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Nihon Nohyaku Co., Ltd. Develops Technology for Producing High-Value-Added Compounds in Collaboration with RIKEN

Nihon Nohyaku Co., Ltd. (Nihon Nohyaku) is working on the development of technology for the production of high-value-added compounds using synthetic biology from natural-derived materials through open innovation with Shunji Takahashi Unit Leader of Natural Product Biosynthesis Research, Environmental Resource Science Center, RIKEN. We are pleased to announce that we have made certain progress in this initiative and have filed a patent application that will contribute to commercialization.

This technology aims to utilize sustainable resources and reduce environmental impact by using natural-derived materials and combining the expertise of enzymes capable of catalyzing homogeneous and stable chemical synthesis and specific structural transformations to produce high-value-added compounds. It is particularly notable for its ability to efficiently produce rare compounds with complex structures that are difficult to synthesize chemically. As outlined in our mid-term management plan "Growing Global for Sustainability (GGS) ," we aim to commercialize this technology first in the fragrance and cosmetics fields. In the future, we plan to expand its application to various fields, including crop aid products and pharmaceutical ingredients.

In recent years, there has been a shift from a society characterized by mass production, mass consumption, and mass disposal to a circular society that efficiently utilizes resources and reduces environmental impact. In this context, Nihon Nohyaku aims to contribute to the achievement of a sustainable society and the conservation of the global environment, as outlined in the SDGs, by providing technology for the utilization of natural products, thereby balancing the resolution of social issues with economic growth.

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