

Realization of a safe, secured, and comfortable town by removing a slight amount of hazardous substances hiding in living environments

Artificial antibody-displaying yeast to relieve people from food poisonings

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Summary :

Nowadays, food safety is a major concern of both consumers, producers and distributors worldwide. Establishment of rapid, simple and inexpensive hygiene management technology is an urgent issue. In this research, antibodies are presented extracellularly as a recognition unit and antigens such as pathogenic bacteria, viruses, and toxins that transmit signals to intracellular reporter genes will be constructed as "patrol yeast" to detect them with high sensitivity.

