Curriculum Vitae

Valeria Trivellone

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EDUCATION

PhD in Biology **04/26/2016**
University of Neuchâtel (CH) and WSL (CH); Advisor: Prof. Edward A.D. Mitchell, co-advisor: Dr. Marco Moretti.
Thesis: Biodiversity conservation and sustainable management in the vineyard agroecosystem: an integrated approach for different trophic levels

M.Sc. in Environmental Science (specialization in agro-forestry), *summa cum laude* **04/2003**
University of Pisa (IT); Advisor: Prof. Luciano Santini
Thesis: Observations on arthropods in two vineyards with different management inputs

RESEARCH AND PROFESSIONAL EXPERIENCE

Assistant Research Scientist
Vector Ecologist **06/2023-current**
Illinois Natural History Survey (INHS) Prairie Research Institute in University of Illinois.
Project: PurSUiT: Revealing undiscovered diversity and distribution of phytoplasmas through screening of potential host insects in a museum biorepository PI: Dr. Valeria Trivellone.

Affiliate member of the Department of Entomology
University of Illinois at Urbana-Champaign **12/2025-current**

Affiliate member of the Program in Ecology, Evolution & Conservation Biology (PEEC)
University of Illinois at Urbana-Champaign **1/2026-current**

Postdoctoral Fellow **01/2023-05/2023**
Host institute: Illinois Natural History Survey (INHS) Prairie Research Institute in University of Illinois. Project: Assessment of Status and Conservation Actions for Insects in Greatest Conservation Need (T-127-R-1), Funded by State of Illinois (Department of Natural Resources) PI: Dr. Brenda Molano Flores.

Visiting Instructor, Biological Sciences
Host institute: Purdue University Northwest, Hammond. Teaching 1 course of Genetics and 3 genetics Lab. **08/2022-12/2022**

Postdoctoral Fellow **03/2020-08/2022**
Host institute: Illinois Natural History Survey (INHS) Prairie Research Institute in University of Illinois. Project: Assessment of Status and Conservation Actions for Insects in Greatest Conservation Need (T-127-R-1), Funded by State of Illinois (Department of Natural Resources) PI: Dr. Brenda Molano Flores.

Visiting Research Fellow **03/2018-03/2020**
Host institute: Illinois Natural History Survey (INHS) Prairie Research Institute in University of Illinois. Funded by NSF (USA), PI and Co-PI: Dr. Dmitry A. Dmitriev and Dr. Christopher H. Dietrich and Entomological Medical Laboratory: Dr. Chris Stone

RESEARCH SUPPORT

Principal Investigator (PI)
NSF DEB-2244871 **05/2023-05-2026**
PurSUiT: Revealing undiscovered diversity and distribution of phytoplasmas through screening of potential host insects in a museum biorepository.
Amount: $1,312,678.

Institute: University of Illinois at Urbana-Champaign

Postdoctoral Fellow **09/2016-03/2018**
Mobility fellowship granted by SNSF (Swiss National Science Foundation) (CH)
Title: The phylogeny of leafhoppers and the molecular basis of their competence as vectors of phytoplasmas at regional to global spatial scales. CHF 65'917 + USD 20'367 + CHF 1'000 (Gender Equality Grant – Individual Coaching)
Host institutes

1. Illinois Natural History Survey (INHS) Prairie Research Institute in University of Illinois
2. Council for Agricultural Research and Economics, Center for research in viticulture (CREA-VIT), Italy.
3. CRN – Consiglio Nazionale delle Ricerche, Torino, Italy

Project Leader **05/2017-06/2018**
Project funded by Agricultural Federal Office and Agroscope
Co-applicant: Dr. Moretti Marco, Dr. Gugerli Felix
Title: Spatial structure and genetic diversity of native *Trichopria drosophilae* parasitoid of Drosophilidae in fragmented habitats. **CHF 70'000**

Project Leader **04/2014-11/2017**
Project funded by SNSF (01.04.2014 – 30.11.2017); http://p3.snf.ch/project-152414, European Eastern partner Serbian team headed by Dr. Milana Mitrović.
Title: Epidemiology and management strategy of Stolbur phytoplasma in agroecosystems.
CHF 97'300

Project Leader **06/2014-12/2014**
Project funded by Agricultural Service of Canton Ticino.
Title: Evaluation of biodiversity quality index in vineyards in South Switzerland. **CHF 5'000**
Co-applicant and Doctoral Researcher (University of Neuchâtel and WSL, CH) **04/2012-04/2016**
Project funded by Federal Office for the Environment.
Title: Biodiversité, qualité biologique et conservation des espèces dans l'agroécosystème viticole (BioDiVine). **CHF 100'000**

- Major Results: defined a three-step analysis to evaluate species coexistence in a two trophic-level system; defined a two-step multivariate analysis approach to sort indicator plant species for different aspects of biodiversity; conceived a conceptual framework to select reliable indicator species based on different biodiversity conservation criteria; detected two potential vectors of pathogens causing grapevine yellow diseases in Switzerland.
- Five first-author articles have been accepted.
- 7 additional scientific papers, 6 lay articles and 7 conference presentations.

Advanced Postgraduate Fellow **01/2014-12/2015**
Project granted by DECS, Department "Educazione Cultura e Sport" of Ticino Canton (CH)
Title: The leafhoppers of vineyards: pathogens, potential vectors and their parasitoids.
CHF 110'000

- Characterized leafhopper and planthopper community in vineyards south of Swiss Alps
- Defined potential leafhopper vectors of phytoplasmas causing grapevine diseases
- Characterized fairyfly (Hymenoptera: Mymaridae) communities in vineyards
- Recorded new species of leafhoppers, planthoppers and fairyflies in Switzerland

PROFESSIONAL ACTIVITIES

Entomology Specialist **2012-2015**
Professional services (one month per year) funded by Agroscope Changins-Wädenswil (ACW) Center of Cadenazzo (CH), in the frame of two different internal project.

- Identification of Auchenorrhyncha specimens collected in vineyards and on woody plants, with particular attention to known and potential vectors of phytoplasma
- Identification of Auchenorrhyncha specimens collected on commercial fields of aromatic plants

Entomology Specialist **02/2014-05/2014**

Professional services founded by WSL Swiss Federal Institute for Forest, Snow and Landscape Research, Birmensdorf (CH), in the frame of SNF project: Exclosure Experiment in the Swiss National Park, 2009-2014

- Identification of Auchenorrhyncha collected in alpine grasslands and measurement of morphological characters of specimens.
- Co-authorship on an ISI-paper

Entomology Specialist **2008-2012**

Professional services (one month per year) founded by Natural History Museum (MCSN), Lugano (CH)

- Identification of Auchenorrhyncha specimens collected in five different habitats: peat bogs, city gardens, botanical garden, wetland areas, vineyard.
- Created a reference collection of the Hemiptera Fulgoromorpha and Cicadomorpha (Auchenorrhyncha) preserved in MCSN

Research Assistant **09/2010-08/2011**

WSL Swiss Federal Institute for Forest, Snow and Landscape Research, Bellinzona (CH); Advisor: Dr. Marco Moretti

- Analysed biological data from a pilot survey on biodiversity in vineyards in Tessin

Technician-scientific auxiliary **05/2010-03/2012**

Agroscope Changins-Wädenswil (ACW) Center of Cadenazzo (CH); Advisor: Dr. Mauro Jermini
Project funded by Commission for Technology and Innovation (CTI)

- Monitoring and experimental sampling of insect vectors in vineyard agroecosystem
- Tested enumerative and sequential sampling plans for *S. titanus* juveniles.

Postgraduate Fellow **09/2004-12/2007**

Agrobiology and Pedology Research Centre (IT); Advisor: Dr. Bruno Bagnoli
National Project funded by Council for Agricultural Research and Economics (IT)

- Studied the bio-ecology of known and potential vectors of phytoplasmas
- Proving the vector capability of a potential vector to inoculate two phytoplasma strains in an artificial feeding medium
- Published one first-author article

Postgraduate Fellows **04/2003-09/2003**
04/2004-09/2004

University of Pisa (IT); Advisor: Prof. Andrea Lucchi

- Sampling and rearing of juveniles and adults of Auchenorrhyncha
- Monitoring of insects (mainly Homoptera and Hymenoptera Parasitica) in natural and agricultural ecosystems of coastal Tuscany area

HONORS AND AWARDS

- **2025 Ross Award** for "Resolving the identity of Nearctic Scaphoideus titanus and geographic origin of its invasive European population" ($6,000)
- **2025 - Research Scholarship for Visiting Researcher in Ecological and Evolutionary Dynamics of Vector borne Diseases [October 2025]** (Euro 3,500)
  Awarded by the Institute for Sustainable Protections of Plant (CNR Italy) to support research on 'Landscape-level risk factors of emerging phytoplasma diseases'
- **2024 - Research Scholarship for Visiting Researcher in Ecological and Evolutionary Dynamics of Vector borne Diseases [October 2024]** (Euro 3,500)
  Awarded by the Institute for Sustainable Protections of Plant (CNR Italy) to support research on 'Assessing the risk of emerging phytoplasma diseases by screening a biorepository using a Next-gen sequencing'
- **2024 - Research Scholarship for Visiting Researcher in Ecological and Evolutionary Dynamics of Vector borne Diseases [September 2024]**
  Awarded by the University of Parana (Brazil) to support research on individual-based model to simulate vector-borne pathogen diversification.
- 2018 - Special Mention by the International Jury of the IOV (International Organization of Vine and Wine) in the category 'Monographs and Specialized Studies', *Graduated Summa cum laude*, University of Pisa (2003).

ACADEMIC AND RESEARCH TRAINING

- "Career Planning for Scientists", two days, Fix the Leaky Pipeline Program **2015**
- "Theories and methods in spatial community modelling", four days, doctoral course **2015**
- "Successful fund acquisition for researchers", two days, WSL **2015**
- "Training in ADE4 in R, Module I: Basic Methods", two days, doctoral course **2014**
- "An Introduction to R", two days, doctoral course **2014**
- "R course in community assembly analyses", three days, Tartu, Estonia **2013**
- "Systematic reviews and meta-analyses in ecology", two days, doctoral course **2012**
- "23° Course of statistical methodology in basic and applied biological research", five days, Massa Carrara, Italy **2007**

SKILLS AND TECHNIQUES

General skills in research project management and data analysis. Specific expertise and interests in:

Biological Skills

- broad knowledge of entomology
- specialist on identification of Auchenorrhyncha species
- insect rearing
- isolation, amplification and sequencing of DNA
- protein extraction and quantification, protein-protein interaction assays (e.g. western blotting)

Computing Skills

- Microsoft Office Suite, Internet Explorer,
- Graphical applications: Paint.net, photoshop
- QGis, Endnote
- Programming Languages: shell scripting, R
- Version Control: Git, GitHub

Other Skills

- Statistical software: R, Sigmaplot, STATISTICA, Canoco, Syntax
- Bioinformatics Tools: BLAST, MEGA, Geneious, and other sequence analysis software
- Data and information collection
- Writing and presenting reports

Social Skills: I have increased my social skills by collaborating with many research groups from different Countries, including Italy, Switzerland, Serbia, Germany, Czech Republic, Spain, Argentina, Brazil, United States. My language skills: Italian (native speaker), English (fluent), French (reading proficiency).

Organizational Skills: I have experience organizing and leading teams of personnel on various projects, including PhD and postdoctoral projects.

Technical skills and competences: I have about 20 years' experience working on insect sampling methodology and vector-borne patho-systems, so I consider my knowledge on these topics to be very good.

TEACHING EXPERIENCE

- Teaching 4 classes of a maximum of 63 students (Fall Semester 2022) at Purdue University Northwest
- Mentoring two undergraduate students (Spring semester 2022) and two undergraduate students (Spring semester 2023), one student (Spring semester 2024) at University of Illinois.
- Seminar Series for graduate students at University of Pisa (Forestry and Agricultural Science), Italy, 2021.
- Substitute teacher, High School of Gardener, Trevano, Switzerland, 2010
- Guest lecturer, Bayer CropScience, Acquaviva di Montepulciano (IT), 2005
- Seminar course for technicians on "The Flavescence dorée and its vector *Scaphoideus titanus* in Central Italy"

PROFESSIONAL SERVICE AND INSTITUTIONAL SERVICE

- Serving as **Supervisor for a PEEC graduate research assistant** at **University of Illinois (USA)**.
- Serving as **co-supervisor for a graduate student in the Ecology and Evolution program at the Federal University of Paraná (Brazil).**
- Serving as **co-supervisor for a PhD in in Agricultural Science at the University of Turin (Italy).**

- Serving as mentor for **two PhD students** (University of Nebraska) whose research involves nematode–endosymbiont interactions and insect–phytoplasma associations.
- Serving as U.S. NSF Panelist in 2026.
- Serving as U.S. NSF Panelist in 2024.
- Serving as **member of IPWG** (International Phytoplasmologist Working Group) **Scientific Committee** (https://www.ipwgnet.org/) stating September 2023.
- Serving as **member of the committee** for the **One Health Initiative at PRI (University of Illinois at Urbana-Champaign)**, I am contributing towards the joint endeavor to promote collaborations and projects across campus, educational opportunities for students and outreach programs.
- Serving as **Mentor for** the Undergraduate Research Apprenticeship Program at **University of Illinois Urbana-Champaign** since 2022.
- **Referee** for: Annals of the Entomological Society of America; Annals of Applied Biology; Agriculture; Agriculture Ecosystems and Environment; African Journal of Agricultural Research; Biodiversity Data Journal; Bio One; Biology; Bulletin of Entomological Research; Bulletin of Insectology, Diseases; Environmental Entomology; European Journal of Soil Biology; European Journal of Plant Pathology; Frontiers; Frontiers in Microbiology, Frontiers in bioengineering; Functional Ecology; Horticulture; Insects; Infectious Disease report; International Journal of Environmental Research in Public Health; Journal of Applied Entomology; Journal of Agricultural Science; Journal of Plant Pathology; Journal of Molecular Evolution; Journal of Visualized Experiments; Landscape Ecology; PeerJ; Plants; Plant Protection Science; Plos One; Scientific Reports; South African Journal of Enology and Viticulture; Scientific Reports; Zootaxa.
- Other **Referee activities**: Elsevier (revision of Book proposal); PhD Thesis at University of Udine (Italy)
- Organization of 24th Central European Auchenorrhyncha meeting held in Lugano in June 2017.

COMMUNICATIONS

https://www.researchgate.net/profile/Valeria_Trivellone/publications

Book and Book Chapter

1. **Trivellone, Valeria**, Sabrina Araujo, and Christopher H. Dietrich (2025). Chapter 13: Evolutionary Insights into Hemipteran Insect–Phytoplasma Associations: Phylogenetic Conservatism and Historical Ecology as Tools to Predict Future Associations. In Production. Publisher CABI.
2. **Trivellone, Valeria**, Yanghui Cao, and Christopher H. Dietrich (2025). A workflow for phytoplasma discovery and characterization in potential insect vectors: from non-destructive DNA extraction and vouchering to next-generation sequencing. In Production. In: Phytoplasma: Methods and Protocols. Publisher Springer.
3. **Trivellone, V**., Panassiti, B. (2023). Pathogen-Host Phylogenetic Congruence Varies with Paradigmatic Assumptions, Analytical Method, and Type of Association. In: An Evolutionary Pathway for Coping with Emerging Infectious Disease. Gardner, SL; Brooks, DR; Boeger, WA; Hoberg, EP (Eds.). Zea Books, Lincoln, Nebraska. pp 59-77. https://digitalcommons.unl.edu/zeabook/148/
4. Hoberg, E. P., Boeger, W. A., Molnár, O., Földvári, G., Gardner, S. L., Juarrero, A., ... **Trivellone, V**., Brooks, D. R. (2023). The DAMA Protocol: Anticipating to Prevent and Mitigate Emerging Infectious Diseases. In: An Evolutionary Pathway for Coping with Emerging Infectious Disease. Gardner, SL; Brooks, DR; Boeger, WA; Hoberg, EP (Eds.). Zea Books, Lincoln, Nebraska. pp 112-121. https://digitalcommons.unl.edu/zeabook/148/
5. Hoberg, E. P., **Trivellone, V**., Cook, J. A., Dunnum, J. L., Boeger, W. A., Brooks, D. R., ... & Colella, J. P. (2023). Document: Pathogen Diversity—Finding Them before They Find Us. In: An Evolutionary Pathway for Coping with Emerging Infectious Disease. Gardner, SL; Brooks, DR; Boeger, WA; Hoberg, EP (Eds.). Zea Books, Lincoln, Nebraska. pp 122-145. https://digitalcommons.unl.edu/zeabook/148/
6. Brooks, D. R., Hoberg, E. P., Boeger, W. A., **Trivellone, V.** (2023). Assess: Using Evolution to Save Time and Resources. In: An Evolutionary Pathway for Coping with Emerging Infectious Disease. Gardner, SL; Brooks, DR; Boeger, WA; Hoberg, EP (Eds.). Zea Books, Lincoln, Nebraska. pp. 146-152. https://digitalcommons.unl.edu/zeabook/148/
7. Molnár, O., Hoberg, E. P., **Trivellone, V**., Földvári, G., & Brooks, D. R. (2023). Prevent-Prepare-Palliate: The 3P Framework—Integrating the DAMA Protocol into Global Public Health Systems. In: An Evolutionary Pathway for Coping with Emerging Infectious Disease. Gardner, SL; Brooks, DR; Boeger, WA; Hoberg, EP (Eds.). Zea Books, Lincoln, Nebraska. pp. 98-111. https://digitalcommons.unl.edu/zeabook/148/
8. Weintraub, P.G., **Trivellone, V**., Krüger, K. 2019. The Biology and Ecology of Leafhopper Transmission of Phytoplasmas. In Phytoplasmas: Plant Pathogenic Bacteria-II (pp. 27-51). Springer, Singapore.
9. Trivellone, V., & Moretti, M. (Eds.). (2017). Diversità dei vigneti della Svizzera italiana: stato attuale e prospettive. *Memorie della società ticinese di scienze naturali*: Vol. 12. Lugano: Società ticinese di scienze naturali. 216 pp. https://www.dora.lib4ri.ch/wsl/islandora/object/wsl:15647

ISI-Papers and selected peer-reviewed

1. **Trivellone, V.**, Mackay, A.J., Stone, C.M., Dietrich, C.H. (2026, submitted). Leveraging existing biodiversity and zoonosis monitoring infrastructure for integrative plant pathogen surveillance in natural ecosystems. Veterinary Sciences.
2. **Trivellone, V.**, Noor, W., Zamharir, M., Dietrich, C.H. (2026). Diversity of phytoplasmas infecting plants and insects in Iran reveals two novel ribosomal subgroups. Insects, *17*(2), 223;https://doi.org/10.3390/insects17020223
3. **Trivellone, V.,** Canuto, F., Lucetti, G., Dietrich, C.H., Galetto, L., Marzachì C. (2026, submitted). Tracking the early spatio-temporal dynamics of phytoplasma multiplication within its leafhopper vector. Microbiology.
4. **Trivellone, V.,** Dietrich, C. H., Panassiti, B., Pagels, A., Janssen, E., Marcum, P. B., ... & Molano-Flores, B. (2026). Vegetation mediates the effect of management and habitat on Auchenorrhyncha species richness, but not community quality, in restored grasslands. Journal for Nature Conservation, 127231.
5. Panassiti, B., Ewald, J., Hofmann, M., **Trivellone, V.,** Vázquez, D., Nickel, H., Neumayer, J., Pospisil, K., Tobisch, C., König, S., Richter, T., Geres, L., Baier, R., Seidl, R., Seibold, S. (2025). Effects of the timing of grazing on insect diversity and insect-plant interactions in mountain grasslands. Ecological Applications, 35(7):e70129. doi: 10.1002/eap.70129.
6. Brown M.E., Ottati S., & **Trivellone V.** (2025) A non-destructive, fast, inexpensive, non-toxic chelating resin-based DNA extraction protocol for insect voucher specimens and associated microbiomes. Journal of Insect Science, 25(3): ieaf062. DOI: 10.1093/jisesa/ieaf062
7. **Trivellone V**., Haddadian R.J., & Dietrich C.H. (2025). Evaluating the threat of phytoplasma disease emergence in agroecosystems and natural habitats. Phytopathogenic Mollicutes, 15(1): 111-112. DOI: 10.5958/2249-4677.2025.00059.X
8. Noor S.W., Dietrich C.H., & **Trivellone V**. (2025). Insights into phytoplasma lineages: evaluating single-locus and multilocus trees from next-generation sequencing data. Phytopathogenic Mollicutes, 15(1): 51-52. DOI: 10.5958/2249-4677.2025.00030.6
9. Gabrys, A. M., Dietrich, C. H., & **Trivellone, V.** (2025). Inferring Tripartite Associations of Vector-Borne Plant Pathogens Using a Next-Generation Sequencing Approach. Pathogens, 14(1), 74.
10. Gonella E, Benelli G, Arricau-Bouvery N, Bosco D, Duso C, Dietrich CH, Galetto L, Rizzoli A, Jović J, Mazzoni V, Mori N, Nieri R, Roversi PF, Strauss G, Thiéry D, **Trivellone V**, Virant-Doberlet M, Lucchi A, Alma A (2024) Scaphoideus titanus up-to-the-minute: biology, ecology, and role as a vector. Entomologia Generalis, DOI: 10.1127/entomologia/2023/2598
11. Gonella E, Benelli G, Arricau-Bouvery N, Bosco D, Duso C, Dietrich CH, Galetto L, Rizzoli A, Jović J, Mazzoni V, Mori N, Nieri R, Roversi PF, Strauss G, Thiéry D, **Trivellone V**, Virant-Doberlet M, Lucchi A, Alma A (2024) Scaphoideus titanus forecasting and management: quo vadis? Entomologia Generalis, doi: https://doi.org/10.1127/entomologia/2024/2598
12. **Trivellone, V**., Cao, Y., Dietrich, C.H. (2023) Multilocus next-generation sequencing of leafhopper-associated phytoplasmas highlights gaps in knowledge for some phytoplasma lineages and genetic loci. Phytopathogenic Mollicutes, 13(1): 115-116. Doi: 10.5958/2249-4677.2023.00058.0
13. Fink, C., Kwan, L., Trivellone, V. 2023. Preventing phytoplasma emerging diseases: Phylogenetic relatedness and landscape analyses to assess the risk of outbreaks. Phytopathogenic Mollicutes, 13(1): 117-118. Doi: 10.5958/2249-4677.2023.00059.2
14. Janik, K., Panassiti, B., Kerschbamer, C., Burmeister, J., **Trivellone, V.** (2023). Phylogenetic Triage and Risk Assessment: How to Predict Emerging Phytoplasma Diseases. Biology, 12(5), 732. https://doi.org/10.3390/biology12050732
15. Inaba J., Shao J., **Trivellone V.**, Zhao Y., Dietrich C.H., Bottner-Parker K.D., Ivanauskas A., Wei W. (2023). Guilt by association: DNA-barcoding based identification of potential plant hosts of phytoplasmas from their insect carriers. Phytopathology https://doi.org/10.1094/PHYTO-09-22-0323-R
16. Panassiti B., **Trivellone, V.**, Armella, L.H., Renison, D., Carranza, A.V. 2023. The exploitation of oil reserves drives environmentally- and trait-mediated cooccurrence of neophyte plants in the Yungas forest in Argentina. Flora, 305: 152344 https://doi.org/10.1016/j.flora.2023.152344
17. **Trivellone, V.** (2022). Let Emerging Plant Diseases Be Predictable. MANTER: Journal of Parasite biodiversity, 30, https://digitalcommons.unl.edu/manter/28/
18. Hoberg, E. P., **Trivellone, V**., Cook, J. A., Dunnum, J. L., Boeger, W. A., Brooks, D. R., ... & Colella, J. P. (2022). Knowing the Biosphere: Documentation, Specimens, Archives, and Names Reveal Environmental Change and Emerging Pathogens. MANTER: Journal of Parasite biodiversity, 26, https://digitalcommons.unl.edu/manter/27/
19. Molnár, O., Hoberg, E., **Trivellone, V.**, Földvári, G., & Brooks, D. R. (2022). The 3P Framework: A Comprehensive Approach to Coping with the Emerging Infectious Disease Crisis. MANTER: Journal of Parasite biodiversity, 23, https://digitalcommons.unl.edu/manter/22/
20. **Trivellone, V**., Araujo, S., Panassiti B. 2022d. HostSwitch: An R Package to Simulate the Extent of Host-Switching by a Consumer. R Journal, 14 (4): 179-194.
21. **Trivellone, V.,** Panassiti, B. 2022. A field synopsis, systematic review and meta-analyses of cophylogenetic studies: what is affecting congruence between phylogenies. MANTER: Journal of Parasite Biodiversity, 24, https://digitalcommons.unl.edu/manter/25/

22. **Trivellone, V**., Cao, Y., Dietrich, CH., 2022c. Comparison of Traditional and Next-Generation Approaches for Uncovering Phytoplasma Diversity, with Discovery of New Groups, Subgroups and Potential Vectors. Biology, 11(7), 977; https://doi.org/10.3390/biology11070977
23. **Trivellone, V**., Panassiti, B., Boeger, W., Brooks, DR. PACTDis: an R package to phylogenetic analyses of comparing tree by describing distribution with assumption zero. In preparation
24. Hoberg, E.P., Boeger, W.A., Molnár, O., Földvári, G., Gardner, S., Juarrero, A., Kharchenko, V.A., Ortiz, E., **Trivellone, V**. and Brooks, D.R., 2022. The DAMA Protocol, an Introduction: Finding Pathogens before They Find Us. MANTER: Journal of Parasite biodiversity, 21, https://digitalcommons.unl.edu/manter/24/
25. **Trivellone, V.** and Dietrich, C.H. Tracking the evolutionary processes and patterns in Hemiptera-phytoplasma associations. In preparation
26. Hoberg E., Boeger W.A., Brooks D.R., **Trivellone V.**, Agosta S., 2022. Stepping-stones and Mediators of Pandemic Expansion—A Context for Humans as Ecological Super-spreaders. MANTER: Journal of Parasite Biodiversity. doi: 10.32873/unl.dc.manter18
27. Filippin L., Galetto L., **Trivellone V**., Elicio V., Marzachí C., Angelini E. 2022. A new ELISA test for monitoring "flavescence dorée" in field samples. Phytopathogenic Mollicutes, 12(1), 59. DOI: 10.5958/2249-4677.2022.00024.X
28. Khfif, K.,Baala, M., Bouharroud, R., **Trivellone V.**, Walters, S.A., Zaid, A., Brostauxv Y., & El Rhaffari L. (2022) Population ecology of leafhopper Jacobiasca lybica (Bergevin & Zanon, 1922) (Hemiptera: Cicadellidae) and its control based on degree-days in Moulouya area of Morocco, All Life, 15:1, 434-441, DOI: 10.1080/26895293.2022.2056526
29. **Trivellone V.**, Cao Y., Blackshear M., Kim CH, Stone C. 2022b. Landscape composition affects elements of metacommunity structure for Culicidae across south-eastern Illinois. Frontiers in Public Health. https://doi.org/10.3389/fpubh.2022.872812
30. Boeger W.A., Brooks D.R.., **Trivellone V.**, Agosta S., Hoberg E. 2022. Ecological Super-Spreaders Drive Host-Range Oscillations: Omicron and Risk-Space for Emerging infectious Disease. Transboundary and Emerging Diseases. Transboundary and Emerging Diseases, 69(5):e1280-e1288. Doi:10.1111/tbed.14557
31. **Trivellone, V**., Hoberg, E., Boeger, W. Brooks, DR. 2022a. Food Security and Emerging Infectious Disease: Risk Assessment and Risk Management. Royal Society of Open Science, 9: 211687. https://dx.doi.org/10.1098/rsos.211687
32. **Trivellone, V**., Araujo, S., Panassiti B. 2021. HostSwitch R Package – CRAN https://cran.r-project.org/web/packages/HostSwitch/vignettes/HostSwitch.html
33. **Trivellone, V**., Forte, V., Filippin, L., Dietrich, C.H. (2021). First records of the North American leafhopper Gyponana mail (Hemiptera: Cicadellidae) invading urban gardens and agroecosystems in Europe. Acta Entomologica Musei Nationalis Pragae, 61(1), 213-219.
34. Wei, W., **Trivellone, V.**, Dietrich, C.H., Zhao, Y., Bottner-Parker, K.D., Ivanauskas, A. (2021). Identification of Phytoplasmas Representing Multiple New Genetic Lineages from Phloem-Feeding Leafhoppers Highlights the Diversity of Phytoplasmas and Their Potential Vectors. Pathogens, 10(3), 352.
35. **Trivellone, V.,** Wei, W., Filippin, L., Dietrich, C.H. (2021). Screening potential insect vectors in a museum biorepository reveals undiscovered diversity of plant pathogens in natural areas. Ecology and Evolution, 11(11), 6493-6503. https://doi.org/10.1002/ece3.7502
36. Brooks, D.R., Hoberg, E. P., Boeger, W.A., **Trivellone, V.** (2021). Emerging infectious disease: an underappreciated area of strategic concern for food security. Transboundary and Emerging Diseases https://doi.org/10.1111/tbed.14009
37. **Trivellone, V.,** Dietrich, C.H. (2021). Evolutionary Diversification in Insect Vector–Phytoplasma–Plant Associations. Annals of the Entomological Society of America, 114(2):137-150, https://doi.org/10.1093/aesa/saaa048
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Conference Proceedings and Talks - (*oral presentation given by myself)

89. **Trivellone V.*** and Dietrich C. A century of phytoplasma-host association records: implications for overlooked phytoplasmas in natural areas. XXVI International Congress of Entomology, Helsinki, Finland, july 17-22, 2022.
90. Filippin, L. Galetto, L., Trivellone, V., Elicio, V., Marzachi, C., Angelini, E. A new ELISA test for monitoring "flavescence dorée" in field samples. Phytopathogenic Mollicutes Vol. 12 (1): 59. 10.5958/2249-4677.2022.00024.X
91. **Trivellone V.*** et al. Specific interaction between immunodominant membrane protein of 16SrV-D phytoplasma and insect proteins. 16th International Auchenorrhyncha Congress, July 2nd-8th 2019, Hanoi, Vietnam and 4th Meeting of the International Phytoplasmologist group. September 8th-12th, 2019, Valencia, Spain
92. **Trivellone V. *** and Flores Garcia C. Network analyses of a global Hemiptera-Phytoplasma-Plant biological interactions database. 16th International Auchenorrhyncha Meeting July 2nd-8th 2019, Hanoi, Vietnam and 4th Meeting of the International Phytoplasmologist group. September 8th-12th, 2019, Valencia, Spain
93. **Trivellone V. *** Cao Y. Dietrich H.C. The timetree of phytoplasma: new insights into the relationships with their insect and plant hosts. 4th Meeting of the International Phytoplasmologist group. September 8th-12th, 2019, Valencia, Spain
94. **Trivellone V. *** Angelini E., Dmitriev D.A., Dietrich, C.H. 2017. Phylogenetic relatedness of potential and known Auchenorrhyncha vectors of phytoplasmas. Preliminary results. 15th International Auchenorrhyncha Congress and 10th International workshop on Leafhoppers and Planthoppers of Economic Significance. June 9th-15th, 2017, Mendes, Brazil.
95. **Trivellone V.*,** Jermini M., Angelini E. 2015. Occurrence of Leaf- and Planthoppers known and potential vectors of phytoplasmas in vineyards of Southern Switzerland. IOBC-WPRS Conference of Working Group on "Integrated Protection and Production in Viticulture", Vienna, October 2015. Abstract Book and talk.
96. **Trivellone V.,** Jermini M., Posenato G., Mori N. 2015. Influence of pruning wood management and suckering on *Scaphoideus titanus* Ball density in two distinct wine-growing area. IOBC-WPRS Conference of Working Group on "Integrated Protection and Production in Viticulture", Vienna, October 2015. Abstract Book.
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98. Mitrovic M., **Trivellone V. ***, Jovic J., Cvrkovic T., Jakovljevic M., Kosovac A., Krstic O., Toševski I. 2015 Potential Hemipteran vectors of "stolbur" phytoplasma in potato fields in Serbia. 3rd International Phytoplasmologist Working Group Meeting. Mauritius, January 2015. In: Phytophatogenic Mollicutes 5(1):S49-50. DOI:10.5958/2249-4677.2015.00020.1 and talk.
99. Bogyo D., Vilisics F., Moretti M., **Trivellone V.** 2013. Isopoda and Diplopoda fauna of vineyards in Southeast-Switzerland. 12th Central European Workshop on soil zoology, April 8th-11th 2013, České Budějovice (Czech Republic). Abstract book: 14.
100. Rigamonti I., **Trivellone V.,** Brambilla C., Jermini M., Baumgärtner J. 2013 Research and management oriented sampling plans for vine plant inhabiting *Scaphoideus titanus* Grape leafhopper nymphs. IOBC-WPRS Bulletin 85: 29-35.
101. Rigamonti I., **Trivellone V.**, Jermini M., Baumgärtner J. 2013. Multiannual infestation patterns of grapevine plant canopy inhabiting *Scaphoideus titanus* Ball leafhoppers. IOBC-WPRS Bulletin 85: 43-48.
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103. **Trivellone V.***, Pedretti A., Caprani M., Pollini Paltrinieri L., Jermini M., Moretti M. 2013. Arthropods as bio-indicators in vineyard agroecosystem. IOBC/WPRS Meeting of the Working Group "Integrated Protection and Production in Viticulture", Ascona (Switzerland), 13th - 17th October, 2013. Abstract Book: 121 and talk.
104. **Trivellone V.***, Schönenberger N., Bellosi B., Jermini M., de Bello F., Mitchell E.A.D., Moretti M. 2013. How to select indicator plant species for taxonomic and functional biodiversity in the ecosystems affected by humans. XXIII Congresso Società Italiana di Ecologia, Ancona, 16th-18th September, 2013. Exstended abstract and talk.
105. **Trivellone V**.*, Baumgärtner J., Linder C., Cara C., Delabays N., and Jermini M., 2011: Spatio-temporal distribution of *Scaphoideus titanus* in Swiss vineyards. IOBC/WPRS Meeting of the Working Group "Integrated Protection and Production in Viticulture", Lacanau (France), 2nd-5th October, 2011, Abstract Book: 9 and talk.
106. Prevostini M., Taddeo A., Balac K., **Trivellone V**., Rigamonti I., Baumgärtner J., Jermini M. 2011. WAMS - an adaptive system for knowledge acquisition and decision support: the case of *Scaphoideus titanus*. IOBC-WPRS Bulletin 85:
107. **Trivellone V.***, Nali C., Lucchi A. 2007. L'analisi univariata e multivariata per lo studio dei caratteri morfometrici di bozzoli e larve diapausanti di *Neodryinus typhlocybae* (Ashmead) (Hymenoptera Dryinidae). IV Giornate di Studio su Metodi numerici, statistici e informatici nella difesa delle colture agrarie e delle foreste. Ricerca e applicazioni, Viterbo, 27-29/03/2007, Extended abstract and talk.
108. **Trivellone V.**, Pinzauti F., Bagnoli B. 2006. *Reptalus quinquecostatus* (Dufour) (Cixiidae): potenziale vettore di stolbur in un ambiente viticolo toscano. XXI Congresso Nazionale Italiano di Entomologia, Campobasso, 11-16/06/2007, Proceedings, p. 174.

Posters

109. **Trivellone V.**, Moretti M. 2013. Indicators to assess taxonomic and functional diversity in vineyards. Peer Review Poster Thema Biodiversität, WSL Birmensdorf.
110. Pezzatti B., Cara C., Milani L., **Trivellone V.**, Müller F., Moretti M., Jermini M. 2013. Factors affecting the parasitoid complex of *Phyllocnistis vitegenella* Clemens in vineyards of Southern Switzerland. IOBC/WPRS Meeting of the Working Group "Integrated Protection and Production in Viticulture", Ascona (Switzerland), 13th - 17th October, 2013.
111. Jermini M., Gusberti M., **Trivellone** V., Wyss E., Linder Ch. 2009. Gebrauch biologischer Insektizide im Kampf gegen den Scaphoideus titanus, den Vektor von Flavescence dorée. Pflanzengesundheit, Insektenregulierung, Poster: 314-317.

Invited Talks

- The emergence of diseases in a changing planet: the case of insects, phytoplasmas, and food production. Trivellone V., August 23rd, 2022. XXXIV Brazilian Congress of Zoology, Invited Lecture – Curitiba (Brazil)
- The Good, the Bad and the Ugly: Which processes shape phytoplasma-insect-plant relationships? Seminar: Trivellone V., February 28th, 2022. Pondering BEYOND Seminar Series, INRAE – French National Institute for Agriculture, Food and Environment (France)
- The Good, the Bad and the Ugly: Which processes shape phytoplasma-insect-plant relationships? Seminar: Trivellone V., October 22th, 2021. Natural Resources & Environmental Sciences Seminar Series, University of Illinois at Urbana-Champaign. https://mediaspace.illinois.edu/media/t/1_dh1wvvsp/227953593
- The Good, the Bad and the Ugly: Which processes shape phytoplasma-insect-plant relationships? Invited talk: Trivellone V., October 14th, 2021. Congress Nazionale Italiano Fitoplasmi, Catania.
- Evolutionary diversification in insect vector-phytoplasma-plant associations. Seminar: Trivellone V., November 17th, 2020. INHS Seminar Series, Prairie Research Institute, University of Illinois at Urbana-Champaign. https://mediaspace.illinois.edu/media/t/1_yz3wk923
- Evolution of complex interactions between plants, pathogens and insect vectors. Seminar: Trivellone V., February 10th, 2020. Entomology Colloquium, Department of Entomology, University of Illinois at Urbana-Champaign
- Il Bello della Biodiversità in vigneto, Negrar (VR) Italy. 27th March 2018. Oral presentation: Trivellone V. Influenza dei fattori gestionali, ambientali e di paesaggio sulla biodiversità della artropodofauna in vigneto. Interview: https://www.youtube.com/watch?v=9uWY9W5nw0g#action=share min. 2:58-4:38
- Giornata del viticoltore. Bellinzona, October 15th, 2015. Oral presentation: Trivellone V. Aumentare la qualità ecologica nei vigneti: un approccio integrato
- DEG-Seminar. WSL, Birmensdorf, November 26th, 2014. Oral presentation: Trivellone V. Approaches to biodiversity conservation and sustainable management in the vineyard agroecosystem.
- Giornata del viticoltore. Pregassona, December 12th, 2009. Oral presentation: Trivellone V. Studio sulla Biodiversità dell'Artropodofauna in vigneti Ticinesi, con particolare riferimento alla comunità di Cicaline (Auchenorrinchi).
- Seminario tecnico organizzato da ARSIA Regione Toscana, ARPAT, Provincia di Massa Carrara su "Flavescenza dorata della vite in Toscana: situazione, controllo e assistenza tecnica". Massa, 24 Marzo 2005 (Bagnoli B., Pinzauti F., Trivellone V. Scaphoideus titanus: riconoscimento, biologia e controllo).

Technical Reports

- Trivellone V., Bellosi B., Moretti M. Criteri per la valutazione della qualità per la biodiversità dei vigneti a Sud delle Alpi della Svizzera. Report number: Sezione Agricoltura (RSA14068 del 24.11.2014) and Ufficio Natura e Paesaggio, Sezione dello sviluppo territoriale (Rif. 772-43/2014 del 23.04.2014). Affiliation: WSL- Swiss Federal Institute for Forest, Snow and Landscape Research
- Trivellone V., Pollini Paltrinieri L., Schönenberger N., Jermini M., Moretti M. Progetto BioDiVine – Biodiveristà, qualità biologica e conservazione delle specie nell'agroecosistema vigneti. Report number: 06.0127.PZ/L21 1-1 867. Affiliation: Consorzio BioDiVine.
- Trivellone V. Studio della biodiversità della Auchenorrincofauna in vigneti ticinesi. Affiliation: Agroscope Changins-Wädenswil.