

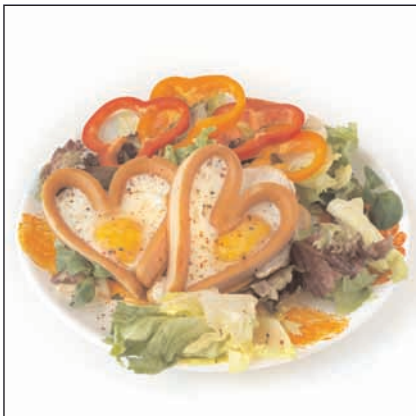


## ▼ VALUE-ADDED NUTRITION SCIENCE

In support of its new Health Promoting Foods Platform and capabilities, NCFST has opened a clinical nutrition research center on the Illinois Institute of Technology's main campus in Chicago. The 5,000-square-foot facility features multiple exam rooms, a metabolic kitchen, two distinct food intake suites and a specimen processing lab. Human research to determine the health benefits of a variety of foods will be conducted at the center, focusing on safety and efficacy, dose response, bioavailability, and mechanisms by which food compounds promote enhanced nutrition.

As part of its mission to support scientific inquiry and the validation of relevant factors in foods that confer protection from illness and disease and promote health, Health Promoting Foods Platform personnel will work on a range of projects. These include a collaborative effort with UC-Davis to target specific plant foods rich in postulated health-related biofactors to optimize opportunities for enhanced product formulation and a chemical analysis and validation study of the effect of processing on fruit phenolics.

The first study slated to open the clinical nutrition research center is a food intake regulation study, which focuses on satiety, dietary fiber and glycemic index to help improve understanding of the physiology that drives eating behavior.



## ▼ OUR CAPABILITIES

- >> Facilitate path-to-market strategy for industry through early and ongoing regulatory interaction in the emerging healthy foods field
- >> Design, plan and implement human research studies to determine the health promoting benefits of foods and food compounds
- >> Cutting-edge research and analytical capabilities, including applied microbiology (pre- and probiotics), food virology, and challenge studies on new foods and formulations
- >> Access to research conducted in the state-of-the-art biochemical laboratory and NCFST's new clinical nutrition research center

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**NATIONAL CENTER FOR FOOD SAFETY AND TECHNOLOGY**  
**Martin Cole, Ph.D., Director**

The National Center for Food Safety and Technology (NCFST), founded in 1988, is a unique research consortium of the U.S. Food and Drug Administration (FDA) Center for Food Safety and Applied Nutrition (CFSAN) Division of Food Processing Science and Technology, Illinois Institute of Technology (IIT) and the food industry. The NCFST is the only center where industry can work collaboratively with FDA scientists on food safety, nutrition and technology research.

ILLINOIS INSTITUTE  
OF TECHNOLOGY



# National Center for Food Safety and Technology

## HEALTH PROMOTING FOODS PLATFORM



The promise of health promoting foods to reduce the onset of vascular disease, obesity, diabetes, cancer and other major chronic illnesses linked to poor diet quality has consumers flocking to their local supermarkets in search of products that will help them to lead longer, healthier lives. At the same time, rising healthcare costs are leading governments to institute preventive health initiatives involving food.

Today, technologies exist that can improve the nutrient quality of the food supply, and a variety of functional food and ingredients are being developed using biomarkers to indicate health/disease risk reduction benefits. However, foods with health claims must be developed, commercialized and regulated in a safe and effective manner. Development of health promoting products not only requires agencies to create new regulatory pathways and streamlined review processes but requires food manufacturers to substantiate health claims through sound science.



NCFST is leveraging its collaborative model with the U.S. Food and Drug Administration (FDA) and 20 years of food processing and safety expertise to contribute to this important emerging field. With the addition of the Health Promoting Foods Platform to its portfolio of scientific research, NCFST now offers its members a truly comprehensive turn-key path-to-market solution.

### ▼ HEALTH PROMOTING FOODS PLATFORM MISSION

NCFST's Health Promoting Foods Platform is leading the development of food-based solutions for improving public health and reducing disease risk through science that validates the impact of health promoting foods on clinically relevant end-points. The new platform will provide:

- >> Integrated approach to nutrition, food safety, and processing
- >> Models for studying vascular health
- >> Human clinical facilities for studying biochemical and functional end-points of chronic disease
- >> Science for improving the adoption of dietary guidelines
- >> Science validating in humans the beneficial effects of plant and dairy bioactives

> **BREAKTHROUGH  
SCIENCE**

> **INNOVATIVE  
TECHNOLOGY**

> **CUTTING-EDGE  
NUTRITION**