

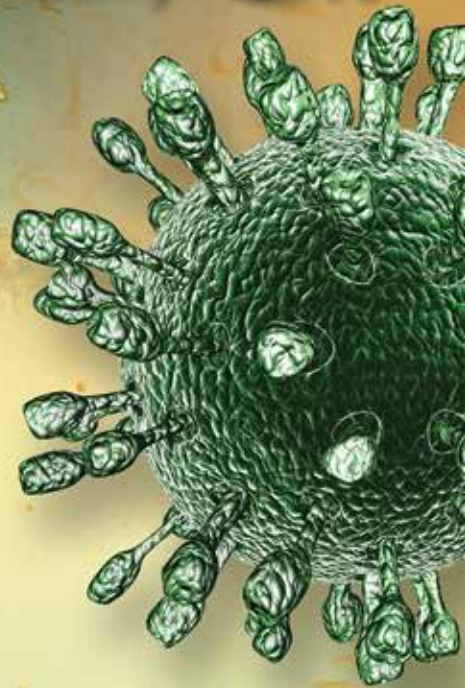


# ISFEV 2014

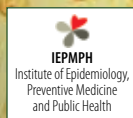
International Society for Food and Environmental Virology **Conference**

**2-5** September

*Ionian Academy* **Corfu**



Under the auspices of



Conference Secretariat



## **Programme**

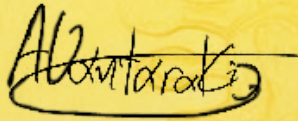
# Welcome

Dear Colleagues,

We welcome you to participate in the **4<sup>th</sup> Food and Environmental Virology Conference (FEV)** September 2 - 5, 2014, organized by UPA and ISFEV, to be held in Ionian Academy, Corfu town, Greece.

The 4<sup>th</sup> Food and Environmental Virology Conference is organized as follow - up to the 3<sup>rd</sup> FEV Conference (2012, Lisbon, Portugal) and will focus on environmental, food and health impacts of viruses. The Conference topics will specifically focus on Virus taxonomy, Microbial Source Tracking, Quantitative Microbial Risk Assessment, Methodology, Virus stability & inactivation, Epidemiology, Climate change, New Disinfection technologies for viruses.

With my warmest regards,



**Apostolos Vantarakis**

Vice Chair of ISFEV  
Assoc. Professor of Environmental Microbiology Unit  
Department of Public Health  
Medical School, University of Patras, Greece



# Scientific Programme

## Tuesday 2 September, 2014

18.00 - 20.00 **Registration**

20.00 - 22.00 **Welcome Reception**

## Wednesday 3 September, 2014

08.30 - 09.30 **Registration**

09.30 - 09.45 **Opening Ceremony:**

Welcome from ISFEV Committee and Local Organizing Committee

09.45 - 10.30 **PL1:** My 48 years in Environmental Virology: reflections and commentary on challenges, advances, directions and unmet needs, **Mark SOBSEY**

10.30 - 11.00 **Coffee Break**

### 11.00 - 13.30 **Session 1**

#### **Public Health Impact of Foodborne and Waterborne Viruses**

**Chair:** Yiannis ALAMANOS, Jan VINJE

11.00 - 11.30 **KS1:** Disease burden and molecular epidemiology of food - and waterborne viruses, **Jan VINJE**

11.30 - 11.45 **O1:** Norovirus transmissions between hands, gloves, utensils, and fresh produce during simulated food handling, **Maria RÖNNQVIST / Leena MAUNULA**

11.45 - 12.00 **O2:** Syndromic surveillance for foodborne viruses, **Paul HUNTER**

12.00 - 12.15 **O3:** Hepatitis E virus: Bioaccumulation efficiency, tissue distribution and environmental occurrence in bivalve shellfish from France, **Soizick F. LE GUYADER**

12.15 - 12.30 **O4:** Rotavirus genotypes in sewage treatment plants and in children hospitalized with acute diarrhea in Italy, 2010 - 2011, **Franco M. RUGGERI**

12.30 - 12.45 **O5:** Co - circulation of enteric viruses in surface water and in infant population, Vitória, Brazil, **Regina KELLER**

12.45 - 13.00 **O6:** HEV in Serbia: results of recent studies, **Tamas PETROVIC**

13.00 - 13.15 **O7:** Emergent viruses as potential contaminants of water and food, **Silvia BOFILL - MAS**

13.15 - 13.30 **O8:** Prevalence of rotaviruses group A and group C in Egyptian children and aquatic environment, **Waled MORSY EL - SENOUSY**

13.30 - 14.30 **Lunch**

### 14.30 - 16.45 **Session 2**

#### **Analytical Methods in Food and Environmental Virology**

**Chair:** David RODRIGUEZ - LAZARO, Daisuke SANO

14.30 - 14.45 **O9:** Binding - based RT - qPCR assay to assess specific Binding of noroviruses to shellfish, **Jeremie LANGLET**

14.45 - 15.00 **O10:** Human adenovirus diversity in water samples using a next - generation sequencing approach, **Leslie OGORZALY**

15.00 - 15.15 **O11:** An improved method to discriminate infectious hepatitis A virus in food samples by using viability dyes, **Gloria SÁNCHEZ MORAGAS**

15.15 - 15.30 **O12:** Application of Binding - and Long Range - RT - Quantitative (Q) PCR to indicate the viral integrities of noroviruses, **Dan Li**

15.30 - 15.45 **O13:** Rapid multiplex detection of norovirus in food samples, **Fabienne LOISY - HAMON**

15.45 - 16.00 **O14:** Application of new generation sequencing technique for norovirus GII in oysters, **Hiroaki ITO**

16.00 - 16.15 **O15:** Digital PCR: the path to sensitivity, **Silvia P. NUNES MONTEIRO**

16.15 - 16.30 **O16:** Enteric viruses concentration and detection from environmental samples using virus imprinted particles, **Charlotte ARNAL**

16.30 - 16.45 **O17:** Comparison of preservative methods for poliovirus survival on positively charged filters, **Scott J. MESCHKE**

# Scientific Programme

16.45 - 17.00 Coffee Break

## 17.00 - 18.30 WORKSHOP

### *New Methods in Food and Environmental Virology*

**Chair:** Nigel COOK, James LOWTHER, Apostolos VANTARAKIS

17.00 - 17.15 **WP1:** ISO TS/15216; an international standard method for the detection and quantification of norovirus and hepatitis A virus in high risk foodstuffs, **James LOWTHER**

17.15 - 17.30 **WP2:** The ISO standards for foodborne virus detection. Are they fully fit for purpose?, **Nigel COOK**

17.30 - 18.30 Open Discussion

18.30 - 20.00 **ISFEV Management meeting**

## Thursday 4 September, 2014

### 08.30 - 11.00 Session 3

#### *Emerging Issues*

**Chair:** Ricardo SANTOS, Albert BOSCH

08.30 - 09.00 **KS2:** Emerging issues in food and waterborne viruses, **Albert BOSCH**

09.00 - 09.15 **O18:** Viral dynamics of the Seine River in Paris area: analysis of the climate impact, **Benoit PREVOST**

09.15 - 09.30 **O19:** Sources of human norovirus in fresh produce chains, **Saskia RUTJES**

09.30 - 09.45 **O20:** Genotype - dependent membrane separation of human noroviruses with bacterial histo - blood group antigen (HBGA) - like substances, **Mohan AMARASIRI**

09.45 - 10.00 **O21:** Environmental detection of norovirus and adenovirus and correlation with coliphage in low resource settings in Accra, Ghana, **Christine MOE / Amy KIRBY**

10.00 - 10.15 **O22:** Detection of enteric viruses in food illegally imported to the EU, **David RODRIGUEZ - LAZARO**

10.15 - 10.30 **O23:** Microbial quality of raw milk: correlation between indicators and human noroviruses, **Morteza ABBASZADEGAN**

10.30 - 10.45 **O24:** Molecular mechanisms underlying the inactivation of hepatitis A virus by high hydrostatic pressure, **Rosa M. PINTO**

10.45 - 11.00 **O25:** Sewage samples studies reveals a high circulation and genetic diversity of norovirus genogroup I and II in Uruguay, **Matias VICTORIA**

11.00 - 11.30 Coffee Break

### 11.30 - 13.30 Session 4

#### *Microbial Source Tracking and Viruses*

**Chair:** Adamantia - Maria EFSTRATIOU, Rosina GIRONES

11.30 - 12.00 **KS3:** Reasons to think on viruses as MST tools, **Rosina GIRONES**

12.00 - 12.15 **O26:** Quantitative evaluation of removal efficiency of viruses in rapid sand filtration in actual plant scale, **Tatsuya ASAMI**

12.15 - 12.30 **O27:** Phylogenetic and functional metagenomics of fecal microbiotas in humans and other animals for microbial source tracking, **GwangPyo KO**

12.30 - 12.45 **O28:** Quantification and genetic analysis of enteric virus and indicators in recreational water samples in Japan, **Akihiko HATA**

12.45 - 13.00 **O29:** Dynamics of infection of porcine and human sapoviruses in swine, **A. F. BARRY / Wim H. M. VAN DER POEL**

13.00 - 13.15 **O30:** Characterization of human enteroviruses detected directly in or after cell culture amplification from South African water sources, **Walda B. VAN ZYL**

13.15 - 13.30 **O31:** Virus distributions in surface water, obtained by cell culture - based and molecular - based methods, and probabilities of exposure to these viruses during water recreation, **Willemijn LODDER**

# Scientific Programme

13.30 - 14.30 Lunch

## 14.30 - 16.30 Session 5

### *Quantitative Microbial Risk Assessment*

**Chair:** Jeremy LANGLET, Ana Maria DE RODA HUSMAN

- 14.30 - 15.00 **KS4:** New insights into risk assessment for foodborne and environmental viruses, **Ana Maria DE RODA HUSMAN**
- 15.00 - 15.15 **O32:** Predictive models of pathogens using human polyomaviruses and methanobrevibacter smithii, **Liang LIANG**
- 15.15 - 15.30 **O33:** The use of Quantitative Microbial Risk Assessment for the airborne biological risk assessment in occupational settings, **Annalaura CARDUCCI**
- 15.30 - 15.45 **O34:** Estimation of quantitative relationships between pathogens and indicator microorganisms in water using left - censored data, **Daisuke SANO**
- 15.45 - 16.00 **O35:** Incidence of gastrointestinal illness in Sweden and its relationship to daily consumption of cold tap water - results from a Prospective Cohort Study, **Magnus SIMONSSON**
- 16.00 - 16.15 **O36:** Swine manure profile: sanitary surveillance for biofertilizing purposes, **Gislaine FONGARO / Celia Regina MONTE BARARDI**
- 16.15 - 16.30 **O37:** Detection and genotyping of Norovirus from gastroenteritis surveillance and wastewater monitoring in 2012 - 2013 winter, **Shinobu KAZAMA**

16.30 - 17.00 Coffee Break

## 17.00 - 18.30 Session 6

### *Short Oral Presentations of Selected Virtual Posters*

**Chair:** Anna CARRATALÀ, Silvia P. NUNES MONTEIRO, Petros KOKKINOS

- 17.00 - 17.05 **VP1:** Application of digital RT - PCR on food virology: detection of Hepatitis A virus and norovirus in lettuce samples, **Audrey FRAISSE**
- 17.05 - 17.10 **VP2:** Suitability of MS2 coliphage as an indicator for pathogens removal by water treatment processes, **Abid NASSER**
- 17.10 - 17.15 **VP3:** Method development for HAV detection from cake frosting with berries, **Efstathia PAPAFRAGKOU**
- 17.15 - 17.20 **VP4:** Testing for norovirus and recovery of process control in outbreak associated produce items, **Kaoru HIDA**
- 17.20 - 17.25 **VP5:** Environmental surveillance of group A rotavirus (RV - A) in Manaus, Amazonas, Brazil, **Carmen Baur VIEIRA**
- 17.25 - 17.30 **VP6:** Tulane virus as a surrogate to study norovirus behavior in oyster, **Najoua DROUAZ**
- 17.30 - 17.35 **VP7:** Viral pathogens in reclaimed water used for irrigation of food crops, **Xavier FERNANDEZ - CASSI**
- 17.35 - 17.40 **VP8:** Ovine - and bovine - specific viral tools to discriminate between major ruminant sources, **Marta RUSIÑOL**
- 17.40 - 17.45 **VP9:** Improving the public health response to outbreak investigations: establishing molecular methods for virus detection from food matrices, **Jade DERRICK**
- 17.45 - 17.50 **VP10:** Norovirus outbreak: problem in summer camp due to the contaminated well water, **Petra VASICKOVA**
- 17.50 - 17.55 **VP11:** Is Hepatitis E virus an issue in the fresh produce supply chain?, **Martin D' AGOSTINO**
- 17.55 - 18.00 **VP12:** Hepatitis E virus antibodies in Finnish veterinarians, **Tuija KANTALA**
- 18.00 - 18.05 **VP13:** A catchment - level assessment of enteric phage levels in river sediments - implications for waterborne viral disease transmission, **Austen BUCK**
- 18.05 - 18.10 **VP14:** Use of armored RNA particles in the detection of food - borne RNA viruses, **Pavel MIKEL**

18.10 - 18.30 Open Discussion

20.30 Gala Dinner

# Scientific Programme

Friday 5 September, 2014

08.45 - 11.00

## Session 7

### Virus Stability

**Chair:** Scott J. MESCHKE, Christophe GANTZER

08.45 - 09.15

**KS5:** Challenges concerning virus inactivation in food and environment, **Christophe GANTZER**

09.15 - 09.30

**O38:** Experimental evolution and proliferation of UV254 - resistant Echovirus, **Anna CARRATALÀ**

09.30 - 09.45

**O39:** Paleomicrobiology: viruses present in pre - Columbian Caribbean coprolites, **Gary A. TORANZOS**

09.45 - 10.00

**O40:** Evolution and characterization of MS2 bacteriophage and Echovirus 11 resistance to disinfection by ClO<sub>2</sub>, **Qingxia ZHONG**

10.00 - 10.15

**O41:** Aqueous extracts of Hibiscus sabdariffa calyces to control Aichi virus, **Doris D' SOUZA**

10.15 - 10.30

**O42:** The possible role of acanthamoeba polyphaga in spreading and protection against chemical disinfection of human adenovirus type 5 in water, **Marco VERANI**

10.30 - 10.45

**O43:** The use of high intensity pulsed light to inactivate murine norovirus on various food contact surfaces, **Alvin LEE**

10.45 - 11.00

**O44:** Fate of indicator viruses on pork carcasses during commercial processing, **Tineke JONES**

11.00 - 11.30

Coffee Break

11.30 - 13.00

## Food and Environmental Virology: Where are we heading to?

**Chair:** Ricardo SANTOS, Nigel COOK, Maureen TAYLOR, Apostolos VANTARAKIS

11.30 - 12.00

**PL2:** Food and Environmental Virology; building a global community, **Nigel COOK**

12.00 - 13.00

Open discussion on ISFEV - New members - Elections

13.00 - 13.30

**Award ceremony - Close of ceremony**

13.30 - 14.30

Lunch

## Abbreviation

<b>PL</b>	Plenary Lecture
<b>KS</b>	Keynote Speaker
<b>WP</b>	Workshop
<b>O</b>	Oral Presentation
<b>VP</b>	Virtual Poster

# General Information

## Place

Ionian Academy, Corfu Island, Greece

## Date

2 - 5 September 2014

## Conference Language

The official language of the Conference will be English



## Corfu Island and The Ionian Academy



**Corfu** is Homer's island of the Faeakes, the island that bewitched Odysseus, the island beloved of and written about by great writers such as Shakespeare and the Durrells.

Richly endowed by Nature, its colourful appearance remains largely unchanged today-imposing fortresses, evocative buildings, Byzantine churches and monasteries, combined with endless quiet beaches, cool green forests, streams and lakes.



Aside from being a leading centre for the Fine Arts, Corfu is also the home of the **Ionian Academy**. The Ionian Academy happens to be the first Greek University in recent times that was in existence on the island of Corfu Greece from 1824 to 1864. On the 14<sup>th</sup> September, 1943, the Library was destroyed, burned down in a German bombing raid. It was rebuilt at the end of the 20<sup>th</sup> century in order to meet various school and university needs. The auditorium of the Ionian Academy, with its excellent acoustics, has been designed to accommodate the performances organised by the Department of Music Studies of the Ionian University.



## Conference Secretariat

The **MASTERMIND** Group   
Organizing your success

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