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鉄依存的細胞死フェロトーシスを抑える 物質の探索方法の確立と食品抽出物での応用

**Establishment of methods to search for compounds inhibiting
iron-dependent cell death, known as ferroptosis, and their
application in food extracts**

Summary

Cells are constantly exposed to reactive oxygen species (ROS) due to various stimuli. Excessive ROS cause oxidative damage and are involved in the development of disease such as lifestyle-related diseases. Cells have antioxidant systems in which antioxidant enzymes and antioxidants cooperatively eliminate ROS. Glutathione (GSH) is a major intracellular antioxidant, and its depletion induces to ferroptosis, characterized by the accumulation of lipid peroxides via the Fenton reaction catalyzed by ferrous iron. In this presentation, I will explain the GSH antioxidant system in cells against ROS and introduce methods to search for compounds that inhibit ferroptosis and their application in food extracts.

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参加登録

