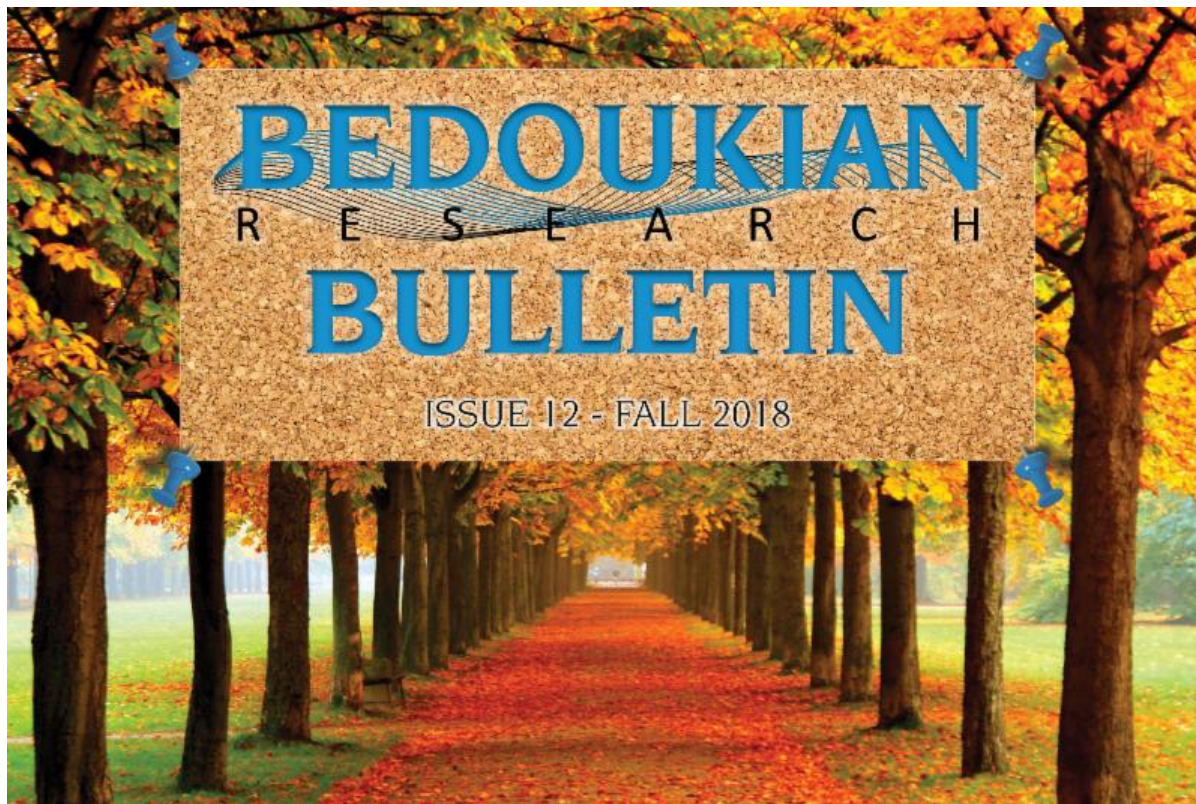


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This issue of the Bedoukian Bulletin features three of Bedoukian's specialty flavor ingredients: 12-Methyltridecanal, 2,4-Nonadienal, and 2,4-Undecadienal.



Flavors To Savor Collection

Fall has arrived and as sweater weather quickly approaches, consumers are beginning to cozy up indoors and embrace savory, hearty foods. Protein continues to be a hot topic. Meat and poultry products are protein powerhouses and Paleo and Ketogenic diets are trending. According to Packaged Facts, total retail sales of meat, poultry, and meat substitutes will be shy of \$100 billion in 2021. U.S. retail sales of products with Paleo in the brand name rose 8% to \$11.6 million in 52 weeks ending June 11, 2017, but this figure could reach \$4 billion by 2020, according to IRI. In addition, time-crunched consumers are looking for convenient and portable snacks and meals. The meat snack category has posted compound annual sales growth of more than 7% during the past four years, with sales growth of 3.5% for the year ending February 25, 2017, according to Nielsen. In addition, meat snacks, which include jerky and sticks were worth \$2.8 billion in 2017. Quick Service Restaurants (QSR) are experimenting with a variety of chicken sandwiches with many highlighting fried applications while easy-to-prepare and frozen meals heat up grocery aisles.

Inspired by current lifestyle trends and activity in meat and poultry-based products, Bedoukian introduces the **Flavors To Savor Collection**. This collection focuses on savory flavor directions with a focus on grilled and fried notes. This collection features a variety of versatile ingredients that can be used in a range of formulations.

Bedoukian 12-Methyltridecanal (BRI 284MCT)



INGREDIENT CHARACTER

WAXY, FATTY, SAVORY GRILLED MEAT NOTES WITH A HINT OF CITRUS AND CILANTRO.

Beef and **poultry** snacks are beefing up as consumers are looking to incorporate more protein in their diet. Fueled by Paleo and Ketogenic diets, there's been a variety of activity in meat bars and chips.

Simply Snackin offers a four sku line of dried chicken breast snacks made with dried fruit, vegetables, and savory spices that are "smoked and leisurely roasted." The snack bars are offered in: **Chicken Breast with Black Bean Salsa**, **Chicken' N Cherries with BBQ**, **Italiano Chicken with Romano**, and **Teriyaki Chicken Breast with Mangos** varieties. In Canada, **GreenSpace Brands** introduced **Meatbar™**, a premium meat-based snack in three flavors: **Original**, **Sriracha**, and **Sweet & Savory**. **Chef's Cut Mini Sticks** are new jerky snacks available in two varieties: **Original Smokehouse** (beef & pork) and **Barbecue** (chicken).

Wilde recently launched **Chicken Chips**, which are lightly crisped chicken breasts combined with cassava root tapioca flour and seasonings. Chicken Chips are available in four flavors: **Barbecue**, **Buffalo**, **Jalapeño**, and **Sea Salt & Vinegar**. **Gone Rogue® High Protein Chips** are self-described as "[chips that] combine the crunchiness of a potato chip with the protein-rich benefits of jerky." The single-serve packages come in six flavors: **Applewood Smoked Ham**, **BBQ Flavored Chicken**, **Buffalo Style Chicken**, **Chicken Bacon**, **Honey Mustard Ham**, and **Teriyaki Chicken**. **Tyson Innovation Labs**, introduced **Yappah**, a brand of protein crisps made from "rescued and upcycled vegetables and grain-based ingredients." To make Yappah's flavors, Tyson provides chicken breast trim that is blended with rescued vegetable purée or spent grain from Molson Coors Brewing Co. There are four flavors: **Chicken Carrot Curry**, **Chicken Celery Mojo**, **Chicken IPA White Cheddar**, and **Chicken Sunshine Shandy Beer**.

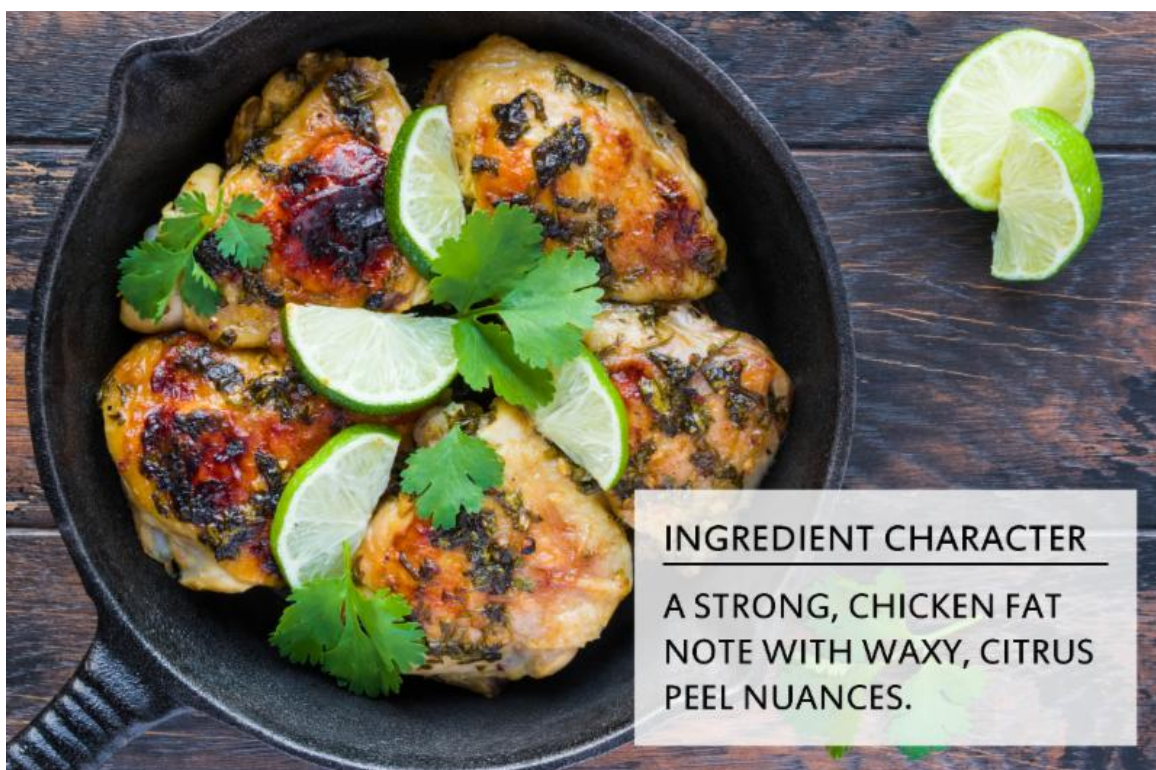
In the QSR segment, **Wendy's** introduced **The Harvest Chicken Salad**, which features sliced grilled chicken, diced red and green apples, brown sugar walnuts, dried cranberries, feta cheese and applewood smoked bacon topped with an apple cider

vinaigrette dressing. **Chick-fil-A** added a **Spicy Chilled Grilled Chicken Sub** to its menu. The sandwich features a boneless spicy chicken breast marinated with Chick-fil-A's blend of seasonings and served chilled on a multigrain baguette with pepper jack cheese, baby greens, and sliced tomatoes.

DID YOU KNOW? Bedoukian's [12-Methyltridecanal](#) is excellent at capturing naturalistic, fatty nuances used to enhance the grilled meat character found in a variety of savory products, such as tallow, chicken, and beef. It is also great for broths and stews, adding an authentic hearty character - creating a fuller, more desirable taste. **Serious about your savory formulas? Give Bedoukian's 12-Methyltridecanal a try!**

[CLICK HERE FOR A SAMPLE](#)

Bedoukian **2,4-Nonadienal FCC** (BRI 363)



For time-crunched consumers, brands are launching easy-to-prepare savory chicken and beef meals and snacks.

StarKist® dropped **Chicken Creations™** ready-to-eat pouches, the brand's first foray outside of seafood. The line features premium white chicken in four flavors: **Bold Buffalo Style**, **Chicken Salad**, **Ginger Soy**, and **Zesty Lemon Pepper**. **Carl Buddig & Company** and **Kingsford**, the well-known charcoal brand, partnered to create a line of Kingsford branded pre-cooked ribs and barbecue entrees. The 14 sku line features pork, beef and chicken varieties that highlight a hardwood, slow-smoked taste. To make Crock-Pot cooking even easier, **Crock-Pot** crafted a line of mealtime solutions that highlight spice blends and seasonings. Consumers just need to add a protein and other readily available ingredients such as water, butter or milk. There are seven varieties: **Beef Burgundy**, **Beef**

Chili, Chicken Cacciatore, Chicken & Dumplings, Chicken Marsala, Jambalaya, and White Chicken Chili.

There has been a hotbed of activity in the frozen aisle. According to IRI, the multi-serve frozen dinners/entrees, posted a 3.69% dollar sales gain to just more than \$2 billion in the 52 weeks ending December 3, 2017. **Tyson** recently released a frozen meal kit line in nine varieties: **Chicken Pomodoro, Citrus Roasted Chicken, Crispy Adobo Chicken, Four Cheese Chicken & Broccoli Pasta, Lemon Parmesan Chicken, Roasted Ginger Chicken, Seasoned Steak Fillets with Mushrooms, Sweet Chipotle Chicken & Vegetable Hash, and Tomato Herb Chicken & Vegetable Pasta.** In addition, **Buffalo Style Ranch Chicken, Cheddar Bacon Ranch Chicken, and Pepperoni Mozzarella Chicken** are new flavors to join **Tyson's Any'tizers®** line. **Stouffer's** launched the **Urban Bistro** collection of eight single-serve, culinary-inspired meals. **Beer Glazed Meatballs** is described as beef meatballs simmered and reduced in Black Forty Beer Co.'s Truck Stop Honey Brown Ale while **Kentucky Bourbon Glazed Chicken** is grilled white meat chicken and pecans in a bourbon sauce with roasted sweet potatoes. **Chicken & Cheddar Grits** features grilled white meat chicken, carrots and green beans in an herb sauce over cheesy grits and red quinoa.

DID YOU KNOW? Bedoukian's [2,4-Nonadienal FCC](#) is great for adding body and rounding out flavors in a variety of **savory applications**. In addition to its savory character, Bedoukian's 2,4-Nonadienal FCC is useful for adding waxy, peel notes to citrus flavors, especially orange and tangerine. **Want to warm up your formulas? Give Bedoukian's 2,4-Nonadienal FCC a go!**

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Bedoukian **2,4-Undecadienal** (BRI 365)



Fried chicken has been having a moment. Fine-dining chefs as well as QSRs are embracing it. According to Euromonitor International, chicken sales at limited-service restaurants and burger-centric eateries, jumped 42.1% between 2011 and 2016 with a significant portion coming from fried chicken. Southern fried chicken is the most popular inspiration for chicken sandwiches, tenders, and nuggets. Fried Chicken is so popular that it has its own national food holiday celebrated annually on July 6.

This summer, **KFC** launched a limited edition **Pickle Fried Chicken** sandwich, which highlighted classic Extra Crispy Chicken with pickles and a pickle sauce. In September, **Shake Shack** test marketed its new **Chick'n Bites** a.k.a. **Shack Nugs**, which will roll out to other U.S. locations in October. **Burger King** just launched new **Crispy Chicken Tenders**. **Taco Bell** has been test marketing its **Chicken Tortada** at select locations in Kansas City, Missouri. The soft flour tortilla is stuffed with Naked Chicken Chips, red tortilla strips, lettuce, cheese, pico de gallo, and a choice of Avocado Ranch or Mango Habanero sauce. **Subway** is offering a new **Homestyle Crispy Chicken Sandwich**, which features a breaded white meat crispy chicken strip patty, cheese, salad toppings and new Smokey Honey Mustard Sauce on a choice of bread while **Blimpie** is offering a new **Sriracha Buffalo Chicken Panini**. The Sriracha Buffalo Chicken Panini showcases buffalo chicken, bacon, melted cheddar, jalapeños and sweet Sriracha sauce sandwiched between two pieces of grilled pretzel bread. **Carl's Jr.** expanded its \$5 All Star Meal portfolio with the new **Fiery Chicken Sandwich All Star Meal** that is made with a spicy chicken patty topped with melted pepper jack cheese and pickled jalapeños on a toasted bun.

Fried Chicken is even fashionable. In April 2018, **Glossier**, the cult-followed beauty brand, collaborated with **Rhea's Café**, the San Francisco restaurant known for its buttermilk fried chicken sandwich, for a month long pop-up store.

This culinary delight is inspiring packaged foods such as ice cream and potato chips. **Coolhaus** ice cream offers a **Fried Chicken and Waffles** flavor made with brown butter maple ice cream, maple candied chicken skins and caramelized waffles. In the snack arena, **Pringles** launched a limited edition **Nashville Hot Chicken** potato chip and similarly **Kroger** offers **Nashville Style Kettle Cooked Hot Chicken Potato Chips**. In China, **Mondelez International** launched a **Hot Chicken Wing** flavored **Oreo** cookie, which features an orange-colored hot chicken wing-flavored creme center.

DID YOU KNOW? An excellent addition to savory flavors - imparting authentic, buttery, fried chicken fat notes, Bedoukian's [2,4-Undecadienal](#) can also be useful in various nut formulations, especially hazelnut due to its fatty character. **Looking to satisfy your palette? Indulge in Bedoukian's 2,4-Undecadienal!**

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