

Publikationen / Publications List

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Wichtigste wissenschaftliche Publikationen / Scientific "peer reviewed" Publications

1. Goater, C. P., Semlitsch, R. D., and **Bernasconi, M. V.** (1993). Effects of body size and parasite infection on the locomotory performance of juvenile toads, *Bufo bufo*. *OIKOS* 66, 129-136.
2. **Bernasconi, M. V.**, Valsangiacomo, C., Balmelli, T., Péter, O., and Piffaretti, J.-C. (1997). Tick zoonoses in the southern part of Switzerland (Canton Ticino): occurrence of *Borrelia burgdorferi* sensu lato and *Rickettsia* sp. *European Journal of Epidemiology* 13, 209-215.
3. Gutacker, M., Valsangiacomo, C., Balmelli, T., **Bernasconi, M. V.**, Bouras, C., and Piffaretti, J.-C. (1998). Arguments against the involvement of *Borrelia burgdorferi* sensu lato in Alzheimer disease. *Res. Microbiol.* 149, 31-37.
4. **Bernasconi, M. V.**, Valsangiacomo, C., Piffaretti, J.-C., and Ward, P. I. (2000). Phylogenetic relationships among Muscoidea (Diptera, Calyptratae) based on mitochondrial DNA sequences. *Insect Mol. Biol.* 9, 67-74.
5. Wicky, R., Sauter, P., Mettler, C., Natsch, A., Enzler, T., Pusterla, N., Kuhnert, P., Egli, G., **Bernasconi, M. V.**, Lienhard, R., Lutz, H., and Leutenegger, C. M. (2000). Swiss Army survey in Switzerland to determine the prevalence of *Francisella tularensis*, members of the *Ehrlichia phagocytophila* genogroup, *Borrellia burgdorferi* sensu lato, and Tick-Born Encephalitis Virus in ticks. *Europ. J. Clin. Microbiol. & Infect. Diseases*, 19: 427-432.
6. **Bernasconi, M. V.**, Pawlowski, J., Valsangiacomo, C., Piffaretti, J.-C., and Ward, P. I. (2000). Phylogeny of the Scathophagidae (Diptera, Calyptratae) based on mitochondrial DNA sequences. *Mol. Phyl. Evol.*, 16: 308-315.
7. Maggi Solcà, N., **Bernasconi, M. V.**, and Piffaretti, J.-C. (2000). Mechanism of metronidazole resistance in *Helicobacter pylori*: comparison of the rdxA gene sequences in 30 strains. *Antimicrob. Agents Chemother*, 44: 2207-2210.
8. **Bernasconi, M. V.**, Pawlowski, J., Valsangiacomo, C., Piffaretti, J.-C., and Ward, P. I. (2001). Phylogeny of the genus *Scathophaga* (Diptera: Scathophagidae) inferred from mitochondrial DNA sequences. *Can. J. Zool.*, 79: 517-524.

9. Maggi Solcà, N., **Bernasconi, M. V.**, Valsangiacomo, C., Van Doorn, L.-J., and Piffaretti, J.-C. (2001). Population genetics of *Helicobacter pylori* in the southern part of Switzerland analysed by sequencing of four housekeeping genes (atpD, glnA, scoB and recA), and by vacA, cagA, iceA and IS605 genotyping. *Microbiology*, 147: 1693-1707.
10. Gutacker, M., Valsangiacomo, C., **Bernasconi, M. V.**, and Piffaretti, J.-C. (2002). recA and glnA sequences separate the *Bacteroides fragilis* population into two genetic divisions associated with the antibiotic resistance genotypes cepA and cfiA. *J. Med. Microbiol.* 51: 123-30.
11. **Bernasconi, M. V.**, Casati, S., Péter, O., and Piffaretti, J.-C. (2002). *Rhipicephalus* ticks infected with *Rickettsia* and *Coxiella* in Southern Switzerland (Canton Ticino). *Infection, Genetics and Evolution*, 2: 111-120.
12. Gutacker M, Conza N, Benagli C, Pedroli A, **Bernasconi M. V.**, Permin L, Aznar R, and Piffaretti J.-C. (2003). Population genetics of *Vibrio vulnificus*: identification of two divisions and a distinct eel-pathogenic clone. *Appl Environ Microbiol.* 69: 3203-12.
13. Grasselli, E., Tomati, V., **Bernasconi, M. V.**, Nicolini, C., and Vergani, L. (2004). C-Terminal region of protein kinase CK2 α : how the structure can affect function and stability of the catalytic subunit. *Journal of Cellular Biochemistry*, 92: 270-284.
14. Casati S., **Bernasconi M. V.**, Gern L., and Piffaretti J.-C. (2004). Diversity within *Borrelia burgdorferi* sensu lato genospecies in Switzerland by recA gene sequence. *FEMS Microbiology Letters* 238: 115-123.
15. Vernez I., Hauser P., **Bernasconi M. V.**, and Blanc D. S. (2005). Population genetic analysis of *Pseudomonas aeruginosa* using multilocus sequence typing. *FEMS Immunology and Medical Microbiology* 43: 29-35.
16. Kutty, S.N., **Bernasconi, M.V.**, Sifner, F. & Meier, R. (2007). Sensitivity analysis, molecular systematics and natural history evolution of Scathophagidae (Diptera: Cyclorrhapha: Calyptratae). *Cladistics* 23: 64-83.
17. Willi B, Boretti FS, Meli ML, **Bernasconi M.V.**, Casati S, Hegglin D, Puorger M, Neimark H, Cattori V, Wengi N, Reusch CE, Lutz H, and Hofmann-Lehmann R (2007). Real-time PCR investigation of potential vectors, reservoirs and shedding patterns of feline hemotropic mycoplasmas. *Applied and Environmental Microbiology* 73(12): 3798-3802.
18. **Bernasconi M.V.**, Pollet, M., Varini-Ooijen, M. & Ward, P.I. (2007). Phylogeny of European *Dolichopus* and *Gymnopternus* (Diptera, Dolichopodidae) and the

- significance of morphological characters inferred from molecular data. *European Journal of Entomology* 104(3): 601–617.
19. **Bernasconi, M.V.**, Pollet, M., & Ward, P.I. (2007). Molecular systematics of Dolichopodidae (Diptera) inferred from COI and 12S rDNA gene sequences based on European exemplars. *Invertebrate Systematics*, 21(5): 453-470.
 20. Casati S., **Bernasconi M. V.**, Gern L., and Piffaretti J.-C. (2008). Assessment of intraspecific mtDNA variability of European *Ixodes ricinus* sensu stricto (Acari: Ixodidae). *Infection, Genetics and Evolution*, 8: 152-158.
 21. Gugolz D, **Bernasconi M. V.**, Breitenmoser-Würsten C. and Wandeler P. (2008). Historical DNA reveals the phylogenetic position of the extinct Alpine lynx. *Journal of Zoology*, 275: 201-208.
 22. Rossetti V., Schirrmeyer B. E., **Bernasconi M. V.**, Bagheri H. C. (2010) The Evolutionary Path to Terminal Differentiation and Division of Labor in Cyanobacteria. *Journal of Theoretical Biology*, 262: 23-34.
 23. Germann C, Pollet M, Tanner S, Backeljau T and **Bernasconi M. V.** (2010) Legs of deception: disagreement between molecular markers and morphology of long legged flies (Diptera, Dolichopodidae). *Journal of Zoological Systematics and Evolutionary Research*, 48: 238-247.
 24. Pollet M., Germann C., Tanner S., and **Bernasconi M. V.** (2010). Hypotheses from mitochondrial DNA: congruence and conflicts with morphology in Dolichopodinae systematics (Diptera: Dolichopodidae). *Invertebrate Systematics*, 24: 32-50.
 25. **Bernasconi M. V.**, Berger D. and Blanckenhorn W. U. (2010). Systematic ambiguity in the well-established model system insect *Scathophaga stercoraria* (Diptera: Scathophagidae): sister species *S. soror* revealed by molecular evidence. *Zootaxa*, 2441: 27-40.
 26. Germann C., Kahanpää J., Pollet M., Pollini L., and **Bernasconi M. V.** (2010). The synonymies of *Dolichopus lepidus lepidus* Staeger, 1842 – demasculinisations, lectotype designations and a nomen oblitum (Diptera, Dolichopodidae). *Zootaxa*, 2560: 51-60.
 27. Germann C., Pollet M., and **Bernasconi M. V.** (2011). Aspects of European *Argyra* systematics: molecular insights and morphology (Diptera: Dolichopodidae). *Entomologica Fennica*, 22: 5-14.
 28. Pollet M., Germann C., and **Bernasconi M. V.** (2011). Phylogenetic analyses using molecular markers reveal ecological lineages in *Medetera* (Diptera: Dolichopodidae). *The Canadian Entomologist*, 143: 662-673.

29. Germann C., Pollet M., Wimmer C., and **Bernasconi M. V. (2011)**. Molecular data sheds light on the classification of long-legged flies (Diptera: Dolichopodidae). *Invertebrate Systematics*, 25: 303-321.
30. Martin O. Y., Gubler A., Wimmer C., Germann C., and **Bernasconi M. V. (2012)**. Infections with *Wolbachia* and *Spiroplasma* in the Scathophagidae. *Infection, Genetics and Evolution*, 12: 315-323.
31. Martin O. Y., Puniamoorthy N., Gubler A., Wimmer C. & **Bernasconi M. V. (2013)**. Infections with *Wolbachia*, *Spiroplasma*, and *Rickettsia* in the Dolichopodidae and other Empidoidea. *Infection, Genetics and Evolution*, 13: 317-330.
32. Martin O. Y., Puniamoorthy N., Gubler A, Wimmer C., Germann C. and **Bernasconi M. V. (2013)**. Infections with the microbe *Cardinium* in the Dolichopodidae and other Empidoidea (Diptera). *Journal of Insect Science* 13:47. Available online: <http://www.insectscience.org/13.47>
33. Rosa P., **Bernasconi M. V.** & Wyniger D. (2015). The Linsenmaier Chrysididae collection housed in the Natur-Museum Luzern (Switzerland) and the main results of the related GBIF Hymenoptera Project (Insecta). *Zootaxa*, 3986: 501-548.
34. Blanckenhorn W. U., Rohner P., **Bernasconi M. V.**, Haugstetter J. & Buser A. (2016). Is qualitative and quantitative metabarcoding of dung fauna biodiversity feasible? *Environmental Toxicology and Chemistry*, 35: 1970-1977.
35. Germann. C., Wyler S. & **Bernasconi M. V. (2017)**. DNA barcoding of selected alpine beetles with focus on Curculionoidea (Coleoptera). *Revue Suisse de Zoologie* 124: 15-38
36. Meregalli M., Germann C., **Bernasconi M.V.**, Cervella P. (2018). Phylogeny of the Genus *Dichotrachelus* (Coleoptera: Curculionidae: Cyclominae). *Diversity* 2018, 10, 66; 1-28.
37. Binetruy F., Bailly X., Chevillon C., Martin O. Y., **Bernasconi M. V.** and Duron O. (2019). Phylogenetics of the *Spiroplasma ixodetis* endosymbiont reveals past transfers between ticks and other arthropods. *Ticks and Tick-Borne Diseases* 10: 575-584
38. Rosa P., Heim R., **Bernasconi M.V. (2020)**. The Palaearctic types of Chrysididae (Insecta, Hymenoptera) deposited in the Linsenmaier collection. Part 1. Cleptes Latreille. *Zootaxa* 4881: 54-72.

39. **Bernasconi M.V.** & Šifner F. (2021). Annotated supplements to catalogues of the family Scathophagidae (Diptera) in the world, with new taxonomic data, notes on some species and new list of species. *Linzer biologische Beiträge* 52/2: 1267-1306.

Weitere wissenschaftliche Publikationen (Diploma-/PhD-Thesis, Scientific “minor journal” publications, Book chapters, ausgewählte Abstracts) / Further publications (Scientific “minor journal” publications, Diploma- and PhD-Thesis, Book Chapters, selected Abstracts)

1. **Bernasconi, M. V.** (1993). Interactions between host size, host diet and parasite infection on the growth and survival of toads (*Bufo bufo*). Diploma thesis, pp. 1-47. Zoologisches Museum der Universität Zürich, Switzerland.
2. **Bernasconi, M. V.**, Valsangiacomo, C., Balmelli, T., Péter, O., and Piffaretti, J.-C. (1996). Zoonosi da zecche nel Canton Ticino: aspetti faunistici ed epidemiologici. *Boll. Soc. Tic. Sci. Natur.* 84: 15-24 (in Italian).
3. **Bernasconi, M. V.**, Valsangiacomo, C., Balmelli, T., Péter, O., and Piffaretti, J.-C. (1996). Ticks zoonoses in the southern part of Switzerland (Ticino): Faunistical and epidemiological aspects. *Experientia (Basel)* 52: A48.
4. **Bernasconi, M. V.**, Valsangiacomo C.; Piffaretti J.-C. & Ward P. I. (1998). Phylogeny of Scathophagidae (Calypttratae, Muscoidea) based on mitochondrial DNA sequences. Abstracts of the 4th International Congress of Dipterology, 6-13 September 1998, Oxford, UK: 17-18.
5. **Bernasconi, M. V.**, Valsangiacomo, C., Piffaretti, J.-C., and Ward, P. I. (1998). Phylogeny of Scathophagidae (Diptera, Calypttratae) based on mitochondrial DNA sequences. *Revue Suisse de Zoologie* 105, 740-741.
6. **Bernasconi, M. V.**, Valsangiacomo, C., Piffaretti, J.-C., and Ward, P. I. (1999). The use of mitochondrial DNA sequences in insect taxonomy: examples from the Scathophagidae (Diptera, Calypttratae). *Boll. Soc. Tic. Sci. Natur.* 87: 45-48.
7. **Bernasconi, M. V.** (2000). Mitochondrial DNA sequences in insect phylogeny and taxonomy: Applications to the systematics of the Scathophagidae (Diptera, Calypttratae), Ph.D. thesis, pp. 1-57. Zoologisches Museum der Universität Zürich, Switzerland.
8. Casati, S., **Bernasconi, M. V.**, and Piffaretti, J.-C. (2002). Applicazioni della biologia molecolare nella diagnostica delle malattie trasmesse dalle zecche. *Tribuna medica ticinese* 67: 367-370 (in Italian).

9. Casati, S., **Bernasconi, M. V.**, Péter O., and Piffaretti, J.-C. (2002). "*Rhipicephalus* ticks infected with *Rickettsia* and *Coxiella* in Southern Switzerland". Abstracts of the 61st Annual Assembly of Swiss Society for Microbiology, Lucerne (Switzerland), 20-21 February 2002.
10. Casati, S., **Bernasconi, M. V.**, Péter O., and Piffaretti, J.-C. (2002). *Rhipicephalus* ticks infected with *Rickettsia* and *Coxiella* in Southern Switzerland (Canton Ticino). Abstracts of the USGEB Meeting 2002, 7 – 8 March 2002, Lugano, Switzerland: 84.
11. Casati S., **Bernasconi M. V.**, Gern L., and Piffaretti J.-C. (2003). Population genetics of *Ixodes ricinus* ticks and *Borrelia burgdorferi sensu lato*: preliminary aspects. Swiss Medical Weekly 133, Suppl. 134: S56.
12. **Bernasconi M. V.** (2003). *Rhipicephalus* ticks in Ticino: A new vector for new diseases?. Mitteilungen der Schweizerischen Entomologischen Gesellschaft 76: 181.
13. Casati S., **Bernasconi M.V.**, Piffaretti J.-C. (2004). Population genetics of *Ixodes ricinus* (Acari: Ixodidae) based on mitochondrial DNA (mtDNA) sequences. Abstracts of the 63rd Annual Assembly of SSM, 11 – 12 March 2004, Lugano, Switzerland: 151.
14. **Bernasconi M. V.**, Pollet M., & Ward P.I. (2006). Molecular and morphological phylogeny of European *Dolichopus* and *Gymnopternus* (Diptera, Dolichopodidae). Abstracts of the 6th International Congress of Dipterology, 23 – 28 September 2006, Fukuoka, Japan: 19-20.
15. Kutty S.N., **Bernasconi M.V.**, Sifner F. & Meier R. (2006). Scathophagidae: Molecular phylogeny and larval natural history evolution of a calyptrate family. Abstracts of the 6th International Congress of Dipterology, 23 – 28 September 2006, Fukuoka, Japan: 245-246.
16. Willi, B., Boretti, F.S., Meli, M.L., **Bernasconi, M.V.**, Casati, S., Hegglin, D., Puorger, M., Neimark, H., Cattori, V., Wengi, N., Reusch, C.E., Lutz, H., Hofmann-Lehmann, R. (2007). Real-time PCR investigation of possible transmission routes and reservoirs of feline hemoplasmas. Journal of Veterinary Internal Medicine 21: 579.
17. Germann C, Naglis S. & **Bernasconi M. V.** (2009). Langbeinfliegen (Diptera, Dolichopodidae). In: Obersand 2008 Sommer der alpinen Artenvielfalt - Die Biodiversität im Gebiet Obersand, Linthal, Peter Bachmann, Fridli Marti, Liliane Zimmermann & Peter Zimmermann (Eds), Mitteilungen der Naturforschenden Gesellschaft des Kantons Glarus Band XVIII, Glarus, pp. 246-253 (in German)

18. Germann C & **Bernasconi M. V.** (2010) Langbeinfliegen-Funde abseits der Hauptsaison (Diptera, Dolichopodidae). *Entomo Helvetica* 3, 115-122 (in German).
19. Germann C., **Bernasconi M. V.** & Cordillot F. (2013). Projektvorstellung „Aktualisierung Endemitenliste der Schweiz“. *Entomo Helvetica* 6, 175-177 (in German).
20. Naglis S & **Bernasconi M. V.** (2014). *Thrypticus smaragdinus* Gerstäcker (Diptera, Dolichopodidae), neu für die Schweiz. *Entomo Helvetica* 7, 161-163 (in German).
21. **Bernasconi M. V.** (2016). Hidden systematic ambiguity in the widely-used model system fly *Scathophaga stercoraria* (Diptera: Scathophagidae). *Mitteilungen der Schweizerischen Entomologischen Gesellschaft* 89: 104.

Weitere Beiträge/Further written contributions:

1. Written contribution for the Flyer “ASIRB (Associazione della Svizzera italiana per la ricerca biomedica): Le sfide dell’associazione nel ventunesimo secolo.” (2000) (in Italian)
2. “Le zecche: sgradevoli e non innocue”. (Corriere del Ticino, 30. June 2001) (in Italian)
3. Written scientific contribution for the booklet: “ICM: Istituto cantonale di microbiologia”. Bellinzona, March 2003, pp. 1-80 (in Italian)
4. Flyer “Molekulare Phylogenetik und Systematik“ (exhibition: Darwin year 09; Entdecken Sie den Stammbaum des Lebens, Zurich 4-6.09.2009) (in German and English)
5. Flyer “Molekulare Stammesgeschichte der Dolichopodidae (Insecta: Diptera)“ (exhibition: Darwin year 09; Entdecken Sie den Stammbaum des Lebens, Zurich 4-6.09.2009) (in German and English)
6. Written scientific contribution for the guide: “Guide zur Darwin Year 09 (200 Jahre Darwin, 150 Jahre Evolutionstheorie): Acari (Milben)-Ticks and Mites”. Zurich, 4-6.09.2009 (in German and English)
7. Written contribution for the booklet: Natur-Museum Luzern 2013. Jahresbericht 2012, Luzern 37 pp. (in German)

8. Written contribution for the column "Warum bin ich (noch) dabei?". Forum Pfarrblatt der Katholischen Kirche im Kanton Zürich (2014) 19, p. 15. (*in German*)
9. Written contribution for the booklet: Natur-Museum Luzern 2014. Jahresbericht 2013, Luzern 60 pp. (*in German*)
10. Written contribution for the booklet: Natur-Museum Luzern 2015. Jahresbericht 2014, Luzern 62 pp. (*in German*)
11. Written contribution for the booklet: Natur-Museum Luzern 2016. Jahresbericht 2015, Luzern 64 pp. (*in German*)
12. Written contribution for the booklet: Natur-Museum Luzern 2017. Jahresbericht 2016, Luzern 64 pp. (*in German*)
13. Written contribution for the booklet: Natur-Museum Luzern 2018. Jahresbericht 2017, Luzern 64 pp. (*in German*)
14. Written contribution for the booklet: Natur-Museum Luzern 2019. Jahresbericht 2018, Luzern 64 pp. (*in German*)