

News Release

Nov 13, 2025

Company Name: Pharma Foods International Co., Ltd.

President & CEO: Mujo Kim

Stock Exchange Market: Tokyo Prime (2929)

Head Office: 1-49 Goryo-Ohara, Nishikyo-ku, Kyoto 615-8245

Contact Number: +81-75-394-8600

Pharma Foods Partners with The University of Tokyo For Next-Generation Antibody Drug Discovery

~A Leap Forward with AI and Advanced Molecular Engineering~

Pharma Foods International Co., Ltd. (Head Office: Kyoto, Japan; President and CEO: Mujo Kim; hereinafter "the Company") has initiated a **joint research project**, **effective October 2025**, with **Professor Kohei Tsumoto** of the **Graduate School of Engineering**, **The University of Tokyo**, with the goal of **establishing an innovative antibody drug discovery platform** through the integration of Al (Artificial Intelligence) and advanced molecular design technologies.

Professor Tsumoto is a world-leading authority in the fields of antibody engineering and protein biophysics. He holds unparalleled expertise and a proven track record in the molecular design of antibodies, specifically focusing on critical "developability" attributes—such as stability, and manufacturability—as well as on binding performance. His pioneering work includes the construction of sophisticated synthetic antibody libraries and the development of cutting-edge analytical technologies that have significantly propelled antibody therapeutics research.

This joint research will leverage Professor Tsumoto's advanced technologies to construct a large-scale, next-generation synthetic antibody library based on fully human scFv (single-chain variable fragment) frameworks. Crucially, the integration of Al-driven molecular design will address major bottlenecks in antibody creation - including structural stability, high binding affinity, and production efficiency - with the aim of achieving the rapid, high-quality development of innovative antibody therapeutics.

By establishing this new drug discovery foundation alongside its proprietary **ALAgene® technology**, the Company is strategically positioned to accelerate the journey toward next-generation antibody therapeutics, thereby contributing to global medical innovation and human well-being.

※ Professor Kohei Tsumoto: Graduate School of Engineering, The University of Tokyo

Department of Bioengineering / Department of Chemistry and Biotechnology

Tsumoto Laboratory: https://webpark1550.sakura.ne.jp/home-en/

** ALAgene® Technology: The Company's proprietary ALAgene® technology platform enables the creation of humanized therapeutic antibodies from chickens against diesease-causing targets that are challenging to address in mamalian systems. This platform provides a

ALAgene®

powerful and versatile approach for developing next-generation antibody therapeutics.

※ For Inquiries: Pharma Foods International Co., Ltd. Corporate Strategy Dept. - Public Relations

Email: press@pharmafoods.co.jp