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# Sweet Science: How Insights into Fructose Metabolism Are Helping to Fight Liver Disease

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dietary fat was once seen as the main public health enemy, in recent years, researchers are finding that the added sugars in our diet, mainly in the form of fructose, are contributing to high levels of obesity, diabetes, and liver disease.

To help address these growing epidemics, Pfizer scientists are working to develop a novel medicine that blocks fructose metabolism to help prevent the buildup of fat, or steatosis, in the liver. When the liver has too much fat, it can lead to a more serious condition, known as nonalcoholic steatohepatitis (NASH), which causes scarring and eventually liver failure. “Steatosis, or fatty liver, is the very first step in a bad journey,” says Thomas Magee, Senior Director, Internal Medicine Research Unit, based at Pfizer’s Kendall Square, Cambridge research site. Magee is a medicinal chemist who was the project leader during the discovery and early development of a fructose metabolizing compound that is currently being evaluated in clinical trials.

### Not all sugars are the same

If you’re comparing calories, the two main types of dietary sugars — fructose and glucose — are exactly the same. (Sucrose, or table sugar, is a combination of fructose and glucose.) What makes fructose more harmful is the way the body metabolizes it. Unlike glucose, which is used by cells as an energy source, fructose is metabolized by the liver, where it promotes the synthesis of fat. In fact, some experts believe our bodies are not designed to handle this excess fructose. “In evolutionary history, it was a rare treat, where you might find fructose in a beehive or seasonal fruit, serving as an energy source when food was scarce. Now those with first-world diets have a constant onslaught, and our bodies have not caught up,” says Magee.

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“fat free.” “Ironically, replacing fat in food with sugar just leads to fat in the liver and in circulation – none of which is good for your heart,” says Magee.

### Going after sugar

Pfizer’s KHK inhibitor, currently in Phase 2 studies, is the first and — to the best of our knowledge — only clinical candidate in this mechanism. “We’re pioneering our way into this field,” says Magee. “Whenever you get into an exploratory area, it’s challenging, but it’s worth it. That’s how science moves forward.”



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remains an active area of research.

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Learn how changing climate conditions are affecting the spread of Lyme Disease and 5 facts you need to know about the disease.

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“It’s really hard to be vulnerable, but I’ve realized other people have alopecia areata too and have probably struggled with this like I did. So, I asked myself, ‘Why am I not talking about this?’ I should probably share what I’ve learned through my own journey.”

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In 2013, Bruce's life changed. He was living in sunny Florida with Chris, his wife of over 20 years, when he received an unexpected diagnosis.

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