

Topic: [Aging Skin](#)





Related Disease - [Skin Diseases: Photo-Aging](#)

Article Count - 68

02/23/2012

What is Cumulative Knowledge, and Why Should it Interest Me?

Cumulative Knowledge is determined by ascribing a numerical value to all the articles indexed on our database. The [GreenMedInfo.com](#) algorithm appraises a study's overall evidentiary power and quality by generating a numerical value. This "Cumulative Knowledge" score incorporates variables such as study type, with the following types listed in descending order by their power: Meta-Analysis, Human Study, Human: Case Study, Animal:Transgenic, Animal, In Vitro, Review, and Commentary. The cumulative total will provide you an idea about the depth and quality of information that this topic has accumulated on our site. For instance, if you downloaded a document on "**Cancers: All**", you might see "**Curcumin**" with a **Cumulative Knowledge** of **677** and **Resveratrol** with a **Cumulative Knowledge** of **175**. This does not mean that **Curcumin** is better, but just that we have gathered more quality research on the Substance **Curcumin**. [Click here to read a more in depth explanation](#)

How are Topics and Articles Sorted in this PDF?

Articles in this document are placed within their respective **Topic** category. If you download a document on the Disease "**Cancers: All**" and are interested in all articles pertaining to the Substance "**Curcumin**" with regard to "**Cancers: All**", you will find them under the "**Curcumin**" sub-section underneath the **Cumulative Knowledge** section. **Topics** are sorted based on their **Cumulative Knowledge** in relation to the main topic of the download. In the previous example, it would be in relation to "**Cancers: All**". Articles are then sorted based on the articles **Published Date**. **Articles** are sorted in a descending fashion, which means that the most recent articles are displayed first. **Articles** may appear more than once in this document. For each **Topic** that an **Article** contains, it will be displayed in that sub-section. For example, if an **Article** contains the **Substances** "**Pterostilbene**" and "**Resveratrol**", the article will be displayed under each **Topic**.

Quick Summary: 68 Substances

Name	Cumulative Knowledge	Article Count
Soy	43	7
Zinc	23	4
Vitamin E	22	4
Vitamin C	21	3
Alpha-Lipoic Acid	20	2
Blueberry	20	2
Fish extract	20	2
Horse Chestnut	20	2
Flaxseed	12	2
Cork Extract	11	2
Date Kernel Extract	11	2
Genistein	11	2
Grape Seed Extract	11	2
Green Tea	11	2
Peony	11	2

Rose	11	2
Tomato	11	2
Vegetables: All	11	2
White Tea	11	2
Amino Acids	10	1
Beta-glucan	10	1
Catechin	10	1
Chamomile	10	1
Cocoa	10	1
Corni Fructus	10	1
Echinacea	10	1
Ginseng	10	1
Glycosaminoglycans	10	1
Isoflavones	10	1
Multivitamin	10	1
Pine Bark Extract	10	1
Pycnogenol	10	1
Selenium	10	1
Silica: Orthosilicic acid	10	1
Torilus Fructus	10	1
Unspecified Species	10	1
X-xyloside	10	1
Myricetin	3	2
Sulforaphane	3	2
Amla Fruit	2	1
Boswellia	2	1
Broccoli	2	1
Creatine	2	1
Curcumin	2	1
Ghee	2	1
Melatonin	2	1
Phyllanthus emblica	2	1
Polyphenols	2	2
Resveratrol	2	2
Shorea robusta	2	1
Sprouts	2	1
Antioxidant formulas	1	1
Astragalus	1	1
Black Poplar	1	1
Blackberry	1	1
Dill	1	1
Fermented Foods and Beverages	1	1
Flavonoids	1	1
Fruit: All	1	1
Kudzu	1	1
NAC (N-acetyl-L-cysteine)	1	1
Natto	1	1
Pomegranate	1	1
Tea	1	1
Terminalia	1	1
Terminalia Chebula Gall Extract	1	1
Vitamin D	1	1
Burdock	0	1

Article Count - 3

Quick Summary: 3 Problem Substances

Name

Cumulative Knowledge

Article Count

Tobacco: Smoking	10	1
Corticosteroid	3	1
Prednisone	3	1

Article Count - 4

Quick Summary: 4 Therapeutic Actions

Name	Cumulative Knowledge	Article Count
Light-Emitting Diodes (LEDs) Therapy	11	2
Light Therapy	1	1
Light Therapy: Colored	1	1
Light Therapy: Red Colored	1	1

Category: Substances

Topic: Soy

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women.](#) - GMI Summary

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile](#) : CK(106) : AC(19), [Fish extract](#) : CK(32) : AC(4), [Grape Seed Extract](#) : CK(172) : AC(58), [Soy](#) : CK(1697) : AC(340), [Tomato](#) : CK(247) : AC(38), [Vitamin C](#) : CK(1203) : AC(238), [Vitamin E](#) : CK(1278) : AC(226), [White Tea](#) : CK(17) : AC(6), [Zinc](#) : CK(849) : AC(126)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Postmenopausal Disorders](#) : CK(283) : AC(35)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Human Study

Additional Links

Substances : [Cork Extract](#) : CK(11) : AC(2), [Date Kernel Extract](#) : CK(11) : AC(2), [Peony](#) : CK(54) : AC(12), [Rose](#) : CK(106) : AC(25), [Soy](#) : CK(1697) : AC(340)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

[Oral intake of soy isoflavone aglycone improves the aged skin of adult women.](#) - GMI Summary

Pubmed Data : J Nutr Sci Vitaminol (Tokyo). 2007 Feb;53(1):57-62. PMID: [17484381](#)

Article Published Date : Feb 01, 2007

Authors : Toru Izumi, Makoto Saito, Akio Obata, Masayuki Arie, Hideyo Yamaguchi, Asahi Matsuyama

Study Type : Human Study

Additional Links

Substances : [Beta-glucan](#) : CK(223) : AC(41), [Isoflavones](#) : CK(621) : AC(122), [Soy](#) : CK(1697) : AC(340)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

[Soy extract appears to rejuvenate the structure of mature skin.](#) - GMI Summary

Pubmed Data : J Pediatr Gastroenterol Nutr. 2004 Nov;39(5):487-92. PMID: [15623355](#)

Article Published Date : Nov 01, 2004

Authors : Kirstin M Südel, Kirsten Venzke, Heiko Mielke, Ute Breitenbach, Claudia Mundt, Sören Jaspers, Urte Koop, Kirsten Sauermann, Elke Knussman-Hartig, Ingrid Moll, Günther Gercken, Anthony R Young, Franz Stäb, Horst Wenck, Stefan Gallinat

Study Type : Human Study

Additional Links

Substances : [Genistein : CK\(456\) : AC\(176\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

[A fermented soybean \(natto\) and astragalus combination stimulates hyaluronic acid synthesis in human skin cells.](#) - GMI Summary

Pubmed Data : J Ethnopharmacol. 2009 Jul 17. PMID: [19619633](#)

Article Published Date : Jul 17, 2009

Authors : Mei-Fang Hsu, Been-Huang Chiang

Study Type : In Vitro Study

Additional Links

Substances : [Astragalus : CK\(284\) : AC\(57\)](#), [Fermented Foods and Beverages : CK\(656\) : AC\(130\)](#), [Natto : CK\(121\) : AC\(21\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Review

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[Skin aging can be decelerated with a nutrient complex containing soy, tomato, grape seed, and white tea extracts, and sodium ascorbate \(vitamin C\), tocopherol acetate \(vitamin E\), zinc, and Biomarine complex.](#) - GMI Summary

Pubmed Data : Gastroenterol Hepatol. 1997 Apr;20(4):172-4. PMID: [17028931](#)

Article Published Date : Apr 01, 1997

Authors : Sophie Lacroix, Charbel Bouez, Sandrine Vidal, Valérie Cenizo, Corinne Reymermier, Virginie Justin, Jana Vicanová, Odile Damour

Study Type : In Vitro Study

Additional Links

Substances : [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: Zinc

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women.](#) - GMI Summary

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile : CK\(106\) : AC\(19\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Grape Seed Extract : CK\(172\) :](#)

[AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol improves visible signs of ageing in women 45-73 years of age.](#) - GMI Summary

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

Article Published Date : Jul 01, 2004

Authors : D Segger, F Schönlau

Study Type : Human Study

Additional Links

Substances : [Amino Acids : CK\(100\) : AC\(16\)](#), [Blueberry : CK\(95\) : AC\(31\)](#), [Glycosaminoglycans : CK\(12\) : AC\(2\)](#), [Pycnogenol : CK\(500\) : AC\(65\)](#), [Selenium : CK\(573\) : AC\(93\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

[A traditional Indian medical formula containing clarified butter \(ghee\), flax seed oil, amla \(P. emblica fruits\), Shorea robusta resin and zinc \(Yashada bhasma\) stimulates wound healing and tissue regeneration.](#) - GMI Summary

Pubmed Data : Evid Based Complement Alternat Med. 2009 Feb 27. PMID: [19252191](#)

Article Published Date : Feb 27, 2009

Authors : Hema Sharma Datta, Shankar Kumar Mitra, Bhushan Patwardhan

Study Type : Animal Study

Additional Links

Substances : [Amla Fruit : CK\(59\) : AC\(28\)](#), [Flaxseed : CK\(235\) : AC\(54\)](#), [Ghee : CK\(24\) : AC\(4\)](#), [Shorea robusta : CK\(2\) : AC\(1\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Wound Healing: Delayed : CK\(38\) : AC\(19\)](#)

Additional Keywords : [Ayurvedic Formulas : CK\(2\) : AC\(1\)](#), [Regenerative Substances : CK\(35\) : AC\(15\)](#)

[Skin aging can be decelerated with a nutrient complex containing soy, tomato, grape seed, and white tea extracts, and sodium ascorbate \(vitamin C\), tocopherol acetate \(vitamin E\), zinc, and Biomarine complex.](#) - GMI Summary

Pubmed Data : Gastroenterol Hepatol. 1997 Apr;20(4):172-4. PMID: [17028931](#)

Article Published Date : Apr 01, 1997

Authors : Sophie Lacroix, Charbel Bouez, Sandrine Vidal, Valérie Cenizo, Corinne Reymermier, Virginie Justin, Jana Vicanová, Odile Damour

Study Type : In Vitro Study

Additional Links

Substances : [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Vitamin E](#)

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women.](#) - GMI Summary

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile : CK\(106\) : AC\(19\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Grape Seed Extract : CK\(172\) :](#)

[AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol improves visible signs of ageing in women 45-73 years of age.](#) - GMI Summary

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

Article Published Date : Jul 01, 2004

Authors : D Segger, F Schönlau

Study Type : Human Study

Additional Links

Substances : [Amino Acids : CK\(100\) : AC\(16\)](#), [Blueberry : CK\(95\) : AC\(31\)](#), [Glycosaminoglycans : CK\(12\) : AC\(2\)](#), [Pycnogenol : CK\(500\) : AC\(65\)](#), [Selenium : CK\(573\) : AC\(93\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

[Alpha-tocopherol prevents hydrogen peroxide-induced DNA damage and telomere shortening and upregulates telomerase activity in human skin cells.](#) - GMI Summary

Pubmed Data : Planta Med. 2010 Jun;76(9):869-75. Epub 2010 Jan 28. PMID: [20112180](#)

Article Published Date : Jun 01, 2010

Authors : Suzana Makpol, Azalina Zainuddin, Norhazira Abdul Rahim, Yasmin Anum Yusof, Wan Zurinah Ngah

Study Type : In Vitro Study

Additional Links

Substances : [Vitamin E : CK\(1278\) : AC\(226\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#), [DNA damage : CK\(687\) : AC\(287\)](#), [Oxidative Stress : CK\(1858\) : AC\(703\)](#)

Pharmacological Actions : [Telomerase Upregulation : CK\(75\) : AC\(24\)](#)

[Skin aging can be decelerated with a nutrient complex containing soy, tomato, grape seed, and white tea extracts, and sodium ascorbate \(vitamin C\), tocopherol acetate \(vitamin E\), zinc, and Biomarine complex.](#) - GMI Summary

Pubmed Data : Gastroenterol Hepatol. 1997 Apr;20(4):172-4. PMID: [17028931](#)

Article Published Date : Apr 01, 1997

Authors : Sophie Lacroix, Charbel Bouez, Sandrine Vidal, Valérie Cenizo, Corinne Reymermier, Virginie Justin, Jana Vicanová, Odile Damour

Study Type : In Vitro Study

Additional Links

Substances : [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Vitamin C](#)

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women.](#) - GMI Summary

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile](#) : CK(106) : AC(19), [Fish extract](#) : CK(32) : AC(4), [Grape Seed Extract](#) : CK(172) : AC(58), [Soy](#) : CK(1697) : AC(340), [Tomato](#) : CK(247) : AC(38), [Vitamin C](#) : CK(1203) : AC(238), [Vitamin E](#) : CK(1278) : AC(226), [White Tea](#) : CK(17) : AC(6), [Zinc](#) : CK(849) : AC(126)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Postmenopausal Disorders](#) : CK(283) : AC(35)

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol improves visible signs of ageing in women 45-73 years of age.](#) - GMI Summary

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

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Substances : [Amino Acids](#) : CK(100) : AC(16), [Blueberry](#) : CK(95) : AC(31), [Glycosaminoglycans](#) : CK(12) : AC(2), [Pycnogenol](#) : CK(500) : AC(65), [Selenium](#) : CK(573) : AC(93), [Vitamin C](#) : CK(1203) : AC(238), [Vitamin E](#) : CK(1278) : AC(226), [Zinc](#) : CK(849) : AC(126)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Skin Diseases](#) : CK(46) : AC(9)

[Skin aging can be decelerated with a nutrient complex containing soy, tomato, grape seed, and white tea extracts, and sodium ascorbate \(vitamin C\), tocopherol acetate \(vitamin E\), zinc, and Biomarine complex.](#) - GMI Summary

Pubmed Data : Gastroenterol Hepatol. 1997 Apr;20(4):172-4. PMID: [17028931](#)

Article Published Date : Apr 01, 1997

Authors : Sophie Lacroix, Charbel Bouez, Sandrine Vidal, Valérie Cenizo, Corinne Reymermier, Virginie Justin, Jana Vicanová, Odile Damour

Study Type : In Vitro Study

Additional Links

Substances : [Grape Seed Extract](#) : CK(172) : AC(58), [Soy](#) : CK(1697) : AC(340), [Tomato](#) : CK(247) : AC(38), [Vitamin C](#) : CK(1203) : AC(238), [Vitamin E](#) : CK(1278) : AC(226), [White Tea](#) : CK(17) : AC(6), [Zinc](#) : CK(849) : AC(126)

Diseases : [Aging](#) : CK(1302) : AC(360), [Aging Skin](#) : CK(346) : AC(50)

Topic: Alpha-Lipoic Acid

[A multi-nutrient mixture of marine proteins, alpha-lipoic acid, pine bark extract, vitamins and minerals is safe and efficacious in the treatment of aging symptoms of the skin in women.](#) - GMI Summary

Pubmed Data : J Int Med Res. 2005 May-Jun;33(3):267-72. PMID: [15938587](#)

Article Published Date : May 01, 2005

Authors : E Thom

Study Type : Human Study

Additional Links

Substances : [Alpha-Lipoic Acid](#) : CK(406) : AC(80), [Fish extract](#) : CK(32) : AC(4), [Multivitamin](#) : CK(243) : AC(22), [Pine Bark Extract](#) : CK(500) : AC(65)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

[A topical cream containing 5% alpha-lipoic acid improves clinical symptoms of photoageing of facial skin.](#) - GMI Summary

Pubmed Data : Br J Dermatol. 2003 Oct;149(4):841-9. PMID: [14616378](#)

Article Published Date : Oct 01, 2003

Authors : H Beitner

Study Type : Human Study

Additional Links

Substances : [Alpha-Lipoic Acid](#) : CK(406) : AC(80)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Skin Diseases: Photo-Aging](#) : CK(346) : AC(45)

Topic: Blueberry

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol improves visible signs of ageing in women 45-73 years of age. - GMI Summary](#)

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

Article Published Date : Jul 01, 2004

Authors : D Segger, F Schönlau

Study Type : Human Study

Additional Links

Substances : [Amino Acids : CK\(100\) : AC\(16\)](#), [Blueberry : CK\(95\) : AC\(31\)](#), [Glycosaminoglycans : CK\(12\) : AC\(2\)](#), [Pycnogenol : CK\(500\) : AC\(65\)](#), [Selenium : CK\(573\) : AC\(93\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

[A topical product containing C-xyloside and blueberry extract improves the appearance of type II diabetic skin. - GMI Summary](#)

Pubmed Data : J Cosmet Dermatol. 2009 Jun;8(2):147-51. PMID: [19527341](#)

Article Published Date : Jun 01, 2009

Authors : Zoe Diana Draelos, Margarita Yatskayer, Susana Raab, Christian Oresajo

Study Type : Human Study

Additional Links

Substances : [Blueberry : CK\(95\) : AC\(31\)](#), [X-xyloside : CK\(10\) : AC\(1\)](#)

Diseases : [Advanced Glycation End products \(AGE\) : CK\(2009\) : AC\(40\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#), [Diabetes: Skin : CK\(10\) : AC\(1\)](#), [Diabetes Mellitus: Type 2 : CK\(1911\) : AC\(315\)](#)

Pharmacological Actions : [Antioxidants : CK\(3530\) : AC\(1293\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: Fish extract

[A multi-nutrient mixture of marine proteins, alpha-lipoic acid, pine bark extract, vitamins and minerals is safe and efficacious in the treatment of aging symptoms of the skin in women. - GMI Summary](#)

Pubmed Data : J Int Med Res. 2005 May-Jun;33(3):267-72. PMID: [15938587](#)

Article Published Date : May 01, 2005

Authors : E Thom

Study Type : Human Study

Additional Links

Substances : [Alpha-Lipoic Acid : CK\(406\) : AC\(80\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Multivitamin : CK\(243\) : AC\(22\)](#), [Pine Bark Extract : CK\(500\) : AC\(65\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women. - GMI Summary](#)

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile : CK\(106\) : AC\(19\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

Topic: Horse Chestnut

Horse chestnut extract exhibits potent anti-aging properties in human skin. - GMI Summary

Pubmed Data : J Cosmet Sci. 2006 Sep-Oct;57(5):369-76. PMID: [17111071](#)

Article Published Date : Sep 01, 2006

Authors : Tsutomu Fujimura, Kazue Tsukahara, Shigeru Moriwaki, Mitsuyuki Hotta, Takashi Kitahara, Yoshinori Takema

Study Type : Human Study

Additional Links

Substances : [Horse Chestnut : CK\(42\) : AC\(6\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Horse chestnut extract has potent anti-aging activity in the skin of human subjects. - GMI Summary

Pubmed Data : Food Chem Toxicol. 2003 Jul;41(7):1045-50. PMID: [17111071](#)

Article Published Date : Jul 01, 2003

Authors : Tsutomu Fujimura, Kazue Tsukahara, Shigeru Moriwaki, Mitsuyuki Hotta, Takashi Kitahara, Yoshinori Takema

Study Type : Human Study

Additional Links

Substances : [Horse Chestnut : CK\(42\) : AC\(6\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: Flaxseed

Flaxseed oil diminishes skin sensitivity and improves skin barrier function and condition. - GMI Summary

Pubmed Data : Skin Pharmacol Physiol. 2010 Nov 18;24(2):67-74. Epub 2010 Nov 18. PMID: [21088453](#)

Article Published Date : Nov 18, 2010

Authors : K Neukam, S De Spirt, W Stahl, M Bejot, J-M Maurette, H Tronnier, U Heinrich

Study Type : Human Study

Additional Links

Substances : [Flaxseed : CK\(235\) : AC\(54\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Dry Skin : CK\(86\) : AC\(13\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

A traditional Indian medical formula containing clarified butter (ghee), flax seed oil, amla (P. emblica fruits), Shorea robusta resin and zinc (Yashada bhasma) stimulates wound healing and tissue regeneration. - GMI Summary

Pubmed Data : Evid Based Complement Alternat Med. 2009 Feb 27. PMID: [19252191](#)

Article Published Date : Feb 27, 2009

Authors : Hema Sharma Datta, Shankar Kumar Mitra, Bhushan Patwardhan

Study Type : Animal Study

Additional Links

Substances : [Amla Fruit : CK\(59\) : AC\(28\)](#), [Flaxseed : CK\(235\) : AC\(54\)](#), [Ghee : CK\(24\) : AC\(4\)](#), [Shorea robusta : CK\(2\) : AC\(1\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Wound Healing: Delayed : CK\(38\) : AC\(19\)](#)

Additional Keywords : [Ayurvedic Formulas : CK\(2\) : AC\(1\)](#), [Regenerative Substances : CK\(35\) : AC\(15\)](#)

Topic: Cork Extract

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Human Study

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Review

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Date Kernel Extract](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Human Study

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Review

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Genistein](#)

[Soy extract appears to rejuvenate the structure of mature skin.](#) - GMI Summary

Pubmed Data : J Pediatr Gastroenterol Nutr. 2004 Nov;39(5):487-92. PMID: [15623355](#)

Article Published Date : Nov 01, 2004

Authors : Kirstin M Südel, Kirsten Venzke, Heiko Mielke, Ute Breitenbach, Claudia Mundt, Sören Jaspers, Urte Koop, Kirsten Sauermann, Elke Knussman-Hartig, Ingrid Moll, Günther Gercken, Anthony R Young, Franz Stäb, Horst Wenck, Stefan Gallinat

Study Type : Human Study

Additional Links

Substances : [Genistein : CK\(456\) : AC\(176\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)
Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

[Genistein has photoprotective and anti-cancer activity in the skin. - GMI Summary](#)

Pubmed Data : J Nutr. 2003 Nov;133(11 Suppl 1):3811S-3819S. PMID: [14608119](#)

Article Published Date : Nov 01, 2003

Authors : Huachen Wei, Rao Saladi, Yuhun Lu, Yan Wang, Sapna R Palep, Julian Moore, Robert Phelps, Eileen Shyong, Mark G Lebowitz

Study Type : Commentary

Additional Links

Substances : [Genistein : CK\(456\) : AC\(176\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Cancer : CK\(438\) : AC\(174\)](#), [Skin Diseases: Photo-Aging : CK\(346\) : AC\(45\)](#)

Pharmacological Actions : [Anticarcinogenic Agents : CK\(494\) : AC\(265\)](#)

Topic: [Grape Seed Extract](#)

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women. - GMI Summary](#)

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile : CK\(106\) : AC\(19\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

[Skin aging can be decelerated with a nutrient complex containing soy, tomato, grape seed, and white tea extracts, and sodium ascorbate \(vitamin C\), tocopherol acetate \(vitamin E\), zinc, and Biomarine complex. - GMI Summary](#)

Pubmed Data : Gastroenterol Hepatol. 1997 Apr;20(4):172-4. PMID: [17028931](#)

Article Published Date : Apr 01, 1997

Authors : Sophie Lacroix, Charbel Bouez, Sandrine Vidal, Valérie Cenizo, Corinne Reymermier, Virginie Justin, Jana Vicanová, Odile Damour

Study Type : In Vitro Study

Additional Links

Substances : [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Green Tea](#)

[Green tea supplementation results in histological improvement in elastic tissue content in photo-aged skin. - GMI Summary](#)

Pubmed Data : Dermatol Surg. 2005 Jul;31(7 Pt 2):855-60; discussion 860. PMID: [16029678](#)

Article Published Date : Jul 01, 2005

Authors : Annie E Chiu, Joanna L Chan, Dale G Kern, Sabine Kohler, Wingfield E Rehmus, Alexa B Kimball

Study Type : Human Study

Additional Links

Substances : [Green Tea : CK\(931\) : AC\(279\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Dermatologic Agents : CK\(124\) : AC\(13\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

[Green tea and red light contribute to skin rejuvenation.](#) - GMI Summary

Pubmed Data : Photomed Laser Surg. 2009 Dec;27(6):969-71. PMID: [19817517](#)

Article Published Date : Dec 01, 2009

Authors : Andrei P Sommer, Dan Zhu

Study Type : In Vitro Study

Additional Links

Substances : [Green Tea : CK\(931\) : AC\(279\)](#), [Tea : CK\(951\) : AC\(226\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Therapeutic Actions : [Light Therapy : CK\(67\) : AC\(17\)](#), [Light Therapy: Colored : CK\(21\) : AC\(3\)](#), [Light Therapy: Red Colored : CK\(1\) : AC\(1\)](#)

Topic: [Peony](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Human Study

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Review

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Rose](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Human Study

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[A number of botanical extracts reduce skin wrinkling.](#) - GMI Summary

Pubmed Data : Drugs Aging. 2010 Dec 1;27(12):973-85. PMID: [21087067](#)

Article Published Date : Dec 01, 2010

Authors : Katherine J Hunt, Shao Kang Hung, Edzard Ernst

Study Type : Review

Additional Links

Substances : [Cork Extract : CK\(11\) : AC\(2\)](#), [Date Kernel Extract : CK\(11\) : AC\(2\)](#), [Peony : CK\(54\) : AC\(12\)](#), [Rose : CK\(106\) : AC\(25\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Tomato](#)

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women.](#) - GMI Summary

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile : CK\(106\) : AC\(19\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

[Skin aging can be decelerated with a nutrient complex containing soy, tomato, grape seed, and white tea extracts, and sodium ascorbate \(vitamin C\), tocopherol acetate \(vitamin E\), zinc, and Biomarine complex.](#) - GMI Summary

Pubmed Data : Gastroenterol Hepatol. 1997 Apr;20(4):172-4. PMID: [17028931](#)

Article Published Date : Apr 01, 1997

Authors : Sophie Lacroix, Charbel Bouez, Sandrine Vidal, Valérie Cenizo, Corinne Reymermier, Virginie Justin, Jana Vicanová, Odile Damour

Study Type : In Vitro Study

Additional Links

Substances : [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Vegetables: All](#)

[Association of dietary fat, vegetables and antioxidant micronutrients with skin ageing in Japanese women.](#) - GMI Summary

Pubmed Data : Br J Nutr. 2010 May;103(10):1493-8. Epub 2010 Jan 20. PMID: [20085665](#)

Article Published Date : May 01, 2010

Authors : Chisato Nagata, Kozue Nakamura, Keiko Wada, Shino Oba, Makoto Hayashi, Noriyuki Takeda, Keigo Yasuda

Study Type : Human Study

Additional Links

Substances : [Vegetables: All : CK\(589\) : AC\(70\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Antioxidants : CK\(3530\) : AC\(1293\)](#)

[Review: natural approaches to reduce skin aging.](#) - GMI Summary

Pubmed Data : Acta Dermatovenerol Alp Panonica Adriat. 2008 Jun;17(2):47-54. PMID: [18709289](#)

Article Published Date : Jun 01, 2008

Authors : Neira Puizina-Ivić

Study Type : Review

Additional Links

Substances : [Antioxidant formulas](#) : CK(477) : AC(72), [Fruit: All](#) : CK(1902) : AC(468), [Vegetables: All](#) : CK(589) : AC(70)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Topic: [White Tea](#)

[A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women.](#) - GMI Summary

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile](#) : CK(106) : AC(19), [Fish extract](#) : CK(32) : AC(4), [Grape Seed Extract](#) : CK(172) : AC(58), [Soy](#) : CK(1697) : AC(340), [Tomato](#) : CK(247) : AC(38), [Vitamin C](#) : CK(1203) : AC(238), [Vitamin E](#) : CK(1278) : AC(226), [White Tea](#) : CK(17) : AC(6), [Zinc](#) : CK(849) : AC(126)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Postmenopausal Disorders](#) : CK(283) : AC(35)

[Skin aging can be decelerated with a nutrient complex containing soy, tomato, grape seed, and white tea extracts, and sodium ascorbate \(vitamin C\), tocopherol acetate \(vitamin E\), zinc, and Biomarine complex.](#) - GMI Summary

Pubmed Data : Gastroenterol Hepatol. 1997 Apr;20(4):172-4. PMID: [17028931](#)

Article Published Date : Apr 01, 1997

Authors : Sophie Lacroix, Charbel Bouez, Sandrine Vidal, Valérie Cenizo, Corinne Reymermier, Virginie Justin, Jana Vicanová, Odile Damour

Study Type : In Vitro Study

Additional Links

Substances : [Grape Seed Extract](#) : CK(172) : AC(58), [Soy](#) : CK(1697) : AC(340), [Tomato](#) : CK(247) : AC(38), [Vitamin C](#) : CK(1203) : AC(238), [Vitamin E](#) : CK(1278) : AC(226), [White Tea](#) : CK(17) : AC(6), [Zinc](#) : CK(849) : AC(126)

Diseases : [Aging](#) : CK(1302) : AC(360), [Aging Skin](#) : CK(346) : AC(50)

Topic: [Amino Acids](#)

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol improves visible signs of ageing in women 45-73 years of age.](#) - GMI Summary

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

Article Published Date : Jul 01, 2004

Authors : D Segger, F Schönlau

Study Type : Human Study

Additional Links

Substances : [Amino Acids](#) : CK(100) : AC(16), [Blueberry](#) : CK(95) : AC(31), [Glycosaminoglycans](#) : CK(12) : AC(2), [Pycnogenol](#) : CK(500) : AC(65), [Selenium](#) : CK(573) : AC(93), [Vitamin C](#) : CK(1203) : AC(238), [Vitamin E](#) : CK(1278) : AC(226), [Zinc](#) : CK(849) : AC(126)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Skin Diseases](#) : CK(46) : AC(9)

Topic: [Beta-glucan](#)

Oral intake of soy isoflavone aglycone improves the aged skin of adult women. - GMI Summary

Pubmed Data : J Nutr Sci Vitaminol (Tokyo). 2007 Feb;53(1):57-62. PMID: [17484381](#)

Article Published Date : Feb 01, 2007

Authors : Toru Izumi, Makoto Saito, Akio Obata, Masayuki Arie, Hideyo Yamaguchi, Asahi Matsuyama

Study Type : Human Study

Additional Links

Substances : [Beta-glucan : CK\(223\) : AC\(41\)](#), [Isoflavones : CK\(621\) : AC\(122\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Catechin](#)

Long-term ingestion of high flavanol cocoa provides photoprotection against UV-induced erythema and improves skin condition in women. - GMI Summary

Pubmed Data : J Nutr. 2006 Jun;136(6):1565-9. PMID: [16702322](#)

Article Published Date : Jun 01, 2006

Authors : Ulrike Heinrich, Karin Neukam, Hagen Tronnier, Helmut Sies, Wilhelm Stahl

Study Type : Human Study

Additional Links

Substances : [Catechin : CK\(408\) : AC\(130\)](#), [Cocoa : CK\(472\) : AC\(43\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Dry Skin : CK\(86\) : AC\(13\)](#), [Skin Diseases: Photo-Aging : CK\(346\) : AC\(45\)](#)

Pharmacological Actions : [Radioprotective : CK\(453\) : AC\(180\)](#)

Topic: [Chamomile](#)

A multi-nutrient mixture of soy extract, fish protein polysaccharides, extracts from white tea, grape seed and tomato, vitamins C and E as well as zinc and chamomile extract improves signs of skin aging in post-menopausal women. - GMI Summary

Pubmed Data : Eur J Clin Nutr. 2006 Oct;60(10):1201-6. Epub 2006 May 3. PMID: [16670692](#)

Article Published Date : Oct 01, 2006

Authors : G R Lange Skovgaard, A S Jensen, M L Sigler

Study Type : Human Study

Additional Links

Substances : [Chamomile : CK\(106\) : AC\(19\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Grape Seed Extract : CK\(172\) : AC\(58\)](#), [Soy : CK\(1697\) : AC\(340\)](#), [Tomato : CK\(247\) : AC\(38\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [White Tea : CK\(17\) : AC\(6\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

Topic: [Cocoa](#)

Long-term ingestion of high flavanol cocoa provides photoprotection against UV-induced erythema and improves skin condition in women. - GMI Summary

Pubmed Data : J Nutr. 2006 Jun;136(6):1565-9. PMID: [16702322](#)

Article Published Date : Jun 01, 2006

Authors : Ulrike Heinrich, Karin Neukam, Hagen Tronnier, Helmut Sies, Wilhelm Stahl

Study Type : Human Study

Additional Links

Substances : [Catechin : CK\(408\) : AC\(130\)](#), [Cocoa : CK\(472\) : AC\(43\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Dry Skin : CK\(86\) : AC\(13\)](#), [Skin Diseases: Photo-Aging : CK\(346\) : AC\(45\)](#)

Pharmacological Actions : [Radioprotective : CK\(453\) : AC\(180\)](#)

Topic: Corni Fructus

[Red ginseng root extract mixed with Torilus fructus and Corni fructus improves facial wrinkles and increases type I procollagen synthesis in human skin.](#) - GMI Summary

Pubmed Data : J Med Food. 2009 Dec;12(6):1252-9. PMID: [20041778](#)

Article Published Date : Dec 01, 2009

Authors : Soyun Cho, Chong-Hyun Won, Dong Hun Lee, Min-Jung Lee, Serah Lee, Seung-Ho So, Seong-Kye Lee, Bon-Suk Koo, Na-Mi Kim, Jin Ho Chung

Study Type : Human Study

Additional Links

Substances : [Corni Fructus : CK\(10\) : AC\(1\)](#), [Ginseng : CK\(395\) : AC\(111\)](#), [Torilus Fructus : CK\(10\) : AC\(1\)](#), [Unspecified Species : CK\(11\) : AC\(2\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Matrix metalloproteinase-2 \(MMP-2\) inhibitor : CK\(141\) : AC\(68\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: Echinacea

[Echinacea improves skin in a dermatological application.](#) - GMI Summary

Pubmed Data : Int J Cosmet Sci. 2010 Apr 1. Epub 2010 Apr 1. PMID: [20384903](#)

Article Published Date : Apr 01, 2010

Authors : S Yotsawimonwat, J Rattanadechsakul, P Rattanadechsakul, S Okonogi

Study Type : Human Study

Additional Links

Substances : [Echinacea : CK\(469\) : AC\(90\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Dehydration : CK\(43\) : AC\(7\)](#), [Dry Skin : CK\(86\) : AC\(13\)](#)

Topic: Ginseng

[Red ginseng root extract mixed with Torilus fructus and Corni fructus improves facial wrinkles and increases type I procollagen synthesis in human skin.](#) - GMI Summary

Pubmed Data : J Med Food. 2009 Dec;12(6):1252-9. PMID: [20041778](#)

Article Published Date : Dec 01, 2009

Authors : Soyun Cho, Chong-Hyun Won, Dong Hun Lee, Min-Jung Lee, Serah Lee, Seung-Ho So, Seong-Kye Lee, Bon-Suk Koo, Na-Mi Kim, Jin Ho Chung

Study Type : Human Study

Additional Links

Substances : [Corni Fructus : CK\(10\) : AC\(1\)](#), [Ginseng : CK\(395\) : AC\(111\)](#), [Torilus Fructus : CK\(10\) : AC\(1\)](#), [Unspecified Species : CK\(11\) : AC\(2\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Matrix metalloproteinase-2 \(MMP-2\) inhibitor : CK\(141\) : AC\(68\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: Glycosaminoglycans

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol improves visible signs of ageing in women 45-73 years of age.](#) - GMI Summary

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

Article Published Date : Jul 01, 2004

Authors : D Segger, F Schönlau

Study Type : Human Study

Additional Links

Substances : [Amino Acids : CK\(100\) : AC\(16\)](#), [Blueberry : CK\(95\) : AC\(31\)](#), [Glycosaminoglycans : CK\(12\) : AC\(2\)](#), [Pycnogenol : CK\(500\) : AC\(65\)](#), [Selenium : CK\(573\) : AC\(93\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

Topic: [Isoflavones](#)

[Oral intake of soy isoflavone aglycone improves the aged skin of adult women. - GMI Summary](#)

Pubmed Data : J Nutr Sci Vitaminol (Tokyo). 2007 Feb;53(1):57-62. PMID: [17484381](#)

Article Published Date : Feb 01, 2007

Authors : Toru Izumi, Makoto Saito, Akio Obata, Masayuki Arii, Hideyo Yamaguchi, Asahi Matsuyama

Study Type : Human Study

Additional Links

Substances : [Beta-glucan : CK\(223\) : AC\(41\)](#), [Isoflavones : CK\(621\) : AC\(122\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Multivitamin](#)

[A multi-nutrient mixture of marine proteins, alpha-lipoic acid, pine bark extract, vitamins and minerals is safe and efficacious in the treatment of aging symptoms of the skin in women. - GMI Summary](#)

Pubmed Data : J Int Med Res. 2005 May-Jun;33(3):267-72. PMID: [15938587](#)

Article Published Date : May 01, 2005

Authors : E Thom

Study Type : Human Study

Additional Links

Substances : [Alpha-Lipoic Acid : CK\(406\) : AC\(80\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Multivitamin : CK\(243\) : AC\(22\)](#), [Pine Bark Extract : CK\(500\) : AC\(65\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Pine Bark Extract](#)

[A multi-nutrient mixture of marine proteins, alpha-lipoic acid, pine bark extract, vitamins and minerals is safe and efficacious in the treatment of aging symptoms of the skin in women. - GMI Summary](#)

Pubmed Data : J Int Med Res. 2005 May-Jun;33(3):267-72. PMID: [15938587](#)

Article Published Date : May 01, 2005

Authors : E Thom

Study Type : Human Study

Additional Links

Substances : [Alpha-Lipoic Acid : CK\(406\) : AC\(80\)](#), [Fish extract : CK\(32\) : AC\(4\)](#), [Multivitamin : CK\(243\) : AC\(22\)](#), [Pine Bark Extract : CK\(500\) : AC\(65\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Pycnogenol](#)

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol](#)

[improves visible signs of ageing in women 45-73 years of age.](#) - GMI Summary

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

Article Published Date : Jul 01, 2004

Authors : D Segger, F Schönlau

Study Type : Human Study

Additional Links

Substances : [Amino Acids : CK\(100\) : AC\(16\)](#), [Blueberry : CK\(95\) : AC\(31\)](#), [Glycosaminoglycans : CK\(12\) : AC\(2\)](#), [Pycnogenol : CK\(500\) : AC\(65\)](#), [Selenium : CK\(573\) : AC\(93\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

Topic: [Selenium](#)

[A multi-nutrient mixture of vitamin C, vitamin E, carotenoids, selenium, zinc, amino acids and glycosaminoglycans, blueberry extract and pycnogenol improves visible signs of ageing in women 45-73 years of age.](#) - GMI Summary

Pubmed Data : J Dermatolog Treat. 2004 Jul;15(4):222-6. PMID: [15764035](#)

Article Published Date : Jul 01, 2004

Authors : D Segger, F Schönlau

Study Type : Human Study

Additional Links

Substances : [Amino Acids : CK\(100\) : AC\(16\)](#), [Blueberry : CK\(95\) : AC\(31\)](#), [Glycosaminoglycans : CK\(12\) : AC\(2\)](#), [Pycnogenol : CK\(500\) : AC\(65\)](#), [Selenium : CK\(573\) : AC\(93\)](#), [Vitamin C : CK\(1203\) : AC\(238\)](#), [Vitamin E : CK\(1278\) : AC\(226\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

Topic: [Silica: Orthosilicic acid](#)

[Choline-stabilized orthosilicic acid has a positive effect on skin surface and skin mechanical properties, and on brittleness of hair and nails.](#) - GMI Summary

Pubmed Data : Arch Dermatol Res. 2005 Oct;297(4):147-53. Epub 2005 Oct 26. PMID: [16205932](#)

Article Published Date : Oct 01, 2005

Authors : A Barel, M Calomme, A Timchenko, K De Paepe, K De Paepe, N Demeester, V Rogiers, P Clarys, D Vanden Berghe

Study Type : Human Study

Additional Links

Substances : [Silica: Orthosilicic acid : CK\(40\) : AC\(4\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Hair Quality Problems : CK\(31\) : AC\(4\)](#), [Nail Diseases : CK\(20\) : AC\(2\)](#)

Topic: [Torilus Fructus](#)

[Red ginseng root extract mixed with Torilus fructus and Corni fructus improves facial wrinkles and increases type I procollagen synthesis in human skin.](#) - GMI Summary

Pubmed Data : J Med Food. 2009 Dec;12(6):1252-9. PMID: [20041778](#)

Article Published Date : Dec 01, 2009

Authors : Soyun Cho, Chong-Hyun Won, Dong Hun Lee, Min-Jung Lee, Serah Lee, Seung-Ho So, Seong-Kye Lee, Bon-Suk Koo, Na-Mi Kim, Jin Ho Chung

Study Type : Human Study

Additional Links

Substances : [Corni Fructus : CK\(10\) : AC\(1\)](#), [Ginseng : CK\(395\) : AC\(111\)](#), [Torilus Fructus : CK\(10\) : AC\(1\)](#), [Unspecified Species : CK\(11\) : AC\(2\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Matrix metalloproteinase-2 \(MMP-2\) inhibitor : CK\(141\) : AC\(68\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: [Unspecified Species](#)

[Red ginseng root extract mixed with Torilus fructus and Corni fructus improves facial wrinkles and increases type I procollagen synthesis in human skin.](#) - GMI Summary

Pubmed Data : J Med Food. 2009 Dec;12(6):1252-9. PMID: [20041778](#)

Article Published Date : Dec 01, 2009

Authors : Soyun Cho, Chong-Hyun Won, Dong Hun Lee, Min-Jung Lee, Serah Lee, Seung-Ho So, Seong-Kye Lee, Bon-Suk Koo, Na-Mi Kim, Jin Ho Chung

Study Type : Human Study

Additional Links

Substances : [Corni Fructus : CK\(10\) : AC\(1\)](#), [Ginseng : CK\(395\) : AC\(111\)](#), [Torilus Fructus : CK\(10\) : AC\(1\)](#), [Unspecified Species : CK\(11\) : AC\(2\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Matrix metalloproteinase-2 \(MMP-2\) inhibitor : CK\(141\) : AC\(68\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: [X-xyloside](#)

[A topical product containing C-xyloside and blueberry extract improves the appearance of type II diabetic skin.](#) - GMI Summary

Pubmed Data : J Cosmet Dermatol. 2009 Jun;8(2):147-51. PMID: [19527341](#)

Article Published Date : Jun 01, 2009

Authors : Zoe Diana Draelos, Margarita Yatskayer, Susana Raab, Christian Oresajo

Study Type : Human Study

Additional Links

Substances : [Blueberry : CK\(95\) : AC\(31\)](#), [X-xyloside : CK\(10\) : AC\(1\)](#)

Diseases : [Advanced Glycation End products \(AGE\) : CK\(2009\) : AC\(40\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#), [Diabetes: Skin : CK\(10\) : AC\(1\)](#), [Diabetes Mellitus: Type 2 : CK\(1911\) : AC\(315\)](#)

Pharmacological Actions : [Antioxidants : CK\(3530\) : AC\(1293\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: [Myricetin](#)

[Myricetin suppresses UVB-induced wrinkle formation.](#) - GMI Summary

Pubmed Data : Phytother Res. 2008 Mar;22(3):323-9. PMID: [20093107](#)

Article Published Date : Mar 01, 2008

Authors : Sung Keun Jung, Ki Won Lee, Ho Young Kim, Mi Hyun Oh, Sanguine Byun, Sung Hwan Lim, Yong-Seok Heo, Nam Joo Kang, Ann M Bode, Zigang Dong, Hyong Joo Lee

Study Type : Animal Study

Additional Links

Substances : [Myricetin : CK\(7\) : AC\(6\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases: Photo-Aging : CK\(346\) : AC\(45\)](#)

[Myricetin protects against ultraviolet-B-induced damage in human skin cells.](#) - GMI Summary

Pubmed Data : Toxicol In Vitro. 2010 Feb;24(1):21-8. Epub 2009 Sep 22. PMID: [19778600](#)

Article Published Date : Feb 01, 2010

Authors : Jheng-Hua Huang, Chieh-Chen Huang, Jia-You Fang, Cheng Yang, Chi-Ming Chan, Nan-Lin Wu, Shung-Wen Kang, Chi-Feng Hung

Study Type : In Vitro Study

Additional Links

Substances : [Myricetin : CK\(7\) : AC\(6\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases: Photo-Aging : CK\(346\) : AC\(45\)](#)

Topic: [Sulforaphane](#)

[Broccoli sprouts contain compounds which protect the skin against damage by UV radiation.](#) - GMI Summary

Pubmed Data : Proc Natl Acad Sci U S A. 2007 Oct 30;104(44):17500-5. Epub 2007 Oct 23. PMID: [17956979](#)

Article Published Date : Oct 30, 2007

Authors : Paul Talalay, Jed W Fahey, Zachary R Healy, Scott L Wehage, Andrea L Benedict, Christine Min, Alben T Dinkova-Kostova

Study Type : Animal Study

Additional Links

Substances : [Broccoli : CK\(435\) : AC\(185\)](#), [Sprouts : CK\(76\) : AC\(36\)](#), [Sulforaphane : CK\(294\) : AC\(168\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

[Sulforaphane treatment may present a strategy for enhancing the cellular defense mechanisms in skin.](#) - GMI Summary

Pubmed Data : Exp Dermatol. 2010 Feb;19(2):137-44. Epub 2009 Jun 23. PMID: [19558496](#)

Article Published Date : Feb 01, 2010

Authors : Anika E Wagner, Insa Ernst, Renato Iori, Christine Desel, Gerald Rimbach

Study Type : In Vitro Study

Additional Links

Substances : [Sulforaphane : CK\(294\) : AC\(168\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Glutathione Deficiency : CK\(63\) : AC\(14\)](#), [Skin Diseases : CK\(46\) : AC\(9\)](#)

Pharmacological Actions : [Anticarcinogenic Agents : CK\(494\) : AC\(265\)](#), [Glutathione Upregulation : CK\(152\) : AC\(47\)](#), [NF-kappaB Inhibitor : CK\(596\) : AC\(403\)](#)

Topic: [Amla Fruit](#)

[A traditional Indian medical formula containing clarified butter \(ghee\), flax seed oil, amla \(P. emblica fruits\), Shorea robusta resin and zinc \(Yashada bhasma\) stimulates wound healing and tissue regeneration.](#) - GMI Summary

Pubmed Data : Evid Based Complement Alternat Med. 2009 Feb 27. PMID: [19252191](#)

Article Published Date : Feb 27, 2009

Authors : Hema Sharma Datta, Shankar Kumar Mitra, Bhushan Patwardhan

Study Type : Animal Study

Additional Links

Substances : [Amla Fruit : CK\(59\) : AC\(28\)](#), [Flaxseed : CK\(235\) : AC\(54\)](#), [Ghee : CK\(24\) : AC\(4\)](#), [Shorea robusta : CK\(2\) : AC\(1\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Wound Healing: Delayed : CK\(38\) : AC\(19\)](#)

Additional Keywords : [Ayurvedic Formulas : CK\(2\) : AC\(1\)](#), [Regenerative Substances : CK\(35\) : AC\(15\)](#)

Topic: [Boswellia](#)

[Topical application of Boswellia reduces photo-aging of the skin.](#) - GMI Summary

Pubmed Data : Planta Med. 2009 Nov 16. Epub 2009 Nov 16. PMID: [19918712](#)

Article Published Date : Nov 16, 2009

Authors : Alessandra Pedretti, Rossana Capezzer, Cristina Zane, Elena Facchinetti, Piergiacomo Calzavara-Pinton

Study Type : Animal Study

Additional Links

Substances : [Boswellia](#) : CK(122) : AC(30)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Skin Diseases: Photo-Aging](#) : CK(346) : AC(45)

Topic: [Broccoli](#)

[Broccoli sprouts contain compounds which protect the skin against damage by UV radiation.](#) - GMI Summary

Pubmed Data : Proc Natl Acad Sci U S A. 2007 Oct 30;104(44):17500-5. Epub 2007 Oct 23. PMID: [17956979](#)

Article Published Date : Oct 30, 2007

Authors : Paul Talalay, Jed W Fahey, Zachary R Healy, Scott L Wehage, Andrea L Benedict, Christine Min, Alben T Dinkova-Kostova

Study Type : Animal Study

Additional Links

Substances : [Broccoli](#) : CK(435) : AC(185), [Sprouts](#) : CK(76) : AC(36), [Sulforaphane](#) : CK(294) : AC(168)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Topic: [Creatine](#)

[Folic acid and creatine significantly accelerates epidermal skin regeneration in vitro and in vivo.](#) - GMI Summary

Pubmed Data : J Neuroimmunol. 2009 Dec 10;217(1-2):28-37. Epub 2009 Sep 30. PMID: [18254806](#)

Article Published Date : Dec 10, 2009

Authors : Anja Knott, Urte Koop, Heiko Mielke, Katja Reuschlein, Nils Peters, Gesa-Meike Muhr, Holger Lenz, Ursula Wensorra, Sören Jaspers, Ludger Kolbe, Thomas Raschke, Franz Stäb, Horst Wenck, Stefan Gallinat

Study Type : Animal Study

Additional Links

Substances : [Creatine](#) : CK(134) : AC(26)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [DNA damage](#) : CK(687) : AC(287), [Skin Diseases: Photo-Aging](#) : CK(346) : AC(45), [Wound Healing](#) : CK(214) : AC(69)

Pharmacological Actions : [Dermatologic Agents](#) : CK(124) : AC(13)

Topic: [Curcumin](#)

[Topical curcumin attenuates photoaging in mice.](#) - GMI Summary

Pubmed Data : Rejuvenation Res. 2010 Apr 28. Epub 2010 Apr 28. PMID: [20426620](#)

Article Published Date : Apr 28, 2010

Authors : Rumjhum Agrawal, Indu Pal Kaur

Study Type : Animal Study

Additional Links

Substances : [Curcumin](#) : CK(2870) : AC(1475)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Skin Diseases: Photo-Aging](#) : CK(346) : AC(45), [Sunburn](#) : CK(29) : AC(16)

Topic: [Ghee](#)

[A traditional Indian medical formula containing clarified butter \(ghee\), flax seed oil, amla \(P. emblica fruits\), Shorea robusta resin and zinc \(Yashada](#)

[bhasma\) stimulates wound healing and tissue regeneration.](#) - GMI Summary

Pubmed Data : Evid Based Complement Alternat Med. 2009 Feb 27. PMID: [19252191](#)

Article Published Date : Feb 27, 2009

Authors : Hema Sharma Datta, Shankar Kumar Mitra, Bhushan Patwardhan

Study Type : Animal Study

Additional Links

Substances : [Amla Fruit : CK\(59\) : AC\(28\)](#), [Flaxseed : CK\(235\) : AC\(54\)](#), [Ghee : CK\(24\) : AC\(4\)](#), [Shorea robusta : CK\(2\) : AC\(1\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Wound Healing: Delayed : CK\(38\) : AC\(19\)](#)

Additional Keywords : [Ayurvedic Formulas : CK\(2\) : AC\(1\)](#), [Regenerative Substances : CK\(35\) : AC\(15\)](#)

Topic: Melatonin

[Melatonin has been demonstrated to be a highly efficient anti-aging factor which may reduce age-related skin changes.](#) - GMI Summary

Pubmed Data : J Pineal Res. 2005 Oct;39(3):231-7. PMID: [16150102](#)

Article Published Date : Oct 01, 2005

Authors : Mukaddes Eşrefoğlu, Muammer Seyhan, Mehmet Gül, Hakan Parlakpınar, Kadir Batçioğlu, Burçin Uyumlu

Study Type : Animal Study

Additional Links

Substances : [Melatonin : CK\(452\) : AC\(115\)](#)

Diseases : [Aging : CK\(1302\) : AC\(360\)](#), [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: Phyllanthus emblica

[Phyllanthus emblica has collagen-promoting and anti-collagenase activity, indicating its potential utility as an anti-aging ingredient.](#) - GMI Summary

Pubmed Data : J Cosmet Sci. 2009 Jul-Aug;60(4):395-403. PMID: [19691935](#)

Article Published Date : Jul 01, 2009

Authors : Pithi Chanvorachote, Varisa Pongrakhananon, Sudjit Luanpitpong, Boontarika Chanvorachote, Sumalee Wannachaiyasit, Ubonthip Nimmannit

Study Type : Animal Study

Additional Links

Substances : [Phyllanthus emblica : CK\(7\) : AC\(4\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Anti-collagenase : CK\(3\) : AC\(2\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: Polyphenols

[Plant polyphenols may be useful in skin diseases associated with solar UV radiation-induced inflammation, oxidative stress and DNA damage.](#) - GMI Summary

Pubmed Data : Arch Dermatol Res. 2009 Nov 7. PMID: [19898857](#)

Article Published Date : Nov 07, 2009

Authors : Joi A Nichols, Santosh K Katiyar

Study Type : Commentary

Additional Links

Substances : [Polyphenols : CK\(415\) : AC\(171\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Skin Diseases: Photo-Aging : CK\(346\) : AC\(45\)](#)

[Resveratrol, by acting on specific polyphenol binding sites in epidermis, may be](#)

[useful to prevent skin disorders associated with aging.](#) - GMI Summary

Pubmed Data : PLoS One. 2010;5(9):e12935. Epub 2010 Sep 23. PMID: [20886076](#)

Article Published Date : Jan 01, 2010

Authors : Stéphane Bastianetto, Yvan Dumont, Albert Duranton, Freya Vercauteren, Lionel Breton, Rémi Quirion

Study Type : In Vitro Study

Additional Links

Substances : [Flavonoids : CK\(887\) : AC\(289\)](#), [Polyphenols : CK\(415\) : AC\(171\)](#), [Resveratrol : CK\(963\) : AC\(597\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Apoptotic : CK\(1415\) : AC\(1087\)](#)

Additional Keywords : [Stilbenes : CK\(414\) : AC\(245\)](#)

Topic: [Resveratrol](#)

[Resveratrol and NAC may prevent age-associated decline in skin and/or connective tissue quality.](#) - GMI Summary

Pubmed Data : Minerva Ginecol. 2010 Jun;62(3):195-201. PMID: [20595944](#)

Article Published Date : Jun 01, 2010

Authors : S Giardina, A Michelotti, G Zavattini, S Finzi, C Ghisalberti, F Marzatico

Study Type : In Vitro Study

Additional Links

Substances : [NAC \(N-acetyl-L-cysteine\) : CK\(248\) : AC\(64\)](#), [Resveratrol : CK\(963\) : AC\(597\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

Pharmacological Actions : [Antiproliferative : CK\(952\) : AC\(711\)](#), [Enzyme Inhibitors : CK\(385\) : AC\(210\)](#)

Additional Keywords : [Stilbenes : CK\(414\) : AC\(245\)](#)

[Resveratrol, by acting on specific polyphenol binding sites in epidermis, may be useful to prevent skin disorders associated with aging.](#) - GMI Summary

Pubmed Data : PLoS One. 2010;5(9):e12935. Epub 2010 Sep 23. PMID: [20886076](#)

Article Published Date : Jan 01, 2010

Authors : Stéphane Bastianetto, Yvan Dumont, Albert Duranton, Freya Vercauteren, Lionel Breton, Rémi Quirion

Study Type : In Vitro Study

Additional Links

Substances : [Flavonoids : CK\(887\) : AC\(289\)](#), [Polyphenols : CK\(415\) : AC\(171\)](#), [Resveratrol : CK\(963\) : AC\(597\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Apoptotic : CK\(1415\) : AC\(1087\)](#)

Additional Keywords : [Stilbenes : CK\(414\) : AC\(245\)](#)

Topic: [Shorea robusta](#)

[A traditional Indian medical formula containing clarified butter \(ghee\), flax seed oil, amla \(P. emblica fruits\), Shorea robusta resin and zinc \(Yashada bhasma\) stimulates wound healing and tissue regeneration.](#) - GMI Summary

Pubmed Data : Evid Based Complement Alternat Med. 2009 Feb 27. PMID: [19252191](#)

Article Published Date : Feb 27, 2009

Authors : Hema Sharma Datta, Shankar Kumar Mitra, Bhushan Patwardhan

Study Type : Animal Study

Additional Links

Substances : [Amla Fruit : CK\(59\) : AC\(28\)](#), [Flaxseed : CK\(235\) : AC\(54\)](#), [Ghee : CK\(24\) : AC\(4\)](#), [Shorea robusta : CK\(2\) : AC\(1\)](#), [Zinc : CK\(849\) : AC\(126\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Wound Healing: Delayed : CK\(38\) : AC\(19\)](#)

Additional Keywords : [Ayurvedic Formulas : CK\(2\) : AC\(1\)](#), [Regenerative Substances : CK\(35\) : AC\(15\)](#)

Topic: Sprouts

Broccoli sprouts contain compounds which protect the skin against damage by UV radiation. - GMI Summary

Pubmed Data : Proc Natl Acad Sci U S A. 2007 Oct 30;104(44):17500-5. Epub 2007 Oct 23. PMID: [17956979](#)

Article Published Date : Oct 30, 2007

Authors : Paul Talalay, Jed W Fahey, Zachary R Healy, Scott L Wehage, Andrea L Benedict, Christine Min, Albena T Dinkova-Kostova

Study Type : Animal Study

Additional Links

Substances : [Broccoli](#) : CK(435) : AC(185), [Sprouts](#) : CK(76) : AC(36), [Sulforaphane](#) : CK(294) : AC(168)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Topic: Antioxidant formulas

Review: natural approaches to reduce skin aging. - GMI Summary

Pubmed Data : Acta Dermatovenerol Alp Panonica Adriat. 2008 Jun;17(2):47-54. PMID: [18709289](#)

Article Published Date : Jun 01, 2008

Authors : Neira Puizina-Ivić

Study Type : Review

Additional Links

Substances : [Antioxidant formulas](#) : CK(477) : AC(72), [Fruit: All](#) : CK(1902) : AC(468), [Vegetables: All](#) : CK(589) : AC(70)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Topic: Astragalus

A fermented soybean (natto) and astragalus combination stimulates hyaluronic acid synthesis in human skin cells. - GMI Summary

Pubmed Data : J Ethnopharmacol. 2009 Jul 17. PMID: [19619633](#)

Article Published Date : Jul 17, 2009

Authors : Mei-Fang Hsu, Been-Huang Chiang

Study Type : In Vitro Study

Additional Links

Substances : [Astragalus](#) : CK(284) : AC(57), [Fermented Foods and Beverages](#) : CK(656) : AC(130), [Natto](#) : CK(121) : AC(21), [Soy](#) : CK(1697) : AC(340)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Topic: Black Poplar

Black poplar has potential antioxidant antiaging properties. - GMI Summary

Pubmed Data : J Agric Food Chem. 2011 Mar 22. Epub 2011 Mar 22. PMID: [21425781](#)

Article Published Date : Mar 22, 2011

Authors : Stéphanie Dudonné, Pascal Poupard, Philippe Coutière, Marion Woillez, Tristan Richard, Jean-Michel Mérillon, Xavier Vitrac

Study Type : In Vitro Study

Additional Links

Substances : [Black Poplar](#) : CK(1) : AC(1)

Diseases : [Aging](#) : CK(1302) : AC(360), [Aging Skin](#) : CK(346) : AC(50)

Pharmacological Actions : [Antioxidants](#) : CK(3530) : AC(1293)

Topic: Blackberry

Blackberry leaf extract contains phytonutrients that prevent wrinkle formation. - GMI Summary

Pubmed Data : Int J Cosmet Sci. 2007 Oct;29(5):411. PMID: [18489379](#)

Article Published Date : Oct 01, 2007

Authors : [No authors listed]

Study Type : In Vitro Study

Additional Links

Substances : [Blackberry](#) : CK(787) : AC(24)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Pharmacological Actions : [Interleukin-1 alpha downregulation](#) : CK(34) : AC(12), [Matrix metalloproteinase-1 \(MMP-1\) inhibitor](#) : CK(17) : AC(7), [Matrix metalloproteinase-2 \(MMP-2\) inhibitor](#) : CK(141) : AC(68), [Matrix metalloproteinase-9 \(MMP-9\) inhibitor](#) : CK(45) : AC(25)

Topic: Dill

Dill extract may have application in promoting elastogenesis in aging skin. - GMI Summary

Pubmed Data : Exp Dermatol. 2006 Aug;15(8):574-81. PMID: [16842595](#)

Article Published Date : Aug 01, 2006

Authors : Valérie Cenizo, Valérie André, Corinne Reymermier, Pascal Sommer, Odile Damour, Eric Perrier

Study Type : In Vitro Study

Additional Links

Substances : [Dill](#) : CK(17) : AC(11)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Additional Keywords : [Plant Extracts](#) : CK(3297) : AC(1135)

Topic: Fermented Foods and Beverages

A fermented soybean (natto) and astragalus combination stimulates hyaluronic acid synthesis in human skin cells. - GMI Summary

Pubmed Data : J Ethnopharmacol. 2009 Jul 17. PMID: [19619633](#)

Article Published Date : Jul 17, 2009

Authors : Mei-Fang Hsu, Been-Huang Chiang

Study Type : In Vitro Study

Additional Links

Substances : [Astragalus](#) : CK(284) : AC(57), [Fermented Foods and Beverages](#) : CK(656) : AC(130), [Natto](#) : CK(121) : AC(21), [Soy](#) : CK(1697) : AC(340)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Topic: Flavonoids

Resveratrol, by acting on specific polyphenol binding sites in epidermis, may be useful to prevent skin disorders associated with aging. - GMI Summary

Pubmed Data : PLoS One. 2010;5(9):e12935. Epub 2010 Sep 23. PMID: [20886076](#)

Article Published Date : Jan 01, 2010

Authors : Stéphane Bastianetto, Yvan Dumont, Albert Duranton, Freya Vercauteren, Lionel Breton, Rémi Quirion

Study Type : In Vitro Study

Additional Links

Substances : [Flavonoids : CK\(887\) : AC\(289\)](#), [Polyphenols : CK\(415\) : AC\(171\)](#), [Resveratrol : CK\(963\) : AC\(597\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Apoptotic : CK\(1415\) : AC\(1087\)](#)

Additional Keywords : [Stilbenes : CK\(414\) : AC\(245\)](#)

Topic: [Fruit: All](#)

[Review: natural approaches to reduce skin aging. - GMI Summary](#)

Pubmed Data : Acta Dermatovenerol Alp Panonica Adriat. 2008 Jun;17(2):47-54. PMID: [18709289](#)

Article Published Date : Jun 01, 2008

Authors : Neira Puizina-Ivić

Study Type : Review

Additional Links

Substances : [Antioxidant formulas : CK\(477\) : AC\(72\)](#), [Fruit: All : CK\(1902\) : AC\(468\)](#), [Vegetables: All : CK\(589\) : AC\(70\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Kudzu](#)

[Kudzu \(P. Radix\) stimulates hyaluronic acid production in normal human epidermal keratinocytes, indicating its potential value as cosmetic ingredient in moisturizers and as an anti-aging agent. - GMI Summary](#)

Pubmed Data : Am J Chin Med. 2010;38(1):143-55. PMID: [20128051](#)

Article Published Date : Jan 01, 2010

Authors : Kuo-Ching Wen, Shiu-Pey Lin, Chung-Ping Yu, Hsiu-Mei Chiang

Study Type : In Vitro Study

Additional Links

Substances : [Kudzu : CK\(41\) : AC\(12\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Dry Skin : CK\(86\) : AC\(13\)](#)

Topic: [NAC \(N-acetyl-L-cysteine\)](#)

[Resveratrol and NAC may prevent age-associated decline in skin and/or connective tissue quality. - GMI Summary](#)

Pubmed Data : Minerva Ginecol. 2010 Jun;62(3):195-201. PMID: [20595944](#)

Article Published Date : Jun 01, 2010

Authors : S Giardina, A Michelotti, G Zavattini, S Finzi, C Ghisalberti, F Marzatico

Study Type : In Vitro Study

Additional Links

Substances : [NAC \(N-acetyl-L-cysteine\) : CK\(248\) : AC\(64\)](#), [Resveratrol : CK\(963\) : AC\(597\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Postmenopausal Disorders : CK\(283\) : AC\(35\)](#)

Pharmacological Actions : [Antiproliferative : CK\(952\) : AC\(711\)](#), [Enzyme Inhibitors : CK\(385\) : AC\(210\)](#)

Additional Keywords : [Stilbenes : CK\(414\) : AC\(245\)](#)

Topic: [Natto](#)

[A fermented soybean \(natto\) and astragalus combination stimulates hyaluronic acid synthesis in human skin cells. - GMI Summary](#)

Pubmed Data : J Ethnopharmacol. 2009 Jul 17. PMID: [19619633](#)

Article Published Date : Jul 17, 2009

Authors : Mei-Fang Hsu, Been-Huang Chiang

Study Type : In Vitro Study

Additional Links

Substances : [Astragalus : CK\(284\) : AC\(57\)](#), [Fermented Foods and Beverages : CK\(656\) : AC\(130\)](#), [Natto : CK\(121\) : AC\(21\)](#), [Soy : CK\(1697\) : AC\(340\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Pomegranate](#)

[Pomegranate polyphenol inhibits UVB-mediated oxidative stress and photoaging in keratinocytes \(skin cells\).](#) - GMI Summary

Pubmed Data : Photochem Photobiol. 2007 Jul-Aug;83(4):882-8. PMID: [17645659](#)

Article Published Date : Jul 01, 2007

Authors : Mohammad Abu Zaid, Farrukh Afaq, Deeba N Syed, Mark Dreher, Hasan Mukhtar

Study Type : In Vitro Study

Additional Links

Substances : [Pomegranate : CK\(120\) : AC\(56\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Topic: [Tea](#)

[Green tea and red light contribute to skin rejuvenation.](#) - GMI Summary

Pubmed Data : Photomed Laser Surg. 2009 Dec;27(6):969-71. PMID: [19817517](#)

Article Published Date : Dec 01, 2009

Authors : Andrei P Sommer, Dan Zhu

Study Type : In Vitro Study

Additional Links

Substances : [Green Tea : CK\(931\) : AC\(279\)](#), [Tea : CK\(951\) : AC\(226\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Therapeutic Actions : [Light Therapy : CK\(67\) : AC\(17\)](#), [Light Therapy: Colored : CK\(21\) : AC\(3\)](#), [Light Therapy: Red Colored : CK\(1\) : AC\(1\)](#)

Topic: [Terminalia](#)

[Terminalia chebula gall extract has anti-aging properties in human skin fibroblasts.](#) - GMI Summary

Pubmed Data : Pharm Biol. 2010 Apr;48(4):469-81. PMID: [20645728](#)

Article Published Date : Apr 01, 2010

Authors : Aranya Manosroi, Pensak Jantrawut, Toshihiro Akihisa, Worapaka Manosroi, Jiradej Manosroi

Study Type : In Vitro Study

Additional Links

Substances : [Terminalia : CK\(20\) : AC\(18\)](#), [Terminalia Chebula Gall Extract : CK\(1\) : AC\(1\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Pharmacological Actions : [Antioxidants : CK\(3530\) : AC\(1293\)](#), [Antiproliferative : CK\(952\) : AC\(711\)](#), [Matrix metalloproteinase-2 \(MMP-2\) inhibitor : CK\(141\) : AC\(68\)](#)

Additional Keywords : [Plant Extracts : CK\(3297\) : AC\(1135\)](#)

Topic: [Terminalia Chebula Gall Extract](#)

[Terminalia chebula gall extract has anti-aging properties in human skin fibroblasts.](#) - GMI Summary

Pubmed Data : Pharm Biol. 2010 Apr;48(4):469-81. PMID: [20645728](#)

Article Published Date : Apr 01, 2010

Authors : Aranya Manosroi, Pensak Jantrawut, Toshihiro Akihisa, Worapaka Manosroi, Jiradej Manosroi

Study Type : In Vitro Study

Additional Links

Substances : [Terminalia](#) : CK(20) : AC(18), [Terminalia Chebula Gall Extract](#) : CK(1) : AC(1)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Pharmacological Actions : [Antioxidants](#) : CK(3530) : AC(1293), [Antiproliferative](#) : CK(952) : AC(711), [Matrix metalloproteinase-2 \(MMP-2\) inhibitor](#) : CK(141) : AC(68)

Additional Keywords : [Plant Extracts](#) : CK(3297) : AC(1135)

Topic: [Vitamin D](#)

[Vitamin D3 inhibits ultraviolet-B-induced damage in human skin cells.](#) - GMI Summary

Pubmed Data : J Cell Biochem. 2003 Jul 1;89(4):663-73. PMID: [12858333](#)

Article Published Date : Jul 01, 2003

Authors : Petra De Haes, Marjan Garmyn, Hugo Degreef, Katleen Vantieghem, Roger Bouillon, Siegfried Segaert

Study Type : In Vitro Study

Additional Links

Substances : [Vitamin D](#) : CK(1493) : AC(220)

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Skin Diseases: Photo-Aging](#) : CK(346) : AC(45)

Pharmacological Actions : [Apoptotic](#) : CK(1415) : AC(1087), [Interleukin-6 Downregulation](#) : CK(486) : AC(133), [Tumor Necrosis Factor \(TNF\) Alpha Inhibitor](#) : CK(1001) : AC(348)

Topic: [Burdock](#)

[Topical application of Burdock \(Arctium lappa\) fruit extract improves the clinical signs of aging.](#) - GMI Summary

Pubmed Data : J Cosmet Dermatol. 2008 Dec;7(4):281-9. PMID: [19146605](#)

Article Published Date : Dec 01, 2008

Authors : Anja Knott, Katja Reuschlein, Heiko Mielke, Ursula Wensorra, Christopher Mummert, Urte Koop, Martina Kausch, Ludger Kolbe, Nils Peters, Franz Stäb, Horst Wenck, Stefan Gallinat

Additional Links

Substances : [Burdock](#) : CK(3) : AC(6)

Diseases : [Aging Skin](#) : CK(346) : AC(50)

Category: Toxic Ingredients

Topic: [Tobacco: Smoking](#)

[Smoking cessation improves skin quality.](#) - GMI Summary

Pubmed Data : Skinmed. 2010 Jan-Feb;8(1):23-9. PMID: [20839421](#)

Article Published Date : Jan 01, 2010

Authors : Riccarda Serri, Maria Concetta Romano, Adele Sparavigna

Study Type : Human Study

Additional Links

Diseases : [Aging Skin](#) : CK(346) : AC(50), [Nicotine/Tobacco Toxicity](#) : CK(151) : AC(22), [Wrinkles, Aging Skin](#) : CK(10) : AC(1)

Problem Substances : [Tobacco: Smoking](#) : CK(72) : AC(7)

Topic: [Corticosteroid](#)

[Spontaneous skin tearing during systemic corticosteroid treatment has been reported.](#) - GMI Summary

Pubmed Data : JAMA. 1980 Mar 28;243(12):1260-1. PMID: [7359683](#)

Article Published Date : Mar 28, 1980

Authors : N L Gottlieb, N S Penneys

Study Type : Human: Case Report

Additional Links

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Rheumatoid Arthritis : CK\(401\) : AC\(61\)](#), [Skin: Thinning : CK\(3\) : AC\(1\)](#)

Problem Substances : [Corticosteroid : CK\(146\) : AC\(15\)](#), [Prednisone : CK\(152\) : AC\(18\)](#)

Topic: [Prednisone](#)

[Spontaneous skin tearing during systemic corticosteroid treatment has been reported.](#) - GMI Summary

Pubmed Data : JAMA. 1980 Mar 28;243(12):1260-1. PMID: [7359683](#)

Article Published Date : Mar 28, 1980

Authors : N L Gottlieb, N S Penneys

Study Type : Human: Case Report

Additional Links

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#), [Rheumatoid Arthritis : CK\(401\) : AC\(61\)](#), [Skin: Thinning : CK\(3\) : AC\(1\)](#)

Problem Substances : [Corticosteroid : CK\(146\) : AC\(15\)](#), [Prednisone : CK\(152\) : AC\(18\)](#)

Category: Therapeutic Actions

Topic: [Light-Emitting Diodes \(LEDs\) Therapy](#)

[Light-emitting diodes \(LED\) therapy has a skin rejuvenating effect in human subjects.](#) - GMI Summary

Pubmed Data : J Photochem Photobiol B. 2007 Jul 27;88(1):51-67. Epub 2007 May 1. PMID: [17566756](#)

Article Published Date : Jul 27, 2007

Authors : Seung Yoon Lee, Ki-Ho Park, Jung-Woo Choi, Jung-Kyun Kwon, Doo Rak Lee, Mi Sun Shin, Jee Sung Lee, Chung Eui You, Mi Youn Park

Study Type : Human Study

Additional Links

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Therapeutic Actions : [Light-Emitting Diodes \(LEDs\) Therapy : CK\(14\) : AC\(3\)](#)

[Light-emitting diodes may have therapeutic value for skin as an anti-aging modality.](#) - GMI Summary

Pubmed Data : J Med Food. 2008 Jun;11(2):215-23. PMID: [17173579](#)

Article Published Date : Jun 01, 2008

Authors : Mario A Trelles

Study Type : Review

Additional Links

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Therapeutic Actions : [Light-Emitting Diodes \(LEDs\) Therapy : CK\(14\) : AC\(3\)](#)

Topic: [Light Therapy](#)

[Green tea and red light contribute to skin rejuvenation.](#) - GMI Summary

Pubmed Data : Photomed Laser Surg. 2009 Dec;27(6):969-71. PMID: [19817517](#)

Article Published Date : Dec 01, 2009

Authors : Andrei P Sommer, Dan Zhu

Study Type : In Vitro Study

Additional Links

Substances : [Green Tea : CK\(931\) : AC\(279\)](#), [Tea : CK\(951\) : AC\(226\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Therapeutic Actions : [Light Therapy : CK\(67\) : AC\(17\)](#), [Light Therapy: Colored : CK\(21\) : AC\(3\)](#), [Light Therapy: Red Colored : CK\(1\) : AC\(1\)](#)

Topic: [Light Therapy: Colored](#)

[Green tea and red light contribute to skin rejuvenation.](#) - GMI Summary

Pubmed Data : Photomed Laser Surg. 2009 Dec;27(6):969-71. PMID: [19817517](#)

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Substances : [Green Tea : CK\(931\) : AC\(279\)](#), [Tea : CK\(951\) : AC\(226\)](#)

Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Therapeutic Actions : [Light Therapy : CK\(67\) : AC\(17\)](#), [Light Therapy: Colored : CK\(21\) : AC\(3\)](#), [Light Therapy: Red Colored : CK\(1\) : AC\(1\)](#)

Topic: [Light Therapy: Red Colored](#)

[Green tea and red light contribute to skin rejuvenation.](#) - GMI Summary

Pubmed Data : Photomed Laser Surg. 2009 Dec;27(6):969-71. PMID: [19817517](#)

Article Published Date : Dec 01, 2009

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Diseases : [Aging Skin : CK\(346\) : AC\(50\)](#)

Therapeutic Actions : [Light Therapy : CK\(67\) : AC\(17\)](#), [Light Therapy: Colored : CK\(21\) : AC\(3\)](#), [Light Therapy: Red Colored : CK\(1\) : AC\(1\)](#)

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