

## R&D of a new immersive solid-phase synthesis method (TKG Therapeutics, Inc.)



City	Year of Establishment	Founder	Website
Tokyo	2022	Akimitsu Okamoto/ Masaaki Matsui	<a href="https://www.tkg-na.com/en">https://www.tkg-na.com/en</a>

Partner VC	Latest round of Fundraising	Valuation
Real Tech Holdings Co.,Ltd.	Seed	JPY 300 million

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○ Business Plan

We are advancing the commercialization of an immersion solid-phase synthesis method known as the 'jabot-zuke' method. This synthesis method is anticipated to enable the production of nucleic acid materials that are capable of mass production, cost-effective, and have a reduced environmental impact. By commercializing this project, we aim to contribute to the expansion of the nucleic acid materials market, including nucleic acid pharmaceuticals.

○ Research Outline

We are going to create a prototype of an automated synthesizer utilizing the immersion solid-phase synthesis method, aiming to achieve the following Proof of Concept (PoC) goals: 1. Synthesis on a milligram scale using the prototype machine 2. Synthesis with less than 50% of the reaction reagent amount compared to conventional solid-phase synthesis methods 3. Synthesis of our company's proprietary new functional nucleic acids.

Business Area/Field	Research Period	Research Grant Amount	International collaborative technology demonstration
Materials	STS 2023~2024FY	JPY 80 million	—