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Potential anti-skin aging effect of *Nelumbo nucifera*

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Skin, which covers the entire outer surface of the body, is the largest organ. In humans, the skin interfaces with the environment and is the first line of defense against external factors. And also it plays key part in the barometer of anti-aging these days. For these reason, skin care is one of the fastest growing areas of cosmetic industry, in the twenty-first century. We have focused on the anti-aging effect of the extracts from on the anti-wrinkle and whitening activities. When the procollagen and elastase inhibition assay were measured, the fruit extract of *N. nucifera* had a concentration-dependent effect on procollagen synthesis. And all parts, leaf, fruit, and embryo of *N. nucifera*, had elastase inhibition activity. In the whitening assay, we found that melanin synthesis was reduced in cell treated these extract of fruit and embryo from *N. nucifera*. In conclusion, the extracts of *N. nucifera* overall had excellent properties. In addition to the anti-wrinkle, and whitening activities, all the *N. nucifera* extracts displayed excellent and desirable cosmetic properties. Thus, *N. nucifera* provides many cosmetical ingredients.

Biography

Eun Sil Kim belongs to National Institute of Biological Resources as a researching official, and she's in charge of establishment and management of Wildlife Natural Products Bank of the Ministry of Environment.

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