

# VIROCON-13: Asia- Pacific Congress of Virology

(17-20 December, 2013)

Day 1: 17 December 2013

**10.00 -10.45**

*Prof Kameshwar Sahay Bhargava Oration*

**Prof Jacob John, Eminent Virologist    Imagining Polio-Free World**

**10.45 -11.00**

**Tea Break**

**11.00 -13.00**

**Plenary Lectures**

## Chairpersons

**Prof M P Yadav**

??????

**Dr Kenneth Earhart**

*Director*

*Global Disease Detection (GDDIC)*

*India Centre, New Delhi*

**Prof Rudra P Singh**

??????

## Plenary Lectures

**Prof Anupam Verma**

**Prof V Ravi**

**Prof Siba K Samal**

**Prof I Karunasagar**

**Agro-ecological evolution of begomoviruses in India**

**A century of rise and fall of human viral diseases**

**Paramyxovirus as vaccine vectors against human and animal pathogens**

**Viral diseases – A challenge to aquaculture industry**

**13.00-14.00**

**Lunch Break**

**14.00-16.00**

**Plenary Lectures**

## Chairpersons

**Prof Anupam Verma**

*Vice President*

*INSA, New Delhi*

**Dr AC Mishra**

*Former Director*

*NIV, Pune*

**Prof Siba K Samal**

*Dean Vety Virology*

*Maryland, USA*

## Plenary Lectures

**Dr Kenneth Söderhäll**

**Prof MP Yadav**

**Prof Rudra P Singh**

**Prof Sita Naik**

**Prof Satya Dandekar**

**Antiviral activity in a crustacean**

...

**Half a century with viroids**

**Hepatitis E: A global perspective**

**Gut feeling: Immunology and genomics of HIV persistence and chronic immune activation**

**0-18.00**

**INAUGURAL FUNCTION**

**Welcome address**

**Introductory Remarks**

**Inaugural Address**

**Address by Chief Guest**

**Awards Ceremony**

**Address**

**Release of book authored by HC Gera**

**Vote of Thanks**

**Dr VM Katoch, Secretary DHR & Director General, ICMR**

**‘Sting in the Buzz’**

**18.00-18.30**

**High Tea**

**16.30-19.30**

**Editorial Board & Executive Council Meeting**

**19.30-21.00**

**Founder President’s Welcome Dinner**

# VIROCON-13: Asia- Pacific Congress of Virology

## Medical Virology: Scientific Sessions

### Chief Coordinators

**V Ravi**, Professor of Neurovirology  
Registrar, NIMHANS, Bangalore

**AC Mishra**, Former Director  
National Institute of Virology, Pune

**18 December 2013:**

### 09.30-01-00 SESSION-I: Influenza/ Respiratory Viruses & Enteroviruses

#### Chairpersons:

**AK Prasad**  
*Influenza Foundation of India*

**Shashi Khare**  
*NCDC, Delhi*

**Reinhard Glueck**  
*Cadila, Ahmedabad*

#### *Invited Lectures*

**D Vijaykrishna**, Singapore  
**Leena Yeolekar**, Pune  
**AK Khera**, New Delhi  
**P K Sinha**, Stuttgart, Germany  
**Priyanka Bhagat**, Cambridge, UK

**Bijantimala Misra**  
Hara, NIMHANS, Bangalore  
**Minal Dakhare**, NIV, Pune

**Origins of influenza epidemics**  
**Influenza vaccines: global and Indian scenario.**  
**Measles elimination: The next challenging milestone in the offing.**  
**RNA-Nanotechnology prospects & challenges in influenza virus infection.**  
**Looking at influenza viruses through molecular eyes: Re-assortment, virulence and drug target genes & role of reverse genetics**  
**Unraveling the role of viruses in myocarditis and possible therapeutic strategy**  
**Childhood and adult onset of subacute sclerosing pan encephalitis**  
**Molecular surveillance of influenza viruses during post pandemic period**

#### *Poster Presentations*

**Roopali Rajput**, VPCI, New Delhi  
**Aswathy Raj**, KMC, Manipal  
**Kunal Patil**, NIV, Pune  
**Suresh G Prabhu**, KMC, Manipal  
**Pooja Sharma**, IGMC, Shimla  
**Ramesh Kumar**, AIIMS, New Delhi  
**Nirmal Kaundal**, Amity & NCDC, Delhi  
**M Sharma**, PGIMER, Chandigarh  
**Maria Gabriel**, Amity, NOIDA  
**DR Pati**, VPCI, Delhi  
**Sachin Kumar**, NCDC, New Delhi  
**S Sarkar**, PGI, Chandigarh  
**Megha Sharma**, PGI, Chandigarh  
**Renu Sharma**, VPCI, Delhi

**Construction and characterization of recombinant scFv antibodies against nucleocapsid and non-structural proteins of Pand Influenza 2009 (H1N1)**  
**Seasonality of influenza virus activity in North Kerala 2010-11**  
**Characterization of Inf B viruses of pandemic and post pandemic period.**  
**Coronaviruses in severe acute respiratory infections in south west India**  
**Post- influenza vaccination sub acute thyroiditis: a case report**  
**Seasonal patterns of influenza: disappearance of Inf B from Delhi and NCR**  
**Molecular characterization and intratypic differentiation of Polio virus**  
**Role of enteroviruses, adenoviruses and coxsackievirus adenovirus**  
**Genetic evolution of hemagglutinin (HA) of pand influenza A 2009 H1N1.**  
**Respiratory viral pathogens in influenza-like illness in Delhi hospitals**  
**Genetic analysis of matrix gene of pandemic Influenza A (H1N1) 2009**  
**Burden of respiratory viruses in ALRI in children in north India**  
**Clinical epidemiological profile of Influenza H1N1 infections at a tertiary care hospital of north India in 2012-13**  
**A comparative indexing of influenza a virus infection in pediatric cases from military hospital vs. civil hospital in Delhi**

### 09.30-01-00 SESSION-II: Neurovirology and AES causing Exotic/ Novel Viruses

#### Chairpersons:

**V Ravi**  
*NIMHANS, Bangalore*

**Sudhanshu Vrat**  
*THSTI & NII, New Delhi*

**Tapan N Dhole**  
*SGPGI, Lucknow*

#### *Invited Lectures*

**DT Mourya**, NIV, Pune  
**Parth T Agrawal**, CCMB, Hyderabad  
**R K Ratho**, PGIMER, Chandigarh  
**Veena Mittal**, NCDC, Delhi  
**S Thangamani**, Texas, USA  
**C. Durga Rao**, IISc, Bangalore

**CCHF in India: Current perspectives**  
**'Mission' Neuro-AIDS**  
**Immunopathogenesis of Japanese Encephalitis**  
**Current National Strategies for prevention & Control of Human Rabies**  
**Arthropod Research in High-Containment Laboratories**  
**Non-polio enteroviruses in acute flaccid paralysis, acute and persistent diarrhea, IFANSI and PIFANSI**

Contd...2/-.

### *Oral Presentations*

S Nandini, PGI, Chandigarh

LK Arya, AMRF, Madurai  
K Muruganathan, Sri Lanka

Sudheesh N, KMC, Manipal  
Jyoti S Kumar, DRDE, Gwalior

### *Poster Presentations*

Hirawati Deval, Gorakhpur  
Asefa Deressa, Adis Ababa, Ethiopia  
Raj Priya, DRDE, Gwalior

Study of susceptibility of human neuronal cell lines to dengue virus type 2 as a marker of neuropathogenesis  
Molecular Diagnosis and Imaging of ocular West Nile virus infection.  
An insight into the 2009/2010 dengue fever/dengue haemorrhagic fever outbreak in the jaffna peninsula, the northern Sri Lanka  
West Nile virus encephalitis in Karnataka and Kerala, India  
Assessment of immunogenic potential and protective efficacy of recombinant envelope candidate molecule against West Nile virus

Persistence of enterovirus excretion in stool samples in AES patients  
Challenges of human rabies diagnosis and supportive treatment in Ethiopia  
Neuropathogenesis of novel ECSA genotype of chikungunya virus with A226V mutation in Mice: Innate Immune response mechanism and inhibitory effect of Poly I:C on virus replication

**13.00-14.00**

### **Lunch**

**14.00-18.00 SESSION-III:**

### **Human-Immunodeficiency Virus and AIDS**

#### *Chairpersons:*

**R Paranjape**  
*NARI, Pune*

**Arvind Rai**  
*NCDC, Delhi*

**Smitha Kulkarni**  
*NARI, Pune*

#### *Invited Lectures*

Suzanne Crowe, Australia  
Shahid Jameel, ICGEB, New Delhi  
David Harrich, Australia  
Gilda Tachedjian, Australia  
Akhil Bannerji, NII, New Delhi  
R Paranjape, NIV, Pune

Issues and challenges in HIV prevention and treatment  
Micro-RNAs and HIV pathogenesis  
Can gene therapy using transdominant Tat cure AIDS?  
Vaginal microbiome metabolites and HIV susceptibility  
HIV Biology and pathogenesis by accessory proteins  
Pathogenesis and immunology of HIV

#### *Oral Presentations*

Sunil K Khattar, Maryland, USA  
Supriya Singh, Oxford, UK  
Sajid Husain, Amritsar  
Larance Ronsard, NII, New Delhi

Immunogenicity of HIV-1 env proteins expressed by NDV vector  
Impact of HLA in immune control of HIV  
Host factors in HIV/AIDS  
HIV-1 Tat exon-1 variants from North India & their functional implications

#### *Poster Presentations*

Hanu Ram, Rohtak & NCDC, Delhi  
Sneh Lata, UCMS, Delhi  
Uma Sharma, NCDC, Delhi &  
Megha Singhal, Chicago, USA  
Rsalin Nayak, LHMC, New Delhi

Genetic mutation(s) in HIV-1 in drug naïve patients  
Effect of natural variation on functional interaction between HIV-1 Tat and Vpr  
Early diagnosis of HIV-1 in Infants born to HIV-1 positive women  
from 7 north-Indian states of India  
Prevalence of HIV/AIDS of all clients of ICTC-LHMC

**14.00-18.00 SESSION-IV:**  
**(Parallel Session)**

### **Viral Hepatitis and Associated Infections**

#### *Chairpersons:*

**Premashish Kar**  
*MAMC, New Delhi*

**Abhay Chowdhary**  
*Haffkin Institute, Mumbai*

**Anita Chakraborty,**  
*MAMC, Delhi Delhi*

#### *Invited Lectures*

Premashis Kar, MAMC, New Delhi  
Virendra Singh, PGIMER, Chandigarh  
Kunal Das, Max Balaji, Delhi  
B Nayak, New Delhi

Epidemiology and clinical presentation of viral hepatitis in India  
Spectrum of complications of viral hepatitis and their diagnostic approach.  
Medical management of viral hepatitis.  
Serological and molecular diagnostic approach in cases of viral hepatitis

### Oral Presentations

Seyed Reza Mohebbi, Tehran, Iran

Sanjay B Rathod, NIV, Pune

MA Ashraf, MAMC, New Delhi

Lack of Association between Transforming Growth Factor- $\beta$ 1 -509C>T and +915G>C polymorphisms and chronic hepatitis B in Iranian patients.  
Naïve and antigen specific expression profiling of peripheral-blood mononuclear cells from patients with self limiting Hepatitis E infection  
Circulation of the predominant genotype 3 of HCV during 2010-12

### Poster Presentations

Shalabh Johri, Dehradun

Artee Chaudhary, NCDC, Delhi  
Kaushal Yadav, Dibrugarh, Assam  
Sharwani, Amity, NOIDA  
CD Poduri, Wagnaghat, HP

Genomic alteration(s) in domain-III of 5'UTR of HCV from hemodialysis patients compared to HCV-HIV co-infected individuals  
Multigene-based molecular diagnostics of HCV  
Hepatitis B Disease Burden in Arunachal Pradesh of Northeast India  
Continued prevalence of HCV genotype 1 and 3 in North India  
HCV: sequence similarities, therapies and the need for reclassification

## 18.00-19.00 SESSION-V Medical Virology: Academia-Industry Interaction for Transfer of Technology

Prof V Ravi, NIMHANS, Bangalore  
Dr RK Ratho, PGIMER, Chandigarh  
Dr Abhay Chowdhary, Haffkine, Mumbai

### Panelists (Medical Virology):

Prof TN Dhole, SGPGI, Lucknow  
Dr Reinhard Glueck, Cadila, Ahmadabad  
Dr Neeraj Aggarwal, Amity, NOIDA  
Dr Sunil Gupta, CRI, Kasauli  
Dr T Mourya, NIV, Pune  
Dr MM Parida, DRDE, Gwalior

### Presentations

V Ravi, NIMHANS, Bangalore  
M M Parida, DRDE, Gwalior  
V Srivastava, Sysbiome Technology

DNA Chip for quick diagnosis of notorious viral pathogens  
LAMP technology for diagnosis of Pandemic H1N1 2009 virus  
Innovation in efficient resource e.management of viral diagnostic lab

19.00-20.00 (Late Evening)

## Joint-Session for Academia-Industry Interaction

### 19 December 2013

## 09.30-01.00 SESSION-VI:

## Dengue and other human arboviral infections

Radha K Ratho  
PGIMER, Chandigarh

Chairpersons:  
Sudhanshu Vrat, THSTI & NII, New Delhi

T Mourya  
NIV, Pune

### Invited Lectures

S Thangamani, Texas, USA  
Mala Chabra, NCDC Delhi  
PK Dash, DRDE, Gwalior  
VK Raina, NVBDCP, New Delhi  
Uma Kumar, AIIMS, Delhi  
UK Misra, SGPGI, Lucknow  
Roop Kumari, NCDC, Delhi

Vector-pathogen-host interface: Nidus of arbovirus transmission  
Expanding horizons of arboviral infections in the Asia-Pacific region  
Evolutionary dynamics of dengue viruses over last five decades in India  
Bionomics and prevention/ control of JE vectors in India  
Viral arthritis with especial reference to chikungunya: an overview  
Recent neurological issues in dengue infection  
Detection of early warning signal for dengue outbreak

### Oral Presentations

S Cattopadhyay, ILS, Bhubaneswar

PDNN Sirisena, Sri Lanka

Faster replication of recent outbreak strains of chikungunya virus: implication in understanding emergence of the epidemic  
Clinical and laboratory profiles of dengue fever (DF) and dengue hemorrhagic fever (DHF) in patients in the Western Province of Sri Lanka

### Poster Presentations

Priyanka Singh, NCDC, Delhi  
Preeti Thakur, MAMC, New Delhi  
Soma Chattopadhyay, ILS, Bhubaneswar  
RC Pandya, Surat

Epidemic re-emergence of chikungunya virus in the Indian subcontinent  
Role of interleukin-5 and TNF-alpha in the pathogenesis of dengue  
Generation of Chikungunya virus non-structural protein-2 monoclonal antibody  
A dengue case management: retrospectively analysis of diseases burden, prevalence and upbeat participation of private hospitals  
Analysis of domain III of *env* gene for evolutionary study of DEN-1 serotype  
Assess impact of dengue and chikungunya control measures along with monitoring of viruses in field caught *Ae. aegypti* in Surat city, India  
'Arbovirus Toons': Cartoon Exhibition

Pankaj Sharma, NCDC, Delhi  
Keshav G Vaishnav, Surat

H C Gera, Ex-NVBDCP, Chandigarh

13.00-14.00

## Lunch

Contd...4/-

Contd on.....19 December 2013

**14.00-16.00      SESSION-VII:**

**Innovative clinical and molecular virology**

**Lalit Dar**  
AIIMS, New Delhi

**Chairpersons:**  
**Tapan Dhole**  
SGPGI, Lucknow

**Digvijay Singh**  
IGMC, Shimla

*Invited Lectures*

A K Sinha, NDMA, New Delhi  
LE Ayalew, Saskatchewan, Canada

Radhika Tandon, AIIMS  
DK Mitra, AIIMS, New Delhi  
MM Parida, DRDE, Gwalior  
Anant Mohan, AIIMS, New Delhi  
AK Bagga, ICMR, New Delhi

*Oral Presentations*

Poornima Sen, VPCI, New Delhi  
Sheetal Chauhan, RPCentre

*Poster Presentations*

Kritika Singh, AIIMS, New Delhi  
M Marbaniang, PGI, Chandigarh

Kamran Zaman, PGI, Chandigarh  
Uma Sharma, NCDC, Delhi  
B K Jha, PGI, Chandigarh

Emerging Viral Infections and Global Bio-security  
Interaction of DDX3 and Bovine adenovirus-3 pVIII modulate the cellular mRNA translation by excluding eIFs from cap binding complex  
Clinical management of ocular viral infections in the Indian sub-continent  
IL-10 producing tregs leads to breakdown of TB in HIV positive individuals  
Future virus research in bio-defense perspectives  
Clinical presentation and management of human viral infections  
Creation of National network for virology: DHR perspective

Toll like receptors expression analysis in viral infection during acute asthma  
Human papillomavirus in malignant ocular tumors

Tracing gene fingerprints of Human herpes viruses in different ocular lesions  
Comparison of various methods using different Cryoprotectants for the preservation of Hep-2 cells in liquid nitrogen  
Role of TNF-  $\alpha$  gene polymorphism in influenza patients  
TT virus in multi-transfused thalasemic children and blood donors  
To study the effect of lyophilization on infectivity and viral load of adenovirus

**14.00-18.00      SESSION-VIII:**

**Viral Vaccines, Antiviral Agents & Therapeutic Approaches**

**Sunil Gupta**  
CRI, Kasauli

**V Ravi**  
NIMHANS , Bangaluru

*Invited Lectures*

Sudhanshu Vrat, THSTI & NII  
Reinhard Glueck, Zydus-Cadila  
Anirban Basu, NBRC, Manesar

J Ramachandran, Ganga Gen Biotech

*Oral Presentations*

Madhu Khanna, VPCI, Delhi

Tanvi Khera, ICGB, Trieste, Italy  
G Nagalakshmi, Jadavpur, Kolkata

Sukumar Saha, Bangladesh

Jyoti S Kumar DRDE, Gwalior

Japanese encephalitis : development of novel vaccine candidates  
Vaccinology: History, Present and Future  
Molecular events during JE virus infection: towards novel therapeutic targets  
Phage-based therapeutics: will this novel approach bring revolution ?

Matrix epitope-based DNA vaccine provides significant protection to mice against lethal H1N1 virus challenge  
Molecular immunology of dengue vaccine development  
Synthesis, Characterization and Antiviral Evaluation of Some Novel 2-[(substitutedphenyl/heteroaryl)imino]-3-phenyl-1,3-thiazolidin-4-ones  
A DNA vaccine expressing nucleoprotein (NP) and HSV genes (VP22) induces high protection against influenza virus  
Immunogenic potential and protective efficacy of recombinant envelope candidate molecule against West Nile Virus

-----