

**Ilaria Capua**

**Curriculum Vitae**

**Name:** Ilaria Capua

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**Date of birth:** 21<sup>st</sup> April, 1966

**Nationality:** Italian

**Gender:** Female

**Marital Status:** Married, 1 child

**Languages:** Italian, English (fluent), German (basic)

**CURRENT POSITION**

- Director of the One Health Center of Excellence for Research and Training, University of Florida

**MOST RECENT PREVIOUS POSITIONS**

- Member of the Italian Parliament (15 March 2013- 28 September 2016), in the political party founded by former Prime Minister and EU Commissioner, Mario Monti
- Vice- President of the 7<sup>th</sup> Parliamentary Commission “Culture, Science and Education”
- Director of the Division of Comparative Biomedical Sciences at the Istituto Zooprofilattico Sperimentale delle Venezie (IZSVE), Legnaro (Padova - Italy).
- Director of the FAO/OIE and National Reference Laboratory for Avian Influenza and Newcastle Disease, OIE and National Collaborating Center for Diseases at the Human - Animal Interface (on leave of absence following my election as a Member of Parliament)

**RECENT PROFESSIONAL ASSIGNMENTS**

- 2013- 2018: Visiting Professor, University of Glasgow, Center for Virus Research
- 2012: Member of the International Severe Acute Respiratory and Emerging Infection Consortium (ISARIC) - Advisory Board
- 2012-ongoing: Member of the EFSA Panel on Animal Health and Animal Welfare
- 2011-ongoing: Member of the OFFLU working group on Human Animal interface issues of animal influenzas
- 2009: Senior Policy Advisor to the Director, National Center for Zoonotic Vector-borne and Enteric Diseases, CDC Atlanta, USA
- 2009-2011: Member of the Scientific and Technical Advisory Group to the WHO’s Global Influenza Programme
- 2009-2010: Stream leader (Stream 1: Human animal interface and emergence of novel pandemic viruses) for WHO’s Global Research Agenda on Influenza

- 2009-2010: Wellcome Trust Advisory Group on Influenza research
- 2004-2010: Chairman of the Executive Committee of OIE/FAO Network on Animal Influenza (OFFLU)
- 2006-2009: Member of the Advisory Group to the EU Commissioner for Research on the EU 7<sup>th</sup> Framework Programme in the area “Food, Agriculture and Biotechnology”.
- 2007-2010: Member of the Networking Executive Committee of the US Centres of Excellence on Avian Influenza funded by NIH/NIAID
- 2003-2006: Member of the EFSA (European Food Safety Authority) Panel on Animal Health and Animal Welfare.
- 2001-ongoing: OIE working groups for the revision of the chapters of the OIE Manual of Diagnostic Tests and Vaccines for Terrestrial Animals and member of “Ad hoc” working groups
- 2001/2004: Nominated OIE/FAO Expert for avian influenza and Newcastle Disease.

#### MAJOR INTERNATIONAL AWARDS AND HONOURS

- **2014 - Excellence Award in the field of Clinical Microbiology and Infectious Diseases by the recognition has been dall'ESCMID attribute, the European Society of Clinical Microbiology and Infectious Diseases (ESCMID)**
- 2013- “Guido Lenghi e Flaviano Magrassi” International award by the Italian Academy of Sciences (Accademia dei Lincei)
- 2013 – Inducted into the Hall of Fame of the World Veterinary Poultry Association
- 2012 - Gordon Memorial Medal (UK) for her distinguished contributions to poultry science
- 2011 - Penn Vet World Leadership in Animal Health Award from the University of Pennsylvania (USA), the most prestigious award in veterinary medicine
- 2008 – “Revolutionary Mind” by Seed magazine for his leadership role in sharing information internationally
- 2008 – Charnock Bradeley Lecture, University of Edinburgh
- 2007 - Scientific American 50, awarded annually to the world's top 50 researchers for leadership in science policy
- 2006 - PROMED 2006 “Reporting on the Internet”
- 2005 - Career Achievement Award of “Houghton Trust” (UK)

#### MAJOR NATIONAL AWARDS

- **2015 - Life Gates Award**
- **2014 - Member of the Italian Galilean Academy**
- 2012- Order of Merit of the Italian Republic (Grande Ufficiale della Repubblica Italiana)
- 2012 – “Gentile da Fabriano” national award in “Science, Research and Innovation”
- 2012 - "Fabbricatori di Idee", Festival Città Impresa award for "her ability to create new ideas and her contribution to a new phase of scientific development “
- 2009 – “Grande Ippocrate” award for the medical researcher of the year
- 2009 – “Casato Prime Donne” award, a recognition for leading women in society
- 2008 - “G. Bogoni” national award for veterinary medical career

#### GLOBAL INITIATIVES

- 2006: I ignited an international debate on transparency and sharing of genetic information on panzootic H5N1 strains, across disciplines. My advocacy of increased openness was endorsed by OIE, FAO and WHO, and resulted in resolutions towards a greater transparency with consequent prospects

for improved public and animal health. The sharing of avian influenza virus sequences to allow a better understanding of animal and human influenza infections has now become a core part of the global influenza preparedness strategy.

This initiative was reported by the international non-scientific press (The Wall Street Journal, The New York Times, Washington Post) and obtained significant coverage and support by Science and Nature magazines.

- 2004- 2009: Chairman of the Executive Committee of OFFLU Network, and OIE/FAO network in support of countries affected by the Avian influenza virus. The network promotes the exchange and analysis of virus strains responsible for the H5N1 outbreak and represents a link between the veterinary community and the WHO

## **EDUCATION**

- PhD: University of Padova, Italy 2007. "Public Health, Veterinary Hygiene and Hygiene of Animal production - Avian Influenza: review on epidemiology and aspects of pathogenesis and control"
- PhD: University of Pisa, Italy 1991. "Animal health and hygiene of animal breeding and production"
- DVM: University of Perugia, Italy 1989, Graduation with honours (110/110 cum laude)

## **TRAINING**

- VLA Weybridge, UK selected periods 1992, 1993, 1994. Training on avian and mammalian virology and collaborative studies
- Moredun Research Institute, Edinburgh, UK, 1995 Training on Malignant Catarrhal Fever diagnosis
- IAH, Pirbright UK, 1995. Training on viral exotic diseases of ruminants and equids
- Special Pathogens Unit, National Institute for Virology, Johannesburg, RSA 1996. Training on haemorrhagic fever diagnosis

## **WORK HISTORY**

17 June 2016 – Present: Director of One Health Center of Excellence for Research and Training

15 March 2013- 28 September 2016: Member of the Italian Parliament, (Camera dei Deputati); Vice-president of the 7th Parliamentary Commission "Culture, Science and Education"

Previous position description: Director of the OIE/FAO and National Reference Laboratory for Avian Influenza and Newcastle Disease, the OIE Collaborating Centre for Diseases at the Human- Animal Interface and the Division of Comparative Biomedical Sciences (2010-2013), formerly of the Research and Development Department at the Istituto Zooprofilattico Sperimentale delle Venezie (IZSve), Legnaro (Padova), Italy.

My staff has grown from <10 to 70 individuals in 10 years under my supervision, and is now a leading international group in the field of influenza virology and on emerging viral diseases. It includes both Italian and foreign scientists and hosts annually 5-10 scientists coming from abroad for training or joint research activities. The group has significant collaborations with international organizations and NGO's for empowerment of diagnostic facilities in developing countries. I annually manage a research budget of 2-3 million euros, which fund over 30 temporary employees, consumables and equipment. The budget related to the permanent members of staff is managed by the Institute Administration Unit. I report to the Director of Science and Director General and manage 5 levels of staff below my position.

1997-1998

Head of the Virology Department and Research Centre for Exotic Diseases, Istituto Zooprofilattico Sperimentale dell' Abruzzo e del Molise di Teramo, Italy

1994 – 1997

Head of the Virology Department and Head of Anatomy-Histopathology Department, Istituto Zooprofilattico Sperimentale dell' Abruzzo e del Molise di Teramo, Italy

1991 – 1994

Scientist in the Diagnostic Virology Laboratory, Istituto Zooprofilattico Sperimentale dell' Abruzzo e del Molise, Teramo, Italy

1989-1990

Scientist in the Diagnostic Serology Laboratory of the Istituto Zooprofilattico Sperimentale dell'Umbria e delle Marche, Perugia, Italy

## **MAIN RESEARCH ACTIVITIES**

- Coordination of EFSA FLURISK project (2012-2013)
- Management of EU FP7 PREDEMICS (2011-2016) project as partner
- Management of EU FP6 funded projects FLUAID and FLUTRAIN (as coordinator)
- Participation (as partner) in EU funded projects and Network of Excellence: FLUPATH, FLU-LAB-NET, FLURESIST; FLUBIRD, EPIZONE; RabMedControl; EPIZONE
- International collaborations on the molecular evolution of influenza viruses, development and evaluation of novel intervention strategies for rabies (post-exposure prophylaxis) and influenza (vaccination)
- Development of pan reactive vaccines against influenza infections (national grants)
- Investigation on the occurrence and significance of selected mutations in the HA and PB2 genes of influenza viruses
- Investigations on the metabolic consequences of influenza infection, with particular reference to glucose metabolism and pancreatic function

My group is currently involved in 29 national and 12 international research projects. Since 1993 I have coordinated/participated in over 50 projects.

## **INTERNATIONAL TRAINING AND TEACHING EXPERIENCE**

### **ACADEMIC APPOINTMENTS:**

Since 2002 - Guest lecturing at the University of Florida, University of Pennsylvania, University of Maryland, University of North Carolina, Royal Swedish Academy, Utrecht University, University of Ghent, University of Vienna, University of Tokyo, University of Georgia,, Swedish Veterinary Institute, National Veterinary Institute of Pulawj, Poland.

1998-1999/2000-2002

Contract Lecturer in Avian Pathology at the University of Padua, Faculty of Veterinary Medicine

1995-1997

Lectures on viral diseases in the framework of the course “Infectious Diseases of Domestic Animals” at the University of Teramo, Faculty of Veterinary Medicine

#### **ORGANIZATION OF INTERNATIONAL CONFERENCES:**

- 3 February 2011. Organizer of “An Update on Human Health Implications of Animal Influenza Viruses”. Legnaro (Padova) - Italy
- 31 January – 3 February 2011. Co-Organizer with CDC Atlanta of the “One Flu” Strategic Retreat. Castelbrando (Treviso) – Italy
- 27-29 April 2010. Organizer of the “Second FAO-OIE-WHO Joint Scientific Consultation: Influenza and Other Emerging Infectious Diseases at the Human Animal Interface”. Verona - Italy
- 9 March 2010. Co organizer with EC of the “EU Research on Influenza: New Results, New Challenges”. Legnaro (Padova) - Italy
- 7-9 October 2008. Organizer of the “First OIE/FAO/WHO technical consultation on avian influenza at the human-animal interface”. Palazzo Verità Poeta, Verona - Italy
- 20 – 22 March 2007. Organizer of the “Vaccination: a tool for the control of avian influenza OIE/FAO/IZSve Conference”. Palazzo della Gran Guardia, Verona - Italy
- 3-6 April 2006. Organizer of the “6th International Symposium on Avian Influenza”. St John’s College, Cambridge - UK
- 7 October 2005. Organizer of the “Joint OIE/WHO/FAO meeting on the H5N1 crisis”. Venice - Italy
- 8-10 November 2004. Organizer of the “OIE meeting Ad hoc group on AI for the updating of the Code Chapter on AI”. Legnaro (Padova) - Italy
- 20-21 June 2002. Organizer of the “8th Joint annual meeting of the Newcastle disease and Avian Influenza Reference Laboratories of countries of the EU”. Legnaro (Padova) - Italy
- 14-17 April 2002. Member of the organizing committee of the “5th International Symposium on Avian Influenza” Athens, Georgia - USA
- 15-16 November 2001. Organizer of the “Meeting of Member States’ national experts for avian influenza on the development and application of an N1-N3 discriminatory test in the framework of the control of avian influenza through vaccination with a heterologous vaccine”. Legnaro (Padova) - Italy

#### **GUEST LECTURING:**

I have been invited to attend over 100 international conferences as a guest lecturer/keynote speaker.

#### **RECENT RELEVANT LECTURES**

September 2015: Lecture at the ECDC Second Joint Strategy Meeting “Preparing and responding to influenza and other cross-border threats and what is expected from ECDC in the next ten years”

July 2015: Festival of Science

July 2015: lecture on “Leadership in Science”, University of Turin

July 2015: EXPO Milan “The future of the global food system

June 2015: TEDX Pompeii "Life at Pompeii"  
June 2015: EXPO Milan "Food safety and risk. how to restore consumers' trust?"  
May 2015: Milan, TedxWomen "Unlock the future"  
April 2015: Rome ""Nothing is permanent except change: challenging dogmas in your professional and personal life", St George's International School  
February 2015: College Station (USA), ""Nothing is permanent except change: challenging dogmas in your professional and personal life" – Leadership Seminar  
February 2015: College Station (USA), College of Veterinary Medicine "Zoonotic viruses and globalisation - bridging science to politics"  
February 2015: Philadelphia (USA), University of Pennsylvania, "Zoonotic viruses and globalisation - bridging science to politics"  
February 2015: Washington DC (USA), Italian Embassy "Nutrition and global health" – Supported by the Aspen Institute  
December 2014: Rome, "Data sharing in the face of emerging epidemics, bridging science to politics", ResearchData Alliance, Global Data and Computing -Infrastructure challenges  
November 2014: Milan, Bocconi University – Seminar on leadership (Non sono riuscita a trovare il link per risalire al titolo)  
November 2014: Stockholm, 8TH European Scientific Conference on Applied Infectious Disease Epidemiology (ESCAIDE) 2014 – "Globalisation and pathogens" Key note speaker  
October 2014: Cagliari (Sardinia), International Conference "Innovative approaches for the identification of novel antiviral agents", Lecture on Ebola  
October 2014: WIRED "Hack the EXPO", Member of the Jury to select the most innovative projects  
September 2014: Riga (Latvia), 5th European Scientific Working group on Influenza (ESWI) Conference "Close encounters of the third kind: scientists in politics"  
December 2013: Cortina d'Ampezzo (Belluno), YOUCORTINA – Italy and Research  
November 2013: Milan, The power of New Culture, Guest speaker  
November 2013: Venice *Lectio Magistralis* delivered to the Graduate Students of Ca' foscari University, St. Mark's Square  
November 2013: Milan, Meeting with Kathryn Chapman, Head of Innovation and Translation, UK National Centre for the Replacement, Refinement and Reduction of Animals in Research  
September 2013: Milan, Women in Business and Society – How to overcome the boundaries  
June 2013: Venice, Ca' Foscari University, *Lectio Magistralis* to PhD students "To act beyond the schemes: a moral duty"

## OTHER

I have participated in several (@25) TV shows and in many (@40) radio shows broadcast in Italy and abroad as scientist/opinion leader in science. I am often interviewed by the national and international press on topics pertaining to my area of expertise. I have been included as one of the ten Italian innovators by Sole24Ore, the main Italian financial newspaper (2009), and as one of the Italian talents featured in the Economist "The World in 2013". I have been the subject of a documentary entitled "Revolutionary Mind" in 2011 and of a National Geographic documentary on Avian Flu in 2002. I have been the Italian video testimonial of the EU Commission campaign "Science it's a girl thing" in 2012.

Press coverage and video-clips can be found at [www.ilariacapua.eu](http://www.ilariacapua.eu)

## PUBLICATIONS

Since 1993 I have authored or co-authored over 300 publications, mainly on viral diseases of animals and those

of zoonotic importance. These include peer review articles published in international journals, conference presentations, editorials and book chapters, and books.

Number of papers cited in Pubmed: 197

Publications in peer reviewed journals are reported in Annex 1

Articles from national and international newspapers are reported in Annex 2