



**Chin-Chu Chen**  
**Grape King Bio Ltd., Taiwan**  
**Vice President, head of Bioengineering Center**

**Professional Experience:**

- Professional Professor , National Hsinchu University of Education
- Associate Professor, Shih-Chien University
- Technological and Vocational College Accreditation Council Member, Ministry of Education
- Institutional Review Board Member for Technology projects, Ministry of Economic Affairs
- Institutional Review Board Member, National Science Council

**Honor and Awards:**

- 2010 Ten Outstanding Project Manager
- 2010 Food Technology Research Achievement Award
- Agricultural Chemical Society of Taiwan- Technology Achievement Award
- SCIENCEWATCH 2010 Emerging Research Fronts
- MOEA Industry Technology Development Award- Research Management Innovation Award

**Education:**

- National Tsing hua Univeristy PhD- Life Science (2001.9-2007.1)
- National Taiwan University MSc- Food Science (1984.9-1986.7)

**Brief Autobiography:**

Associated with Grape King Bio Ltd. since 1991 and executes core techniques and know-how in the development of fermentation biotechnology. Holds administration of all manufacturing process management, specializing in lactic acid bacteria and medicinal mushroom fermentation. Key contributor in the transformation of Grape King Bio Ltd. into Taiwan's largest fermentation biotechnology company. Pioneer in *Antrodia cinnamomea* flow production, Taiwan's best brand for *Ganoderma lucidum*, *Antrodia cinnamomea* and lactic acid bacteria. Research expertise in: Food engineering; Safety assessment of food ingredient; Fermentation biotechnology; Flow production of lactic acid bacteria and medicinal mushrooms.

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**Neurohealth manifestations rendered by erinacine-A enriched *Hericium Erinaceus* mycelia**

**<https://www.grapeking.com.tw/en/home>**

**Abstract:**

Between 2002 and 2012, 413 clinical trials were conducted worldwide to assess the safety and efficacy of 244 compounds against Alzheimer's but only one new drug came out of these trials and can only induces short-term relief of Alzheimer's symptoms. Once the clinical symptoms are manifested, these drugs could only delay further deterioration but not reverse the damage done to cognitive functions. Therefore, search for preventative agents that can cross the brain-blood and induce nerve growth factor (NGF) synthesis should be the goal of a strategic treatment of the neurodegenerative disease.

The preventative agent should be part of the meal. An ideal culinary-medicinal mushroom such as *Hericium erinaceus*, is said to help. Recently, it has become a well-established candidate in causing positive brain and nerve health-related activities by inducing nerve growth factor (NGF) from its bioactive ingredient, erinacine A. This small molecule demonstrated its profound NGF-inducing activities *in vitro* and *in vivo* and its effects could also be augmented by the increased availability of the active compound and moreover, achieved by oral administration. Hence, utilizing *H. erinaceus* enriched with erinacine A as a functional food source or a potential drug may be recommended for long-term nutritional intervention to preserve mental health, hinder neurodegenerative processes and sustain cognitive capacities..