

Publications:

Book chapter:

Wang YK, Yan YX, Sun JH. Development of a dual quantitative lateral flow immunoassay for the detection of mycotoxins. *Biosensors and Biodetection* (Springer, 2017) [M].

Research articles:

Kim HB, Wang YK, Sun XM. A Detrimental Role of Immunosuppressive Drug, Dexamethasone, During *Clostridium difficile* Infection in Association with a Gastrointestinal Microbial Shift [J]. *Journal of Microbiology and Biotechnology*, 2016.

Schmidt DJ, Beamer G, Tremblay JM, Steele JA, Kim HB, Wang YK, et al. A Tetraspecific VHH-Based Neutralizing Antibody Modifies Disease Outcome in Three Animal Models of *Clostridium difficile* Infection [J]. *Clinical and Vaccine Immunology*, 2016.

Wang YK, Yan YX, Kim HB, et al. A chimeric protein comprising the glucosyltransferase and cysteine proteinase domains of toxin B and the receptor binding domain of toxin A induces protective immunity against *Clostridium difficile* infection in mice and hamsters [J]. *Human Vaccines & Immunotherapeutics*, 2015.

Zhang KS, Zhao S, Wang YK, et al. The non-toxigenic *Clostridium difficile* CD37 protects mice against infection with a BI/NAP1/027 type of *C. difficile* strain [J]. *Anaerobe*, 2015.

Wang YK, Zou Q, Sun JH, et al. Screening of single-stranded DNA (ssDNA) aptamers against a zearalenone monoclonal antibody and development of a ssDNA-based enzyme-linked oligonucleotide assay for determination of zearalenone in corn [J]. *Journal of Agricultural and Food Chemistry*, 2015.

Cohen OR, Steele JA, Zhang QS, Schmidt DJ, Wang YK, et al. Systemically Administered IgG Anti-Toxin Antibodies Protect the Colonic Mucosa during Infection with *Clostridium difficile* in the Piglet Model [J]. *Plos One*, 2014.

Wang YK, Wang YC, Wang HA, et al. An immunomagnetic-bead-based enzyme-linked immunosorbent assay for sensitive quantification of fumonisin B1 [J]. *Food Control*, 2014.

Kim, HB, Zhang QS, Sun XM, Beamer H, Schmidt DJ, Wang YK, et al. Beneficial effect of oral tigecycline treatment on *Clostridium difficile* and human gut microflora [J]. *Antimicrobial Agents and Chemotherapy*, 2014.

Wang YK, Shi YB, Zou Q, et al. Development of a rapid and simultaneous immunochromatographic assay for the determination of zearalenone and fumonisin B1 in corn, wheat and feedstuff samples [J]. *Food Control*, 2013.

Wang YK, Yan YX, Ji WH, et al. Rapid simultaneous quantification of zearalenone and fumonisin B1 in corn and wheat by lateral flow dual immunoassay [J]. *Journal of Agricultural and Food Chemistry*, 2013.

Wang YK, Yan YX, Mao ZW, etc. Highly sensitive electrochemical immunoassay for zearalenone in grain and grain-based food [J]. *Microchimica Acta*. 2013.

Wang YK, Yan YX, Wang HA, et al. Comparison of carbon nanotube/nafion and colloidal gold/chitosan modified screen-printed electrodes by electrochemical immunosensor for detection of zearalenone in cereal samples [R]. 245th American Chemical Society National Meeting, New Orleans, USA, 2013. (Poster presentation)

Patents:

Yan YX, Wang YK, Sun JH. Method for detecting fumonisin B1 based on immunomagnetic enzyme (ZL201210002401.1)

Yan YX, Wang YK, Sun JH. Method for detecting zearalenone based on multiple amplification system (ZL201210002342.8)

Yan YX, Wang YK, Sun JH. Method for detecting zearalenone by screen printed electrode (ZL201210002341.3)

Yan YX, Wang YK, Sun JH. Composite nano-modified screen printed electrode and method for detecting fumonisin B1 (ZL201210002405.X)