PMID: 26362142

Article Published Date : Sep 10, 2015

Authors : Daniela Santos Masson-Meyers, Violet Vakunseh Bumah, Gabriel Biener, Valerica Raicu, Chukuka Samuel Enwemeka

Study Type : In Vitro Study
Additional Links

Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Therapeutic Actions : Laser Treatment: Low-Level : CK(39) : AC(9) , Light-Emitting Diodes (LEDs) Therapy : CK(14) : AC(3)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)

Light Therapy (AC 2) (CK 2)

Curcumin has a phototoxic effect on methicillin-resistant Staphylococcus aureus.

Pubmed Data : Lasers Med Sci. 2012 Feb 23. Epub 2012 Feb 23. PMID: 22358772

Article Published Date : Feb 23, 2012

Authors : Ana Paula Dias Ribeiro, Ana Cláudia Pavarina, Livia Nordi Dovigo, Iguatemy Lourenço Brunetti, Vanderlei Salvador Bagnato, Carlos Eduardo Vergani, Carlos Alberto de Souza Costa

Study Type : In Vitro Study
Additional Links
Substances : Curcumin : CK(3954) : AC(2095)
Diseases : MRSA : CK(199) : AC(65)
Therapeutic Actions : Light Therapy : CK(102) : AC(19)

Ultraviolet C radiation can damage microbial DNA without unduly harming host DNA.

Pubmed Data : Curr Pharm Des. 2015 ;21(16):2109-21. PMID: 25760339

Article Published Date : Dec 31, 2014

Authors : Tanupriya Agrawal, Pinar Avci, Gaurav K Gupta, Ardeshir Rineh, Shanmugamurthy Lakshmanan, Vincent Batwala, George P Tegos, Michael R Hamblin

Study Type : In Vitro Study
Additional Links
Diseases : Staphylococcal Infections : CK(30) : AC(18) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Therapeutic Actions : Light Therapy : CK(102) : AC(19) , Photodynamic therapy : CK(21) : AC(3)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Light-Emitting Diodes (LEDs) Therapy (AC 1) (CK 1)

This concludes that both 405-nm laser and 405-nm LED's on MRSA had similar antimicrobial effects.

Pubmed Data : Lasers Med Sci. 2015 Sep 11. Epub 2015 Sep 11. PMID: 26362142

Article Published Date : Sep 10, 2015

Authors : Daniela Santos Masson-Meyers, Violet Vakunseh Bumah, Gabriel Biener, Valerica Raicu, Chukuka Samuel Enwemeka

Study Type : In Vitro Study
Additional Links
Diseases : Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Therapeutic Actions : Laser Treatment: Low-Level : CK(39) : AC(9) , Light-Emitting Diodes (LEDs) Therapy : CK(14) : AC(3)
Pharmacological Actions : Antimicrobial : CK(190) : AC(82)

Maggot therapy (AC 1) (CK 1)

Maggot therapy seems to be an effective and environmentally friendly treatment of complicated necrotic wounds that are resistant to conventional treatment.

Pubmed Data : Tidsskr Nor Laegeforen. 2009 Sep 24;129(18):1864-7. PMID: 19844278

Article Published Date : Sep 24, 2009

Authors : Birgit Margrethe Falch, Louis de Weerd, Arnfinn Sundsfjord

Study Type : Review
Additional Links
Diseases : Gram-Negative Bacterial Infections : CK(33) : AC(9) , Gram-Positive Bacterial Infections : CK(19) : AC(12), MRSA : CK(199) : AC(65) , Wound Healing: Delayed : CK(40) : AC(20)
Therapeutic Actions : Maggot therapy : CK(41) : AC(5)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)
Additional Keywords : Antibiotic Resistance : CK(56) : AC(7)

Photodynamic therapy (AC 2) (CK 6)

5-Aminolevulinic acid mediated PDT on multi-antibiotic-resistant S. aureus and S. epidermidis from CRS patients was effective in vitro.

Pubmed Data : Zhonghua Er Bi Yan Hou Tou Jing Wai Ke Za Zhi. 2016 Mar 7 ;51(3):164-8. PMID: 27033568

Article Published Date : Mar 06, 2016

Authors : K Q Zhao, C Yang, G Q Ding, C H Liu, Y Ma, X Y Chen, Y Wu, C Q Zheng

Study Type : Human In Vitro
Additional Links
Diseases : Infection: Antibiotic Resistant : CK(350) : AC(112) , Rhinosinusitis : CK(85) : AC(9), Staphylococcus aureus infection : CK(103) : AC(40) , Staphylococcus epidermidis : CK(2) : AC(1)
Therapeutic Actions : Photodynamic therapy : CK(21) : AC(3)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Ultraviolet C radiation can damage microbial DNA without unduly harming host DNA.

Pubmed Data : Curr Pharm Des. 2015 ;21(16):2109-21. PMID: 25760339

Article Published Date : Dec 31, 2014

Authors : Tanupriya Agrawal, Pinar Avci, Gaurav K Gupta, Ardeshir Rineh, Shanmugamurthy Lakshmanan, Vincent Batwala, George P Tegos, Michael R Hamblin

Study Type : In Vitro Study
Additional Links
Diseases : Staphylococcal Infections : CK(30) : AC(18) , Staphylococcus aureus: Methicillin-resistant (MRSA) : CK(199) : AC(65)
Therapeutic Actions : Light Therapy : CK(102) : AC(19) , Photodynamic therapy : CK(21) : AC(3)
Pharmacological Actions : Anti-Bacterial Agents : CK(1353) : AC(462)

Category : Problematic Actions

Genetically Modified Organisms (AC 1) (CK 1)

Review: potential adverse health effects of genetically modified crops.

Pubmed Data : J Toxicol Environ Health B Crit Rev. 2003 May-Jun;6(3):211-25. PMID: 12746139

Article Published Date : May 01, 2003

Authors : Anita Bakshi

Study Type : Review
Additional Links
Diseases : Infection: Antibiotic Resistant : CK(401) : AC(141)
Additional Keywords : Horizontal Gene Transfer : CK(17) : AC(8)
Anti Therapeutic Actions : Genetically Modified Organisms : CK(83) : AC(58)

Intrapartum Antibiotics: Group B Streptococcus (AC 1) (CK 3)

Clindamycin-resistant group B Streptococcus and failure of intrapartum prophylaxis to prevent early-onset disease has been reported.

Pubmed Data : J Pediatr. 2010 Mar;156(3):501-3. Epub 2010 Jan 13. PMID: 20056242

Article Published Date : Mar 01, 2010

Authors : Anne J Blaschke, Laurie S Pulver, E Kent Korgenski, Lucy A Savitz, Judy A Daly, Carrie L Byington

Study Type : Human: Case Report
Additional Links
Diseases : Infant Infections : CK(410) : AC(44) , Infection: Antibiotic Resistant : CK(350) : AC(112) , Neonatal group B streptococcal (GBS) infections : CK(309) : AC(22)
Anti Therapeutic Actions : Intrapartum Antibiotics: Group B Streptococcus : CK(169) : AC(12)

This document is for information purposes only. By providing the information contained herein we are not diagnosing, treating, curing, mitigating, or preventing any type of disease or medical condition. Before beginning any type of natural, integrative or conventional treatment regimen, it is advisable to seek the advice of a licensed healthcare professional.

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