

International Seminar and Exhibition on Animal Feed Biotechnology

# The New Trends of Food Pathogen Calling Introducing HACCP System on Animal Farming

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## **Epidemics of pathogen not only means great losses**

- Thailand Killed 10.5million in 3 months
- China Killed 9 million in two months and face trade ban of poultry products from 48 countries



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## **Epidemics of pathogen not only means great losses**

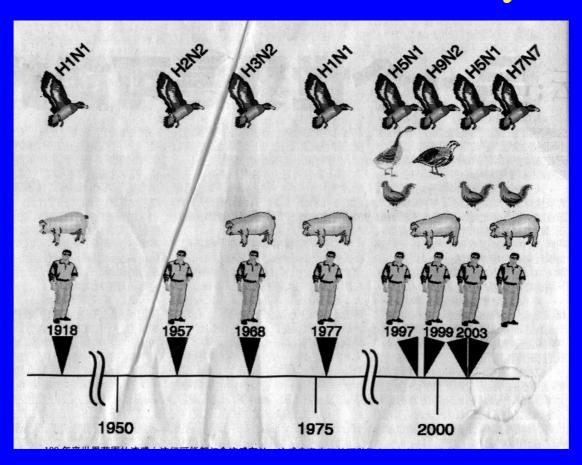
- Lost of Consumer Confidence and Reputation
- Possibility of Lost of Lawsuit
- Burden of healthcare



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## Avian Flu in the History



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## Suspected resource of SARS and Ebola Hemorrhagic Fever



**Masked palm civet** 





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## **Most Common Founded Pathogens**

Organism	Symptom	Animal recourse
Bacteria		
Campylobacter	Guilain-Barre Syndrome(paralysis)	Poultry, cat, dog and bird
Clostridium perfringens		Human, animals, rat
Eshcherichia coli O157:H7	Bloody diarrhea, kidney damage, hemolytic ureic syndrome	
Escherichia coli		
Listeria monocytogenes	Spontaneous abortion, stillbirth, blood infection meningitis	Animal and human
Salmonella species		Chicken
Shigella species  Internat	Dysentery Honal Seminar and Exhibition	Human

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## **Most Common Founded Pathogens**

Staphylococcus species		
Vibrio species	Chills fever	
Yersinia entercolitica		All animal
Protozoa		
Giardia lamblia		
Toxoplasma gondii	Fever, swollen glands, liver and central nervous system complications, brain and eye damage in infants	
Virus		
Norwalk-like viruses	10 15 133	
International Seminar and Exhibition Type A influenza H5Nhimal Feed Biotechnology		Poultry

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## The Development of Modern Food Production

- Concentration and consolidation of production
- Long distances transportation
- Centralized processing from different sources
- Low dose of antibiotics and low fiber feed
- Population structure changing



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## New trend of Food Pathogen

- International transferred
- Increasing range of food
- Virulence
- Hard to treat

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# Calling a preventive Control system -- HACCP

- Preventive control system based on risk assessment
- The whole processing control



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## The Gap Among IFOAM, Green Food & HACCP



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## Calling a preventive Control system --HACCP

New Development	Preventive Measure
Concentration production	More strict hygiene
Long distances transportation	Control of whole chain
Centralized processing from different sources	Same standard in different place



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## Calling a Preventive Control system --HACCP

New Trend of Pathogen	Measurement
International transferred	Take the same standard internationally
Increasing range of food	Good management
Virulence	More secure
Hard to treat	Better control of processing



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