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LETTER TO THE EDITOR
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Protective Effect of Cyanidin-3-Glucoside on Myocardial Ischaemia-Reperfusion Injury via Ferroptosis

Siyanidin-3-Glukozitin Ferroptoz Yoluyla Miyokardiyal İskemi-Reperfüzyon Hasarı Üzerindeki Koruyucu Etkisi

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Dear Editor,

Myocardial ischaemia-reperfusion injury (MIRI) is a complex phenomenon that occurs when blood flow to the heart is temporarily interrupted and then restored, leading to tissue damage and cell death. Ferroptosis is a newly discovered form of cell death characterised by the accumulation of lipid peroxides and iron-dependent reactive oxygen species (ROS). Cyanidin-3-glucoside (C3G) is a natural flavonoid shown to have potential protective effects against MIRI. In this article, we would like to emphasise the importance of the role of C3G in preventing MIRI through ferroptosis and call for research in a grabol perspective.

DESCRIPTIONS

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REFERENCES

1. Deng Y, Chen Q, Wang T, et al. Myocardial Ischemia/Reperfusion Injury: Mechanism and Targeted Treatment for Ferroptosis. Anatol J Cardiol. Published online February 19, 2024. doi:10.14744/AnatolJCardiol.2023.3606

2. Shan X, Lv ZY, Yin MJ, Chen J, Wang J, Wu QN. The Protective Effect of Cyanidin-3-Glucoside on Myocardial Ischemia-Reperfusion Injury through Ferroptosis. Oxid Med Cell Longev. 2021;2021:8880141. Published 2021 Feb 6. doi:10.1155/2021/8880141

3. Li T, Tan Y, Ouyang S, He J, Liu L. Resveratrol protects against myocardial ischemia-reperfusion injury via attenuating ferroptosis. Gene. 2022;808:145968. doi:10.1016/j.gene.2021.145968

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