

Bicoll GmbH Introduces Innovative Natural Sweet Modulation Patent Application

Planegg / Martinsried, Germany - Bicoll GmbH is pleased to announce the release of a significant patent application in the field of natural sweet modulation compounds.

In today's industrialized societies, dietary and lifestyle choices contribute to numerous health issues. A surge in weight gain, cardiovascular complications, insulin resistance, and type 2 diabetes, among others, has been closely linked to the detrimental effects of a high-sugar diet. Despite these health concerns, there remains a persistent demand for sweet-tasting food and beverages, which consumers find highly desirable. The need to address this paradox by providing healthier alternatives that retain the desired sweetness without compromising taste has become increasingly evident in our society and industry.

The remarkable joint innovation (Dihydrochalcone derivatives, WO2023065059A1) received support from the "SimLeap" Project, a venture that sought to explore and identify appealing plants or preparations from the unique biodiversity of Asian plants. The "SimLeap" Project, a collaboration involving Symrise, Charité, and Bicoll, had a total budget of €1.6 million, co-funded by the German Federal Ministry of Research.

The primary aim of this invention is to offer compounds that effectively modulate sweetness, enhancing the sweet profile of various substances, including sweeteners. Beyond their sweet modulating properties, these compounds excel in enhancing the overall taste experience by skillfully adjusting other sensory attributes. These include reducing acidity, minimizing bitterness, and enhancing mouthfeel, thereby elevating the sensory appeal for consumers. What sets this innovation apart and one of the most remarkable aspects is its natural origin, exclusively derived from plant extracts.

The goal is clear: strengthen the intensity of sweet flavors, improve mouthfeel, reduce sourness, and mitigate bitter or unpleasant aftertastes. It is a straightforward approach to enhance the overall deliciousness of sweet products. With the publication of this patent application, the consortium has achieved an important milestone in the collaborative commercialization of this shared patent. Going forward, Bicoll is committed to working with industry partners to incorporate these compounds into a wide range of food and beverage products, offering healthier and more enjoyable options to consumers worldwide.

About Bicoll GmbH:

Bicoll GmbH is a pioneering and privately-owned biopharmaceutical company headquartered near Munich in Planegg / Martinsried, Germany. Specializing in natural product-based drug discovery, Bicoll offers pre-clinical support with an efficient, multi-disciplinary approach to drug discovery. Our dedication to sustainable and health-

conscious innovation extends to various industries, including food and beverage, pharmaceuticals, cosmetics, and agrochemicals.

We are committed to the discovery and optimization of the highest quality lead compounds, providing essential services to international clients in the pharmaceutical, agrochemical, and related industries. Our unique blend of expertise in high-tech natural product chemistry, as well as medicinal chemistry, empowers Bicoll to enhance both the quality and quantity of drug discovery pipelines for our partners' candidate portfolios. Bicoll's mission is to drive innovation while addressing the pressing needs of diverse industries, exemplified by our pioneering work in natural sweet modulation and other areas of research.

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