Theodora Petanidou

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Key research and expertise

Pollination ecology and reproductive ecology of plants (reproductive strategies, mating systems, nectar and pollen as floral rewards, plant–pollinator interaction networks); biogeography and biodiversity of pollinators; threats to pollinators (mainly bees and hover flies); structure, function and management of Mediterranean ecosystems, marginal lands, and artificial wetlands; species and ecosystem conservation – ecological management; effects of invasive species, fragmentation, and global change on the reproduction and rarity of plants; ecogeography and cultural ecology of the Mediterranean; history, geography and management of natural resources (e.g. salt, salinas and saltscapes, terraced landscapes, olive groves).

Focus on T. Petanidou's publications

Lazarina M., Sgardelis S.P. Tscheulin T., Devalez J., Mizerakis V., Kallimanis A.S., Papakonstantinou S., Kyriazis T., **Petanidou T.** (2017). The effect of fire history in shaping diversity patterns of the flower-visiting insects in post-fire Mediterranean pine forests. ***Biodiversity and Conservation*** 26(1): 115–131. http://dx.doi.org/10.1007/s10531-016-1228-1.

Goras G., Tananaki C., Dimou M., Tscheulin T., **Petanidou T.,** Thrasyvoulou A. Impact of honeybee (*Apis mellifera* L.) density on wild bee foraging behavior. ***Journal of Apicultural Science*** 60: 49–61. http://dx.doi.org/10.1515/jas-2016-0007.

Lázaro A., Chroni A., Tscheulin T., Devalez J., Matsoukas Ch., **Petanidou T.** (2016). Electromagnetic radiation of mobile telecommunication antennas affects the abundance and composition of wild pollinators. ***Journal of Insect Conservation*** 20: 315–324. http://dx.doi.org/10.1007/s10841-016-9868-8.

Lazarina M., Sgardelis S.P. Tscheulin T., Kallimanis A.S. Devalez J., **Petanidou T.** (2016). Bee response to fire regimes in Mediterranean pine forests: the role of nesting preference, trophic specialization, and body size. ***Basic and Applied Ecology*** 17: 308–320. http://dx.doi.org/10.1016/j.baae.2016.02.001.

Lázaro A., Tscheulin T., Devalez J., Nakas G. **Petanidou T.** (2016). Effects of grazing intensity on flower cover, pollinator abundance and diversity, and pollination services. ***Ecological Entomology*** 41: 400–412. http://dx.doi.org/10.1111/een.12310.

Lázaro A., Tscheulin T., Devalez J., Nakas G., Stefanaki A., Hanlidou E., **Petanidou T.** (2016). Moderation is best: effects of grazing intensity on pollination networks in Mediterranean communities. ***Ecological Applications*** 26(3): 796-807. http://dx.doi.org/10.1890/15-0202.

Stefanaki A., Kantsa A., Tscheulin T., Charitonidou M., **Petanidou T.** (2015). Lessons from Red Data Books: Plant vulnerability increases with floral complexity. ***PLOSone*** 10(9), e0138414: 1-18. http://dx.doi.org/10.1371/journal.pone.0138414.

Takkis K., Tscheulin T., Tsalkatis P., **Petanidou T.** (2015). Climate change reduces nectar secretion in two common Mediterranean plants. ***AoB-plants***. http://dx.doi.org/10.1093/aobpla/plv111.

Kaloveloni A., Tscheulin T., Vujic A., Radenkovic S., **Petanidou T.** (2015). Winners and losers of climate change for the genus *Merodon* (Diptera: Syrphidae) across the Balkan Peninsula. ***Ecological Modelling*** 313: 201–211. http://dx.doi.org/10.1016/j.ecolmodel.2015.06.032.

Petanidou T., Kallimanis A.S., Sgardelis S.P., Mazaris A.D., Pantis J. D., Waser N.M. (2014). Variable flowering phenology and pollinator use in a community suggest future phenological mismatch. ***Acta Oecologica*** 59: 104–111. http://dx.doi.org/10.1016/j.actao.2014.06.001.

Petanidou T., Ståhls G., Vujić A., Olesen J.M., Rojo S., Thrasyvoulou A., Sgardelis S., Kallimanis A.S., Kokkini S., Tscheulin T. (2013). Investigating Plant–Pollinator Relationships in the Aegean: the approaches of the project POL-AEGIS (The Pollinators of the Aegean Archipelago: Diversity and Threats). ***Journal of Apicultural Research*** 52(2): 106–117. http://dx.doi.org/10.3896/IBRA.1.52.2.20.

Tscheulin T., **Petanidou T.** (2013). The presence of *Solanum elaeagnifolium*, an invasive plant in the Mediterranean, increases pollen limitation in the native co-flowering species *Glaucium flavum.* ***Biological Invasions*** 15: 385–393. http://dx.doi.org/10.1007/s10530-012-0293-y.

Schweiger O., Biesmeijer J., Bommarco R., Hickler T., Hulme P.E., Klotz S., Kühn I., Moora M., Nielsen A., Ohlemüller R., **Petanidou T.**, Potts S.G., Pyšek P., Stout J., Sykes M., Tscheulin T., Vilà M., Walther G.-R., Westphal C., Winter M., Zobel M., Settele J. (2010). Multiple stressors on biotic interactions: how climate change and alien species interact to affect pollination. ***Biological Reviews*** 85: 777–795. http://dx.doi.org/10.1111/j.1469-185X.2010.00125.x.

Vilà M., Bartomeus I., Dietzsch A.C., **Petanidou T.,** Steffan-Dewenter I., Stout J.C., Tscheulin T. (2009). Invasive plant integration into native plant–pollinator networks across Europe. ***Proceedings of the Royal Society of London – B*** 276 (1674): 3887–3893. http://dx.doi.org/10.1098/rspb.2009.1076.

Petanidou T., Kallimanis A.S., Tzanopoulos J., Sgardelis S.P., Pantis J.D. (2008). Long-term observation of a pollination network: fluctuation in species and interactions, relative invariance of network structure, and implications for estimates of specialization. ***Ecology Letters*** 11(6): 564–575. http://dx.doi.org/10.2307/2999643.