

Matteo Vecchi

<https://orcid.org/0000-0002-7995-6827>

Vecchi, M., Tsvetkova, A. Y., Stec, D., Ferrari, C., Calhim, S., & Tumanov, D. V. (2023). Expanding *Acutuncus*: phylogenetics and morphological analyses reveal a considerably wider distribution for this tardigrade genus. *Molecular Phylogenetics and Evolution*, 107707. <https://doi.org/10.1016/j.ympev.2023.107707>

Vecchi M., Calhim S. & Choong H. (2023). Larva description and phylogenetic position of the armoured tardigrade *Acanthechiniscus goedeni* (Grigarick, Mihelčič & Schuster, 1964). *Zootaxa*, 5227(2): 295 – 300.

Vecchi, M., Choong, H., & Calhim, S. (2022). A New Species of the Genus *Crenubiotus* (Tardigrada: Eutardigrada: Adorybiotidae) from Salt Spring Island, Strait of Georgia, British Columbia (Canada). *Folia Biologica (Kraków)*, 70 (3): 93-105. https://doi.org/10.3409/fb_70-3.11.

Vecchi, M. Chartrain , J., Puro, S., Tynkknen, R., Vuori, T., , Michalczyk, L., & Calhim, S. 2022. First insights into female sperm storage duration in tardigrades. *Ecology and Evolution*, 12: r9010. <https://doi.org/10.1002/ece3.9010>

Vecchi, M., Choong, H., & Calhim, S. (2022). *Sisubiotus hakaiensis* sp. nov. (Tardigrada, Macrobiotidae), a new tardigrade species from Calvert Island (British Columbia, Canada). *European Journal of Taxonomy*, 823: 64-81. <https://doi.org/10.5852/ejt.2022.823.1815>.

Vecchi, M., Stec, D., Tommi, V., Ryndov, S., Chartrain, J., & Calhim, S. (2022). *Macrobiotus naginae* sp. nov., a New Xerophilous Tardigrade Species from Rokua Sand Dunes (Finland). *Zoological Studies*, 61(22), 1-15. <https://doi.org/10.6620/ZS.2022.61-22>

Vuori, T., Calhim, S., & **Vecchi, M.** (2022). A lift in snail's gut provides an efficient colonization route for tardigrades. *Ecology*, e3702.

Vecchi, M., Ferrari, C., Stec, D., & Calhim, S. (2022). Desiccation risk favours prevalence and diversity of tardigrade communities and influences their trophic structure in alpine ephemeral rock pools. *Hydrobiologia*, 1-13. <https://doi.org/10.1007/s10750-022-04820-0>

Abolafia, J., & **Vecchi, M.** (2021). Redescription and phylogenetic analysis of the type species of the genus *Panagrellus* Thorne, 1938 (Rhabditida, Panagrolaimidae), *P. pycnus* Thorne, 1938, including the first SEM study. *Journal of Nematology*, 53.

Vecchi M, Kossi Adakpo L, Dunn RR., Nichols LM, Penick CA., Sanders NJ, Rebecchi L, Guidetti, R. (2021). The toughest animals of the Earth versus global warming: Effects of long-term experimental warming on tardigrade community structure of a temperate deciduous forest. *Ecology and Evolution*, 11, 9856-9863.

Stec D, **Vecchi M**, Dudziak M, Bartels PJ, Calhim S, Michalczyk Ł. (2021). Integrative taxonomy resolves species identities within the *Macrobiotus pallarii* complex (Eutardigrada: Macrobiotidae). *Zoological Letters*, 7(1), 1-45.

Vecchi, M., Stec, D. (2021). Integrative descriptions of two new *Macrobiotus* species (Tardigrada, Eutardigrada, Macrobiotidae) from Mississippi (USA) and Crete (Greece). *Zoosystematics and Evolution*, 97, 281. <http://dx.doi.org/10.3897/zse.97.65280>

Stec D, **Vecchi M**, Calhim S, Michalczyk Ł. (2021). New multilocus phylogeny reorganises the family Macrobiotidae (Eutardigrada) and unveils complex morphological evolution of the Macrobiotus hufelandi group. *Molecular Phylogenetics and Evolution*, 106987. <http://dx.doi.org/10.1016/j.ympev.2020.106987>

Kiosya Y, Pogwizd J, Matsko Y, **Vecchi M**, Stec D. (2021). Phylogenetic position of two *Macrobiotus* species with a revisional note on *Macrobiotus sottilei* Pilato, Kiosya, Lisi & Sabella, 2012 (Tardigrada: Eutardigrada: Macrobiotidae). *Zootaxa*, 4933(10), 113-135.

Sted D, **Vecchi M**, Maciejowski W, Michalczyk Ł. (2020). Resolving the systematics of Richtersiidae by multilocus phylogeny and an integrative redescription of the nominal species for the genus *Crenubiotus* (Tardigrada). *Scientific Reports*, 10, 19418. DOI: 10.1038/s41598-020-75962-1

Vuori T, Massa E, Calhim S, **Vecchi M**. (2020). Tardigrades of Finland: new records and an annotated checklist. *Zootaxa*, 4851(3), 477-521. <http://dx.doi.org/10.11164/zootaxa.4851.3.3>

Guidetti R, **Vecchi M**, Ferrari A, Newton IL, Cesari M, Rebecchi L. (2020). Further insights in the Tardigrada microbiome: phylogenetic position and prevalence of infection of four new Alphaproteobacteria putative endosymbionts. *Zoological Journal of the Linnean Society*, 188(3), 925-937.

Nardelli A, **Vecchi M**, Mandrioli M, Manicardi GC. (2019). The evolutionary history and functional divergence of trehalase (treh) genes in insects. *Frontiers in physiology*, 10, 62.

Vecchi M. Newton GI, Cesari M, Rebecchi L, Guidetti R. (2018). The microbial community of tardigrades: environmental influence and species specificity of microbiome structure and composition. *Microbial Ecology*, 76(2), 467-481.

Gatti E, **Vecchi M**. (2017). Micropagation of *Aristolochia rotunda* L. *Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology*, 151(4), 581-583.

Vecchi M. Vicente F, Guidetti R, Bertolani R, Rebecchi L, Cesari M. (2016). Interspecific relationships of tardigrades with bacteria, fungi and protozoans, with a focus on the phylogenetic position of *Pyxidium tardigradum* (Ciliophora). *Zoological Journal of the Linnean Society*, 178(4), 846-855.

Cesari M, **Vecchi M**, Palmer A, Bertolani R, Pilato G, Rebecchi L, Guidetti R. (2016). What if the claws are reduced? Morphological and molecular phylogenetic relationships of the genus *Haplomacrobiotus* May, 1948 (Eutardigrada, Parachela). *Zoological Journal of the Linnean Society*, 178(4), 819-827.

Vecchi M, Cesari M, Bertolani R, Jönsson KI, Rebecchi L, Guidetti R. (2016). Integrative systematic studies on tardigrades from Antarctica identify new genera and new species within Macrobiotoidea and Echiniscoidea. *Invertebrate Systematics*, 30(4), 303-322. <http://dx.doi.org/10.1071/IS15033>