

***Of the following two articles, the first is brief, the second is more comprehensive -- and provides a source for Graviola. Both articles describe how the herb Graviola "eats" cancer cells with no side effects:***

***Graviola <http://www.rain-tree.com>***

In an 1976 plant screening program by the National Cancer Institute, the leaves and stem of Graviola showed active cytotoxicity against cancer cells and researchers have been following up on this research ever since. Much of the research on Graviola focuses on a novel set of phytochemicals called annonaceous acetogenins. The potent antitumor, pesticidal and/or insect antifeedant properties of these annonaceous acetogenins have been reported and patented.

Graviola produces these natural compounds in leaf, bark and twig tissues, and they have been documented to possess both highly anti-tumor and pesticidal properties. Mode of action studies in three separate laboratories have recently determined that acetogenins are superb inhibitors of Complex I in mitochondrial electron transport systems from several organisms including tumors.

Research on various Annona species of plants has yielded many extremely potent acetogenins. Many of them have cytotoxicity with ED50 values as low as 10<sup>-9</sup> ug/ml. Active compounds from Graviola and other Annona plants have been submitted to the NIH anti-AIDS screen by Purdue University and their work is continuing with a number of other active plant species in the Annona plant family.

Thus far, Purdue and/or its staff have filed at least 9 U.S. and/or international patents on their work around the antitumor and insecticidal properties and uses of these acetogenins. Three separate research groups have isolated novel compounds in the seeds and leaves of Graviola which have demonstrated significant anti-tumor, anticancerous and selective toxicity against various types of cancer cells, publishing 8 clinical studies on their findings. One study demonstrated that an acetogenin in Graviola was selectively cytotoxic to colon adenocarcinoma cells in which it was 10,000 times the potency of adriamycin (a chemotherapy drug).

Cancer research is ongoing on Graviola, and four new studies have been published in 1998 which further narrow down the specific phytochemicals which are demonstrating the strongest anticancerous and antiviral properties.

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#### **HEALTH SCIENCES INSTITUTE**

*Members Alert for January 2001 Vol. 5, No  
Billion-dollar drug company nearly squashes astounding  
research on natural cancer killer*

Colon and breast cancer conquered with miracle tree from the Amazon found to be 10,000 times stronger than chemotherapy

Since our inception in 1996, Health Sciences Institute has scoured the world to find cutting-edge treatments few people have access to or have even heard about. And sometimes, what we uncover startles even the medical mavericks on our board.

Two months ago, we learned about an astounding cancer-fighting tree from the Amazon that has literally sent shock waves through the HSI network

Today, the future of cancer treatment and the chances of survival look more promising than ever. There's a healing tree that grows deep within the Amazon rain forest in South America that could literally change how you, your doctor, and possibly the rest of the world think about curing cancer. With extracts from this powerful tree, it may now be possible to...

- conquer cancer safely and effectively with an all-natural therapy that doesn't cause extreme nausea, weight loss, and hair loss
- \* protect your immune system and evade deadly infections
- \* feel strong and healthy throughout the course of treatment
- \* boost your energy and improve your outlook on life

Through a series of confidential communications involving a researcher from one of America's largest pharmaceutical companies, this ancient tree's anticancerous properties have recently come to light. Although not yet tested in human trials, the tree has been studied in more than 20 laboratory tests since the 1970s, where it's been shown to:

- effectively target and kill malignant cells in 12 different types of cancer, including colon, breast, prostate, lung, and pancreatic cancer
- be 10,000 times stronger in killing colon cancer cells than Adriamycin, a commonly used chemotherapeutic drug
- selectively hunt down and kill cancer cells without harming healthy cells, unlike chemotherapy

So why isn't every health publication extolling the benefits of this treatment? Why hasn't it been made widely available throughout the natural-medicine community? And, if it's only half as promising as it appears to be, why isn't every oncologist at every major hospital insisting on using it on all his patients? Especially when you consider that since the early 1990s, extensive independent research--including research by one of today's leading drug

companies and by the National Cancer Institute--confirms that the tree's chemical extracts attack and destroy cancer cells with lethal precision.

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 Graviola is 10,000 times stronger in killing colon cancer than Adriamycin, a commonly used chemotherapeutic drug.  
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The answer to these difficult questions can only be explained by recounting a disturbing story we recently uncovered. More than anything else we've reported on this year, the story of this Amazon cancer treatment reinforces the need for groups like HSI and illustrates how easily our options for medical treatment are controlled by money and power.

### **News of this amazing tree was nearly lost forever. . .**

A confidential source, whose account we've been able to independently confirm, revealed that a billion-dollar drug company in the United States tried for nearly seven years to synthesize two of the tree's most powerful anticancerous chemicals. In the early 1990s, behind lock and key, this well-known drug giant began searching for a cure for cancer--while preciously guarding their opportunity to patent it and, therefore, profit from it.

Research focused on a legendary healing tree called Graviola. Parts of the tree--including the bark, leaves, roots, fruit, and fruit seeds--had been used for centuries by medicine men and native Indians in South America to treat heart disease, asthma, liver problems, and arthritis. Going on little documented scientific evidence, the company poured money and resources into testing Graviola's anticancerous properties--and they were shocked by the results. Graviola was a cancer-killing dynamo. But that's where the story of Graviola nearly ended.

The pharmaceutical company had a big problem. They'd spent years trying to isolate and create man-made duplicates of two of the tree's most powerful chemicals. But they'd hit a brick wall. They couldn't replicate the original. And they couldn't sell the tree extract itself profitably--because federal law mandates that natural substances can't be patented. That meant the company couldn't protect its profits on the project it had poured millions of dollars and nearly seven years of research into.

As the dream of big profits evaporated, testing on Graviola came to a screeching halt

After seven frustrating years and without the promise of lucrative sales, the company shelved the project and refused to publish its findings in an independent journal. But one responsible researcher struggled with the decision. While understanding the company's goal of profits, he couldn't accept the decision to hide this unique cancer killer from the world. Following

his conscience and risking his career, he contacted Raintree Nutrition, a company dedicated to harvesting plants from the Amazon.

As a result, Raintree went into high gear and began to research related studies published on Graviola. They discovered that several other teams in the United States (in addition to that of the drug company) had been testing Graviola in vitro (in test tubes). The results supported the drug company's secret findings; Graviola had been shown to kill cancer cells.

Encouraged by these early laboratory tests, Raintree hired indigenous Indian tribes in Brazil to grow and harvest the tree. They spent a year on research and development and then began offering Graviola in the United States. They also developed a new supplement called N-Tense, which contains 50 percent Graviola as well as smaller amounts of seven other cancer-killing botanical extracts. (See page 4 for more information on N-Tense.)

Health Sciences Institute came across Graviola and Raintree Nutrition a few months ago while researching Chanca Piedra, a natural kidney-stone therapy from the Amazon, that was featured in our September 2000 issue. In the course of our working together, Raintree pointed us toward Graviola. And needless to say, our panel of experts were intrigued by the possibility of this powerful natural cure for cancer.

### **Graviola hunts down and destroys prostate, lung, breast, colon, and pancreatic cancers... leaving healthy cells alone**

Since November, we've been looking closely into the research to date on Graviola. It appears one of the first scientific references to it in the United States was by the National Cancer Institute (NCI). In 1976, the NCI included Graviola in a plant-screening program that showed its leaves and stems were effective in attacking and destroying malignant cells. But the results were part of an internal NCI report and were, for some reason, never released to the public.<sup>1</sup>

Since 1976, there have been several promising cancer studies on Graviola. However, the tree's extracts have yet to be tested on cancer patients. No double-blind clinical trials exist, and clinical trials are typically the benchmark mainstream doctors and journals use to judge a treatment's value. Nevertheless, Graviola has been shown to kill cancer cells in vitro in at least 20 laboratory tests that our research has uncovered.

The most recent study, conducted at Catholic University of South Korea earlier this year, revealed that two chemicals extracted from Graviola seeds showed "selective cytotoxicity comparable with Adriamycin" for breast and colon cancer cells. The chemicals targeted and killed malignant breast and colon cells in a test tube--comparable to the commonly used chemotherapy drug Adriamycin.<sup>2</sup>

Another study, published in the Journal of Natural Products, showed that Graviola is not only comparable to Adriamycin--but dramatically outperforms it in laboratory tests. Results showed that one chemical found in Graviola selectively killed colon cancer cells at "10,000 times the potency of Adriamycin."<sup>3</sup>

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 Graviola selectively targets cancer cells leaving healthy cells untouched. Chemotherapy indiscriminately seeks and destroys all actively reproducing cells - even normal, healthy ones.  
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Other promising and ongoing research at Purdue University is supported by a grant from the National Cancer Institute. Purdue researchers recently found that leaves from the Graviola tree killed cancer cells "among six human-cell lines" and were especially effective against prostate and pancreatic cancer cells.<sup>4</sup> In a separate study, Purdue researchers showed that extracts from the Graviola leaves are extremely effective in isolating and killing lung cancer cells.<sup>5</sup>

Perhaps the most significant result of the study cited above from the Catholic University of South Korea, and of each of the others we've found, is that Graviola was shown to selectively target the enemy--leaving all healthy, normal cells untouched. By comparison, chemotherapy indiscriminately seeks and destroys all actively reproducing cells--even normal hair and stomach cells. This is what causes such often-devastating side effects as hair loss and severe nausea. In this respect, Graviola looks to be a promising alternative or supplement to mainstream treatments.

### **Patient reports show Graviola and N-Tense help eliminate tumors**

From a clinical standpoint, Graviola still has a long way to go. Its properties have only been studied in a test tube. That's why it has yet to become widely known and accepted. The unfortunate truth is that without the promise of huge revenues from a synthesized, patented drug, it's unlikely that any pharmaceutical company will invest the hundreds of thousands (even millions) of dollars it would take to conduct the double-blind, placebo-controlled studies on humans. This is the underlying challenge to substantiating most nutritional therapies. Fortunately, Graviola is a natural substance, so we don't have to wait around for the drug companies. And, thanks to one researcher with a conscience, Raintree Nutrition bravely took the initiative in making this promising cure available.

Only a relative handful of doctors and patients in the United States have been using Graviola and the Graviola-rich botanical supplement N-Tense to fight cancer. Still, according to Raintree Nutrition, the combined therapy has produced some incredible results.

One such case history involved an executive at a high-tech company in Texas. Daryl S. came across Raintree when exploring alternative treatments to cure his prostate cancer. A sonogram and biopsy confirmed that Daryl had more than 20 tumors in his prostate. One doctor recommended surgery. But Daryl thought a cure using this common conventional treatment would come at too great a cost. He didn't want to suffer from impotence and incontinence for the rest of his life.

Instead, he agreed to a far less invasive round of hormonal therapy (to shrink the size of his prostate) and began a rigorous supplement regimen that centered around the Graviola-rich supplement N-Tense.

Within two months, Daryl's PSA level had dropped from 4.1 to 0.00. A sonogram and several other gamma-ray tests later confirmed that all the malignant tumors inside his prostate had disappeared.

### **Seven years of silence broken**

We are continuing to work with Raintree and others conducting ongoing research on Graviola. As more scientific and anecdotal evidence comes to light, you'll be among the first to hear about it. However, after seven years of silence and hidden research, we felt it irresponsible not to bring this to you now.

Grown and harvested by indigenous people in Brazil, Graviola is available in limited supply in the United States and distributed only through Raintree Nutrition. But now, you can be among a select few in the entire country to benefit from Graviola. We encourage you, as always, to consult with your doctor before beginning any new therapy, especially when treating cancer.

You can make tea out of the Graviola leaves, obtain the herb alone in capsule form, or benefit from the power of Graviola combined with seven other immune-boosting herbs in Raintree Nutrition's N-Tense capsules. (See the sidebar on page 4 for more details on N-Tense.)

Graviola leaves are available through Raintree Nutrition at \$19 per pound or at \$15.00 per 100 capsules. Each capsule contains 700 milligrams. Based on South American traditional therapies, it's recommended you take one to five grams a day. As a dietary supplement, N-Tense should be taken at 6 to 8 capsules daily. You can order 120 capsules for \$24.

Graviola and N-Tense are completely natural substances with no side effects apart from possible mild gastrointestinal upset at high dosages (in excess of 5 grams) if taken on an empty stomach.

1. Unpublished data, National Cancer Institute. Anon: Nat Cancer 1st Central Files--(1976)  
from Napralert Files, University of Illinois, 1995
2. Bioorg Med Chem 8(1):285-90, 2000
3. J Nat Prod 59(2):100-108, 1996
4. Phytochemistry 49(2):565-71, 1998
5. J. Nat Prod 58(6):902-908, 1995

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### **Graviola fights more than cancer...**

While the research on Graviola has focused on its cancer-fighting effect, the plant has been used for centuries by medicine men in South America to treat an astonishing number of ailments, including:

hypertension  
ringworm  
influenza      scurvy  
rashes          malaria  
neuralgia      dysentery  
arthritis      palpitations  
rheumatism    nervousness  
high blood pressure      insomnia  
diarrhea      fever  
nausea        boils  
dyspepsia    muscle spasm  
ulcer

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Despite the mounting collection of laboratory tests and anecdotal reports about this cancer-fighting dynamo, Graviola may always remain an underground therapy!

Graviola has yet to be clinically tested on animals or humans. And because Graviola is a natural product, it can't be patented. Without the promise of exclusive sales and high profitability, it will likely never again draw the attention of a major drug company or research lab. So we may never see a double-blind clinical study on the tree that's reported to help defeat cancer.

But there's no doubt about it--the early laboratory tests and anecdotal reports about Graviola are very exciting. And if you've been diagnosed with cancer, you and your doctor should look at all the available treatment options. Graviola may just provide the help you've been looking for that could make all the difference in beating cancer.

Raintree Nutrition can supply you with more information on Graviola and N-Tense. See page 8 for ordering and contact information.

Note: We are carefully tracking the success of Graviola use among our members. Please write to us describing your experiences with this important treatment.

Send to: Graviola Project, Health Sciences Institute, 819 N. Charles St.,  
Baltimore, MD 21201.

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### **Unlocking the healing bounty within the Amazon...**

The U.S. National Cancer Institute has identified 3,000 plants that are active against cancer cells--70 percent of which are found in the Amazon rainforest.<sup>1</sup> Until recently, only shaman, healers, and indigenous tribes held the key to unlocking their extraordinary secrets. Now, thanks to the unrelenting work of leading nutritional researchers, herbalists, and alternative doctors like those in the HSI network, the healing secrets of these plants, such as Graviola, are being uncovered.

In addition to promoting Graviola, Raintree Nutrition has taken the lead in making several other rainforest botanicals available to U.S. practitioners and consumers. They've combined Graviola with seven of these to create a power-packed, immune-boosting formula called N-Tense. Graviola makes up 50 percent of the N-Tense formula, which also consists of smaller amounts of the rainforest botanicals described below. These extracts have been widely used by indigenous people in South America and other tropical regions around the world to heal a wide range of ailments, including indigestion, inflammation, liver and gallbladder disorders, hepatitis, malaria, infection, respiratory problems, and more. And over the last decade, many of them have become popular among alternative physicians. But it's their cytotoxic and immune-boosting potential, as shown in studies, that makes these extracts invaluable in the fight against cancer.

#### **Bitter melon (*Momordica charantia*)**

Over the last decade, most of the research on bitter melon has focused on the vegetable's anti-viral properties. But bitter melon extracts are also being closely studied for their anticancerous properties.

Five of the plant's phytochemicals have been well documented as having cytotoxic properties, meaning they've been shown to both kill and inhibit the growth of cancer cells in vitro. One recent in vitro test conducted by researchers at Seoul National University studied the cytotoxic effects of 100 plants on different cell lines in the body. According to their results, the bitter melon extract showed the "strongest" ability to kill and retard the proliferation of cancer cells.<sup>2</sup>

#### **Espinheira Santa (*Maytenus illicifolia*)**

Early scientific research in the 1970s showed that this tree's leaves contain a unique group of chemicals called maytansinoids that display powerful antitumor properties. Although testing on cancer patients revealed some significant regressions in ovarian carcinoma and some lymphomas, research was discontinued due to the toxicity reported at high dosages. In the 1990s, scientists isolated and synthesized a version of the tree's chemicals showing little to no toxicity to humans. Since then, the tree has been given a second look.

According to one recent study by a research team in Massachusetts, maytansinoid extracts were found to be "100- to 1,000-fold more cytotoxic than anticancer drugs currently in clinical use." Specifically, when combined with a special protein called an antibody that hunts down and kills foreign substances in the body, this chemical extract was found to be highly cytotoxic toward cultured colon cancer cells in vitro and showed "remarkable antitumor efficacy in vivo" (in the body).<sup>3</sup>

### **Mullaca (*Physalis angulata*)**

Mullaca's recently identified steroids have garnered the most attention from the scientific community. In several in vivo animal tests and in vitro lab tests, Mullaca's steroids demonstrate powerful immune-system support.

Recent cancer studies indicate Mullaca is capable of killing several different types of malignant cells in vitro. In one study from 1992, Mullaca exhibited strong cytotoxicity against cancerous kidney cells in a test tube. The plant extract was also shown to reduce the size of cancerous tumors in mice with lymphocytic leukemia.<sup>4</sup>

### **Vassourinha (*Scoparia dulcis*)**

Much of the recent research on Vassourinha has centered around one powerful phytochemical called scopadulcic acid B (SDB). In a 1993 clinical study, SDB inhibited the growth of tumors in a test tube and in mice.<sup>5</sup> Since the mid-1990s, scientists have been trying to synthesize several of Vassourinha's phytochemicals, including SDB, for mainstream use by the pharmaceutical industry.<sup>6</sup>

### **Mutamba (*Guazuma ulmifolia*)**

In 1990, a team of Brazilian researchers demonstrated that leaf extracts from the Mutamba tree inhibited the growth of cancer cells in vitro by 97.3 percent. Some of the latest research on Mutamba has focused on the antioxidants found in the bark and leaves and their ability to inhibit the growth of bacteria and pathogens.

### **Suma (*Pfaffia paniculata*)**

Recent studies on Suma's anticancerous properties look particularly promising. Two of Suma's phytochemicals have been shown to inhibit the growth of tumor cells in vitro, and in the year 2000 a Japanese team of researchers demonstrated that Suma inhibited lymphomas and leukemia in mice.

### **Cat's Claw (*Uncaria tomentosa*)**

Recent studies indicate that at least six of the Cat's Claw vine's alkaloids can increase the functioning of the immune system by up to 50 percent. This has led to its use around the world by cancer and AIDS patients. Cancer patients who take Cat's Claw in conjunction with traditional cancer therapies have reported fewer side effects than typically associated with chemotherapy and radiation, such as hair loss, weight loss, nausea, secondary infections, and skin problems. Additionally, five of the vine's alkaloids have been shown to inhibit the growth of lymphoma and leukemic cells in vitro.<sup>7</sup>

Used for centuries by South American medicine men, Graviola and these other botanicals from the Amazon have only recently begun to reveal their secrets in rigorous scientific tests. And their cancer-fighting potential is undeniable. Furthermore, these extraordinary botanicals actually boost your immune system, instead of destroying it, as chemotherapy does. By taking N-Tense, you can support your overall health and mount a powerful, all-natural assault on cancer.

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1. Rainforest Facts found at <http://www.rain-tree.com/facts.htm>
  2. Anticancer Res 18(1A):119-24, 1998
  3. Proc Natl Acad Sci USA 93(16):8618-23, 1996
  4. Anticancer Res 12(3):837-43, 1992
  5. Oncology 50(2):100-3, 1993 6. Fitoterapia (61)4:353-355, 1990 7. Anticancer Res 18(5A):3363-8, 1998

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#### **GRAVIOLA**

Raintree Nutrition, Inc. 10609 Metric Blvd., Suite 101, Austin, TX 78758;  
tel(800)780-5902 or (512)833-5006; fax (512)833-5414.  
<http://www.rain-tree.com/graviolacaps.htm>  
100 Capsules cost \$15.00

N-TENSE (featuring Graviola and seven other rainforest herbs)  
Raintree Nutrition, Inc. 10609 Metric Blvd., Suite 101, Austin, TX 78758;  
tel(800)780-5902 or (512)833-5006; fax (512)833-5414.  
<http://www.rain-tree.com/n-tense.htm>  
120 capsules cost \$24.00

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