Li Huixin

Professor of Soil Sciences

Address: B220 R&E Buliding
Phone Number: 025-84395374
Email: huixinli@njau.edu.cn

Education:

Ph.D. 1997 Nanjing Agricultural University, Nanjing, China (Major: Soil Science/Soil Ecology; Dissertation: Effects of soil nematodes on nutrient cycling and plant growth)

M.A. 1989 Nanjing Agricultural University, Nanjing, China (Major: Soil Science/Soil Ecology; Thesis: Effects of herbicides on soil organism activity in a no-tillage ecosystem)

B.A. 1986 Nanjing Agricultural University, Nanjing, China (Major: Soil Science and Agricultural Chemistry)

Research interests and expertise:

1. Interactions between soil faunal and microbe and their function on soil nutrients or pollutants transformation
2. Restoration and improvement of degraded soil

Current projects:

1. Mechanisms of substitution of organic fertilizer for chemical fertilizer（National Key Research and Development Program of China 2016YFD0200106, 2016-2020, ¥6,500,000）
2. Effect and molecular mechanisms of earthworm secretion on bacterial-feeding nematodes feeding preference （NSFC, No. 41877057,2019-2023, ¥744,000）
3. Molecular mechanism of increasing IAA synthetic ability of bacteria by soil nematodes （NSFC, No. 41571244,2016-2019, ¥756,000）
4. Preference choice and its molecular mechanism on bacterial food of bacterial-feeding nematodes （NSFC No. 41271270, 2013-2016, ¥750,000）

Current teaching:

1. Introduction resource science
2. Ecology（ landscape, region and biosphere ）
3. Agricultural environment and ecology restoration

Selected publications:

1. Ting Liu , Li Yu , Mengsha Li, Jun Wu, **Huixin Li*,** Joann K. Whalen*, Feng Hu. Food familiarity does not change nematode feeding behavior. ***Soil Biology & Biochemistry***, 2018, 125:136-141
2. Mengsha Li, Rui Guo, Fei Yu, Xu Chen, Haiyan Zhao, **Huixin Li*** and Jun Wu*. Indole-3-Acetic Acid Biosynthesis Pathways in the Plant-Beneficial Bacterium Arthrobacter pascens ZZ21. ***Int. J. Mol. Sci***. 2018, 19, 443; doi:10.3390/ijms19020443
3. Ting Liu, Li Yu, Jingjing Xu, Xiaomei Yan, **Huixin Li***, Joann K. Whalen*, Feng Hu. Bacterial traits and quality contribute to the diet choice and survival of bacterial-feeding nematodes. ***Soil Biology & Biochemistry***, 2017, 115:467-474
4. Ting Liu, Joann K. Whalen *, Wei Ran, Qirong Shen, **Huixin Li***. Bottom-up control of fertilization on soil nematode communities differs between crop management regimes. ***Soil Biology & Biochemistry***, 2016, 95: 198-201
5. Ting Liu, Rui Guo, Wei Ran, Joann K. Whalen*, **Huixin Li***. Body size is a sensitive trait-based indicator of soil nematode community response to fertilization in rice and wheat agroecosystems. ***Soil Biology & Biochemistry***, 2015, 88:275-281