Edoardo Giussani

Birth date: 05/04/1993
Via Fortunato, 45, 35125 Padova (PD), Italy
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Education

Evolutionary Biology • Final mark: 105/110 2017-2019

Università degli Studi di Padova, Padua (Italy) Master's degree

Thesis: "Viral load and copy number variation in chronic lymphoproliferative disorder of NK cells disclosed by custom analyses of exome profiling data"

Environmental sciences and technology • Final mark: 92/110 2012-2016

Università degli Studi di Padova, Padua (Italy) Bachelor's degree

Thesis: "Importanza dell'appetibilità nel fenomeno del "secondary killing" in tre diverse esche insetticida per il controllo di *Blattella germanica* (Blattodea)" •("Importance of palatability in "secondary killing" phenomenon in three different insecticide baits for controlling of *Blattella germanica* (Blattodea)")

Work experience

Research fellow 02/2021-To date

Istituto Zooprofilattico Sperimentale delle Venezie, Legnaro Full-time

Field of research: study of viruses of zoonotic interest, mainly avian influenza and SARS-CoV-2.

- Pipeline design and development
- Python and Excel scripting
- Data analysis on NGS data
- Workflows optimization

Temporary research fellow 02/2020-07/2020

Dept. Molecular Medicine, Padova Full-time

Project: "Study of amplified or deleted genomic regions in chronic lymphoproliferative disorder of NK cells"

- Developed custom Python pipelines to perform analyses
- Results processed with R and spreadsheets
- Enrichment of genes of interest using KEGG Pathway

Field and laboratory assistant 2015-2017

Entostudio, Ponte San Nicolò Stage/Full-time

- Laboratory and field tests to evaluate repellents and insecticides effectiveness
- Design and long term planning of tests
- Breeding and identification of different species of insects

Personal skills

Digital skills	-**Excellent:** Python, VBA, C#, Office Suite, Google Suite, Git, GitHub, Conda -**Great:** SQL, R, LaTeX and Arduino's language -**Basic:** Docker, JavaScript -Development in Linux and Windows environment, both desktop and server -Fast and enthusiast learner of new programming languages

Bioinformatics skills	-SNP, CNV, Indels analysis on Illumina data -Analysis of NGS data -Investigation of viral DNA integration in human genome -Navigation in principal bioinformatics databases -Metagenomic investigations
Language skills	-**Italian:** mother tongue -**English:** Understanding: B2 | Speaking: B2 | Writing: B2
Driving licence	B

Publications

Agüero, M., [...], **Giussani, E.**, et al. **2023**. "Authors' response: Highly pathogenic influenza A(H5N1) viruses in farmed mink outbreak contain a disrupted second sialic acid binding site in neuraminidase, similar to human influenza A viruses". In: *Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin* 28 (7). ISSN: 15607917. DOI: 10.2807/1560-7917.ES.2023.28.7.2300109.

Agüero, M., [...], **Giussani, E.**, et al. **2023**. "Highly pathogenic avian influenza A(H5N1) virus infection in farmed minks, Spain, October 2022". In: *Euro surveillance : bulletin Europeen sur les maladies transmissibles = European communicable disease bulletin* 28 (3). ISSN: 15607917. DOI: 10.2807/1560-7917.ES.2023.28.3.2300001.

Tammiranta, N., [...], **Giussani, E.**, et al. **2023**. *Highly Pathogenic Avian Influenza a (H5n1) Virus Infections in Wild Carnivores Connected to Mass Mortalities of Pheasants in Finland*. DOI: 10.2139/ssrn.4339801.

Brian, I., [...], **Giussani, E.**, et al. **2022**. "Molecular Monitoring of SARS-CoV-2 in Different Sewage Plants in Venice and the Implications for Genetic Surveillance". In: *ACS ES and T Water* 2 (11). ISSN: 26900637. DOI: 10.1021/acsestwater.2c00013.

Mazzaferri, F., [...], and **Giussani, E. 2022**. *Exploratory data on the clinical efficacy of monoclonal antibodies against SARS-CoV-2 Omicron Variant of Concern*. DOI: 10.1101/2022.05.06.22274613.

Mellouli, F. El, [...], **Giussani, E.**, et al. **2022**. "Spatiotemporal Dynamics, Evolutionary History and Zoonotic Potential of Moroccan H9N2 Avian Influenza Viruses from 2016 to 2021". In: *Viruses* 14 (3). ISSN: 19994915. DOI: 10.3390/v14030509.

Ouoba, L.B., [...], **Giussani, E.**, et al. **2022**. "Emergence of a Reassortant 2.3.4.4b Highly Pathogenic H5N1 Avian Influenza Virus Containing H9N2 PA Gene in Burkina Faso, West Africa, in 2021". In: *Viruses* 14 (9). ISSN: 19994915. DOI: 10.3390/v14091901.

Pagliari, M., [...], **Giussani, E.**, et al. **2022**. *Omicron Neutralizing and Anti-SARS-CoV-2 S-RBD Antibodies in Naïve and Convalescent Populations After Homologous and Heterologous Boosting With an mRNA Vaccine*.

Quaranta, E.G., [...], **Giussani, E.**, et al. **2022**. "SARS-CoV-2 intra-host evolution during prolonged infection in an immunocompromised patient". In: *International Journal of Infectious Diseases* 122. ISSN: 18783511. DOI: 10.1016/j.ijid.2022.06.023.

Drago, A. **Giussani, E.** et al. **2021**. "Evaluation of secondary killing effect of Imidacloprid Gel Baits to control Blattella germanica (Linné 1767) (Blattaria: Blattellidae)". In: *Journal of Entomological and Acarological Research* 53 (3). ISSN: 22797084. DOI: 10.4081/JEAR.2021.9897.

Giussani, E. et al. **2021**. "Lack of Viral Load Within Chronic Lymphoproliferative Disorder of Natural Killer Cells: What Is Outside the Leukemic Clone?" In: *Frontiers in Oncology* 10. ISSN: 2234943X. DOI: 10.3389/fonc.2020.613570.

Corcos, D., [...], **Giussani, E.**, et al. **2020**. "Effects of natural pyrethrum and synthetic pyrethroids on the tiger mosquito, Aedes albopictus (skuse) and non-target flower-visiting insects in urban green areas of Padua, Italy". In: *International Journal of Pest Management* 66 (3). ISSN: 13665863. DOI: 10.1080/09670874.2019.1612123.

Gasparini, V.R., [...], **Giussani, E.**, et al. **2020**. "A high definition picture of somatic mutations in chronic lymphoproliferative disorder of natural killer cells". In: *Blood Cancer Journal* 10 (4). ISSN: 20445385. DOI: 10.1038/s41408-020-0309-2.