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JOEL FUHRMAN, MD

Animal protein, IGF-1 and cancer

Most people are aware of the connections between red and processed meats and cancerthat there is convincing evidence that these dangerous foods are a cause of colon cancer.

In addition, cooking any meat at high temperatures (for example, grilled or fried chicken) forms carcinogenic compounds such as heterocyclic amines, which contribute to cancer risk.

However, animal foods such as non-fat dairy products, egg whites, and fish are considered healthful by most people. It not yet widely recognized that foods such as these, since they are so high in animal protein, may also contribute to increased cancer risk.

When we consume too much animal protein, the body

increases its production of a hormone called IGF-1, (insulin-like growth factor 1).

IGF-1 is one of the body's important growth promoters during fetal and childhood growth, but later in life IGF-1 promotes the aging process.

Reduced IGF-1 signaling in adulthood is associated with reduced oxidative stress, decreased inflammation, enhanced insulin sensitivity and longer lifespan.

In contrast, IGF-1 has been shown to promote the growth, proliferation and spread of cancer cells, and elevated IGF-1 levels are linked to increased risk of several cancers. Several observational studies have suggested that high circulating IGF-1 may translate into promotion of tumor growth in colon, prostate and breast tissue.

Which foods raise IGF-1? Since the primary dietary factor that determines IGF-1 levels is animal protein, the excessive meat, fowl, seafood, and dairy intake common in our society elevates circulating IGF-1.

Refined carbohydrates, like white flour, white rice, and sugars can also raise IGF-1 levels, because they cause rapid increases in insulin levels, leading to increases in IGF-1 signaling. In fact, IGF-1 signaling is thought to be a major factor in the connection between diabetes and cancer.

It is the amino acid distribution of animal protein that sparks IGF-1 production.

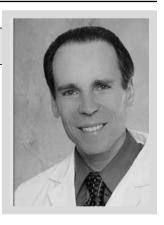
For this reason, isolated soy protein, found in protein powders and meat substitutes, may also be problematic because the protein is unnaturally concentrated and its amino acid profile is very similar to that of animal protein.

How can we keep IGF-1 in a safe range?

Reducing IGF-1 levels by dietary methods is now considered by many scientists to be an effective cancer prevention measure. Minimizing or avoiding animal protein, isolated soy protein and refined carbohydrates can help to keep our IGF-1 levels in a safe range.

Green vegetables, beans and other legumes, and seeds are rich in plant protein and they have cancer-preventive, not cancer-promoting properties.

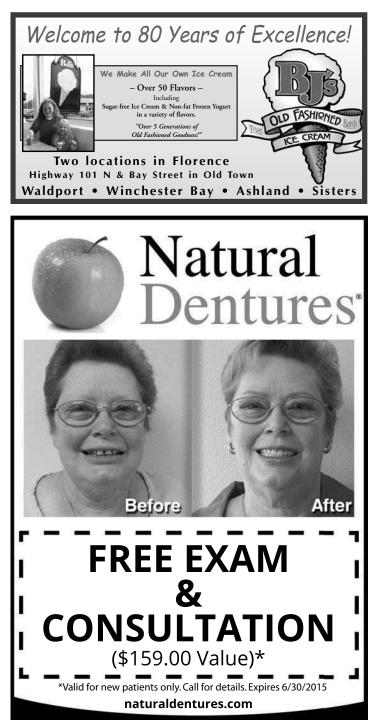
For optimal cancer protec-



tion, vegetables, beans, fruits, nuts and seeds should comprise the vast majority of our calories.

Dr. Fuhrman is a New York Times best-selling author and board certified family physician specializing in lifestyle and nutritional medicine.

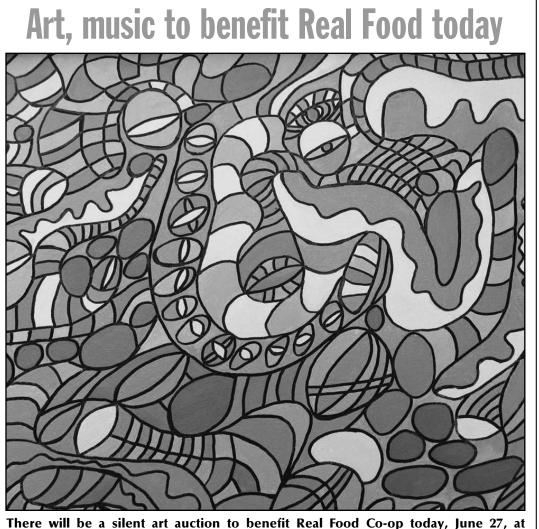
Visit his website at Dr Fuhrman.com, or submit questions and comments to news questions@drfuhrman.com.



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1647 West 12th Street, Florence



There will be a silent art auction to benefit Real Food Co-op today, June 27, at 6 p.m., at the Kenneth B Gallery, 1458 First Street. Bring an instrument and join the drum circle at 6:30 p.m., watch a Bollywood dance performance at 7:15 p.m. Local band Speaker Wave starts at 8 p.m.



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