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Tibor Farkas

• Dr. Farkas received his DVM from the University of Veterinary Medical Sciences, Budapest, Hungary in 1988, a PhD in Veterinary Microbiology from the United Graduate School of Veterinary Medical Sciences, Yamaguchi University, Yamaguchi, Japan in 1998 and an MBA from the University of Cincinnati in 2008.

• He is currently an assistant professor at the Division of Infectious Diseases, Cincinnati Children’s Hospital Medical Center where his laboratory studies enteric viral diseases including enteric viruses of non-human primates.
Research interests

• Enteric viral diseases
• pathogen discovery
• diagnostic assay development
• epidemiology
• host range
• zoonosis
• host-pathogen interactions
• immunity
• non-human primate animal model
Epidemiology

- **Epidemiology** is the science that studies the patterns, causes, and effects of health and disease conditions in defined populations. It is the cornerstone of public health, and informs policy decisions and evidence-based practice by identifying risk factors for disease and targets for preventive healthcare.
pathogen discovery
pathogen discovery
18–19 April 2013, University Club

PITTSBURGH-PHILIPPINES JOINT WORKSHOP ON
EMERGING DISEASES AND NEW PATHOGEN DISCOVERY
Enteric viral diseases
Immunity

Natural

Acquired

Antigen

Natural

Acquired

Serum
Immunity

- Clinical observations
- Epidemiology
- Pathology & Microscopy

Disease

Molecular Signature

Identification of putative pathogenic agent, or relatedness to other known agents

Causation
Immunity

Adaptive immunity

Naturally acquired

Active
Antigens enter the body naturally; body induces antibodies and specialized lymphocytes

Passive
Antibodies pass from mother to fetus via placenta or to infant via the mother’s milk

Artificially acquired

Active
Antigens are introduced in vaccines; body produces antibodies and specialized lymphocytes

Passive
Preformed antibodies in immune serum are introduced by injection
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