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Protective effects of *Boehmeria nivea* against oxidative stress in C6 glial cells

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We investigated 9 kinds of ramie (*Boehmeria nivea*, (L.) Gaud., Bn; hereafter denoted as Bn) for their protective action against oxidative stress in a cellular system using C6 glial cells. We observed loss of cell viability and high levels of ROS generation after treatment with H₂O₂ and A_β25-35. However, treatments with Bn extracts led to an increase in cell viability and decrease in ROS production induced by H₂O₂ and A_β25-35. In particular, the extracts of Bn-02 (seobang variety from Seocheon) and Bn-90 (local variety from Yeonggwang) showed excellent anti-oxidative properties. This indicates that Bn extracts could prevent neurodegeneration by reducing oxidative stress in cells.

Biography

Sanghyun Lee is currently working as Head of Department of Integrative Plant Science, Chung-Ang University, Korea. In 2003-2005, he was a Research Professor in Biohealth Product Research Center, Inje University, Korea. In 1997-2002, he was a Chief Researcher, Natural Product Research Institute, Seoul National University, Korea. He did his PhD in Seoul National University (Major: Natural Product Chemistry, 1997-2002) Korea, and MS in Kyungpook National University (Major: Medicinal Plant, 1993-1996) Korea and BS in Kyungpook National University (Major: Agronomy, 1988-1993) Korea..

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