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## XIE XIAO-YI'S PROFILE AND MAIN ACHIEVEMENT

**Xie Xiao-yi**, a professional researcher in Yanjiang Institute of Agricultural Science, Jiangsu Province, born in 1938.

Since the 1970s, Professor Xie was committed to research ordinary starch corn breeding, he is a pioneers on researching China's early Density-resistant planting corn breeding. Since the 1980s, especially focusing on researching the Chinese waxy corn germplasm improvement and development, he is also a pioneer on researching China's waxy corn inheritance and hybridizations.

### **Professor Xie's main achievements as below:**

1. Base on the nearly 30 years of research on the morphology and physiological basis of high yield of waxy corn, he had succeed to select and breed early high-yield type corn in the condition of Density planting, and had bred precocious Density-resistant planting corn and other well-known backbone system, like 414. Base on this he had bred Su Yu 9, a famous early Density-resistant planting hybrid corn. The research result won the scientific and technological advancement prize award by National Ministry of Agriculture and Government of Jiangsu province and National subsidy.

2. Base on Chinese waxy corn germplasm improvement and development, he put forward a new concept of population genetics—the small groups of separation, and using the method of the small groups of separation to select and breed, had bred the famous Chinese waxy corn core germplasm Tong Xi 5 and a large number of derivative system, and had bred a large number of well-known Chinese waxy maize hybrids, meanwhile which is as the core germplasm, build two of heterosis models to be mainly used for waxy maize breeding, Tong Xi 5 heterosis group X improvement Heng Bai 522 heterosis group and Tong Xi 5 heterosis group X T2 heterosis group. He had made important contributions for the utilization of the theoretical system of maize heterosis. The research result won the scientific and technological advancement prize award by National Ministry of Agriculture and Government of Jiangsu province.

3. In the earliest he put forward industrialization of Chinese waxy corn, in the 1980s he published thesis to advocate deeply comprehensive utilization waxy corn, and put forward a new direction to meet the specialty need of different industrial, in order to realize the aim of industrialization, he had done a lot of preliminary development work, and as the pioneer of China's industrialization of waxy corn, he was awarded a prize of national waxy corn industrialization development in July 2014.

**As his outstanding contribution**, his name and performance was recorded in the Cambridge international biographical center (IBC) 《Dictionary of international Biography》 25th edition and 《International Who's Who of intellectuals》 12th edition. As agricultural scientists have made outstanding contributions, since 1993 he had began to enjoy the special allowance awarded by the Chinese government (the State Council), the government of jiangsu province awarded him the honorary title of outstanding intellectuals in 1996.