Lv-Hui Sun is a Full Professor in the Department of Animal Nutrition and Feed Science at Huazhong Agricultural University. He worked as a Visiting Ph.D. student at the department of Animal Science at Cornell University for 2 years. He received a Ph.D. degree in Animal Nutrition from Sichuan Agricultural University. His current research aims at understanding 1) The molecular mechanisms of mycotoxins hepatotoxicity and immunotoxicity and Dietary strategies to counteract the toxic effects of mycotoxins; 2) The biological functions of selenium and selenoproteins. He is the winner of Milton L. Sunde Award that given by American Society for Nutrition in 2017. He has published more than 40 papers in peer-reviewed journals, including Journal of Nutrition, Poultry Science.

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Education Background

Sichuan Agricultural University, Chengdu, Sichuan Province, China

2007.09-2013.06: Ph.D program, Major in Comparative Nutrition between Human and Animal; (Advisor: Xin Gen Lei and De Wu);

Cornell University, Ithaca, New York, USA

2010.09-2012.09: Visiting Ph.D. Student at the department of Animal Science; (Advisor: Xin Gen Lei);

Wuhan Polytechnic University, Wuhan, Hubei Province, China

2003.09-2007.09 Diploma in Animal Nutrition and Feed Technology; (Advisor: Yong-Qing Hou).

Experience

2019.03-now, Full Professor, Department of Animal Nutrition and Feed Science, College of Animal Science and Technology, Huazhong Agricultural University;

2017.01-2019.02, Associate Professor, Department of Animal Nutrition and Feed Science, College of Animal Science and Technology, Huazhong Agricultural University;

2013.07-2016.12, Lecturer, Department of Animal Nutrition and Feed Science, College of Animal Science and Technology, Huazhong Agricultural University.

Areas of Research Interests/ Research

1) Molecular mechanisms of mycotoxins hepatotoxicity and immunotoxicity and Dietary strategies to counteract the toxic effects of mycotoxins;

2) The biological functions of selenium and selenoproteins.

Selected Publications

*Corresponding author, # Co-first author

1. Lei Zhang, Rui Ma , Meng-Xiang Zhu, Ni-Ya Zhang, Xiao-Li Liu, You-Wei Wang, Tao Qin, Liang-Yi Zheng, Qiang Liu, Wan-Po Zhang*, Niel A. Karrow*, **Lv-Hui Sun***. Effect of deoxynivalenol on the porcine acquired immune response and potential remediation by a novel modified HSCAS adsorbent. Food and Chemical Toxicology. 2020;138:111187.
2. Ling Zhao, Yue Feng, Jiang Deng, Ni-Ya Zhang, Wan-Po Zhang, Xiao-Li Liu, Shahid Ali Rajput, De-Sheng Qi, **Lv-Hui Sun***. Selenium deficiency aggravates aflatoxin B1-induced immunotoxicity in chick spleen by regulating 6 selenoprotein genes and redox/inflammation/apoptotic signaling. Journal of Nutrition. 2019;149(6):894-901.
3. **Lv-Hui Sun**, Jia-Qiang Huang, Jiang Deng, Xin Gen Lei*. Avian selenogenome: response to dietary Se and vitamin E deficiency and supplementation. Poultry Science. 2019;98:4247-4254.
4. Jiang Deng, Ling Zhao, Ni-Ya Zhang, Niel Alexander Karrow, Christopher Steven Krumm, De-Sheng Qi, **Lv-Hui Sun***. Aflatoxin B1 metabolism: Regulation by phase I and II metabolizing enzymes and chemoprotective agents. Mutation Research-Reviews in Mutation Research. 2018;778:79–89.
5. Xin Gao, Zhuo-Hui Xiao, Meng Liu, Ni-Ya Zhang, Mahmoud Mohamed Khalil, Chang-Qin Gu, De-Sheng Qi, and **Lv-Hui Sun***. Dietary Silymarin Supplementation Alleviates Zearalenone-Induced Hepatotoxicity and Reproductive Toxicity in Rats. Journal of Nutrition. 2018;148:1209-1216.
6. **Lv-hui Sun**, Tao Qin, Yan Liu, Hua Zhao, Xinjie Xia, Xingen Lei. Cloning, expression, and characterization of a porcine pancreatic α-amylase in *Pichia pastoris*. Anim Nutr. 2018;4:234-240.
7. Ling Zhao#, **Lv-Hui Sun#,***, Jia-Qiang Huang, Mickael Briens, De-Sheng Qi, Shi-Wen Xu, Xin Gen Lei*. A novel organic Se compound exerts unique regulation of Se speciation, selenogenome, and selenoproteins in broiler chicks. Journal of Nutrition. 2017,147:789-797.
8. **Lv-Hui Sun#,***, Ni-Ya Zhang#, Ming-Kun Zhu, Ling Zhao, Ji-Chang Zhou, De-Sheng Qi*. Prevention of Alfatoxin B1 Hepatoxicity by Dietary Selenium is Associated with Inhibition of Cytochrome P450 Isozymes and Up-regulation of Six Selenoprotein Genes in Chick Liver. Journal of Nutrition. 2016;146:655-661.
9. **Lv-Hui Sun**, Ming-yan Lei, Ni-Ya Zhang, Ling Zhao, Christopher Steven Krumm, De-Sheng Qi. Hepatotoxic effects of mycotoxin combinations in mice. Food Chem Toxicol. 2014;74:289-293.

10. **Lv-Hui Sun**[#], Jun-Gang Li#, Hua Zhao, Jing Shi, Jia-Qiang Huang, Kang-Ning Wang, Xin-Jie Xia, Li Li, Xin Gen Lei. Porcine serum can be biofortified with selenium to inhibit proliferation of three types of human cancer cells. Journal of Nutrition. 2013;143:1115-22.

Honors And Awards

1. Young Teacher Award founded by Fok Ying Tong Education Foundation, Ministry of Education of the People's Republic of China, 2020.
2. The National Ten Thousand Talent Program-Young Top Notch Talent Program, The Central Organizations of the Communist Party of China, 2019;
3. The winner of Milton L. Sunde Award, American Society for Nutrition, 2017.