UNIVERSITY OF VETERINARY AND PHARMACEUTICAL SCIENCES BRNO

Prof. Iva Steinhauserova, DVM, Ph.D.

VICE – RECTOR VFU

2009
VFU BRNO

- was established in 1918
- consist of three faculties

- Faculty of Veterinary Medicine
- Faculty of Veterinary Hygiene and Ecology
- Faculty of Pharmacy

steinhauserova@vfu.cz
Faculty of Veterinary Medicine
Faculty of Veterinary Hygiene and Ecology

- positively evaluated by EAEVE in 1996 and reevaluated in 2004
- a pair of 37 positively evaluated veterinary faculties in Europe

steinhauseroval@vfu.cz
study diagnostic methods, therapy and prevention of non-contagious, as well as contagious diseases of animals

improve the quality of animal products, especially meat and milk
FACULTY OF VETERINARY MEDICINE

RESEARCH PROJECT

„An active creation of health yield and performance of farm animals“

- positive influence on metabolism and immunity of relationship between mother and offspring
- the possibility of direct involvement through microelements supplementation or withdrawal
- increasing reproductive efficiency of ruminants, swine and horses
- basic epidemiologic studies of these animals
OTHER RESEARCH PROJECTS

- National programme of the control of the infectious bovine rhinotracheitis
- Study of newly emerged bluetongue in the area of Central Europe
- Relationship between avian influenza and health safety of meat products
- Swine Circovirus Infections
OTHER RESEARCH PROJECTS

- *Brachyspira hyodysenteriae* and its importance in pigs, gastric cryptosporidiosis in mammals

- Improvement of vaccination in farm animals

- The role of stem-cells in repair of damaged tissues

- Immunomodulation in the treatment of specific diseases, discovery of special genes, triggering basic immune response in horses

steinhauserova@vfu.cz
IN THE FIELD OF FOOD SAFETY ATTENTION WILL FOCUS ON

- quality parameters of food in relation to the technology used (especially in the primary production, including the acquisition of food materials)

- evidence of consumer deception in particular by molecular biology and immunohistochemical methods

- parameters affecting shelf-life

- factors affecting food composition

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AIMS OF RESEARCH

- the possibility of the use of alternative methods for routine food evaluation

- application of rapid, specific and sufficiently sensitive methods for detection of pathogenic agents (bacterial, viral and toxic metabolites) causing foodborne diseases

- epidemiological significance - phenotypic and genotypic typification methods, studies of resistance and transfer resistance and the impact of current and modern food technologies
IN THE FIELD OF FOOD SAFETY ATTENTION WILL FOCUS ON

- application of specific and sensitive methods for significant chemical agents detection (current and new) in the context of the technology or culinary matter, particularly in terms of chronic exposure

- principal of right and preventive systems of ensuring of food safety and wholesome and quality of food

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RESERCH PROJECT: “Veterinary Aspects of Food Safety and Quality,”

- the research project is focused on all areas of food safety and quality including problems of ecological conditions of production of raw material for food production and safety feed production and nutrition of food animals

- the problems of health animals with respects of occurrence of zoonosis in food chain and possibility of their prevention and protection

- aspects of welfare of food animals and veterinary public health

- prevention of foodborne diseases in all food chain

steinhauserovai@vfu.cz
Control of the intestinal flora in poultry for ensuring the products for human consumers

Evaluation of antimicrobial resistance in the most important foodborne pathogens

Occurrence and survival selected foodborne pathogens during food processing

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FACULTY OF PHARMACY

- Department of Applied Pharmacy
- Department of Natural Drugs
- Department of Pharmaceutics
- Department of Human Pharmacology and Toxicology
- Department of Chemical Drugs
- pre-clinical testing of new biologically active substances, especially connected to cardiovascular, endocrine and metabolic diseases

- synthesis, study of physical and chemical properties and analytical evaluation of new biologically active substances

- new biologically active substances interacting with reactive oxygen or nitrogen species, which can be used as natural antidiabetics
THANK YOU FOR YOUR ATTENTION!

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