

September 2nd, 2022

FOR IMMEDIATE RELEASE

Company name	Premier Anti-Aging Co., Ltd. TSE : 4934
Representative	Kiyoshi Matsuura, President
Inquiries	Yuka Uehara, Head of Corporate Communication Division and Executive Officer
Phone	+81-3-3502-2020

Notice concerning a development and commercialization of
novel dental pulp-derived stem cell culture supernatant by the research collaboration
between University of Tokyo and the consolidated subsidiary

Premier Wellness Science Co., Ltd. (Headquarter: Minato-ku, Tokyo, Chief Executive Officer: Shinji Hosoyama) , a consolidated subsidiary of Premier Anti-Aging Co., Ltd., and the University of Tokyo (President: Teruo Fujii) are pleased to announce that they have successfully developed and commercialized a new cosmetic ingredient derived from mesenchymal stem cell culture supernatant called "ENGY Stem S". The ingredient is derived from a unique dental-pulp stem cell culture supernatant, specialized for skin care, as the first result of the joint research project "Development and Commercialization of Novel Functional Materials" started on March 22, 2021.

The financial impact of this new technological development is negligible.

The University of Tokyo and Premier Wellness Sciences Co., Ltd. have successfully developed and commercialized ENGY Stem S, a unique dental pulp-derived stem cell culture supernatant, specialized in skin care.

~Demonstrated usefulness in human studies and identified new possibilities for skin care~

Premier Wellness Science Co., Ltd. (Headquarter: Minato-ku, Tokyo, Chief Executive Officer: Shinji Hosoyama, hereinafter “PWS”) and the University of Tokyo (President: Teruo Fujii) are pleased to announce that they have successfully developed and commercialized a new cosmetic ingredient derived from mesenchymal stem cell¹ culture supernatant². The new ingredient, ENGY Stem S, is a unique dental pulp stem cell culture supernatant specialized for skin care. This is the first result of the joint research project that began on March 22, 2021.

Features of “ENGY StemS”; the original dental pulp stem cell culture supernatant

- Stem cell culture supernatant derived from human adult dental pulp³ that can produce more valuable factors comparing with other stem cells.
- High quality original cell culture method established by the University of Tokyo that can produce more valuable factors with high skin improvement effect.
- Traceability system that ensures transparency through collaboration with the University of Tokyo Hospital.
- High quality assurance (standardization of safety tests, INCI registration of PCPC cosmetic raw materials in the U.S., SDS safety data sheet regulations, etc.)
- Evaluated efficacy in humans and elucidated the mechanism (key factors in the culture medium).

1. Background of Joint Research and Development:

Stem cell therapy has been booming in the field of regenerative medicine. Stem cells have been the focus of attention in cell therapy, however, recently the usefulness of "stem cell culture supernatant," a culture medium containing biological active factors secreted from cells has been discovered and is expected to be as effective as transplantation of stem cells. Based on this background, it is expected to have applications in not only for medicine but also in anti-aging and others. In contrast, there are existing challenges that need further research before practical application, such as highly transparent traceability, several safety assessments, scientific evaluation of the active ingredients in the culture

¹ Cells that are the main source of body cells (somatic cells). There are different types of stem cells for different parts of the body and organs, such as fat, umbilical cord, and skin. Stem cells that are known to have the function of repairing and replenishing cells damaged by injury, disease, aging, etc.

² Medium (supernatant) containing useful factors secreted from stem cells.

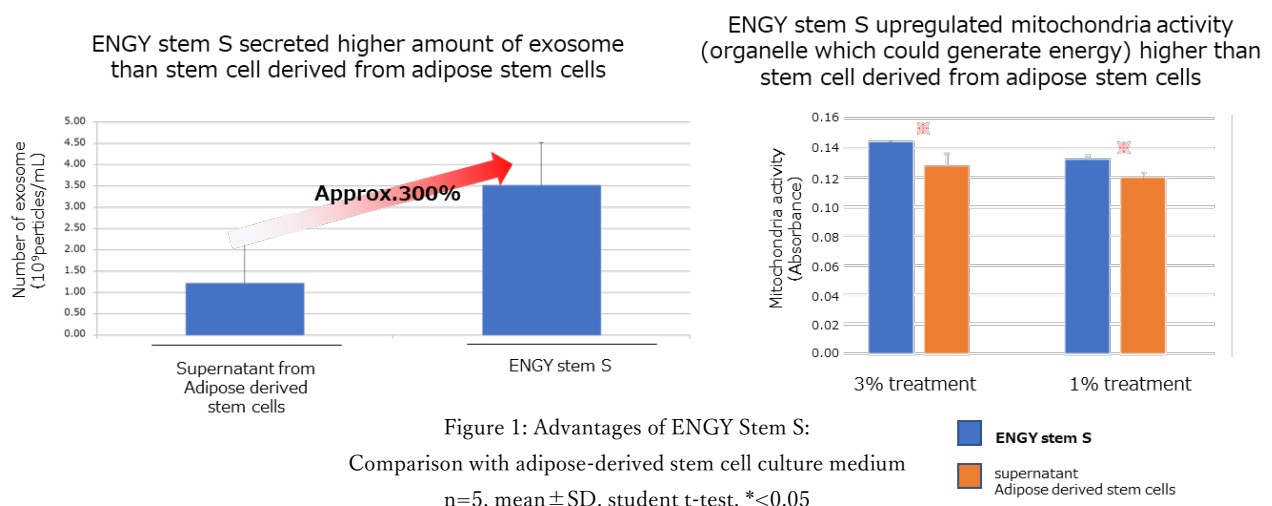
³ Nerve of the tooth

medium, and demonstration of efficacy in humans. To work through these challenges, we conducted joint research with the University of Tokyo, and as the first result of this research, we have succeeded in developing and commercializing ENGY Stem S, a unique dental pulp stem cell culture supernatant solution specialized for skin care.

2. What is ENGY Stem S?

ENGY Stem S is a stem cell culture supernatant derived from adult human dental pulp. Based on research, the dental pulp was selected because it contains more growth factors than other mesenchymal-derived stem cell culture supernatants like fat and bone marrow. Furthermore, we help develop University of Tokyo's original cell culture method as well as our own stem cell culture supernatant "ENGY Stem S," which is full of nutrient-rich substances (proteins, exosomes⁴) effective for skin care (Figure 1). Throughout the research, we committed to strict quality-control measures reviewing donor management and traceability in collaboration with the University of Tokyo Hospital. Furthermore, we have succeeded in identifying factors useful for skin care by identifying all proteins in stem cell culture supernatant, which had rarely been conducted previously.

Origin	Human adult dental pulp stem cells
Culture method	The University of Tokyo's original culture medium and culture method (cannot be disclosed due to IP rights).
Contained protein species	More than 2,145 proteins (global analysis by DIA proteome analysis ⁵).
Traceability	Donor with consent obtained at the University of Tokyo Hospital. Transparent traceability through ID management.
Safety	Meet safety criteria for biological products, such as microbiological and viral tests. Meet safety criteria for topical application such as primary skin irritation and skin sensitization.



3. Development of skin care products based on the results of research results:

⁴ Exosomes are Lipid-encapsulated capsules that are released from cells for communication with each other cells. Exosomes contain mRNA and protein and have the function of transmitting information between cells. In recent years, exosomes have become known as a factor controlling the regenerative function of stem cell culture supernatant.

⁵ : Cutting-edge analysis technology that can analyze and identify global proteins contained in a solution to determine what kind of proteins are contained and in what quantities. It is widely used in medical research such as cancer and Covid-19 research.

ENGY Stem S is planned to be commercialized in Premier Wellness Science's new brand to be launched this fall.

4. Overview of Both Parties:

■ Premier Wellness Science Co., Ltd.

Founded	December 2020
Chief Executive Officer	Shinji Hosoyama
Address	Tranomom Hills Mori Tower, 1-23-1 Toranomom, Minato-ku, Tokyo, Japan
Specialization	R&D and product development of product categories, such as health, beauty, anti-aging, sports, and business consulting services
URL	https://www.p-wellnessscience.co.jp/
Ownership	Premier Anti-Aging Co., Ltd. (TSE Growth: 4934)

■ The University of Tokyo

President	Teruo Fujii
Address	7-3-1 Hongo, Bunkyo-ku, Tokyo
PI	Professor Kazuto Hoshi, Department of Oral and Maxillofacial Surgery and Orthodontics, The University of Tokyo Hospital
URL	https://www.u-tokyo.ac.jp/

5. For interviews and inquiries regarding this release:

Premier Wellness Sciences, Co., Ltd.
PR/IR contact: pws-prir@p-wellnessscience.co.jp As part of our measures to prevent the infection of the new coronavirus, our group is working by telework. Please contact us by using the above e-mail address for inquiries.

6. Regarding This Release:

The information in this news release is current as of the date of publication. It is subject to change without notice due to various factors. Please understand this in advance.