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Application of Immunoassay Technology in Food Inspection

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Message from the Guest Editor

Food inspection is the key method to make sure the quality and safety of food. There are some hazard factors, such as pesticide residue, veterinary drug residue, heavy metal, biotoxin, and illegal additives. Immunoassay is the rapid detection method with high efficiency and accuracy and is the mainstream rapid detection method in food inspection. The syntheses of haptens, development of antibodies, immunoassay methods including colloidal gold immunochromatography, enzyme linked immunoassay, fluorescence immunoassay, chemiluminescence immunoassay, and bio-barcode immunoassay are research hotspots in recent years.

This Special Issue is to provide the latest research in the field of

- i) design and synthesis of haptens for key hazard factors;
- ii) development of monoclonal antibodies, nanobodies, etc. for pesticide residue, veterinary drug residue, heavy metal, biotoxin, and illegal additives;
- iii) structure–activity relationship between haptens and antibody properties;
- iv) development of novel detection methods of immunoassay in food inspection.

Additionally, reviews of immunoassay in food inspection are welcomed.



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Special Issue



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Message from the Editor-in-Chief

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