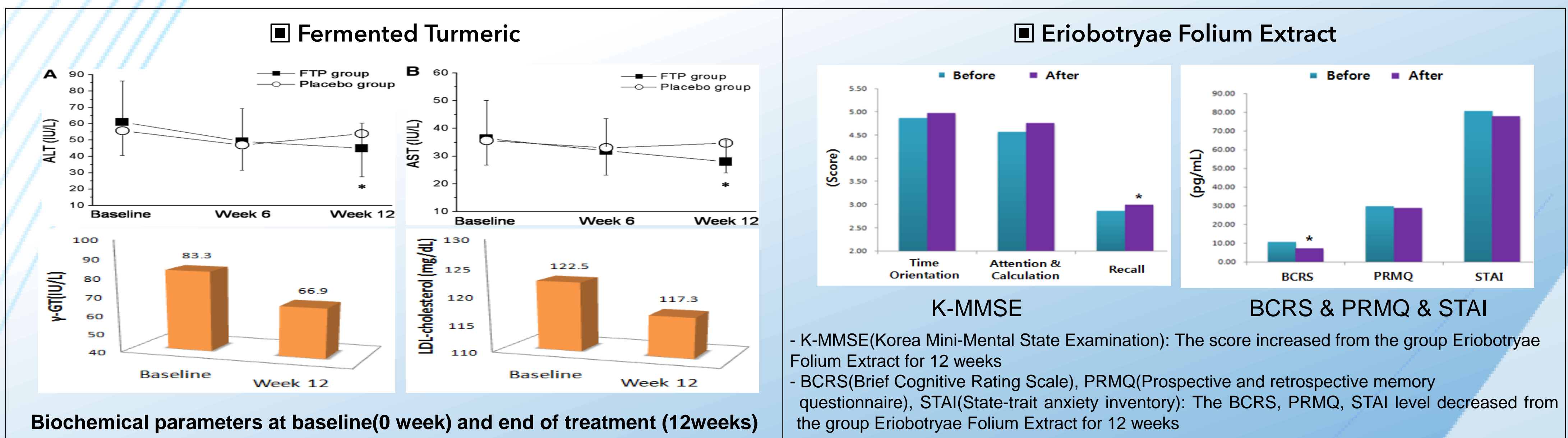


Health Functional Food Resource

Technology Overview

- Fermented Turmeric :
Raw Material : *Curcuma longa* L.
The turmeric powder was fermented by *Aspergillus oryzae* followed sterilization
- Eriobotryae Folium Extract :
Raw Material : *Eriobotrya japonica* L.
The *Eriobotrya japonica* L. leaf was extracted by ethanol and dried
- These materials were obtained recognition as a Health Functional Food from the MFDS (Ministry of Food and Drug Safety) of South Korea

Core Technologies (Human Clinical Test)



Application Area and Advantages

- **Fermented Turmeric**
Development of improved liver health functional food
- **Eriobotryae Folium Extract**
Developed for youth memory improvement health functional food



Accomplishments

- **PAPER**
 - Fermented Turmeric
 - Hepatoprotective effects of fermented *Curcuma longa* L. on carbon tetrachloride-induced oxidative stress in rats(Food Chemistry, 151, 148-153, 2014)
 - Prevention of Ethanol-induced Hepatotoxicity by Fermented *Curcuma longa* L. C57BL/6 Mice(Food Sci. Biotechnol. 23(3), 925-930, 2014)
 - The effectiveness of fermented of turmeric powder in subjects with elevated alanine transaminase levels: a randomised controlled study(BMC Complementary and Alternative Medicine, 13, 58-64, 2013)
 - Eriobotryae Folium Extract
 - Neuroprotective effects of *Eriobotrya japonica* against β -amyloid-induced oxidative stress and memory impairment(Food and Chemical Toxicology, 49, 780-784, 2011)
 - Anti-amnesic Effect of *Eriobotrya japonica* Leaf Extract on Scopolamine-induced Memory Impairment in Rats(J Korean Soc Food Nutr 43(6), 799-806, 2014)
- **PATENT**
 - Fermented Turmeric
 - A composition comprising an dry powder or extract of the fermented rhizoma of *Curcuma longa* L. for treating and preventing non-alcoholic liver disease(Patent No. KR 10-1303308)
 - A composition comprising the fermented rhizoma of *Curcuma aromatica* Salisb for treating and preventing alcoholic a liver disease(Patent No. KR 10-1117301)
 - Eriobotryae Folium Extract
 - A composition comprising the extract of Eriobotryae Folium for treating and preventing nuerodegenerative disease(Patent No. KR 10-1077522)

