

**Short Biography & Abstract of Keynote Speakers or Lecturers  
for the AC21 International Graduate Summer School (AC21 IGSS)**

<b>Name:</b> Danfeng Huang	
<b>Position:</b> Prof. , Dept. of Plant Science, School of Agro-Biology	
<b>Affiliated institution:</b> Shanghai Jiao Tong University	
<b>Short Biography:</b>	
<p>Prof. Huang received her PhD degree in Southwest Agricultural University in China in 1992. She had worked as a visiting professor at Wageningen University in the Netherlands from 2005 to 2006. She was selected as the vice-director at School of Agro-Biology of Shanghai Jiao Tong University from 2001 to 2008. At present, she is a professor and a group leader of the horticulture in Agriculture and Biology School of Shanghai Jiao Tong University. She has been studying in physiology and ecology, nutritional physiology of horticultural crops, mainly focuses on melon and green leafy vegetables, to optimize the environment for the growth of horticultural plants with energy and nutrition conservation and higher production efficiency as well. She made some achievements on K<sup>+</sup> plant uptake under salinity stress, nitrogen dynamics in organic farming systems and nutritional physiology in melon growth and development etc. She has engaged in agricultural higher education and research for 30 years and made remarkable achievements in both teaching and research work.</p>	
<b>Title of your keynote speech/lecture:</b>	
<b>Nitrogen dynamics in horticultural crop organic farming systems</b>	
<b>Abstract of your keynote speech/lecture:</b>	
<p>Organic farming is developing fast by its benefit of environment. This lecture introduces students to organic farming all over the world in recent years. And The advantages and some issues, the roles and regulations of organic farming in between western contraries and in China would be analyzed in the lecture as well.</p> <p>Nitrogen is particularly important element for the basis of ecological and agricultural development. It depends on the availability of soil and groundwater. Some cutting-edge research of plant uptake of organic nitrogen in organic vs. conventional farming systems would be discussed in the lecture. There are some evidences that horticultural crops such as tomato, melon, spinach and pakchoi could take up much more organic nitrogen as their nutrients in organic farming systems than those in conventional. Are there competitions between plants and microorganisms in using organic nitrogen in soil? Mechanisms of organic nitrogen uptake, enzyme activities of nitrogen cycles, nitrogen input and output in soils both in organic and conventional farming systems would be given in the lecture.</p>	
<b>Keywords:</b> organic farming; conventional; horticultural crops; nitrogen composition; amino acids uptake	