

15th International Conference on

Clinical Nutrition

May 24-26, 2018 | Vienna, Austria

Effects of *Sargassum coreanum* extract on serum lipid levels in ovariectomized rats

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This study was performed to investigate the effects of *Sargassum coreanum* Ethanol (SCE) extract on serum lipid levels in ovariectomized rats, a model for postmenopausal osteoporosis. Six, nine week old female Sprague-Dawley rats were randomly assigned to four groups; the groups were sham-operated rats (SHAM), ovariectomized rats (OVX-CON) and ovariectomized rats that were treated with *Sargassum coreanum* ethanol extracts (OVX-SCE). The serum total-cholesterol, triglyceride, and low-density lipoprotein (LDL)-cholesterol levels were lower in the OVX-SCE group than in the OVX-CON group. However, serum high-density lipoprotein (HDL)-cholesterol levels were high in the OVX-SCE group. Serum ALP levels were lower in the OVX-SCE group compared to those of the OVX-CON group. Also, the levels of serum Glutamic Oxaloacetic Transaminase (GOT) and Glutamic Pyruvic Transaminase (GPT) were significantly lower in the OVX-SCE groups than in the OVX-CON group. These results suggest that SCE extract may be used to improve on the lipid metabolic syndrome of menopausal women.

Biography

Geunhye Oh completed her PhD from Ochanomizu University (Tokyo, Japan) and is Professor in the Department of Food and Nutrition of Silla University in South Korea. She is interested in natural materials such as seaweeds and land plants. She is currently conducting research on the prevention of menopause through animal and cell biological experiments.

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