A Healthy Assortment of Functional Ingredients

This year, IFT’s food expo is filled with information, research, and ingredients addressing the latest food and beverage trends. It is not one to be missed as companies and academia shine a spotlight on what can be created by the industry’s brightest food scientists. Exhibitors on the food expo floor, as well as presenters in the scientific and applied sessions, will focus on what nutrition, creativity, and innovation can be achieved with food science.

Trends like alternative protein sources, sustainability, healthy aging, gluten-free foods, and fermented foods will be highlighted in some of the sessions. For example, session 121, “Fermented Functional Foods: Opportunities and Benefits,” on Tuesday, July 14, from 1:15 p.m. to 2:45 p.m., will discuss the potential health benefits of fermented foods. Fermented foods are increasing in popularity because of their reported digestive health benefits and probiotic activity. They have grown from yogurt to include kefir, kombucha, kimchi, and more. The speakers will address trends and discuss more about fermented foods like kefir, cereal fermentation for gluten-free products, and protein conversion to bioactives in sourdough.

Protein is another popular ingredient in the food industry. When discussing alternative protein sources, the topic of insects as a sustainable source of protein is gaining attention. Session 056 on Monday, July 13, from 10:00 a.m. to 11:30 a.m., will present information on insect-based foods. The speakers will cover some of the advances in supply chain and processing developments and the regulatory and economic aspects of this emerging industry. Attendees will hear about real-life product development experiences and learn more about the regulatory and allergen concerns associated with formulating with insects.

From insects and plant-based ingredients to whey proteins and healthy fats, there are plenty of nutritional trends to discover at IFT’s food expo. Here is a brief review of what can be discovered at the food expo and the sessions.

### ALTERNATIVE PROTEINS

There is no doubt that the importance of lean protein is apparent to consumers. The trend has evolved to the point where consumers are not just focusing on the health aspects of lean protein but are looking for alternative protein sources, whether for sustainability, allergen, or vegetarian reasons. From 10:30 a.m. to noon on Sunday, July 12, session 021, “Expanding the Universe of Sustainable Ingredients: Alternative Proteins and Why We Need to Rethink These Key Nutrients,” will focus on some of these alternative protein sources, such as algae, quinoa, and pulses.

### PLANT-BASED PROTEINS

include Advantein, a proprietary blend of rice and pea proteins providing a complete amino acid profile; Gabiotein, and RisaPro sprouted brown rice proteins in organic and nonorganic forms; and PeasiPro pea protein available in organic and nonorganic forms.
A Healthy Assortment of Functional Ingredients continued...

All ingredients are U.S. Food and Drug Administration Generally Recognized As Safe (GRAS) and can be used in capsules, soft gels, and powders. **Clarinol Powder** is a microencapsulated oil in free-flowing powder form with a high concentration of conjugated linoleic acids (CLAs) in the form of triglycerides.

Formulations enhanced with **Clarinol Powder** can reduce body fat and increase lean body mass. **Marinol Omega-3 Triglycerides** have a high content of natural fish oil formulated using a gentle proprietary concentration and purification process. The two ingredient forms are **Marinol DHA 20% Powder** for cognitive health and **Marinol Omega-3 HS Powder** for heart health benefits.

**NEOBEE Medium Chain Triglycerides** are produced using glycerol from vegetable sources and medium chain fatty acids from coconut or palm kernel oil and are available in both 50% and 70% powders. Functional benefits include enhanced nutrient absorption and increased energy. Recommended applications include sports nutrition and weight management products and beverage mixes. **Stepan Lipid Nutrition** is a global leader in the production and supply of scientifically studied, naturally derived lipid ingredients used in nutritional products. **Stepan Lipid Nutrition**, stepan.com/powders, lipidnutrition.com, Booth 2121

**HIGH OLEIC SOYBEAN** oil will be showcased in daily cooking demonstrations and samples. **Plenish** offers more than 75% oleic content (monounsaturated, omega-9 component, and the highest of any soybean under commercial development) to significantly enhance the functionality of the oil. It has 0 g of trans fat along with enhanced stability. **Dupont Pioneer**, plenish.com, Booth 3702

**WHEY PROTEIN**

Whey protein has long since moved beyond its niche in the body-building market; the ingredient is now shown to be important for senior health, muscle development, and satiety. In addition, whey protein ingredient suppliers have made great strides in developing whey ingredients that can be used in a wide variety of foods and beverages, from soups and bars to clear beverages and smoothies. Session 080, “New Process Innovations Leading to Enhanced Dairy Protein Performance and Creation of New Products and Textures,” from 2:15 p.m. to 3:45 p.m., on Monday, July 13, will address some of the research that helps develop different dairy protein ingredients for a variety of foods and beverages. The speakers will provide information on dairy proteins and help generate ideas on creating high-protein yogurt products and beverages.

**TARGETING NUTRITIONAL PRODUCTS** and snack foods with high-quality and high-purity whey proteins, **Davisco**, a business unit of Agropur, will be highlighting the most recent additions to its specialty ingredients portfolio. Davisco recently completed a capital project that vastly expanded its production capacity for 90% pure alpha-lactalbumin isolate. This fraction of whey protein is ideal for infant nutrition as well as products seeking high levels of natural tryptophan with whey protein quality and functionality. Unique to high-purity alpha-lactalbumin is an inherent heat stability quality without hydrolysis or any modification of the protein. To highlight these properties, Davisco will provide samples of a clear, aseptically processed, ready-to-drink beverage containing 20 g of protein/6 fl oz serving, with approximately 1 g of tryptophan and 2 g of leucine. Flavored with ginger, naturally sweetened, and low in astringency at neutral pH, this prototype highlights the complete nutrition, clarity, clean flavor, and thermal stability that is only possible with high-purity alpha-lactalbumin.

Davisco’s hydrolyzed whey protein isolate offerings have recently expanded with **BioZate 7**, a high-purity whey protein ingredient based on ion exchange separation technology. **BioZate 7** is high in branched chain amino acids and leucine, is free of casein glycomacropeptide, and has zero lactose or carbohydrates. Davisco will provide samples of a premium protein bar with visible particulates

**INNOVATIVE NUTRITIONAL POWDERS** consist of five powders within the Clarinol CLA, Marinol Omega-3 Triglycerides, and NEOBEE Medium Chain Triglycerides ingredient lines.

Healthy Fats

Consumers are beginning to recognize that not all fats are bad, and they have many options when it comes to healthy fatty acids and nutritional oils. Omega-3 fatty acids from algae or fish, conjugated linoleic acid, olive oil, canola oil, and fish oil are just some of the available ingredients. On Sunday, July 12, from 8:30 a.m. to 10:00 a.m., session 011, “Outlook on Oils and Fats” with [BioZate](https://www.biozate.com) will provide an opportunity to learn about the latest developments in the field. The session will cover the latest innovations in nutritional oils and functional ingredients made from these oils.

A healthy assortment of functional ingredients continues to evolve, offering new opportunities for formulators to develop innovative products that meet the needs of consumers looking for natural and healthy options. The IFT (Institute of Food Technologists) expo will be the whole protein version. The expo will feature a variety of sessions focused on innovation, research, and dietary requirements. On Sunday, July 12, from 8:30 a.m. to 10:00 a.m., session 011, “Outlook on Oils and Fats” with BioZate will provide an opportunity to learn about the latest developments in the field. The session will cover the latest innovations in nutritional oils and functional ingredients made from these oils.

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of ginger, nuts, and pepitas and a savory peanut-ginger flavor profile. The bar binder is fortified with BioZate 7, maintaining a soft chewy texture throughout shelf life. Additionally, a combination of BioZate 7 and the company’s WPC 80% Heat Stable was used in a 60% whey protein extruded crisp with low bulk density, clean flavor, and a light, crisp texture. This fortification brings the protein content of the bar to 10 g of protein/40 g serving in a premium bar with high-quality natural particulates that you can see. Davisco, daviscofoods.com, Booth 361

ACTIVE NUTRITION will be the focus for Arla Foods Ingredients, highlighting healthy dairy concepts and lifestyle and sports nutrition ingredients that harness the power of whey protein. Arla Foods Ingredients will present Nutrilac Ageless, a new whey protein and calcium ingredient that will enable dairy companies to create yogurts and desserts for active seniors. Along with this will be a Greek-style yogurt smoothie, a product concept that perfectly illustrates the potential for protein-rich healthy snacking products. In addition, attendees can sample a new dip made using the acid whey that is a by-product of Greek yogurt production. Attendees will also be able to learn more about Arla Foods Ingredients’ sports yogurt concept, which is designed to appeal to active consumers who prefer not to use traditional gels and shakes. Nutrilac makes it easy to produce delicious drinking yogurt for sports nutrition with a pleasant taste and texture just like a standard drinking yogurt. The key difference is that it will have a whey protein content as high as 28 g/serving—a level that will offer excellent recovery benefits after exercise.

Continuing the sports nutrition theme, the company’s health and performance nutrition team will be on hand to explain the benefits of Lacprodan HYDRO.365, a whey protein hydrolysate that offers elite athletes scientifically proven performance and recovery benefits. Arla Foods Ingredients, arlafoodsingredients.com, Booth 4121

WHEY PROTEIN AND lactose are powerhouse ingredients for nutrition and function. From exercise recovery to vegetarian diets, whey provides heat and acid stability, clarity, and dispersibility. Concepts to try at IFT’s food expo include a Recovery Drink with whey protein’s critical branched chain amino acids, a Whey+Oat Shake with protein and oat fiber, and a Coconut Water Shake to help reach daily protein recommendations. Hilmar Ingredients, hilmaringredients.com, Booth 3744

DAIRY POWDERS, MILK proteins, and innovative bioactive ingredients are available for the food, nutrition, and health industries worldwide. For more than 20 years, Ingredia has developed sustainable partnerships with its customers based on the shared values of its founding milk-producing cooperative. Ingredia’s dedicated teams put their dairy and food processing expertise at the disposal of these customers and provide them with high-quality, functional, and nutritional ingredients that will shape the future of food products. Ingredia, ingredia.com, Booth 2560

FRUIT, VEGETABLE, AND grain ingredients will be showcased by FutureCeuticals. The company’s sprout powders, SproutGarden, represent the pinnacle of sprout science. All of the power and programming necessary for the development from seed to plant is locked up inside the seed. This is nature’s way of assuring that each and every plant has the best chance of survival and strength. When a dormant seed begins to sprout, it enters a stage of extreme vitality. Potent antioxidants, enzymes, and minerals such as iron, manganese, magnesium, and zinc help to “supercharge” the developing plant and enable it to thrive in the world above the soil. Not

INGREDIENTS FROM AYURVEDA, an Indian traditional system of medicine, aim to improve human and animal health. Natreon has invested heavily into clinical studies, with more than 30 clinical studies done on six standardized extracts. CAPROS provides comprehensive heart health coverage. SENSORIL is an anti-stress, anti-anxiety, and cognition-improving ingredient with anti-inflammatory properties. PRIMAVIE is for mitochondrial energy, male sexual health, and healthy collagen levels in the body. CROMINEX 3+ is a new chromium complex, offering more than just blood glucose support (it may reduce glycated hemoglobin by half a point) by improving endothelial function and lipid profile (especially in type 2 diabetics) and by decreasing high-sensitivity c-reactive protein. AYUFLEX is a vegetarian product for joint health. AYURIC is a vegetarian product for hyperuricemia, which leads to gout. Natreon, natreoninc.com, Booth 4151

As consumers clamor for less processed, more natural foods, the opportunity...
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surprisingly, the phyttonutrients and minerals in sprouts are in higher concentrations than in mature plants.

Sprouts are by weight one of nature’s richest sources of healthy plant nutrients. SproutGarden ingredients are perfect for applications such as those that target heart health, healthy digestion, healthy glucose metabolism, fibers and proteins, and healthy antioxidant status, whether in capsules or tablets, ready-to-drink and ready-to-mix products, or baking applications.

FutureCeuticals is a vertically integrated functional food ingredient, product development, and bioanalytical research and discovery company with farms and facilities in Illinois, Indiana, Wisconsin, California, and Europe. In addition to SproutGarden, the company recently launched Terasante Whole Food Plant Protein Line. FutureCeuticals, futureceuticals.com, Booth 4341

SEEDS AND GRAINS

Seeds and grains offer consumers the nutritious, whole food halo they desire. This trend is apparent in the number of food and beverage products made with chia seeds, sunflower seeds, flaxseeds, quinoa, amaranth, and hemp. Each has unique nutritional profiles and offer consumers healthy eating options.

AMAZING GRAINS IS a new item that utilizes Salba Chia to provide nutrition. The development of the grain blend started as a simple but very nutritious cereal and soon after became an opportunity to use the mix in a variety of other products. They can be used cold (ready-to-eat), hot (stovetop or microwave), or Swiss-soaked. Salba Smart Natural Products, salbasmart.com, Booth 1784

ANCIENT GRAINS, TRADITIONAL and specialty flours, and sprouted wheat, seeds, and sweet spices enhance nutrition. Recently, Bay State Milling Co. launched its BeneGrain line of sprouted flours. The initial introductions include both sprouted wheat flour and sprouted brown rice flour. BeneGrain Sprouted Wheat Flour is milled from hard red spring wheat. By carefully controlling the germination process, Bay State Milling produces a flour that naturally improves volume and reduces proof times while giving the resulting end product a boost of nutrition with a less bitter, slightly sweeter taste than conventional whole wheat. BeneGrain Sprouted Brown Rice Flour, developed for use in a range of gluten-free applications, is carefully germinated to release powerful enzymes that unlock plant-based nutrition prior to milling. Bay State Milling Co., baystatemilling.com, Booth 654

SPECIALTY FUNCTIONAL INGREDIENTS include puffed and popped seeds, flours, toasted flours, seeds, toasted seeds, pregel powders, and beverage mixes. Nu-World Foods provides conventional and organic seeds, including amaranth, millet, quinoa, sorghum, and teff. Custom milling and blending, contract packaging, and private label baking mixes are also available. Nu-World Foods, nuworldfoods.com, Booth 660

WHOLE GREEN COFFEE powder is a slow-release caffeine ingredient that is insoluble, has no bitter-astringent taste, and has a five- to six-hour slow release. Branded ingredients that will also be presented include Suntheanine (L-theanine), Sunphenon (green tea extracts), SunActive (iron, zinc, and CoQ10), SunAmla (Indian gooseberry extract), Sunfiber (soluble dietary fiber) and AWA-Break (nonsilicon antifoaming agent). Taiyo International, suntheanine.com, sunfiber.com, sunphenon.com, tайjointernational.com, Booth 1784

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**IMMUNITY AND DIGESTIVE HEALTH**

Commercials and magazine advertisements continue to educate consumers on the link between probiotics, digestive health, and immunity. Prebiotics are also becoming more of a common term in the discussion as consumers relate immunity and digestive health to their overall health and wellness. On Sunday, July 12, from 1:30 p.m. to 3:00 p.m., speakers in session 037, “Adding Value to Food and Nutrition Through Probiotics: Present Status and Future Perspective,” will address various aspects of probiotics, including their role in weight management and gut health. They will also cover regulatory issues and the use of genomics in understanding the role of gut microbes.

**WHAT’S NEW IN prebiotics?** Ganeden Biotech, a leader in the manufacturing and marketing of probiotics, will be hosting a Food Expo Forum discussion and promoting more than 15 new partner product launches within the food, beverage, and sports nutrition industries at its brand-new booth.

Ganeden’s Food Expo Forum is on Tuesday, July 14, from 11:00 a.m. to 11:45 a.m., at booth 3887. Attendees will hear from a panel of scientific, product development, and industry experts, including Ralf Jäger, cofounding partner of Increnovo; Doug Kalman, director of sports nutrition at Florida International University; and Justin Shimek, executive vice-president of product development at Mattson & Co. They will discuss how to get the most out of protein food or beverage formulations from an R&D and nutrition perspective. At Ganeden’s booth, attendees will be able to discuss the latest in probiotic technology, and to learn more about all the foods and beverages enriched with GanedenBC30. Ganeden Biotech, ganedenbiotech.com, Booth 2023

**DIGESTIVE HEALTH BENEFITS and prebiotic activity of chicory root fiber (inulin and oligofructose) is one of the three themes BENE0 will highlight. BENE0 offers non-genetically modified ingredients derived from natural sources that offer health and technical benefits. The company’s prebiotic fiber, functional carbohydrates, specialty rice ingredients, and proteins help to develop products that address consumer trends such as energy management, digestive health, naturalness, sugar and fat reduction, weight management, convenience, and free-from. Other highlighted themes will include next-generation energy management with Palatinose (functional carbohydrate) and the fact that BENE0 ingredients are from nature, not genetically modified, and clean label. BENE0, beneo.com, Booth 709**

**PROPRIETARY BAKER’S YEAST** beta 1,3/1,6 glucan from Wellmune helps strengthen the immune system, making it easier for consumers to be well and stay well. This award-winning food, beverage, and supplement ingredient is 100% natural and can be added to a variety of products to deliver clinically proven immune health benefits. Biothera the Immune Health Co., biothera.com, Booth 1009

**A NEW PREBIOTIC ingredient, PretticX, has strong clinical data linking it to improved healthy microflora. Prebiotics are food ingredients that help support growth of probiotic bacteria. In effect, they are nutrients that serve as a “fertilizer” for the beneficial bacteria that already exist in the gut. PretticX is an FDA GRAS-certified ingredient. It requires a low efficacious dose, is highly stable, easy to use, and slightly sweet. It is suitable for multiple food and beverage applications. AIDP, aidf.com, Booth 3209**

**DIETARY FIBER**

Heart health, weight management, immunity, and digestive health can all benefit from dietary fiber consumption. Although consumers are aware of its importance, recommended daily amounts of dietary fiber are still not being achieved. On Sunday, July 12, from 1:30 p.m. to 3:00 p.m., session 040, “New Frontiers in Dietary Fiber: Health and Nutrition Benefits,” will cover various health aspects of dietary fiber, focusing on body fat, satiety, and glycemic control.

**SOLUBLE CORN FIBER** for inulin replacement in snack foods will be presented by Tate & Lyle. Consistent consumer demand for fiber over the past several years has prompted food and beverage manufacturers to formulate more high-fiber products. However, clinical research shows that fiber ingredients, including inulin, may cause consumers digestive distress. Tate & Lyle food scientists Stephanie Lee and Sarah Scholl will discuss new technical research that presents soluble corn fiber as a viable alternative to inulin in the snack food category. Results indicate that replacing inulin with soluble corn fiber in a chewy granola bar provides similar texture, water activity, and sensory acceptance without the digestive distress. In addition, Tate & Lyle food scientists will be presenting research on starches, including presentations on the benefits of formulating with starches in processed meat systems and the success of replacing wheat flour with native instant starches in crackers. Tate & Lyle, tateandlyle.com, Booth 1248

**CHICORY ROOT FIBER’S** health benefits are of high interest to consumers, according to a recent survey. Half of consumers say the fiber level of food products influences their purchase decision, 51% think the combination of protein and fiber makes them feel full for longer, and 67% were interested in chicory root fiber to improve health. Discover the benefits of Sensus’s

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healthy, innovative food ingredients *Frutafit* powder and *Frutalose* oligofructose liquid inulin. These chicory root fiber ingredients are prebiotic soluble dietary fibers that enhance taste and texture while providing significant health benefits, including added fiber, lower glycemic response, reduced sugar, and reduced fat. *Frutalose SFP* is a highly soluble food ingredient, and due to its high sweetness content, it is perfectly suitable for sugar reduction and replacement. *Frutalose SFP* has the ability to significantly reduce sugar in a multitude of applications, including sweet baked goods, dairy, and cereal bars. *Sensus America, inspiredbyinulin.com, Booth 1067*

**A BETTER-FOR-YOU, CLEANER** label can be achieved with *Fibersol* ingredients. *Fibersol* offers a variety of label choices, so developers can choose the best option for their desired product positioning. Find out how to keep products clean and simple. The entire family of *Fibersol* ingredients—from easy-to-use *Fibersol-LQ* liquid to pleasingly sweet *Fibersol-HS*—provide healthful fiber and functional appeal to a wide variety of food and beverage applications as well as dietary supplements. Ingredients include *Fibersol-2, Fibersol-2 AG, Fibersol-LQ,* and *Fibersol-HS.* *ADM/Matsutani, fibersol.com, Booth 2617*

**SOLUBLE DIETARY FIBER**, *Fibregum* is obtained from carefully selected acacia gum and offers a guaranteed minimum of 90% soluble fiber with proven prebiotic benefits, exceptional digestive tolerance, and low caloric value.

*Nexira* will be presenting results showing that *Fibregum* has beneficial effects on gut health. A study recently published shows that *Fibregum* is gradually fermented in the transverse and distal colon. The resulting improved intestinal tolerance is most notably due to the slow fermentation of *Fibregum* by the gut microflora, making the ingredient a solution for those who want to increase fiber content and for those with high digestive discomfort like irritable bowel syndrome or fructose malabsorption. *Fibregum*’s popularity continues to grow as a natural way to help improve intestinal well-being and as a nutrient to promote a healthy equilibrium of gut microflora. *Nexira, nexira.com, Booth 712*

**OBESITY IN CHILDREN** can be fought with *Orafti Synergy1* from *BENEO.* A new study conducted by researchers at Calgary University showed that the prebiotic chicory root fiber *Orafti Synergy1* from *BENEO* improves appetite regulation and decreases food intake in overweight and obese children, helping those children to eat less. The results were presented at the American Society for Nutrition’s Scientific Sessions at Experimental Biology 2015 and illustrate that children whose diet was supplemented with 8 g of *Orafti Synergy1*/day had significantly higher ratings in their feeling of fullness and satisfaction and lower prospective food consumption. Also, satiety was significantly higher with the fiber supplementation. *BENEO, beneo.com, Booth 709*

**POTPOURRI**

Even though consumers are educating themselves and asking for more “novel” or “new” ingredients like probiotics, prebiotics, and phytonutrients, research shows their diets are still lacking in essential and mainstay nutrients like dietary fiber, choline, and calcium. This will be addressed in two separate sessions. In session 023, “Choline: An Important Nutrient Often Overlooked,” on Sunday, July 12, from 10:30 a.m. to noon, speakers from the University of North Carolina and Cornell University will discuss the role choline plays in areas such as brain development, cognition, pregnancy, and fetal development. Recent research relating choline to supporting sports performance and preventing fatty liver disease will also be presented. A third speaker from George Mason University will present information on the sources of choline, including food, fortified foods, and dietary supplements, and identify barriers and enablers to including choline in functional food products. Session 005, “Limiting in the American Diet: Calcium, Dietary Fiber, Potassium, Vitamins E and D. Why?” on Sunday, July 12, from 7:15 a.m. to 8:15 a.m., will review data showing the percent of the population not meeting recommendations for calcium, dietary fiber, vitamin D, potassium, and vitamin E. The speakers will help generate ideas on how to incorporate these nutrients into foods and beverages for specific age groups that lack these nutrients.
INNOVATIVE, HIGH-QUALITY nutrients couple with DSM’s consumer insights to help food and beverage products meet consumer health and wellness goals. The company is an integrated premix, vitamin, and nutraceutical manufacturer capable of creating and delivering tailor-made formulations. Blend in DSM’s extensive scientific expertise, technical know-how, global presence, and total quality assurance for your peace of mind. The company offers ingredients and solutions for cognition, children’s health, men’s and women’s health, heart health, vision, healthy aging, beauty, and more. DSM Nutritional Products, dsm.com/human-nutrition, Booth 2839

A LEADER IN functional ingredients, AIDP specializes in developing innovative solutions for healthy aging and addressing formulation challenges. AIDP’s vast resources and highly regarded reputation in the industry place the company ahead of the curve in identifying new product segments and developing proven compounds. AIDP’s success is grounded in its depth of experience and commitment to strong science for functional product development.

The patented ingredient Magtein was just awarded GRAS status from the FDA and is the only form of magnesium shown to effectively cross the blood-brain barrier. It has been shown to increase brain synaptic density. Four published research studies have demonstrated Magtein’s ability to improve short-term and long-term memory, recognition, and learning, as well as alleviate anxiety in animal models. Magtein has a clean taste and is odorless, highly soluble, and safe, making it the ideal cognitive ingredient for beverages.

AIDP is offering two new products to the enVantec nano line. Curcumin and CoQ10 have typically had absorption challenges. Now enVantec curcumin and...
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CoQ10 offer a superior bioavailability and solubility. enVantec’s proprietary micro-encapsulation process removes all previous functional application barriers. enVantec ingredients outperform other sources to deliver a superior product.

Also new is AIDP’s TastiMin Glycinate line that includes four minerals that are highly soluble, tasteless, and stable. TastiMin Calcium Glycinate, TastiMin Magnesium Glycinate, TastiMin Zinc Glycinate, and TastiMin Iron Glycinate offer all the benefits of the mineral without any off flavor notes or mineral taste. TastiMin Glycinates are an excellent solution for use in foods, drinks, and dietary supplements. They do not interact with the finished product’s original flavor, and they have good solubility in water-based beverages. AIDP, aidp.com, Booth 3209

CRACKERS AND BEVERAGES will feature some of BI Nutraceuticals’ newest food and beverage ingredients. First, a Kale Graham Cracker featuring the company’s new Kale Powder, which is part of its U.S. farm-fresh line of fruit and vegetable powders, as well as Psybroid Psyllium Fiber. BI Nutraceuticals will also be sampling two beverages, one featuring Pumpkin Seed Protein in a coconut milk–based protein drink and another one featuring a unique ingredient from South America, Guayusa Powder. Stop by to enjoy some of the samples created by BI Nutraceuticals’ Certified Food Scientist and learn more about the high-quality ingredients the company has to offer. BI Nutraceuticals, botanicals.com, Booth 1053

A DATABASE OF nutritional information, Nutri-Knowledge from Watson makes researching vitamins, minerals, botanicals, and other macronutrients and micronutrients quick and easy. All the information is in one place and organized for efficient review of content. Watson’s Nutri-Knowledge database is easy to navigate and provides information such as an overview of each nutrient, alternative names, common forms of that nutrient, recommended intakes, health benefits, deficiencies, and links to recent studies. Information can be obtained by direct search for a nutrient by name, by selection of a nutrient from a list, or by selection of a health condition. If a health condition is selected, a list of micronutrients and macronutrients related to that topic is displayed. Examples of condition-specific searches include bone health, eye health, and immunity, as well as women’s health and men’s health.

Nutri-Knowledge can be accessed from the company’s homepage or watson-inc.com/nutri-knowledge. Watson will be showcasing Nutri-Knowledge on touch-screen displays at its booth. Visitors will be able to search the database and gain hands-on experience using this tool. Watson, watson-inc.com, Booth 1243

“LIVE NEWTRITION” IN BASF’s “kitchen” will feature concepts and solutions. BASF’s broad portfolio of naturally derived and synthetic ingredients for foods, beverages, and dietary supplements includes vitamins A, B, D, E, and K, mixed carotenoids, lutein, lycopene, plant sterols, Tonalin CLA, and omega-3 fatty acids. Performance ingredients include whipping agents, aerating emulsifiers, enzymes, and process aids for beer and wine. Learn about “SET” for applied sustainability. BASF, newtrition.basf.com, Booth 701

NUTRITION AND PHYTONUTRIENT ingredients include GrandFusion Vegan Protein, GrandFusion Complete, GrandFusion Nutrient Powder, omega-3 powders, and pet food blends. NutriFusion’s GrandFusion Vegan Protein is a non-genetically modified and gluten- and lactose-free powder. It is an alternative to anabolic steroids and can be added to drinks and smoothies, sprinkled over food, used in baking applications, or added to nutrition bars for an extra boost of protein. GrandFusion Complete is a complete package meal replacement powder containing plant-derived omega-3, omega-6, and omega-9 fatty acids, and edestin and albumin proteins. The high-fiber, easy-to-digest, vegan-safe, and low-glycemic-load powder is rich in zinc, iron, and magnesium and can be added to juice drinks, milk shakes, soups, and cereals. GrandFusion Complete comes in various flavors and a flavorless version for use by both consumers and food processors. NutriFusion, nutrifusion.com, Booth 658

CREATING PURE, NATURE-IDENTICAL ingredients that are widely used by people who are health conscious and are looking to promote longevity is a focus of ChromaDex. When it comes to adding life
to your years, nobody leads the way like ChromaDex. ChromaDex created the world’s first and only commercially available nicotinamide riboside, a vitamin B3 metabolite called **NIAGEN**. In addition to anti-aging and metabolism, nicotinamide riboside has been shown to offer numerous other health benefits such as increased endurance due to enhanced mitochondrial functioning, improved cognitive function due to protection against age-related axonal degeneration, and improved cardiovascular health. *ChromaDex, chromadex.com, Booth 4416*

**A PREMIER INTERNATIONAL** innovator, Pharmachem Laboratories is a manufacturer and supplier of the finest-quality ingredients. The company delivers optimal solutions tailored to meet product developers’ needs across a complex matrix of industries, including nutrionals, foods and beverages, flavors, and fragrances. Last year, the FDA issued a GRAS notice to Pharmachem for its **Phase 2 Carb Controller** white kidney bean extract. Aimed at the healthy weight loss market, **Phase 2 Carb Controller** has been clinically shown to reduce the digestion and absorption of carbohydrates by up to 66%. *Pharmachem Laboratories, pharmachemlabs.com, Booth 1917*

**AN INGREDIENT INNOVATOR**, PLT Health Solutions’ global network of strategic partnerships provides unique access to impactful solutions. By delivering an unsurpassed mix of expertise, resources, and service, PLT Health Solutions is committed to helping both its strategic partners and valued customers grow. The company is a trusted discoverer, developer, and marketer of high-quality, scientifically supported ingredients that enhance health and functionality. Blood sugar management, bone health, heart health, and cognitive support are just some of the health concerns addressed by PLT’s portfolio of ingredients. *PLT Health Solutions, plthealth.com, Booth 1006*

**CUSTOM NUTRIENT PREMIXES**, microencapsulated nutrients, and direct compression granulations are some of the ingredients offered by The Wright Group, an industry leader in the development of custom nutrient premixes, the enrichment of rice and grains, and the microencapsulation of vitamins, minerals, and omega-3. The company also offers a complete line of bakery applications. *The Wright Group, thewrightgroup.net, Booth 1734*

**A RANGE OF** nutrition-enhancing ingredients will be featured in **Ignited Protein Cookie** and **Juiced Ice Pop** prototypes from Glanbia Nutritionals. **HarvestPro CA Crisp 60** vegan chia and amaranth crisp has 60% protein, providing great taste and texture. It is gluten-free and contains no GMOs. **Ignitor** is a blend of proteolytic enzymes designed and optimized to efficiently release branched chain amino acids and glutamine from protein. *BarGAIN*
A Healthy Assortment of Functional Ingredients continued...

381 is a blend of whey and soy proteins. At 83% protein, it enhances texture, flavor, and shelf life of bar and bakery applications.

The company’s CapsiAtra is a dihydrocapsiate compound found in CH-19 peppers that enhance glycogen sparing, promoting an increase in energy production. BevWise I-300W is a patent-pending ingredient that addresses processing and flavor challenges in intermediate pH beverages and frozen desserts, providing a smooth and pleasant flavor.

OatPure gluten-free oats are independently certified to contain less than 10 ppm of gluten. The Irish oats are grown, harvested, and milled through Glanbia Nutritional’s NSF-certified, gluten-free OatSecure closed loop supply chain process, offering the highest purity and full traceability.

Glanbia Nutritionals also offers BevGrad Chia, a super finely cold milled white chia seed with minimal visual impact that delivers smooth texture and allows for easy incorporation into powdered or liquid formulations, without compromising taste or nutrition. It is a source of vegetarian alpha linolenic acid omega-3, an excellent source of fiber and protein, and rich in calcium with nutrient levels superior to milk. The ingredient is food safe through MicroSure Plus validated 5-log heat treatment.

MenaQ7 Vitamin K2 is a highly pure and bioavailable form of vitamin K2, menaquinone-7, or MK-7. It is essential for the body to utilize calcium to build strong bones and to inhibit calcium deposits in the arteries.

OptiSol 3000 is a healthful, cost-stable whole egg replacement system that provides emulsification and structure to products while improving texture and mouthfeel. It is significantly lower in fat and cholesterol than dried whole eggs and adds nutritional benefits of fiber, protein, and alpha linolenic acid omega-3. Truebroc is a powerful high-quality antioxidant derived from broccoli seeds that contains 13% glucoraphanin, an important phytonutrient that works naturally with the body’s protective enzyme systems. TruCal milk mineral complex is derived from a natural dairy source offering a balanced mineral profile that maximizes the health potential of essential minerals such as calcium, magnesium, phosphorous, and other trace minerals by ensuring optimum absorption by the body. It is flavorless, contributing to clean-tasting and appealing end products.

The company’s Flavor Artistry group has in-depth knowledge of flavor ingredients for proteins and grains and creates optimal solutions to address flavor challenges in beverages, bars, bakery, and other applications. Glanbia Nutritional, glanbianutritional.com, Booth 2331 FT