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 Homepage

Degree	<ul style="list-style-type: none"> • 1979 Yonsei University (BS in Biochemistry) • 1979 ~ 1981 KAIST (MS in Biological Sciences) • 1985 ~ 1989 Iowa State University (PhD in Biochemistry)
Experience	<ul style="list-style-type: none"> • 1991~Present Professor of Chemistry, INU • 2004 ~ 2005 Visiting Scholar at Roswell Park Cancer Institute • 1989 ~ 1991 Postdoc at University of California, Berkeley • 1981 ~ 1983 Researcher at Korea Research Institute of Chemical Technology
Major Teaching	<ul style="list-style-type: none"> • Biochemistry, Antioxidant metabolism, Skin physiology • Environment and human health, Protein chemistry, Physiology of skin
Representative Research	<ul style="list-style-type: none"> • Regulatory role of creatine phosphate in the phosphofructokinase system. KAIST (1981) • Mechanisms of protein S-thioation and dethiolation, Iowa State University (1989)
Researches	<ul style="list-style-type: none"> • Umbelliferone stimulated melanogenesis and increased glutathione level in B16F10 cells. <i>Toxicol. Environ. Health Sci.</i> 9, 152-160 (2017) • The effects of silver and arsenic on antioxidant system in <i>Lemna paucicostata</i>: Different effects on glutathione System. <i>Toxicol. Environ. Health Sci.</i> 8, 332-340 (2016) • The micosporine-like amino acids-rich aqueous methanol extract of laver (<i>Porphyra yezoensis</i>) inhibits adipogenesis and induces apoptosis in 3T3-L1 adipocytes. <i>Nut. Res. Pract.</i> 9, 592-598 (2015). • The Antioxidant response of <i>Lemna paucicostata</i> upon phenol exposure. <i>Toxicol. Environ. Health Sci.</i> 7, 73-81 (2015) • Modulation of viability and apoptosis of UVB-exposed human keratinocyte HaCaT cells by aqueous methanol extract of laver (<i>Porphyra yezoensis</i>). <i>J. Photochem. Photobiol. B.</i> 141, 301-307 (2014) • The preventive effect of Se-methylselenocysteine on γ-radiation-induced oxidative stress in rat lungs. <i>J. Trace Elem. Med. Biol.</i> 27, 154-159 (2013).
Current Research	<ul style="list-style-type: none"> • The effects of selenium compounds on the oxidative stress and antioxidant metabolism in cells • The effects of natural products on skin cell functions