1	The effect of coix seed on whitening and anti-aging by cell model
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3	2023/03/08
4	Outline
5	One. Introduction
6	Two. Molecular Action Mechanism of Coixol from Soft-Shelled Adlay on Tyrosinase:
7	The Future of Cosmetics
8	Three. Protection Impacts of Coix lachryma-jobi L. Seed Lactobacillus reuteri
9	Fermentation Broth on Hydrogen Peroxide-Induced Oxidative Stress in Human Skin
10	Fibroblasts
11	Four. Conclusion
12	Abstract
13	The methanolic extract had the highest concentrations of flavonoids and coixol. The
14	ethanolic extract at 1 mg/mL inhibited tyrosinase activity in B16F10 melanocytes by
15	48.4% and fragments 369–377 of human tyrosinase (hTyr) by 50.7%. The human skin
16	fibroblasts (HSF) is treated with CLRF (Coix seed Lactobacillus reuteri fermented
17	extract), cell viability, total antioxidant capacity, superoxide dismutase (SOD) activity,
18	catalase (CAT) activity, collagen type I (COL-I) content, and synthesis of hyaluronic
19	acid (HA) are significantly increased, and reactive oxygen species (ROS) and matrix
20	metalloproteinase-1 (MMP-1) content are decreased, effectively protecting skin
21	structure. In conclision, coix seed can be used to skin whitening and anti-aging
22	cosmetics, but still need more experiments to prove.
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## **References**

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4	Seed Lactobacillus reuteri Fermentation Broth on Hydrogen Peroxide-Induced
5	Oxidative Stress in Human Skin Fibroblasts. Applied Sciences, 13(1), 540.
6	Li Yun Lin, Yi Lun Liao, Min Hung Chen, Shih-Feng Chang, Kuan-Chou Chen,
7	Robert Y. Peng (2022). Molecular Action Mechanism of Coixol from Soft-
8	Shelled Adlay on Tyrosinase: The Future of Cosmetics. Molecules, 27 (14), 4626
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