and long-term stability of antagonistic networks. Proc. R. Soc. B 285: 20172596.
• Melián C, Seehausen O, Eguiluz V, Fortuna M, Deiner K. 2015. Diversification and Biodiversity
Dynamics of Hot and Cold Spots. Ecography 38, 393-401.
• Melián C, et al. 2015. Dispersal dynamics in food webs. American Naturalist 185, 2: 157-168.
• Melián C., et al. 2014. Individual trait variation and diversity in food webs. Advances in Ecological
Research. Vol. 50. Academic Press, 207-241.

List of relevant projects

2020 Melián, C. J. and Ferrão Filho, Aloysio S. Granted: Brazilian-Swiss Joint Research Programme
SNSF, Title: Feedbacks between coevolving predator-prey interactions and the funcitoning of aquatic
ecosystems. Period: 24 Months, SFr 228k
2018 Melián, C. J., Andreazzi, C., and Astegiano, J. SNSF, Scientific exchange program, Title: Biodi-
versity Dynamics in Coevolutionary Metaecosystems. Period: 3 Months, SFr 20k
2016 Melián, C. J., Matthews, B., Seehausen, O., and Harmon, L. J. Granted: Swiss National Science
Foundation, International exploratory workshops. Title: Interactions on Trees. Period: 1 Week, SFr
21k.
2015 Kalinkat, G., and Melián, C. J. Granted: German Academic Exchange Service (DAAD). Germany.
Title: Analysing the interplay between allometric constraints and intraspecific trait variation to predict
food web dynamics. Period: 6 Months, SFr 19k.
2015 Melián, C. J. Granted: Swiss National Science Foundation, Division III. Switzerland. Title: A
theory for next- generation food web data. Period: 2 years (Postdoc), SFr 161k.

Infrastructure relevant to the proposed work

EAWAG in Kastanienbaum Lucerne offers excellent office, meeting rooms, laboratory and testing facil-
ities in modern, state-of-the-art buildings. EAWAG provides access to first class research facilities that
regularly offer training for the use of equipment, tools and software. Of particular relevance for this
research project is the access to two computing clusters "Leonhard" and "Euler" with more than 50 000
processor cores available for scientific computations, and training for their use offered by ETH Zürich.

4.2   Third parties involved in the project (third party resources)

5 Ethics and Security

5.1   Ethics

5.2   Security

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[1] Article 37.1 of the Model Grant Agreement: Before disclosing results of activities raising security issues to a third
party (including affiliated entities), a beneficiary must inform the coordinator – which must request written approval
from the Commission/Agency. Article 37.2: Activities related to "classified deliverables" must comply with the "security
requirements" until they are declassified. Action tasks related to classified deliverables may not be subcontracted without
prior explicit written approval from the Commission/Agency. The beneficiaries must inform the coordinator – which must
immediately inform the Commission/Agency – of any changes in the security context and –if necessary – request for Annex