

UNIVERSITÀ DEGLI STUDI DI MILANO

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Alice Fusaro

CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	FUSARO
NOME	ALICE
DATA DI NASCITA	01-01-1982

WORK EXPERIENCE

January 2014 -
present

Professional Technical Collaborator - Organizational position

Organizational position (permanent position) in the sequencing, genetics and bioinformatics research group (8 technicians/fellows) at the OIE, European and National Reference Laboratory for avian influenza & Newcastle disease, FAO Reference Centre for animal influenza and Newcastle disease, Istituto Zooprofilattico Sperimentale delle Venezie (IZSve), viale dell'Università, 10, Legnaro (PD), Italy. <http://www.izsvenezie.it>.

My current research focuses on the evolutionary genetics of RNA viruses responsible of animal infections, with special emphasis on the major mechanisms of virus evolution, the molecular epidemiology of important emerging pathogens and the roles played by mutations, natural selection, recombination, and gene flow in shaping patterns of genetic diversity on RNA viruses. Thanks to the application of high-throughput whole-genome next-generation sequencing (NGS) technologies and bioinformatics analyses, my recent studies have helped to provide a better understanding of the inter- and intra-host genetic diversity of influenza viruses and to shed light on the critical mechanisms central to viral evolution, parthenogenesis, transmission, host adaptation and emergence of viruses with pandemic potential. Moreover, I performed metagenomic studies for virus discovery. Currently, I am also involved in a research project that aims to investigate the roles of viral and host factors in the transition of low pathogenic avian influenza virus to highly pathogenic form in poultry, using the RNA-Seq technology.

My studies concentrate on different RNA viruses, most notably Avian Influenza virus, Newcastle disease virus, Rabies virus and Infectious Bronchitis virus.

I have a broad experience with phylogenetic, phylogeographic and evolutionary analyses using several bioinformatics tools. I am also currently working with Next Generation Sequencing data.

I had been involved in several European and National (Italian Ministry of Health) projects on avian influenza and other major viral diseases and I have been responsible of operational units in three national projects.

I collaborate with several research institutes, including the University of Glasgow (Glasgow, UK), KU Leuven (Leuven, Belgium), Fogarty International Center at the National Institute of Health (Washington DC, USA)

I conducted several trainings and courses on Sanger sequencing, phylogenetic analyses and Next generation sequencing in Italy and in other countries.

- December 2008 - present **Professional Technical Collaborator – Permanent position**
Permanent position at the OIE, European and National Reference Laboratory for avian influenza & Newcastle disease, FAO Reference Centre for animal influenza and Newcastle disease, Istituto Zooprofilattico Sperimentale delle Venezie, viale dell'Università, 10, Legnaro (PD), Italy
- October 2006 – December 2008 **Fellowship**
Fellowship at OIE and National Reference Laboratory for avian influenza & Newcastle disease, FAO Reference Centre for animal influenza and Newcastle disease, OIE Collaborating Centre for Diseases at the Human-Animal Interface, Istituto Zooprofilattico Sperimentale delle Venezie, viale dell'Università, 10, Legnaro (PD), Italy. <http://www.izsvenezie.it>
- Main activities: Sanger sequencing and phylogenetic analyses of the whole genome of various subtypes of avian influenza viruses and other RNA viruses.
- February-July 2006 **Trainee**
Department of Public Health, Compared Pathology and Veterinary Hygiene, University of Padua, Padua, Italy
- Main activities: Isolation and characterization of single nucleotide polymorphisms in the genome of gilt-head bream (*Sparus aurata*) with the aim of assuring the traceability of this food product.
- March-July 2004 **Trainee**
Department of Biology, University of Padua, Padua, Italy
- Main activities: Creation of a genetic map of common gilt-head bream (*Sparus aurata*, L.) using microsatellites as genetic markers. This research was carried out under the European project BRIDGE-MAP

EDUCATION

- 24 March 2014 **Phd in Veterinary Science**
Department of Public Health, Compared Pathology and Veterinary Hygiene, University of Padua
Tutor: Dr. Enrico Massimiliano Negrisolò.
Title of thesis: Evolutionary dynamics of RNA viruses with zoonotic potential
- July 2006 **Master degree in Biotechnology for food products**
Department of Public Health, Compared Pathology and Veterinary Hygiene, University of Padua
Marks: 110/110 with honours
- July 2004 **Bachelor degree in Sanitary Biotechnology**
Department of Public Health, Compared Pathology and Veterinary Hygiene, University of Padua
Marks: 110/110 with honours
- September 2001 **Scientific high school certificate**
Scientific High School "G. Berto", Mogliano Veneto (VE)
Marks: 77/100

TRAINING COURSES

7-12 September 2014	19th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology. Rome, Italy Course content: analysis of Next Generation Sequencing data
5 June-29 August 2014	Bioinformatics course. BMR Genomics, Padua, Italy. Course content: Linux, bash command, databases
27-31 August 2012	17th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology. University of Belgrade, Faculty of Medicine, Belgrade, Serbia. Course content: Bayesian inference in phylogenetics, coalescent and phylogeographic analyses ('phylodynamics').
5-8 August 2008	Training on phylogenetic and evolutionary analyses of avian influenza viruses. University of Turin, Turin, Italy
24 April–10 May 2008	Computer laboratory course. Cambridge University, Cambridge, UK.
3 May-19 March 2007	Training course on nucleic acid sequencing. JCVI-J Craig Venter Institute- Rockville, Maryland, USA.

RESEARCH ACTIVITIES AT FOREIGN RESEARCH INSTITUTES

I spent several periods at foreign research institutes. These experiences allowed me to increase my knowledge and acquire experience on informatics tools and techniques for the analyses of virus genomes, but also to establish new collaborations with international research groups, as the National Institute of Health (Bethesda, USA), the University of Glasgow (Glasgow, UK) and the University of Leuven (Leuven, Belgium), which are still in place. Several publications in peer review journals resulted from these collaborations.

19-21 April 2017; 12-16 March 2018	<p><i>Location:</i> University of Leuven (Leuven, Belgium)</p> <p><i>Research activities:</i> investigation of the phylodynamics of highly pathogenic avian influenza viruses. The studies have been carried out under the European projects PREDEMICS (European Union's Horizon 2020 research and innovation programme grant agreement no. 278433) and DELTA-FLU (European Union's Horizon 2020 research and innovation programme, grant agreement No 727922).</p> <p><i>Supervisor:</i> Prof. Philippe Lemey</p> <p><i>Publication:</i></p> <ul style="list-style-type: none"> - Fusaro A, Monne I, Mulatti P, Zecchin B, Bonfanti L, Ormelli S, Milani A, Cecchetti K, Lemey P, Moreno A, Massi P, Dorotea T, Marangon S, Terregino C (2017). Genetic Diversity of Highly Pathogenic Avian Influenza A(H5N8/H5N5) Viruses in Italy, 2016-17. EMERGING INFECTIOUS DISEASES, vol. 23, p. 1543-1547, ISSN: 1080-6040 - Fusaro, A., Zecchin, B., Vrancken, B., Abolnik, C., Ademun, A.R., Akpeli, Y.P., Alassane, A., Arafa A., Awuni, J.A., Couacy-Hymann, E., Coulibaly, M., Gaidet N., Go-Maró, E., Joannis, T., Jumbo, S.D., Minoungou, G., Meseko, C., Moutari, S.M., Ndumu, D.B., Twabela, A., Wade, A., Wiersma, L., Zamperin, G., Milani, A., Lemey, P., Monne, I. Disentangling the role of the African continent in the global spread of H5 highly pathogenic avian influenza viruses. Nature Communications. Under review
15 April - 3 June 2013	<p><i>Location:</i> University of Glasgow (Glasgow, UK)</p> <p><i>Research activities:</i> bioinformatics analyses of deep sequencing data of avian influenza viruses to investigate the evolutionary mechanisms governing the emergence of highly pathogenic avian influenza viruses. This collaboration has been conducted under the European project Epi-Seq (research project supported under the 2nd joint call for transnational research projects by EMIDA ERA-NET [FP7 project nr 219235]) and has been supported by a fellowship from the OECD Co-operative Research Programme: Biological Resource Management for Sustainable Agricultural Systems in 2013.</p> <p><i>Supervisor:</i> Prof Pablo Murcia</p> <p><i>Contact persons:</i> Prof Pablo Murcia, Joseph Hughes and Richard Orton</p> <p><i>Publication:</i> Fusaro A., Tassoni L., Hughes J., Milani A., Salviato A., Schivo A., Murcia P.R., Bonfanti L., Cattoli G., Monne I. (2015) Evolutionary trajectories of two distinct avian influenza epidemics: Parallelisms and divergences. Infect.Genet.Evol. 34:457-466.</p>

22 October - 7 November 2012	<p><i>Location:</i> National Institute of Health, Fogarty International Center, Bethesda USA</p> <p><i>Research activities:</i> molecular epidemiological investigation of an H7 avian influenza Italian epidemic. This collaboration has been carried out under of the European project PREDEMICS (European Union's Horizon 2020 research and innovation programme grant agreement no. 278433).</p> <p><i>Supervisor:</i> Dr. Mark Miller</p> <p><i>Contact person:</i> Dr. Martha I. Nelson</p> <p><i>Publication:</i> Monne I., Fusaro A., Nelson M.I., Bonfanti L., Mulatti P., Hughes J., Murcia P.R., Schivo A., Valastro V., Moreno A., Holmes E.C., Cattoli G. (2014) Emergence of a highly pathogenic avian influenza virus from a low-pathogenic progenitor. J.Virol. 88(8):4375-4388.</p>
16 March - 17 April 2009	<p><i>Location:</i> National Institute of Health, Fogarty International Center, Bethesda USA</p> <p><i>Research activities:</i> phylogenetic and evolutionary analysis of HPAI H5N1 viruses isolated in Nigeria between 2006 and 2008, including spatial migration, growth of genetic diversity, and evolutionary rates.</p> <p><i>Supervisor:</i> Dr. Mark Miller</p> <p><i>Contact person:</i> Dr. Martha I. Nelson</p> <p><i>Publication:</i> Fusaro A., Nelson M.I., Joannis T., Bertolotti L., Monne I., Salviato A., Olaleye O., Shittu I., Sulaiman L., Lombin L.H., Capua I., Holmes E.C., Cattoli G. (2010) Evolutionary dynamics of multiple sublineages of H5N1 influenza viruses in Nigeria from 2006 to 2008. J.Virol. 84(7):3239-3247.</p>

PROJECTS

I have been responsible of operative units in three national projects, one of them ongoing. I am currently involved in the European FP7 project DELTA-FLU as well as in four national projects. I collaborated in several European and national projects, as detailed below. I also conducted activities in the framework of the International Development's Emerging Pandemic Threat (EPT+) programme funded by the United States Agency. Several papers resulted from the research activities conducted under these projects.

20 December 2018 - present	<p>Participation in the national project RC IZS VE 15/18: Influenza suina: determinant antigenici dei virus circolanti in Triveneto per il corretto controllo delle infezioni animali</p> <p>Coordinator institute: IZSVE.</p> <p>Project coordinator: Dr. Alda Natale.</p> <p>Project running time: 2 years</p>
1 December 2017 - present	<p>Leader of operative unit 1 of the national project RC IZS VE 03/17: Traiettorie evolutive del virus USUTU in aree endemiche del nord-est d'Italia e valutazione del rischio di trasmissione all'uomo tramite trasfusione di sangue.</p> <p>Coordinator institute: IZSVE.</p> <p>Project coordinator: Dr. Isabella Monne.</p> <p>Project running time: 3 years</p>
1 September 2017- present	<p>Participation in the national project RC IZS VE 07/16: Influenza D: toward a better understanding of the infection dynamics of an emerging animal virus in north-eastern Italy</p> <p>Coordinator institute: IZSVE</p> <p>Project coordinator: Dr Isabella Monne.</p> <p>Project running time: 3 years.</p>
1 June 2017-present	<p>Participation in the European project (FP7) DELTA-FLU: Dynamics of avian influenza in a changing world.</p> <p>Coordinator institute: Friedrich-Loeffler-Institut (FLI), Germania.</p> <p>Project coordinator: Prof. Thomas Mettenleiter.</p> <p>Project running time: 5 years.</p>
1 September 2016-present	<p>Participation in the national project RC IZS VE 14/2015: Epatite E nella grossa selvaggina nel nord-est italiano: epidemiologia in alcune specie di ungulati e analisi del rischio all'interfaccia tra fauna animali da reddito e popolazione umana.</p> <p>Coordinator institute: IZSVE – SCT2 BELLUNO.</p> <p>Project coordinator: Dr. Carlo V. Citterio.</p> <p>Project running time: 2 years.</p>

- 1 September 2015–present
Participation in the national project RC IZS VE 05/14: Development and application of high-throughput sequencing strategies for identifying known and unknown viruses in biological samples from domestic rabbit and avian species with unexplained illness
Coordinator institute: IZSve.
Project coordinator: Dr Isabella Monne.
Project running time: 3 years.
- 1 August 2013–1 August 2017
Leader of operative unit 2 (from 1 February 2016 to 1 August 2017) of the national project RC IZS VE 12/12: Identificazione di micro-RNA associati alla paratubercolosi bovina.
Coordinator institute: SCT1 – IZSve Verona.
Project coordinator: Dr. Nicola Pozzato.
Project running time: 4 years
- 1 Aug 2013-31 Jul 2015
Participation in the national project RC IZS VE 21/12: Study of the genetic characteristic of APMV-1 viruses identified in Italian Columbiformes population between 1999 and 2012 and evaluation of the efficacy of homologous and heterologous oil-emulsion vaccines against contemporary virulent APMV-1 circulating in Italian Columbiformes.
Project coordinator: Dr. Calogero Terregino.
Project running time: 2 years.
- 1 Dec 2012–30 Nov 2016
Leader of operative unit 3 (from 1 February 2016 to 1 August 2017) of the national project: RF-2010-2314989: Innovative molecular platform for tick-borne diseases: suspension array and pyrosequencing for the rapid, accurate and cost-effective multi-pathogen detection in ticks and biological samples.
Coordinator institute: IZSve.
Project coordinator: Dr. Gioia Capelli.
Project running time: 4 years
- 1 may 2012-31 March 2016
Participation in the European project Epi-SEQ: Molecular epidemiology of epizootic diseases using next generation sequencing technology. 2nd Joint Call for Transnational Research Projects by EMIDA ERA-NET [FP7 project no. 219235].
Coordinator institute: CODA-CERVA, Belgio
Project coordinator: Dr. Steven Van Borm
Project coordinator IZSve: Dr. Isabella Monne.
Project running time: 4 years
Author or co-author of the following publications: Monne et al. JVI, 2014; Fusaro et al., Infection, Genetics and Evolution, 2015; Van Borm, et al., Methods Mol Biol., 2015; Monne et al., EID, 2015.
- 1 Nov 2011-30 Apr 2017
Participation in the Research project supported by the European Community's Seventh Framework Programme [FP7/2007-2013] PREDEMICS: Preparedness, Prediction and Prevention of Emerging Zoonotic Viruses with Pandemic Potential using Multidisciplinary Approaches (grant agreement 278433)
Coordinator institute: Institut Pasteur (IP), Francia.
Project coordinator: Prof. Sylvie van der Werf.
Project running time: 66 months
- 1 Jul 2010-31 Dec 2014
Participation in the European project (FP7) FLUPIG: Pathogenesis and Transmission of influenza in pigs (Project n.: 258084).
Coordinator institute: Università di Gent, Belgio
Coordinatore del progetto: Prof. Van Reeth
Project running time: 54 mesi
Author or co-author of the following publications: Bonfante et al., Vet Mic, 2016.
- 20 June 2010-20 June 2012
Partecipation in the national project RC IZS VE 14/09: Dinamiche epidemiologiche ed evolutive dell'influenza aviaria.
Coordinator institute: IZSve.
Project coordinator: Dr. Isabella Monne
Project running time: 2 years.
Author or co-author of the following publications: Fusaro et al., JVI, 2011; Monne et al., Influenza Other Respi Viruses, 2012; Cattoli et al., Vaccine, 2011.

- 28-30 November 2018 Oral presentation to the peer-reviewed national conference: 2nd National Congress of the Italian Society for Virology, Rome, Italy.
Presentation title: Transmission dynamics of highly pathogenic avian influenza virus A (H5N8) in Italy, 2016-2017.
- 9-12 November 2018 Oral presentation to the peer-reviewed international conference: International Meeting on Emerging Diseases and Surveillance (IMED 2018), Vienna, Austria.
Presentation title: Origins of African Highly Pathogenic Avian Influenza H5Nx viruses and intracontinental spread.
- 18-20 June 2018 Oral presentation to the peer-reviewed international conference: Virus Genomics and Evolution 2018, Cambridge, UK.
Presentation title: The African continent: an endpoint in the global spread of the highly pathogenic avian influenza H5Nx virus
- 7-10 November 2016 Invited speaker at MISMS Influenza Workshop, National Institutes of Health, Bethesda, MD, USA
Presentation title: Host immunity shapes the intra-host evolution of an H3N6 avian influenza virus in ferrets.
- 10-13 May 2016 Oral presentation to the peer-reviewed international conference: MEEGID XIII - 13th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Anversa, Belgium
Presentation title: Within-host genetic diversity of an H3N6 avian influenza virus in ferrets
- 13-14 October 2016 Invited speaker to the national conference: VI Workshop Nazionale di Virologia Veterinaria, Torino, Italia.
Presentation title: L'effetto della pressione selettiva nell'evoluzione inter- e intra-ospite di virus influenzali aviari.
- 28-30 September 2016 Oral presentation to the peer-reviewed national conference: XVII Congresso Nazionale S.I.Di.LV. - Società Italiana di Diagnostica di Laboratorio Veterinaria Pacengo di Lazise (VR), Italia.
Presentation title: Applicazione di un approccio deep sequencing per lo studio dell'effetto della pressione immunitaria nell'evoluzione di virus influenzali aviari in ospiti mammiferi.
- 30 June-3 July 2014 Invited speaker at MISMS - Influenza research workshop, Bethesda, MD, USA.
Presentation title: Avian influenza evolution behind the consensus genome
- 23-25 September 2014 Oral presentation to the peer-reviewed international conference: 8th Annual Meeting – EPIZONE, Copenhagen, Denmark
Presentation title: A deep insight into an H7N7 highly pathogenic avian influenza epidemic
- 25 February- 1 March 2013 Invited speaker at MISMS Europe Meeting and Training Workshop, Padova, Italy
Presentation title: Molecular epidemiology of avian influenza virus
- 30 October – 2 November 2012 Oral presentation to the peer-reviewed international conference: 11th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, New Orleans, USA
Presentation title: The Emergence of a Highly Pathogenic Avian Influenza Virus - an Evolutionary Approach
- 4-7 September 2012 Oral presentation to the peer-reviewed international conference: ESVV – European Society for Veterinary Virology, Madrid, Spain
Presentation title: The evolutionary dynamics behind the emergence of a highly pathogenic avian influenza virus from a low pathogenic progenitor
- 1-4 April 2012 Oral presentation to the peer-reviewed international conference: 8th International Symposium on Avian Influenza, London, UK
Presentation title: Combining epidemiology with genetic data to study the dynamics of avian influenza outbreaks: the H7N1 in Italy.
- 4-7 February 2011 Oral presentation to the peer-reviewed international conference: IMED - International Meeting on Emerging Diseases and Surveillance, Vienna, Austria
Presentation title: Impact of vaccination on the genetic evolution of H5N1 viruses in Egypt
- 7-8 June 2011 Oral presentation at the 2nd annual interdisciplinary workshop on influenza evolution, immunology, and epidemiology, Bethesda, MD, USA
Presentation title: Evidence for differing evolutionary dynamics of A/H5N1 viruses among countries applying or not applying avian influenza vaccination in poultry
- 3-5 November 2010 Oral presentation to the peer-reviewed international conference: 10th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases, Amsterdam, the Netherlands.
Presentation title: Diversity and evolution of H9N2 viruses in the Middle East

23-26 June 2009 Oral presentation at IDEA Workshop, Bethesda, MD, USA.
Presentation title: Molecular epidemiology of H5N1 viruses isolated in Nigeria between 2006 and 2008.

TEACHING ACTIVITIES

One of the institutional duties of Istituto Zooprofilattico Sperimentale delle Venezie is to train providers from the animal health and food safety sectors. Specifically, as Reference Laboratory for avian influenza and Newcastle disease, my department, in cooperation with FAO, is involved in educational and international cooperation projects to train local healthcare professionals in appropriate emergency management. For this reason, I am frequently involved in teaching activities on sequencing and genetic analyses of avian influenza virus for visitors coming from developing countries, but also from European countries. Besides these routine activities, I hold the following training courses both in Italy and at foreign and international research institutes. Despite I have never taught at the University, my communication skills are good and I have a great passion for teaching.

- 19-21 September 2018 Training course: "Diagnosis of Transboundary Animal Diseases: Sequencing and Bioinformatic Analysis of Animal Pathogen Genomes", Seibersdorf, Austria.
Summoned as an expert/lecturer on "Phylogenetic and molecular analysis of avian influenza viruses", "Phylogenetic and molecular analysis of avian influenza viruses using GISAID and FluSurfer" "Submission of avian influenza virus sequences in GenBank or GISAID"; "Recombination analysis"; "Phylogenetic analysis of avian avulavirus 1"; and hands-on training session on: phylogenetic an amino acid sequence analyses of avian influenza viruses, recombination analysis; genetic analyses of avian avulavirus 1 sequences
Organizer: International Atomic Energy Agency, Vienna, Austria.
Term of office: 3 days
- 15-22 September 2017 Training course: "Training on Advanced Detection and Differentiation of AI Viruses in Light of the Current Outbreaks in the Europe Region", Seibersdorf, Austria.
Summoned as an expert/lecturer on "Introduction to Next Generation Sequencing technologies", "Intra- and inter-host evolutionary dynamics of avian influenza viruses", "Introduction to NGS file formats" and hands-on training session
Organizer: International Atomic Energy Agency, Vienna, Austria.
Term of office: 5 days
- 5-8 April 2016 Training course: "EPIZONE Workshop on Next Generation Sequencing applications and Bioinformatics", Bruxelles, Belgium.
Summoned as an expert/lecturer on "Tracing avian influenza virus evolution using a deep sequencing approach" and hands-on training session.
Organizer: CODA-CERVA, Bruxelles, Belgium.
Term of office: 4 days.
- 23 November 2015 Training course (ECM) "Principi e tecniche di next generation: applicazioni nella pratica veterinaria", Portici, Italy. Summoned as an expert/lecturer on "L'utilizzo di un approccio "deep sequencing" per lo studio di virus influenzali aviari".
Organizer: Istituto Zooprofilattico Sperimentale del Mezzogiorno, Portici (NA), Italy
Term of office: 1 day.
- 27-30 January 2015 Training course "Molecular tracing of viral diseases in aquaculture", Montpellier, France.
Summoned as an expert/lecturer on "Introduction to BEAST", "Phylogeographic analysis of viral epidemic" and hands-on training session
Organizer: University of Montpellier, Montpellier, France
Term of office: 4 days.
- 29 October 2014 Training course (ECM) "Il sequenziamento di nuova generazione in IZSVe: potenzialità e applicazioni". Legnaro, Padua.
Organizer: IZSVe, Legnaro, Padua, Italy
Term of office: 1 day.
- 28-29 August 2013 Training course "European Regional Training Course on Rapid and Confirmatory Diagnosis of Avian Influenza H7N9", Seibersdorf, Austria.
Organizer: International Atomic Energy Agency, Vienna, Austria.
Term of office: 2 days
- 29 November 2012 Training course (ECM) "Biologia molecolare nella ricerca virale: nuovi approcci per lo studio degli agenti patogeni – EDIZIONE 3". Legnaro, Padua, Italy
Organizer: IZSVe, Legnaro, Padua, Italy
Term of office: 1 day

- 5-9 November 2012 Training course "Training on sequencing and molecular epidemiology of animal pathogens: focus on PPR, CBPP, AI, ND, FMD and capripox", Seibersdorf, Austria.
Summoned as an expert/lecturer on "Submission of sequences to public databases using the sequin software", "Submission of sequences to public databases: other tools", "Live demonstration with open source software: Mega", "Molecular epidemiology of Avian Influenza and NDV", "Phylogenetic analyses: AI and NDV – applications" and hands-on training session.
Organizer: International Atomic Energy Agency, Vienna, Austria.
Term of office: 5 days
- 8 November 2011 Training course (ECM) "Biologia molecolare nella ricerca virale: nuovi approcci per lo studio degli agenti patogeni – EDIZIONE 2". Legnaro, Padua, Italy
Organizer: IZSve, Legnaro, Padua, Italy
Term of office: 1 day
- 22 February 2011 Training course (ECM) "Biologia molecolare nella ricerca virale: nuovi approcci per lo studio degli agenti patogeni – EDIZIONE 1". Legnaro, Padua, Italy
Organizer: IZSve, Legnaro, Padua, Italy
Term of office: 1 day
- 2-5 November 2009 Training course "EU-FLUTRAIN International Workshop", Vom, Nigeria
Organizer: EU-FLUTRAIN
Term of office: 4 days
- 21-25 September 2009 Training course "Seminario de Atualizacao cientifico-tecnica en Diagnostico Molecular Avanzado", Campinas, Brasil.
Organizer: LANAGRO, Campinas, Brasil.
Term of office: 5 days

COLLABORATIONS

I collaborate with several research institutes, including:

- 2008-2009: University of Torino, Torino, Italy (Prof. Luigi Bertolotti).
- 2009-present: Fogarty International Center of the U.S. National Institutes of Health, Bethesda, MD, USA (Martha Nelson).
- 2009-present: Marie Bashir Institute for Infectious Diseases and Biosecurity, Charles Perkins Centre, School of Life and Environmental Sciences and Sydney Medical School, University of Sydney, Sydney, Australia (Prof. Edward C. Holmes).
- 2012-present: Department of Microbiology and Immunology, Rega Institute, KU Leuven, Leuven, Belgio (Prof. Philippe Lemey).
- 2013-present: MRC-University of Glasgow Center for Virus Research, Glasgow, United Kingdom (Prof. Pablo Murcia e Dr. Joseph Hughes).
- 2014-2016: Biological Control and Spatial Ecology, Université Libre de Bruxelles, Brussels, Belgium (Dr. Marius Gilbert)

REVIEWER ACTIVITY

Ad-hoc reviewer for the following International and National Scientific Journals
(<https://publons.com/researcher/1516430/alice-fusaro>):

- Archives of Virology (Springer);
- Infection, Genetics and Evolution (Elsevier);
- PLoS ONE (Public Library of Science);
- Virus Research (Elsevier);
- Virology (Elsevier);
- Virus Genes (Springer);
- Molecular Phylogenetics and Evolution (Elsevier);
- PeerJ (PeerJ);
- Emerging Infectious Disease (CDC);
- SpringerPlus (SpringerOpen);
- Veterinaria Italiana (Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise);

- Avian Pathology (Taylor & Francis);
- Transboundary and Emerging Diseases (Wiley);
- Emerging Microbes & Infections (Nature Publishing Group)
- Journal of Medical Virology (Wiley);
- Viruses (MDPI)
- Influenza Research and Treatment (Hindawi)
- Virus Evolution (Oxford University Press)
- Zoonoses and Public Health (Wiley)

FELLOWSHIP AWARD

OECD's Co-operative programme fellowship award 2013. This program funds a seven week (15/04/2013-03/06/2013) research project at the University of Glasgow Centre (Prof. Pablo Murcia lab) for Virus Research to investigate the evolutionary mechanisms governing the emergence of highly pathogenic avian influenza viruses starting from Next Generation Sequencing data.

PERSONAL SKILLS

Mother tongue Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	good	excellent	good	good	good

Driving licence B

PUBLICATIONS

Publications in international journals

Scopus: H index = 18

Web of Science: H index = 17

ORCID: 0000-0002-8213-5472

1. Fusaro, A., Zecchin, B., Vrancken, B., Abolnik, C., Ademun, A.R., Akpeli, Y.P., Alassane, A., Awuni, J.A., Couacy-Hymann, E., Coulibaly, M., Go-Maró, E., Joannis, T., Jumbo, S.D., Minoungou, G., Meseko, C., Moutari, S.M., Ndumu, D.B., Twabela, A., Wade, A., Wiersma, L., Zamperin, G., Milani, A., Lemey, P., Monne, I. Global origins of African highly pathogenic avian influenza H5Nx viruses and intracontinental spread. *Int.J.Infect.Dis.* 2019 79, 9-10. <https://doi.org/10.1016/j.ijid.2018.11.041>
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Data

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