

# Health Defender, Green Patriot



***Dr. Mirko Beljanski's research is fundamental to sound public health policy and has provided direct benefits for persons with cancer (see page 18).***

Dr. Mirko Beljanski was a man of science, intellect, and humanity, whose research is increasingly critical to the modern environmental movement.

The work of Beljanski is seminal to truth telling when it comes to chemicals and cancer. It pits the fully dimensional view of DNA as life form versus the one-dimensional genetic codes of the information scientists—and the stronger side now appears to be that of Beljanski. His time has come.

The polluting industries of the world love the geneticists who say that cancer is caused by our genes and not by the environment. Changing a single base pair in the strands of the double helix of our genetic code is called a mutation.

The geneticists have developed studies to see if chemicals cause mutations in our genes. It's interesting, of course, and worth studying.

The idea here is that if a substance does not cause strong genetic mutations, it is somehow less potent as a carcinogen or safer—safe enough to even tolerate being put into commerce and foisted upon unsuspecting consumers.

Take the case of diethylene dioxide or 1,4-dioxane, a contaminant found in a wide range of cosmetic and personal care products, especially baby

bubble bath and shampoo. This chemical contaminant is never disclosed on product labels (due to federal regulatory loopholes), yet is classified by our federal Environmental Protection Agency as a "probable" human carcinogen.

Because in some genetic assays it is only weakly mutagenic, the synthetic organic chemical manufacturers and other interested parties have begun attacking this chemical as some how a lesser carcinogen that need only be managed by lowering levels—and the Food and Drug Administration has not forced the industry to remove this contaminant, either, claiming its regulatory powers are limited by loopholes in the federal Food, Drug, and Cosmetic Act.

Beljanski was a young scientist in the 1950s at the Pasteur Institute when Watson and Crick announced they had figured out the structure of DNA, the very secret of life. Their findings stimulated geneticists into their information-based sequential science. But, Beljanski's genius was that he visualized the very helical structure of DNA—and that at the Pasteur Institute, his advanced light and illumination studies with use of the spectrophotometer showed that the very helixes of a molecule were being damaged—another kind of damage separate from mutations. Hydrogen bonds were weakened and gaps distorted involving slippage.

The geneticists with their one-dimensional science asserted they had it all figured out and once they had the whole human genome mapped, fixing any health problem would be a snap—except that they were only seeing late-stage damage. Beljanski saw far earlier stages. Dr. Beljanski's research "identified a class of compounds that were carcinogenic....but which did not show mutagenic potential in the mainstream Ames test used to classify cancer causing compounds," according to a report. "This result illustrates again Beljanski's departure from the information-based model of carcinogenesis." In other words, a compound could show carcinogenic properties (by affecting DNA structure) without necessarily being a mutagen, which is widely understood to cause cancer by altering the sequence of the DNA.

As a result of this research, clearly, chemicals that damage the helical structure are potentially

more or just as dangerous. It is totally misleading for industry to distinguish carcinogens by whether they cause mutations—and then argue that these chemicals need only to be managed (as if we are being exposed to isolated chemicals). It is entirely possible that the chemicals are causing damage that the geneticists are not even seeing.

If we have learned anything from the work of Beljanski, it is that it is enough that a chemical causes outright cancer in two different species of animals and in both sexes to scare the heck out of careful consumers, conscientious public health officials and perhaps even informed and responsible corporate officers.

Such chemicals should be managed with one goal in mind: their elimination from commerce. They cause cancer. There is no safe level to a single carcinogen, much less the hundreds to which we are chronically exposed. It just makes sense to eliminate such chemicals whenever possible.

There is so much more to the Beljanski story, and several amazing plant extracts for support during cancer that his research spawned, that we've devoted three full pages to exploring his work and its relevance to modern therapies for cancer, start-

ing on page 18. I urge you to read about the work of this green patriot, a man whose brilliance is so critical to our public health—and perhaps to your own personal health. Indeed, Natural Source, which has championed the scientific validation of the Beljanski extracts in America, is a science- and research-driven boutique company catering to health professionals and cancer patients who seek supplements critical to health support during this time.

Meantime, I have publicly called upon the FDA to require the cosmetic and personal care industry to completely eliminate 1,4-dioxane from their products—especially baby and children's bubble bath and shampoo. (It is easily cleaned up out of products with vacuum stripping.) Many of these companies pay more for licensing for their cartoon characters than they do to protect your child's health. Thanks to Dr. Beljanski's research, we have one more tool at hand to finally get them to clean up their products. ■

A handwritten signature in black ink that reads "David Steinman". The signature is written in a cursive, flowing style with a large initial "D".