



International Union for the Scientific Study of Population  
Union Internationale pour l'Étude Scientifique de la Population  
Unión Internacional para el Estudio Científico de la Población

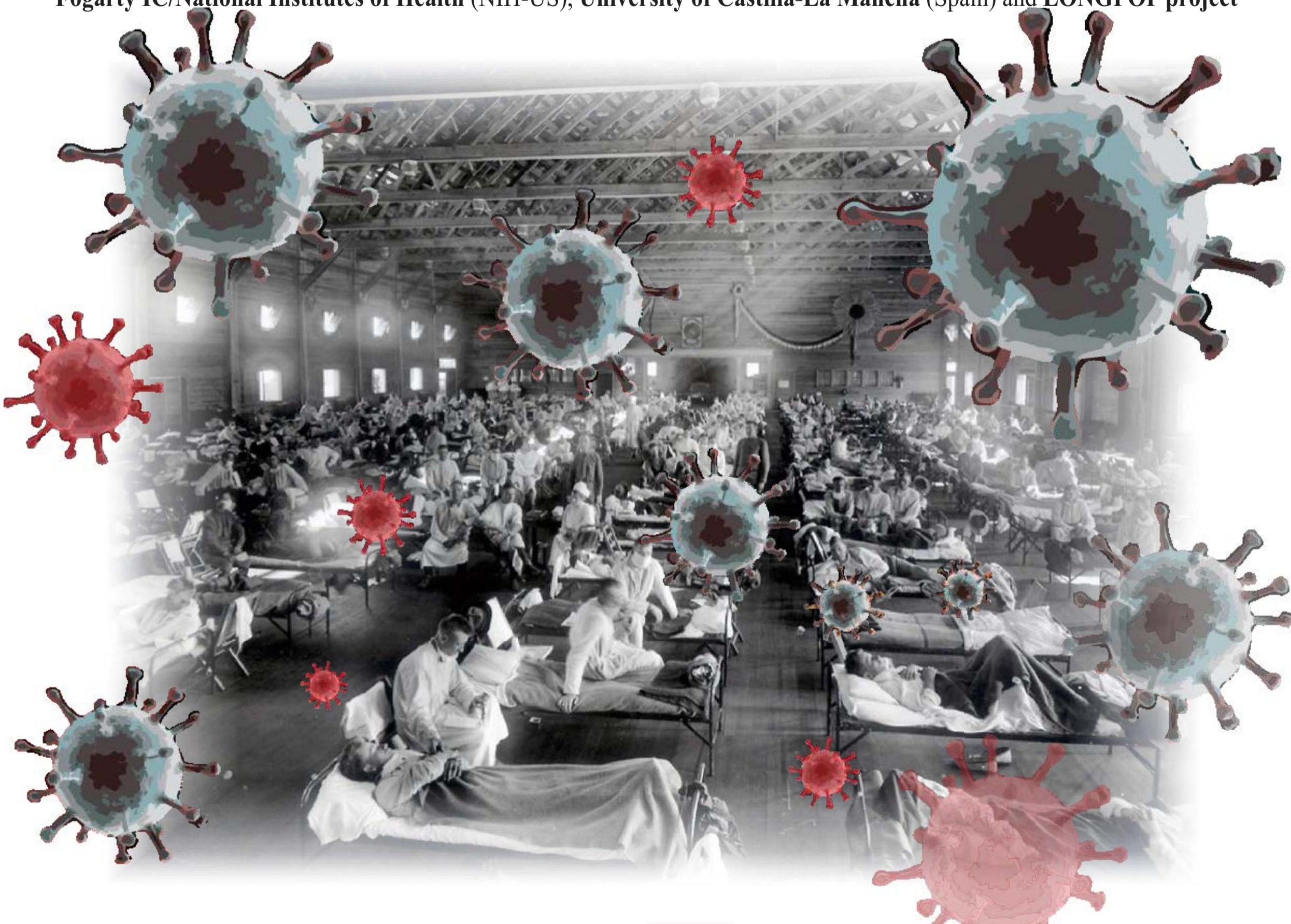
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*International Seminar on*

# Pandemics: Reflections on the Centennial of the 1918 Spanish Influenza Virus

*Madrid, Spain, 27-29 November 2017  
Centre for Humanities and Social Sciences  
Spanish National Research Council*

Seminar organized by the IUSSP Scientific Panel on Historical Demography & Spanish National Research Council (Spain), Fogarty IC/National Institutes of Health (NIH-US), University of Castilla-La Mancha (Spain) and LONGPOP project\*



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*International Seminar on*  
**Pandemics:**  
**Reflections on the Centennial of the 1918**  
**Spanish Influenza Virus**

Organised by the IUSSP Historical Demography Panel, the Spanish National Research Council (Spain),  
LONGPOP-ITN Project, Fogarty IC/National Institutes of Health (U.S.) &  
University of Castilla-La Mancha (Spain).

**Madrid, Spain, 27-29 November 2017**  
**Centre for Humanities and Social Sciences**  
**Spanish National Research Council**  
**Calle Albasanz 26**

**Monday 27 November**

- 9:30**                      **Registration opens.**
- 10:00 – 13:00**            **Pre-meeting Training: Epidemic modelling.**  
**Time series and disease burden models.**  
Cécile Viboud (Fogarty International Center, National Institutes of Health USA) and  
Lone Simonsen (Fogarty International Center, National Institutes of Health USA) and  
Department of Global Health, George Washington University, DC, USA)).  
**Infectious disease dynamic models.**  
Gerardo Chowell (Fogarty International Center, National Institutes of Health USA)  
and Georgia State University, GA USA)).  
*Part of Demography Today Lecture Series sponsored by FBBVA-CSIC (H2020-  
LONGPOP project).*
- 13:00 – 14:30**            **Lunch at CCHS-CSIC**
- 15:00 - 15:30**            **Opening. Introduction & seminar overview.**
- 15:30 – 17:00**            **Session 1: 1918 in the context of influenza pandemics.**  
Chair and discussant: Tommy Bengtsson (Centre for Economic Demography (CED)  
and Department of Economic History, Lund University, Sweden).
- Centennial Reflections on the 1918 Spanish Influenza Pandemic: Lessons Learned  
and Remaining Puzzles***  
Lone Simonsen (Fogarty International Center, National Institutes of Health USA), and  
Department of Global Health, George Washington University, DC, USA)).



### ***Herald Pandemic Waves in 1918: Importance for Contemporary Pandemic Response Strategies***

Cécile Viboud, Lone Simonsen, Gerardo Chowell, Viggo Andreasen, John Barry and Don Olson (Fogarty International Center, National Institutes of Health USA, Department of Global Health, George Washington University, DC, USA), Georgia State University, GA USA), Roskilde University (Denmark), Tulane University, School of Public Health and Tropical Medicine and New York City Department of Health and Mental Hygiene, New York, NY USA)).

### ***Estimates of the total number of deaths associated with influenza pandemics during the last 100 years: an assessment using the Human Mortality Database.***

Peter Spreeuwenberg, Madelon Kroneman and John Paget, NIVEL, the Netherlands.

**19:00 – 20:30**

#### **FBBVA-Demography Today Lecture Series**

**Title:** [Transmission Dynamics and Epidemiology of Pandemic Influenza](#)

Cécile Viboud (Fogarty International Center, National Institutes of Health USA)).

*Palacio del Marqués de Salamanca, Paseo de Recoletos, 10.*

*How to arrive:* <https://goo.gl/maps/xDKRTyZPRh92>

*There will be a Bus taking all the participants from the CCHS-CSIC at 18:15 to FBBVA, from FBBVA to the Opening dinner and back to hotels.*

**21:00**

#### **Opening Dinner. Residencia de Estudiantes CSIC.**

*Know more about Residencia de Estudiantes here* <http://www.residencia.csic.es/en/pres/presenta.htm>

*How to arrive:* <https://goo.gl/maps/YzWEyDsA9EU2>

*There will be a Bus taking all the participants from FBBVA to the Opening dinner and back to hotels.*



**Tuesday 28 November**

**9:00 - 10:30**

**Session 2: Determinants and effects of Influenza mortality.**

Chair and discussant: Cécile Viboud (Fogarty International Center, National Institutes of Health USA)).

***The long lasting influenza: The impact of fetal stress during the 1918 influenza pandemic on socioeconomic attainment and health in Sweden 1968-2012***

Tommy Bengtsson and Jonas Helgertz (Centre for Economic Demography (CED) and Department of Economic History, Lund University, Sweden).

**Social Inequality? A Forgotten Factor in Pandemic Influenza Preparedness.**

Svenn-Erik Mamelund (Work Research Institutes, Oslo and Akershus University College).

***Determinants of Influenza Mortality Trends in the U.S. 1959-2015.***

Enrique Acosta (Université de Montréal), Stacey A. Hallman (Statistics Canada), Nadine Ouellette (Université de Montréal), Lisa Dillon (Université de Montréal), Robert Bourbeau (Université de Montréal), D. Ann Herring (McMaster University), Kris Inwood (University of Guelph), David J.D. Earn (McMaster University), Joaquin Madrenas (UCLA Medical Center), Matthew S. Miller (McMaster University) and Alain Gagnon (Université de Montréal).

**10:30 – 11:00**

**Coffee break**

**11:00 – 13:00**

**Session 3: The 1918 Influenza Pandemic in Urban Areas**

Chair and discussant: *Esteban Rodríguez Ocaña (University of Granada, Spain).*

***The 1918 flu pandemic and the epidemiologic transition in 20th century mortality in New York City.***

Don Olson (Fogarty International Center, National Institutes of Health USA and New York City Department of Health USA).

***The Spanish Influenza in Madrid: Excess Mortality by Age in Four Consecutive Waves.***

Laura Cilek (CCHS-CSIC, Spain), Gerardo Chowell (Fogarty International Center, National Institutes of Health USA) and Georgia State University, GA USA)), Diego Ramiro Fariñas (CCHS-CSIC, Spain).

***The 1918 influenza pandemic in Montevideo: the southernmost capital city in the Americas.***

Juan Cristina, Raquel Pollero and Adela Pellegrino (Universidad de la Republica, Uruguay).

***Four Waves of Spanish Influenza in Madrid: Examining strength and timing differences across space.***

Laura Cilek (CCHS-CSIC), Diego Ramiro Fariñas (CCHS-CSIC) and Beatriz Echeverri Davila (GESP, UCM) (Spain).



13:00 – 14:30

Lunch at CCHS-CSIC

14:30 – 16:30

**Session 4: Influenza around the World (I).**

Chair and discussant: Diego Ramiro Fariñas (CCHS-CSIC).

***A plausible estimate of the Spanish influenza deaths in Japan, 1918-1920***

Tim Riffe and Andrew Noymer (Max-Planck-Institute for Demographic Research, Germany and University of California, Irvine USA)).

***Spanish Flu in a tropical setting: The case of colonial Suriname 1918 – 1919***

Alphonse L. MacDonald (Former Senior United Nations Official/Senior Adviser (Methodology) General Bureau of Statistics (ABS) Suriname).

***Spatial-temporal excess mortality patterns of the 1918-1919 influenza pandemic in India.***

Bansal Shweta and Olivia Reyes (Georgetown University).

***Influenza Epidemic in British India in 1918-1919: A Case Study of Punjab Province***

Ritu Ranolia (Research Scholar Jawaharlal Nehru University) and Arvind Yadav (Assistant professor, Delhi University, India).

16:30 – 17:00

Coffee break.

17:00 – 18:30

**Session 5: Influenza around the World (II).**

Chair and discussant: Beatriz Echeverri Dávila (UCM-GEPS).

***Popular Explanations of Mass Epidemic Death: Continuities and Discontinuities from Spanish flu to HIV/AIDS in Rural South Africa***

Howard Phillips (University of Cape Town).

***Diffusion and responses to Pandemic Influenza in Nyasaland: 1918***

Evanson Z. Sambala (School of Public Health, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa).

***Influenza, WWI and Baby Bust and Boom in Colonial Malta.***

Lianne Tripp (University of Northern British Columbia, Canada), Larry Sawchuk, Mahinda Samarakoon (University of Toronto, Scarborough, Canada).

21:00

**Dinner: Hotel Santo Domingo. Salón Belvedere.**

How to arrive: <https://goo.gl/maps/hjCTwT5oHAX>

There will be a Bus taking all the participants from CCHS-CSIC at 20:15 to the restaurant and back to hotels.



## Wednesday 29 November

9:00 - 11:00

### Session 6: Influenza around the World (III).

Chair and discussant: *María Isabel Porrás Gallo (University of Castilla-La Mancha).*

#### ***Death Records for an Indigenous Population from the 1918 Influenza pandemic: New Zealand Maori***

Geoffrey W. Rice, University of Canterbury, Christchurch, New Zealand.

#### ***Age-specific mortality patterns and transmissibility during the 1889-90 influenza pandemic in Madrid, Spain.***

Gerardo Chowell (Georgia State University, Atlanta, Georgia, USA and Fogarty International Center, National Institutes of Health, Bethesda, MD, USA), Diego Ramiro, Sara Garcia, Yolanda Casado and Laura Cilek (CCHS- CSIC, Spain).

#### ***Quantifying the mortality impact of the 1918-1921 influenza pandemic in the state of Arizona, USA.***

Dahal Sushma (Georgia State University, USA), Melinda Jenner (Arizona State University, USA), Linh Dinh (Georgia State University, USA), Kenji Mizumoto (Hokkaido University, Japan), Cécile Viboud (Fogarty IC/National Institutes of Health, USA), Gerardo Chowell (Georgia State University, USA; Fogarty IC/National Institutes of Health, USA).

#### ***The 1918 Pandemic influenza in Mexico, the worst-case scenario.***

Rodolfo Acuña-Soto (Universidad Nacional Autónoma de México).

11:00 – 11:30

### Coffee break

11:30 – 13:00

### Session 7: Influenza in the late XXth and Early XXIst Centuries.

Chair and discussant: Lone Simonsen (Fogarty International Center, National Institutes of Health USA), and Department of Global Health, George Washington University, DC, USA).

#### ***A tale of two pandemics: Gompertzian patterns of influenza mortality age shifts, United States, 1959-2015.***

Alexandra Mardock (UCLA, Los Angeles, USA), Andrew Noymer (University of California, Irvine, USA) and Cécile Viboud (Fogarty International Center, National Institutes of Health Bethesda, Maryland, USA).

#### ***Burden and Epidemiology of Influenza- and Respiratory Syncytial Virus-Associated Severe Acute Respiratory Illness Hospitalization in Madagascar, 2011-2016.***

Joelinotahiana Rabarison (Institut Pasteur de Madagascar), Aina Harimanana (Institut Pasteur de Madagascar), Stefano Tempia (Influenza Division, Centers for Disease Control and Prevention, Atlanta, United States of America, Influenza Program, Centers for Disease Control and Prevention, Pretoria, South Africa), Julia Guillebaud (Institut Pasteur de Madagascar), Norosoa Razanajatovo (Institut Pasteur de Madagascar), Maherisoa Ratsitorahina (Ministry of Public health in Madagascar), Lamina Arthur Rakonjanabelo (World Health Organization, regional office of Madagascar), Jean-Michel Heraud (Institut Pasteur de Madagascar).



***Can influenza-related news influence ARI/ILI outbreaks in 2013?: a sentinel study in Piura, Peru.***

Víctor R. Ocaña-Gutiérrez (School of Medicine, Universidad Nacional de Piura, Peru) and Elisa M. Vidal-Cárdenas (Department of Parasitology. U.S. Naval Medical Research Unit No. 6 (NAMRU-6) Lima, Peru).

**13:00 – 14:30**

**Lunch at CCHS-CSIC**

**14:30 – 15:30**

**Session 9: Influenza preparedness.**

Chair and discussant: Gerardo Chowell (Fogarty International Center, National Institutes of Health USA) and Georgia State University, GA USA).

***Establishing an Integrated Influenza Surveillance System plus Real-time Epidemiological Data Analyses can Minimize Pandemic Threat to Global Health.***

Chwan-Chuen King (National Taiwan University (NTU), Taipei, Taiwan, Republic of China (R.O.C.)), Ta-Chien Chan (Academia Sinica, Taipei, Taiwan, R. O. C.), Pei-Yi Ho (National Taiwan University (NTU), Taipei, Taiwan, Republic of China (R.O.C.)), Ting-Chia Weng (National Cheng Kung University Hospital, Tainan, Taiwan, R. O. C.), Han-Yi Robert Chiu (Technical Mission of Republic of China to The Republic of the Marshall Islands, International Cooperation and Development Fund, Taiwan, R. O. C. and Inst. of Immunology, NTU College of Medicine, Taipei, Taiwan), Chun-Hua Alan Chang (Academia Sinica, Taipei, Taiwan), Pin-Han Lin (Dept of Public Health, NTU-CPH, Taipei, Taiwan), Chin-RurYang (Inst. of Immunology, NTU College of Medicine, Taipei, Taiwan), Fuh-Yuan Shih (NTU Hospital, Taipei, Taiwan), Shey-Ying Chen (NTU Hospital, Taipei, Taiwan), Cheng-Chung Fang (NTU Hospital, Taipei, Taiwan), Chia-Chi Ku (Inst. of Immunology, NTU College of Medicine, Taipei, Taiwan), Chen-Chih Chen (National Pingtung University of Science and Technology, Pingtung, Taiwan), Pei-Shih Chen (Kaohsiung Medical University, Kaohsiung, Taiwan, R. O. C.), Yu-Ming Chen (National Taiwan University (NTU), Taipei, Taiwan, Republic of China (R.O.C.)), Yu-Tang Chen (National Taiwan University (NTU), Taipei, Taiwan, Republic of China (R.O.C.)), Wei Liu (National Taiwan University (NTU), Taipei, Taiwan, Republic of China (R.O.C.)), Chuan-Liang Kao (National Taiwan University (NTU), Taipei, Taiwan, Republic of China (R.O.C.)), Chang-Chun Lee (Academia Sinica, Taipei, Taiwan), Shu-Yuan Chang (NTU College of Medicine, Taipei, Taiwan), Lih-Chiann Wang (NTU School of Veterinary Medicine, Taipei, Taiwan), Cho-Hua Wan (NTU School of Veterinary Medicine, Taipei, Taiwan), Chung-Yi Wu (Academia Sinica, Taipei, Taiwan), Hsieh-Cheng Han (Academia Sinica, Taipei, Taiwan), and Yen-Jen Oyang (Graduate Institute of Biomedical Electronics and Bioinformatics, Taipei, Taiwan).

***Avian Influenza Virus: Early pandemic, Transmission, Threat to Human health and Epidemiological Review in Sustainable development Era.***

Benjamin Bob (Akwa Ibom State Government (Ministry of Works) Nigeria).

**15:30-16:30**

**Closing discussion.**

Discussant Esteban Rodríguez Ocaña (University of Granada, Spain).