

## Prof. Dr. Camilla Wellstein - List of Journal Publications

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### Journal articles in peer-reviewed academic journals with DOI

1. Alessi N, **Wellstein C**, Spada S, Zerbe S (in press): Population structure of *Laurus nobilis* L. in Central Italian forests: evidence for its ongoing expansion. *Rendiconti Lincei. Scienze Fisiche e Naturali*.
2. Midolo G, **Wellstein C**, Faurby S. (2021): Individual fitness is decoupled from coarse-scale probability of occurrence in North American trees. *Ecography* 44:1-13. DOI: 10.1111/ecog.05446
3. Alessi N, **Wellstein C**, Rocchini D, Midolo G, Oeggli K, Zerbe S (2021): Surface tradeoffs and elevational shifts at the largest Italian glacier: A thirty-years time series of remotely-sensed images. *Remote Sensing* 13(1): 134. DOI: 10.3390/rs13010134
4. Midolo G, Kuss P, **Wellstein C** (2021): Land use and water availability drive community-level plant functional diversity of grasslands along a temperature gradient in the Swiss Alps. *Science of the Total Environment*. 764: 142888. DOI: 10.1016/j.scitotenv.2020.142888
5. Chelli S, Ottaviani G, Simonetti E, Campetella G, **Wellstein C**, Bartha S, Cervellini M, Canullo R (2021): Intraspecific variability of specific leaf area fosters the persistence of understory specialists across a light availability gradient. *Plant Biology* 23: 212-216. DOI:10.1111/plb.13199
6. Geitner C, Mayr A, Rutzinger M, Löbmann MT, Tonin R, Zerbe S, **Wellstein C**, Markart G, Kohl B (2021): Shallow erosion on grassland slopes in the Alps - geomorphological classification, spatio-temporal analysis, and understanding snow and vegetation impacts. *Geomorphology* 373: 107446. DOI: 10.1016/j.geomorph.2020.107446
7. Campetella G, Chelli S, Simonetti E, Damiani C, Bartha S, **Wellstein C**, Giorgini D, Puletti N, Mucina L, Cervellini M, Canullo R (2020): Plant functional traits are correlated with species persistence in the herb layer of old-growth beech forests. *Scientific Reports* 10:19253. DOI: 10.1038/s41598-020-76289-7
8. Filibeck G, Sperandii MG, Bragazza L, Bricca A, Chelli S, Maccherini S, **Wellstein C**, Conte AL, Di Donatantonio M, Forte TGW, Lazzaro L, Macchiavelli T, Maestri S, Marchesini R, Marignani M, Midolo G, Oddi L, Rosati L, Silan G, Cancellieri L (2020): Competitive dominance mediates the effects of topography on plant richness in a mountain grassland. *Basic and Applied Ecology* 48: 112-123. DOI: 10.1016/j.baae.2020.09.008
9. Löbmann MT, Tonin R, Stegemann J, Zerbe S, Geitner C, Mayr A, **Wellstein C** (2020) Towards a better understanding of shallow erosion resistance of subalpine grasslands. *Journal of Environmental Management* 276: 111267. DOI: 10.1016/j.jenvman.2020.111267
10. Löbmann MT, Geitner C, **Wellstein C**, Zerbe S (2020) The influence of herbaceous vegetation on slope stability – A review. *Earth-Science Reviews* 209: 103328. DOI: 10.1016/j.earscirev.2020.103328
11. Midolo G, **Wellstein C** (2020) Plant performance and survival across transplant experiments depend upon temperature and precipitation change along elevation. *Journal of Ecology* 108: 2107-2120. DOI: 10.1111/1365-2745.13387
12. Casagrande Bacchiocchi S, Scandellari F, **Wellstein C**, Cavieres LA, Zerbe S (2020): Assessing the ecophysiological response of mountain grassland species to ski slope management through stable

isotope composition. *Isotopes in Environmental & Health Studies* 56(1): 1-15. DOI: 10.1080/10256016.2020.1725000

13. Tonin R, Gerdol R, **Wellstein C** (2020) Intraspecific functional differences of subalpine plant species growing in low-altitude microrefugia and high-altitude habitats. *Plant Ecology* 221: 155-166. DOI: 10.1007/s11258-020-01001-8
14. Löbmann MT, Tonin R, **Wellstein C**, Zerbe S (2020) Determination of the surface-mat effect of grassland slopes as a measure for shallow slope stability. *Catena* 187: art. 104397. DOI: 10.1016/j.catena.2019.104397
15. Speak A, Montagnani L, **Wellstein C**, Zerbe S (2020) The influence of tree traits on urban ground surface shade cooling. *Landscape and Urban Planning* 197: 103748. DOI: 10.1016/j.landurbplan.2020.103748
16. Kattge J, Böniš B, Díaz S, Lavorel S, Prentice IC, Leadley P, Tautenhahn S, Werner G, et al. ..., **Wellstein C**, et al. ..., Wirth C (2020) TRY plant trait database - enhanced coverage and open access. *Global Change Biology* 26: 119–188. DOI: 10.1111/gcb.14904
17. Stotz GC, Cahill Jr. JF, Bennett JA, Carlyle CN, Bork E, Askarizadeh D, Bartha S, Beierkuhnlein C, Boldgiv B, Brown L, Cabido M, Campetella G, Chelli S, Cohen O, Díaz S, Enrico L, Ensing D, Erdenetsetseg B, Fidelis A, Garris H, Henry HAL, Jentsch A, Jouri MH, Koorem K, Manning P, Mitchell R, Moora M, Overbeck GE, Pither J, Reinhart K, Sternberg M, Tungalag R, Undrakhbold S, van Rooyen M, **Wellstein C**, Zobel M, Fraser L (2020): Not a melting pot: Plant species aggregate in their non-native range. *Global Ecology and Biogeography* 29: 482-490. DOI: 10.1111/geb.13046
18. Terziyska T, Tsakalos J, Bartha S, Apostolova I, Sopotlieva D, Zimmermann Z, Szabó G, **Wellstein C** (2020): Species and functional differences between subalpine grasslands with and without dwarf shrub encroachment. *Plant Biosystems* 154(4): 568-577. DOI: 10.1080/11263504.2019.1651780
19. Montagnani L, Badraghi A, Speak AF, **Wellstein C**, Borruso L, Zerbe S, Zanotelli D (2019): Evidence for a non-linear carbon accumulation pattern along an Alpine glacier retreat chronosequence in Northern Italy. *PeerJ* 7: e7703. DOI: 10.7717/peerj.7703
20. Chelli S, Ottaviani G, Simonetti E, **Wellstein C**, Canullo R, Carnicelli S, Andreetta A, Puletti N, Bartha S, Cervellini M, Campetella G (2019): Climate is the main driver of clonal and bud bank traits in Italian forest understories. *Perspectives in Plant Ecology, Evolution and Systematics* 40: 125478. DOI: 10.1016/j.ppees.2019.125478
21. Chelli S, Simonetti E, **Wellstein C**, Campetella G, Carnicelli S, Andreetta A, Giorgini D, Puletti N, Bartha S, Canullo R (2019): Effects of climate, soil, forest structure and land use on the composition of the functional traits of understory vegetation in Italian forests. *Journal of Vegetation Science* 30(6): 1110-1121. DOI: 10.1111/jvs.12792
22. Campetella G, Chelli S, **Wellstein C**, Farris E, Calvia G, Simonetti E, Borsukiewicz L, Vanderplank S, Marignani M (2019): Contrasting patterns in leaf traits of Mediterranean shrub communities along an elevation gradient: measurements matter. *Plant Ecology* 220 (7-8): 765-776. DOI: 10.1007/s11258-019-00951-y
23. Krämer N, Dercon G, Cisneros P, Arango Lopez F, **Wellstein C** (2019): Adding another dimension: Temporal development of the spatial distribution of soil and crop properties in slow-forming terrace systems. *Agriculture Ecosystems and Environment* 283: article 106543. DOI: 10.1016/j.agee.2019.05.002
24. Midolo G, De Frenne P, Hölzel N, **Wellstein C** (2019): Global patterns of intraspecific leaf trait responses to elevation. *Global Change Biology* 25: 2485-2498. DOI: 10.1111/gcb.14646
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- of seed production in snowbed plant species. *Frontiers in Plant Science* 10: 1-12. DOI: 10.3389/fpls.2019.00289
26. Casagrande Bacchiocchi S, Zerbe S, Cavieres L, **Wellstein C** (2019): Impact of ski piste management on mountain grassland ecosystems in the Southern Alps. *Science of the Total Environment* 665: 959-967. DOI: 10.1016/j.scitotenv.2019.02.086
27. Alessi N, Tešitel J, Zerbe S, Spada F, Agrillo E, **Wellstein C** (2019): Ancient refugia and present-day habitat suitability of native laurophylls in Italy. *Journal of Vegetation Science* 30: 564-574. DOI: 10.1111/jvs.12743
28. Chelli S, Marignani M, Barni E, Petraglia A, Puglielli G, **Wellstein C**, Acosta ATR, Bolpagni R, Bragazza L, Campetella G, Chiarucci A, Conti L, Nascimbene J, Orsenigo S, Pierce S, Ricotta C, Tardella FM, Abeli T, Aronne G, Bacaro G, Bagella S, Benesperi R, Bernareggi G, Bonanomi G, Bricca A, Brusa G, Buffa G, Burrascano S, Caccianiga M, Calabrese V, Canullo R, Carbognani M, Carboni M, Carranza ML, Catorci A, Ciccarelli D, Citterio S, Cutini M, Dalle Fratte M, De Micco V, Del Vecchio S, Di Martino L, Di Musciano M, Fantinato E, Filigheddu R, Frattaroli AR, Gentili R, Gerdol R, Giarrizzo E, Giordani P, Gratani L, Incerti G, Lussu M, Mazzoleni S, Mondoni A, Montagnani C, Montagnoli A, Paura B, Petruzzellis F, Pisanu S, Rossi G, Sgarbi E, Simonetti E, Siniscalco C, Slaviero A, Stanisci A, Stinca A, Tomaselli M, Cerabolini BEL (2019): Plant-environment interactions through a functional traits perspective: a review of Italian studies. *Plant Biosystems* 153 (6): 853-869. DOI: 10.1080/11263504.2018.1559250
29. Borruso L#, **Wellstein C**#, Bani A, Casagrande S, Margoni A, Tonin R, Zerbe S, Brusetti L (2018): Temporal shifts in endophyte bacterial community composition of sessile oak (*Quercus petraea*) are linked to foliar nitrogen, stomatal length, and herbivory. *PeerJ* 6: e5769. DOI:10.7717/peerj.5769 (#: shared first authorship, authors have equal contributions)
30. Bani A, Borruso L, Fornasier F, Pioli S, **Wellstein C**, Brusetti L (2018): Microbial Dynamics and Functionality Are Decoupled in Forest Litter Decomposition. *Microbial Ecology* 76(4): 1030-1040. DOI: 10.1007/s00248-018-1181-5
31. Alessi N, **Wellstein C**, Spada F, Zerbe S (2018): Phytocoenological approach to the ecology of *Laurus nobilis* L. in Italy. *Rendiconti Lincei. Scienze Fisiche e Naturali*. 29(2): 343-354 DOI: 10.1007/s12210-018-0677-8
32. **Wellstein C**, Poschlod P, Gohlke A, Chelli S, Campetella G, Rosbakh S, Canullo R, Kreyling J, Jentsch A, Beierkuhnlein C (2017): Effects of extreme drought on specific leaf area of grassland species: A meta-analysis of experimental studies in temperate and sub-Mediterranean systems. *Global Change Biology* 23: 2473-2481. DOI: 10.1111/gcb.13662
33. Kreyling J, Dengler J, Walter J, Velez J, Ugurlu E, Sopotlieva D, Ransijn J, Picon-Cochard C, Nijs I, Hernandez P, Güler B, von Gillhaussen P, De Boeck HJ, Bloor JMG, Berwaers S, Beierkuhnlein C, Arfin Kahn MAS, Apostolova I, Altan Y, Zeiter M, **Wellstein C**, Sternberg M, Stampfli A, Campetella G, Bartha S, Bahn M, Jentsch A (2017): Species richness effects on grassland recovery from drought depend on community productivity in a multi-site experiment. *Ecology Letters* 20: 1405-1413. DOI: 10.1111/ele.12848
34. Chelli S, **Wellstein C**, Campetella G, Canullo R, Tonin R, Zerbe S, Gerdol R (2017): Climate change response of vegetation across climatic zones in Italy. *Climate Research* 71: 249-262. DOI: 10.3354/cr01443
35. Canullo R, Simonetti E, Cervellini M, Chelli S, Bartha S, **Wellstein C**, Campetella G (2017): Unravelling mechanisms of short-term vegetation dynamics in complex coppice forest systems. *Folia Geobotanica* 52: 71-81. DOI: 10.1007/s12224-016-9264-x
36. Chelli S, Canullo R, Campetella G, Schmitt AO, Bartha S, Cervellini M, **Wellstein C** (2016): The response of sub-Mediterranean grasslands to rainfall variation is influenced by early season precipitation. *Applied Vegetation Science* 19: 611-619. DOI: 10.1111/avsc.12247

37. Güler B, Jentsch A, Apostolova I, Bartha S, Bloor J, Campetella G, Canullo R, Házi, J, Kreyling J, Pottier J, Szabó G, Terziyska T, Uğurlu E, **Wellstein C**, Zimmermann Z, Dengler J (2016) : How plot shape and spatial arrangement affect plant species richness counts: implications for sampling design and rarefaction analyses. *Journal of Vegetation Science* 27: 692-703. DOI: 10.1111/jvs.12411
38. Dolos K, Mette T, **Wellstein C** (2016): Silvicultural climatic turning point for European beech and sessile oak in Western Europe derived from national forest inventories. *Forest Ecology and Management* 373: 128–137. DOI: 10.1016/j.foreco.2016.04.018
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40. Fraser LH, Pither J, Jentsch A, Sternberg M, Zobel M, Askarizadeh D, Bartha S, Beierkuhnlein C, Bennett J, Bittel A, Boldgiv B, Boldrini II, Bork E, Brown L, Cabido M, Cahill J, Carlyle CN, Campetella G, Chelli S, Cohen O, Csergo A-M, Díaz S, Enrico L, Ensing D, Fidelis A, Fridley JD, Foster B, Garris H, Goheen JR, Henry HAL, Hohn M, Jouri MH, Klironomos J, Koorem K, Lodge RL, Long R, Manning P, Mitchell R, Moora M, Müller SC, Nabinger C, Naseri K, Overbeck GE, Palmer TM, Parsons S, Pesek M, Pillar VD, Pringle RM, Roccaforte K, Schmidt A, Shang Z, Stahlmann R, Stotz G, Sugiyama S, Szentes S, Thompson D, Tungalag R, Undrakhbold S, van Rooyen M, **Wellstein C**, Wilson JB, Zupo T (2015): Worldwide evidence of a unimodal relationship between productivity and plant species richness. *Science* 349: 302-305. DOI: 10.1126/science.aab3916
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42. Backhaus S, Wiehl D, Beierkuhnlein C, Jentsch A, **Wellstein C** (2014): Warming and drought do not influence the palatability of *Quercus pubescens* Willd. Leaves of four European provenances. *Arthropod-Plant Interactions* 8: 329-337. DOI: 10.1007/s11829-014-9313-4
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55. Jentsch A, Kreyling J, Elmer M, Gellesch E, Glaser B, Grant K, Hein R, Lara M, Mirzaee H, Nadler SE, Nagy L, Otieno D, Pritsch K, Rascher U, Schädler M, Schloter M, Singh BK, Stadler J, Walter J, **Wellstein C**, Wöllecke J, Beierkuhnlein C (2011): Climate extremes initiate ecosystem-regulating functions while maintaining productivity. *Journal of Ecology* 99 (3): 689-702. DOI: 10.1111/j.1365-2745.2011.01817.x
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