

MANGOSTEEN FOUND TO KILL HUMAN BREAST CANCER CELLS – MORE ABOUT THE MANGOSTEEN FRUIT

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Mangosteen Kills Human Breast Cancer Cells – More About Mangosteen



New research has shown that the mangosteen fruit, found in all Vemma products, kills and protects against human breast cancer cells.

University of Chinese Academy of Sciences' (UCAS) College of Life Sciences researchers found that the pericarp of the mangosteen fruit contains a unique compound that triggers apoptosis (cell death) in breast cancer cells.

This is exciting news for Vemma, a company who has been using mangosteen in its products since it first began 9 years ago.


A followup to a previous study on mangosteen's effects in vitro, this latest research looked at the effects of a unique mangosteen xanthone on actual human breast cancer cells. The team from UCAS studied how alpha-mangostin affects fatty acid synthase, or FAS, a multi-enzyme protein that catalyzes the formation of long-chain fatty acids from various compounds. Over-expression of FAS is also commonly observed in conjunction with breast cancer occurrence.

Using a battery of tests, the researchers found that alpha-mangostin exhibits an inhibitory effect on the expression of FAS, in turn resulting in a decrease of intracellular fatty acid accumulation. Additionally, alpha-mangostin noticeably triggers apoptosis in human breast cancer cells, regulating the expression of other key proteins involved in apoptosis.


"Alpha-mangostin could effectively suppress FAS expression and inhibit

intracellular FAS activity, and result in decrease of intracellular fatty acid accumulation,” wrote the authors, as published in the journal *Molecular Cancer*. “[Alpha-mangostin] could also reduce cell viability, induce apoptosis in human breast cancer cells, increase in the levels of the PARP cleavage product, and attenuate the balance between anti-apoptotic and pro-apoptotic proteins of the Bcl-2 family.”

More Information about the Mangosteen Fruit



Why Mangosteen?



Mangosteen, “*Garcinia Mangostana*” is probably the most natural powerful antioxidant and natural anti-inflammatory. It is also found to assist the body with:

Anti-Tumor / Cancer	Anti- viral	Anti- ulcer	Anti- cataract
Cardio- Protective	Antibiotic	Anti- lipidemic	Anti- calculitic
Anti- Depressant	Anti- Parkinson`s	Anti- obesity	Anxiolytic
Hypoglycemic (Diabetes)	Anti- Alzheimer`s	Anti- diarrhea	Analgesic
Anti- allergenic	Anti- fatigue	Anti- osteoporosis	Hypotensive
Anti- arthritic	Anti- glaucoma	Anti- pyretic	Anti- periodontic
Anti- fungal	Anti- aging	Anti- vertigo	Anti- acid

(US National Library of Medicine “Pub Med” has got more than 130 different references for research done on Mangosteen)


Note: This statement has not been evaluated by the MCC or any other medical regulatory body. The product mentioned in this brochure is not intended to diagnose, treat, cure or prevent any disease, but for education only

Mangosteen is a nutritious fruit from South-eastern Asia high in:

- antioxidants
- xanthenes
- dietary fiber
- Vitamin C
- B-complex vitamins such as thiamin, niacin and folates
- Essential minerals such as copper, manganese, potassium and magnesium

BENEFITS OF MANGOSTEEN

Improve digestion/stomach, Improve mental awareness, Improve urinary tract, Improve oral hygiene, Prevent kidney stone, Improve skin health, Fight heart disease, Improve eye health, Fight free radicals, Fight Hypertension, Boost your energy, Lower cholesterol, Fight depression, Fight allergies, Fight diabetes, Ease asthma, and Lose weight

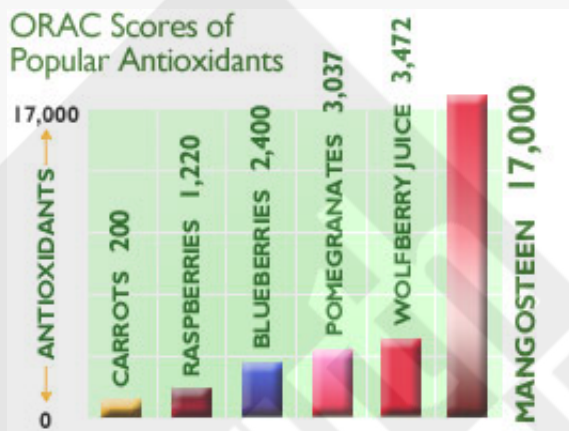


Xanthones are medicinal compounds found in mangosteen that are extremely beneficial for your health. They possess antiviral, anti-fungal and anti-inflammatory properties.

Mangosteen is **believed to be effective** in preventing a wide range of ailments and diseases including but not limited to:

- arthritis
- osteoporosis
- high blood pressure
- atherosclerosis
- kidney stones
- cataracts
- glaucoma
- Alzheimer's
- depression
- aging
- obesity
- skin diseases
- allergies
- ulcers
- diarrhea
- fevers
- pain
- & more

To obtain the maximal amount of nutrition, **it is recommended** that the whole **mangosteen fruit**, the rind and the pulp, are pureed together, which is exactly what Vemma does.



Mangosteen is also available in pill or capsule form, but this vehicle of delivery has a **very low absorption rate (3%-20%)** compared to that of the Vemma liquid multivitamin products (up to a **98% absorption rate!**).

More about the Vemma Formula

2.66 oranges to equal the amount of **Vitamin C**
9.6 avocados to equal the amount of **Vitamin E**
3.09 stalks of broccoli to equal the amount of **Iron**
55.55 eggs to equal the amount of **Vitamin D**
1.78 cups of spinach to equal the amount of **Vitamin A**
3.88 cups of peas to equal the amount of **Thiamin**
19.76 medium bananas to equal the amount of **Riboflavin**
62.5 oz. of cheddar cheese to equal the amount of **Vitamin B-12**
5.14 large potatoes to equal the amount of **Niacin**
61.54 cups of tomatoes to equal the amount of **Folate**
2.46 large watermelons to equal the amount of **Vitamin B-6**
17.89 oz. of cherries to equal the amount of **ORAC value**
37.17 medium mushrooms to equal the amount of **Pantothenic Acid**

...in just one daily two-ounce shot of Vemma.



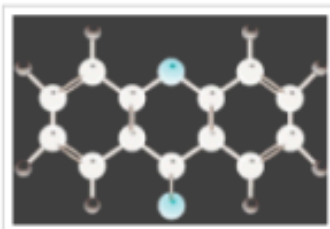
In addition to Mangosteen, the Vemma formula contains 12 full-spectrum Vitamins (A-E & more), 65 plant-sourced trace and ultra-trace minerals, Aloe Vera gel, and Organic Green Tea extract (also very high in antioxidants).

This comprehensive formula puts Vemma miles ahead of the competition in the health product market, allowing people to conveniently consume the most complete liquid multivitamin currently available in the world.

Vemma products are not only affordable, but taste incredible! Whether you're looking for health, energy, or weight loss products, you'll always get a serving of the mangosteen superfruit.

For more information about Vemma products, visit the [Get Healthy](#) page or [click here](#).

Science Behind the Fruit



Xanthones

Xanthones, which are unique to the mangosteen, as a class of phytonutrients are polyphenolic bioflavonoids. Over 60 research papers show antitumor, antiproliferative, antimicrobial, antihistamine, anti-inflammatory, antioxidant and gastrointestinal protective effects. [Find Out More »](#)



Proanthocyanidins

Proanthocyanidins present in the mangosteen as in grape seeds and skins and pine bark extract, have numerous qualities considered to be valuable in both the prevention of disease and the restoration of homeostasis (healthful balance) when disease is present. Hundreds of papers document the antitumor, antiproliferative, antimicrobial, antioxidant and neuroprotective effects of proanthocyanidins.



Catechins

Catechins are active ingredients in green tea as well as mangosteen. Hundreds of papers detailing the benefits of catechins exist. They document antitumor, antimicrobial, antioxidant, anti-inflammatory and neuroprotective effects.



Polysaccharides

Polysaccharides known to have beneficial health effects, are very plentiful in the mangosteen. Since the molecular footprint of the fruit has not yet been traced, we cannot, at this time, specify which polysaccharides are in the plant.



Sterols

Sterols are plant lipids or fats. The best known supplement in this class is omega 3 fatty acid. The sterols of the mangosteen are found in its seeds. For the moment, insufficient research exists to allow further scientific comment on the mangosteen sterols.



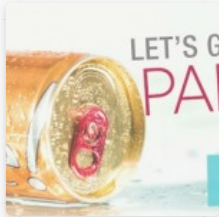
Fiber

Fiber while not strictly a phytonutrient, is nonetheless important in the maintenance of gastrointestinal health. In the whole mangosteen fruit significant amounts of fiber are obvious.

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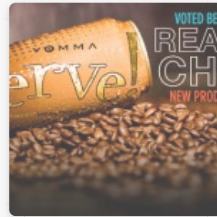
The Food Pyramid
– How Vemma's
Nutrition Products
Stack Up



Benefits of Green
Tea – Verve ParTea



Aloe Vera Health
Benefits – Digestive, Immune,
Detox, Liver,
Heart, and More



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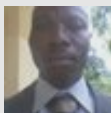
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Wilfred Obi · Leader at Vemma

Great Medicinal fruit juice.

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