

Prof. Sun Sai Ming Samuel

Prof. Sun Sai Ming Samuel, obtained his PhD in Botany/Horticulture from the University of Wisconsin, USA after obtaining his first and second degree from the Chinese University of Hong Kong and the University of Hong Kong. He returned to Hong Kong in 1995 to take up the Chair in Biology at the Chinese University of Hong Kong. He holds many concurrent professional positions including Elected Member of the Chinese Academy of Engineering, China; Director (UGC, Area of Excellence on Plant and Fungal Biotechnology, CUHK, Hong Kong);

Academic Council Member (National Laboratory of Agricultural Biotechnology, China Agricultural University, China);

Member (Advisory Committee, Institute of Botany, Academia Sinica, Taiwan);

Board Member (Germplasm Improvement Program, National Engineering Research Center for Vegetables, China);

Coordinator (Joint Laboratory for Plant Molecular Biology and Biotechnology, Peking University and the Chinese University of Hong Kong);

Professor / Adjunct / Visiting Professor (China Agricultural University, The University of Science and Technology in China, Nankai University, Wuhan University, Zhejiang University, Huazhen Agricultural University, Northwest Agricultural University, Chinese Agricultural Academy of Sciences, Beijing Vegetable Research Center, and Zhanjiang Oceanic University, China);

Panel Member (Biology and Medicine, NSFC/RGC, and France/RGC, RGC, Hong Kong).

He was awarded with Friendship Medal, State Government, China;

Greatwall Friendship Award, The People's Government of Beijing Municipality, China and

ARCO Distinguished Research Award.

He holds membership in various professional organizations including

American Society of Plant Biologists;

International Society for Plant Molecular Biology;

Society of Chinese Bioscientists in America;

American Association for the Advancement of Sciences;

Hong Kong Society of Biochemistry and Molecular Biology.

His research interests include

1. Plant molecular biology and biotechnology
2. Plant gene isolation, characterization, transfer, expression, and regulation
3. Plant bioreactors
4. Rice quality improvement and functional genomics

And he holds the following patents:

1. Sulfur-rich protein from *Bertholletia excelsa* HBK (European patent #EP0295959, 1988)
2. Arcelin seed storage proteins from *Phaseolus vulgaris* (US patent #5270200, 1993)
3. Recombinant sweet protein mabinlin (US patent #6051758, 2000)
4. Lysine rich protein from winged bean (US patent #6184437, 2001)
5. Plant gene expression system for processing, targeting and accumulating foreign proteins in transgenic seeds, US Patent, application No 60/449,367, filing date 01/21/2003 (pending)
6. Nucleotide sequences of shrimp beta-actin and actin promoters and their use in genetic transformation. US patent (Application #60/449, 367), filing date 02/21/2003 (pending)
7. An efficient integrated seed bioreactor system. US patent, submitted April, 2003 (pending)