

13th FYP for National Natural Science Foundation 国家自然科学基金"十 三五"发展规划

The 13th FYP for National Natural Science Foundation was released on 14th June 2016. The Foundation identified 118 research areas as priority to be supported in the next five years. Of these, the following are relevant to agricultural development.

Biodiversity and function

Main research direction: mechanism of biodiversity formation; mechanism of biodiversity maintenance; mechanism of biodiversity loss; relationship between biodiversity and ecosystem function.

The molecular basis for agricultural genetic improvement

Main research direction: genetic basis of important traits of agricultural organisms; interaction mechanism between agricultural biological gene and the environment; the relationship between phenotype and genotype; new concepts and new models of agricultural biological breeding.

Mechanism of pests and diseases resistance of agricultural organism

Main research directions: molecular and physiological mechanism of resistance of agricultural organism to pests and diseases; molecular mechanism of immune response of agricultural organism; regularity of pests and diseases prevalence and the basis of control and prevention.

Adaptation mechanism of agricultural and forestry plants to abiotic stress

Main research directions: molecular and physiological basis of agricultural and forestry plant adaptation to abiotic stress; response mechanism of agricultural and forestry plants to multiple abiotic stress; regulation mechanism for agricultural and forestry plants adaptation to abiotic stress.

Basis for health farming of agricultural animals

Main research directions: biological and physiological basis for the formation of important traits of agricultural animals; adaptation and spared of pathogens in agricultural animals and environment; prevalence and control of major zoonotic diseases; changes in environmental factors and pollutants transfer in the animal farms; impact mechanism of feed nutrition and metabolites on animal immunity; forage varieties selection and breeding and maintenance of pasture productivity.

Variation and sustainable utilization of soil and water resources

Main research directions: soil process and variation; soil quality and resource impacts; catchment hydrological process and ecological impacts; ecological function and environmental impact of soil biota.

Process and function of earth critical zones

Main research directions: structure, formation and evolvement of critical zones; critical zones' service function and sustainable development; modelling on the critical zone process.

(The full text (in Chinese) of the "13th FYP for National Natural Science Foundation" is available at: <u>http://www.nsfc.gov.cn/nsfc/cen/bzgh_135/index.html</u>)

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