

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, *Borrelia 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 $\alpha$ : 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., Schirrmeister 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.
40. Šifner F. & **Bernasconi M.V.** (2021): New checklist of species of the family Scathophagidae (Diptera) from the Czech Republic, Slovakia and Austria, with notes on some species. *Linzer biologische Beiträge* 53/1: 503-513.
41. Rosa P., Heim R., **Bernasconi M.V.** (2022). The Palaearctic types of Chrysididae (Insecta, Hymenoptera) deposited in the Linsenmaier collection. Part 2. Elampini: genus *Hedychridium* Abeille de Perrin, 1878. *Zootaxa* 5090: 1-94.
42. Rosa P., Heim R., **Bernasconi M.V.** (2022). The Palaearctic types of Chrysididae (Insecta, Hymenoptera) deposited in the Linsenmaier collection. Part 3. Elampini: genus *Hedychrum* Latreille. *Zootaxa* 5195: 1-23.

**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 calypttrate 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*)
15. Written contribution for the book: Gegen das Vergessen-Die Sammlungen des Natur-Museums Luzern. Allgöwer B., Westrich J. & Boesch H. R. (Ed.) *et al.* (**2021**). Veröffentlichungen aus dem Natur-Museum Luzern Nr. 18, pp. 170. (*in German*)