

3 October 2025

To Whom

オリーザ油化株式会社

**(Femberry®/Strawberry Guava Extract)****Hair growth effects confirmed in humans, Patent application!**

Oryza Oil & Fat Chemical Co., Ltd. (Headquarters: Ichinomiya City, Aichi-prefecture, Japan; President: Hiromichi Murai; hereinafter referred to as “Oryza Oil & Fat Chemical”) has recently filed a patent application for FEMBERRY® (Strawberry Guava Extract) based on the discovery of significant hair growth-promoting effects in a clinical trial (oral intake) conducted with an external CRO.

Oryza has previously identified various functions of FEMBERRY®, including: ①prevention of sensitivity to cold (promotion of body temperature recovery), ②improvement of edema (anti-swelling effect), ③enhancement of blood circulation, and ④inhibition of platelet aggregation. In October 2023, Oryza launched the extract as FEMBERRY®, a Femtech (female technology) functional ingredient. Noting that strawberry guava contains adenosine as one of its main active compounds. Oryza focused on its potential hair growth benefits and has now elucidated the following results.

■ Hair Growth Effects of FEMBERRY®

FEMBERRY® is a fruit extract derived from domestically grown strawberry guava, which Oryza has been marketing as a Femtech ingredient for the past two years. Last year, the company announced its hair growth-promoting effects in mice (Figures 1 and 2). Building on these findings, Oryza conducted a clinical efficacy study in humans, which was funded by the FY2024 Aichi Prefecture Creative Development Subsidy Program.



Fig 1. Hair growth effect of FEMBERRY®

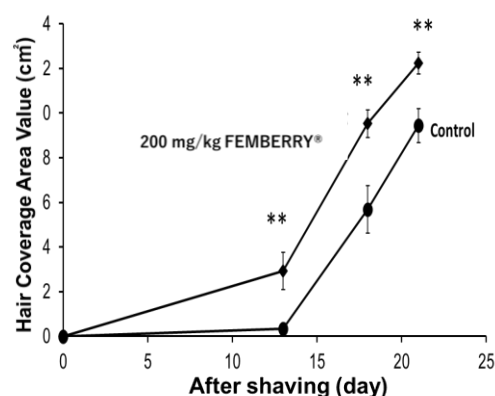


Fig 2. Effect of FEMBERRY® on Body Hair Area

The study was conducted as a single-arm trial, and changes before and after intake were compared. The intake period was 24 weeks, 21 male subjects took a tablet containing FEMBERRY® (100 mg) daily. The hair growth rates were analyzed two days after shaving using phototrichogram method via microscope image analysis. After 24 weeks of intake, the hair growth area (Figure 3), the number of hairs (Figure 4), and the total hair width (Figure 5) were significantly increased compared to before intake (two days after shaving). Additionally, the hair growth effects can also be confirmed in Figure 6.

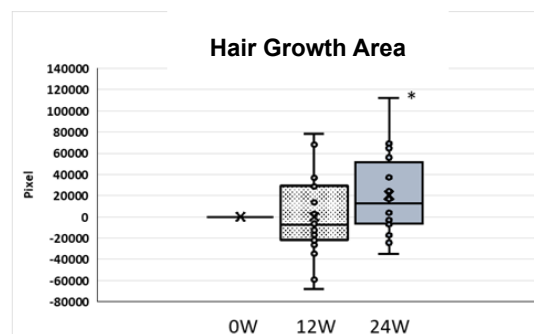


Figure 3. Changes in hair growth area with Femberry®-P. Results are shown as median and quartile. *: $p < 0.05$

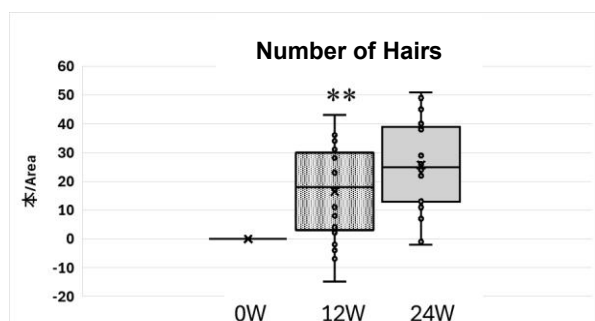


Fig 4. Number of Hairs with Femberry®-P.

Results are shown as median and quartile. ** $p < 0.01$.

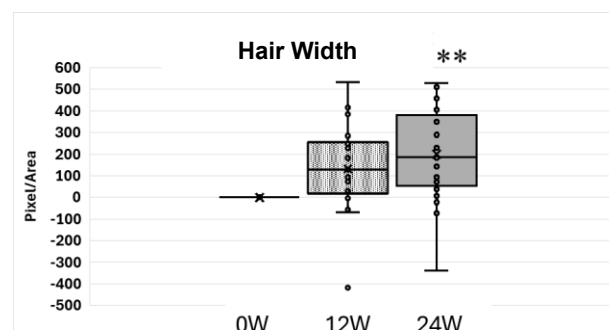


Fig 5. Hair Width with Femberry®-P.

Results are shown as median and quartile. ** $p < 0.01$.

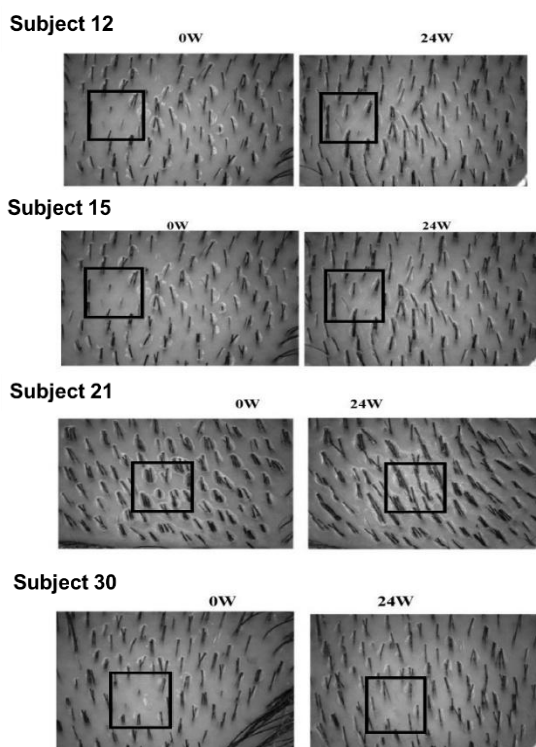


Figure 6. Comparison of Microscope Images After Femberry®-P Intake

Furthermore, hair growth effects of the vertex area were also observed in macroscope images (Figure 7). Supported by extensive research data, Oryza plans to submit these results to next year's Japanese Pharmaceutical Society conference. It intends to widely promote FEMBERRY® product as an edible hair growth ingredient both domestically and globally.

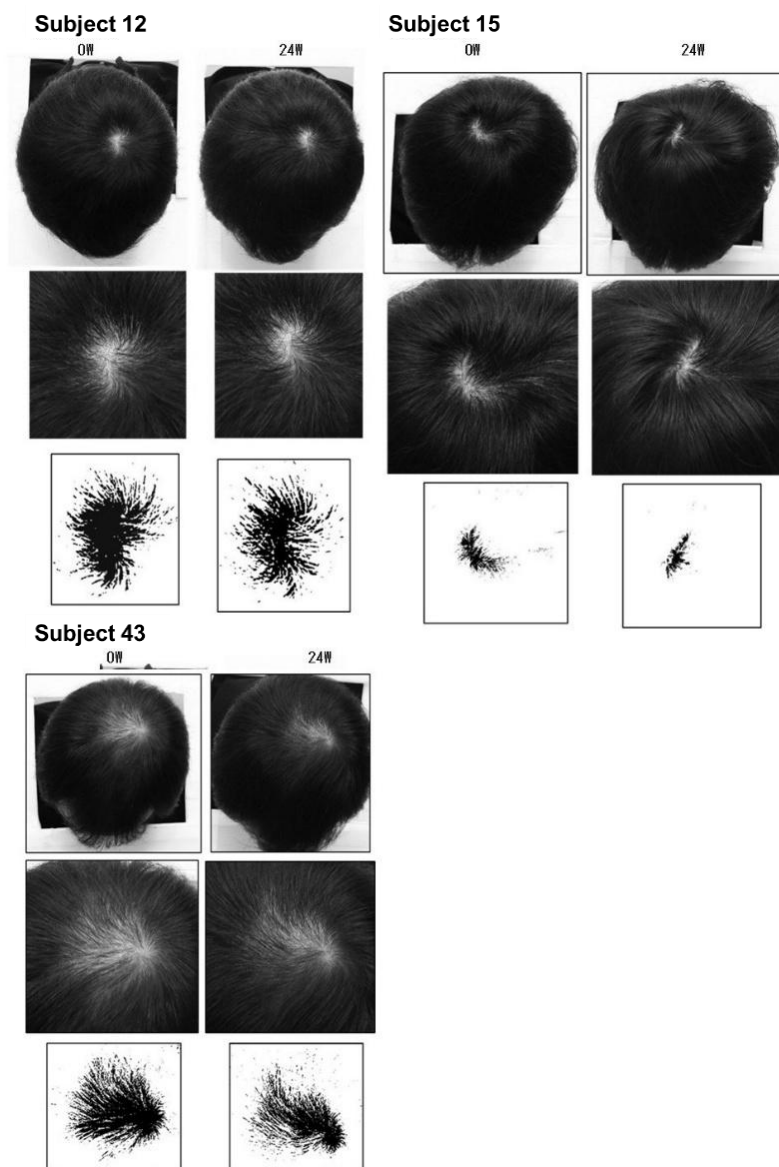


Figure 7. Remarkable Hair Regrowth Results with Femberry®-P

About FEMBERRY®

FEMBERRY® was launched in 2023 as a “femtech material”. Its raw material, Yellow Strawberry Guava, is the fruit of *Psidium littorale* (Myrtaceae), also known as Kibanjiri (黄蕃石榴). In previous human trials, we found that FEMBERRY® has the effect of alleviating sensitivity to cold and swelling. We also clarified that its active components: adenosine which inhibits platelet aggregation, glucosylceramide (GlcCer), and digalactosyldiacylglycerol (DGDG) which improve vascular barrier function.



Strawberry Guava