

Wichtigste wissenschaftliche Publikationen (Scientific “peer reviewed” publications)

- 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.
- **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.
- 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.
- **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.
- 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.
- **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.
- 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.
- **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.
- 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.
- 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.
- **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.
- 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.

- 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.
- 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.
- 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.
- 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.
- Willi B, Boretti FS, Meli ML, **Bernasconi MV**, 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.
- 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.
- **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.
- **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.
- 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.
- 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.
- Rossetti V., Schirmermeister 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.
- 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.
- 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.

- **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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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>

Weitere wissenschaftliche Publikationen (Diploma-/PhD-Thesis, Scientific “minor journal” publications, Book chapters)

- **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.
- **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 Italianisch*).
- **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.
- **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, Calyptratae). *Boll. Soc. Tic. Sci. Natur.* 87: 45-48.
- **Bernasconi, M. V.** (2000). Mitochondrial DNA sequences in insect phylogeny and taxonomy: Applications to the systematics of the Scathophagidae (Diptera, Calyptratae), **Ph.D. thesis**, pp. 1–57. Zoologisches Museum der Universität Zürich, Switzerland.

- 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 *Italianisch*).
- 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.
- Germann C, Naglis S. and **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 *Deutsch*)
- Germann C and **Bernasconi M. V.** (2010) Langbeinfliegen-Funde abseits der Hauptsaison (Diptera, Dolichopodidae). *Entomo Helvetica* 3, 115-122 (in *Deutsch*).
- Germann C., **Bernasconi M. V.** & Cordillot F. (2013). Projektvorstellung „Aktualisierung Endemitenliste der Schweiz“. *Entomo Helvetica* 6, 175-177 (in *Deutsch*).
- Naglis S & **Bernasconi M. V.** (2014). *Thrypticus smaragdinus* Gerstäcker (Diptera, Dolichopodidae), neu für die Schweiz. *Entomo Helvetica* 7, 135-137 (in *Deutsch*).

Andere Beiträge:

- Beitrag für den Flyer “ASIRB (Associazione della Svizzera italiana per la ricerca biomedica): Le sfide dell’associazione nel ventunesimo secolo.” (2000) (in *Italianisch*)
- “Le zecche: sgradevoli e non innocue”. (Corriere del Ticino, 30. Juni 2001) (in *Italianisch*)
- Beitrag für die Broschüre: “ICM: Istituto cantonale di microbiologia”. Bellinzona, März 2003, pp. 1-80 (in *Italianisch*)
- Flyer „Molekulare Phylogenetik und Systematik“ (zur Ausstellung: Darwin year 09; Entdecken Sie den Stammbaum des Lebens, Zürich 4-6.09.2009) (in *Deutsch und Englisch*)
- Flyer „Molekulare Stammesgeschichte der Dolichopodidae (Insecta: Diptera)“ (zur Ausstellung: Darwin year 09; Entdecken Sie den Stammbaum des Lebens, Zürich 4-6.09.2009) (in *Deutsch und Englisch*)
- Beitrag im „Ausstellungsführer – Guide“ zum Darwin Year 09 (200 Jahre Darwin, 150 Jahre Evolutionstheorie): Acari (Milben)-Ticks and Mites. Zürich, 4-6.09.2009 (in *Deutsch und Englisch*)