

Curriculum Vitae of Mark van Kleunen

Personalialia



Name Mark van Kleunen
Date of birth 10 December 1973
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Research Interests

I do basic and applied research in plant ecology. My research is guided by the basic questions of how phenotypic variation in functional traits is shaped by environmental and genetic variation, and how these traits, biotic interactions and the abiotic environment determine the decline and spread of species, particularly in the light of global change. To answer these questions, I use a broad range of methods including data-base studies, meta-analysis of published studies, and experimental studies in the greenhouse, garden and field.

Education and Employment

Guest professor of Invasion Ecology	Feb 2017–Jan 2020	Taizhou University, China
Professor of Ecology	Feb 2011–	University of Konstanz, Germany
Junior group leader	Apr 2007–Jan 2011	University of Bern, Switzerland
Postdoctoral fellow	Sep 2005–Mar 2007	University of KwaZulu-Natal and University of Stellenbosch, South Africa
Research assistant/lecturer	Apr 2004–Aug 2005	University of Potsdam, Germany

Postdoctoral fellow	Aug 2003–Mar 2004	University of KwaZulu-Natal, South Africa
Postdoctoral fellow	Mar 2002– Jul 2003	University of British Columbia, Canada
Postdoctoral fellow	Feb 2001–Feb 2002	University of Zurich, Switzerland
PhD in biology (<i>with distinction</i>)	Nov 1997–Feb 2001	University of Zurich, Switzerland
Biology studies (<i>cum laude</i>)	Aug 1992–Aug 1997	University of Utrecht, the Netherlands

Administrative functions

Head of the Biology Department at the University of Konstanz	Oct 2018–Sept 2022
Member of the Board of the Biology Department at the University of Konstanz	Oct 2014–Sept 2025
Member of the Board of the Faculty of Sciences at the University of Konstanz	Oct 2018–Sept 2023
Member of the Committee on Research at the University of Konstanz	Oct 2014–Sept 2018
Co-director of the Botanical Garden at the University of Konstanz	Feb. 2011–

Teaching

Since 2003, I have lectured and led labs in courses on evolutionary biology, biotic interactions, ecological genetics, plant physiology, experimental design, statistical analysis, global change ecology, plant identification, plant ecology and invasion biology at the University of British Columbia, the University of KwaZulu-Natal, the University of Potsdam, the University of Bern, the University of Fribourg, and currently at the University of Konstanz. I can teach in German, English and Dutch.

Current courses taught at the University of Konstanz

- Bau und Funktion der Pflanzen (construction and functioning of plants): Here I teach three of the thirteen microscopy classes to the 2nd semester bachelor students.

- Ökologie (Ecology): In this lecture series for the 3rd semester bachelor students, I do 7 of the 14 lectures.
- Kompaktkurs Pflanzenphysiologie (compact course plant physiology): In this intensive course for the 5th semester bachelor students, my group leads two of the six experiments that the students have to do.
- Global change ecology and plants: This in an intensive advanced course for Master students and focusses on the main research topics of my group.
- Plant ecology seminar: This is my weekly group seminar, in which group members and interested students present their latest results and research ideas.
- Ecology journal club: This a weekly journal club for the members of my group and interested students.

Supervised Graduate Students and Postdocs

Past

- Bachelor students: Delphine Kolly, Anna Meier, Moritz Saxenhofer, Patrick Nater, Pius Winiger, Katarina Varga, Ingo Breddin, Joana Thiel, Carolina Wackerhagen, Nikolaus MacLachlan, Felix Prah, Sarah Schröder, Michael Röckle, Linda Lörcher, Carolin Tetzner, David Gudnason, Dominika Kundel, Jennifer König, Laura Heinzemann, Paula Rotter, Tilman Rönneburg, Carola Dostal, Daniel Schmitt, Annika Woltjen, Felicitas Oehler, Oliver Michels, Valentin Marteau, Karoline Jetter, Benedikt Speißer, Julia Kern, Lisa Gutbrod, Anna Brumer, Sarah Berg, Hannah Lechner, Elina Rittelmann, Johanna Roller, Lara Plattner, Nikolas Buchenau, Angelina Hardrath, Fabienne Raabe, Hannah Ruppert, Lisa Maier, Mina Eberlein, Valentina Zickenberg, Darius Waser, Stella Hillman, Jamie Luders, Sinja Wiest
- MSc. Students: Sabine Rahm, Delphine Kolly, Stefan Dietrich, James Rodger, Sebastian Keller, Jens Joschinski, Sina Glöckner, Stefanie Lemmermeyer, Eva Malecore, Huan Le, Maike Willers, Dominika Kundel, Xiaoqi Zhang, Jacob Rosenthal, Carola Dostal, Sylvie Berthelot, Bernhard Stehle, Nadja Köhler, Sarah Stahl, Jonas Bleilevens, Benedikt Speißer, Karoline Jetter, Jacqueline Jauch, Louisa Neubauer, Lara Plattner, Stephanie Gurres
- PhD students: Thomas Chrobock, Anne Kempel, James Rodger, Janosch Sedlacek, Yanhao Feng, Mialy Razanajatovo, Gregor Müller, Samuel Carleial, Yanjie Liu, Emily Haeuser, Yan Li, Eva Malecore, Zhijie Zhang, Dominika Kundel, Tom Lachaise, Ali Omer, Duo Chen

- Postdocs: Dr Melanie Glättli, Dr Daniel Schlaepfer, Dr Margherita Gioria, Dr Ayub Oduor, Dr Wayne Dawson, Dr Yanjie Liu, Dr Noëlie Maurel, Dr Sasha Kosanic, Dr Robin Pouteau, Dr Caroline Brunel, Dr Madhav Thakur, Dr Bi-Cheng Dong, Dr Jianjun Zeng, Dr Anke Stein, Dr Mialy Razanajatovo, Dr Qiang Yang, Dr Rutger Wilschut, Dr Zhijie Zhang, Dr Zihua Hao, Dr Trevor Fristoe, Dr Brian Steidinger

Currently

- Bachelor students: Eva Behrens, Iris Eberlein, Luisa Wienges

- MSc students: Stephan Wroblewski

- PhD students: Guanwen Wei, Benedikt Speißer, Weihang Zhao, Rashmi Paudel, Shi Xiong

- Postdocs: Dr Marc Stift, Dr Nicole Kinlock, Dr Xiaoqi Zhang, Dr Amy Davis, Dr Duo Chen, Dr Peng Wang

Presentations

- >90 presentations at international conferences and university or institutional seminars
- Keynote speaker at the *Biology 2005* meeting in Basel, Switzerland (2005)
- Invited speaker at the *Macrophysiology* meeting in Plymouth, UK (2008)
- Invited speaker in the *Adaptive Developmental Plasticity* session at the *Euro Evo Devo* meeting in Ghent, Belgium (2008)
- Invited speaker at first meeting of the international working group 'Phenotypic Plasticity' of the ARC-NZ Research Network for Vegetation Function, Canberra, Australia (2009)
- Keynote speaker at the meeting of the Scandinavian Association for Pollination Ecologists, Seili, Finland (2009)
- Keynote speaker at 3rd International Symposium on Environmental Weeds and Invasive Plants, Ascona, Switzerland (2011)
- Invited speaker at NCCR Plant Survival Conference *Plant Survival: a Story of Sex, Violence and Light* in Neuchatel, Switzerland (2013)
- Invited speaker at Baker & Stebbin's meeting, Asilomar, California (2014)
- Plenary speaker at EMAPI in Hawaii (2015)
- Plenary speaker at The Second International Conference on Global Change and Biological Invasions in Taizhou, China (2015)
- Plenary speaker at Neobiota in Luxembourg (2016)
- Keynote speaker at the Italian Botanical Conference in Parma, Italy (2017)

- Invited speaker at the Chinese Population Biology meeting in Linfen, China (2017)
- Invited speaker for “Top Lecture” at the University of Leiden, the Netherlands (2018)
- Keynote speaker at international conference on Current and Emerging Topics in Global Change Ecology of Plants in Taizhou, China (2019)
- Invited speaker at Macro 2020 meeting in Konstanz, Germany (2020)
- Plenary speaker (online) at The Fourth International Conference on Global Change and Biological Invasions in Jiangsu, China (2020)
- Invited speaker (online) in the lecture series Planet Erde 3.0, at the Alfried Krupp Wissenschaftskolleg Greifswald and the University of Greifswald, Germany (2021; online presentation)
- Invited speaker at the ‘5. Biodiversitätskongress des Landesnetzwerks für Biodiversität und 5. Naturschutzgipfel der Naturschutzbeauftragten’ in Kornwestheim, Germany (2022)
- Invited speaker (online) at the Chinese Forest Biodiversity Monitoring Network CforBio (2022)
- Invited speaker (online) at the International Symposium on Ecology and Evolution under Global Change in Wuhan, China (2022)
- Plenary speaker (online) at The Fifth International Conference on Global Change and Biological Invasions in Shenyang, China (2022)
- Speaker at the ‘Klima im Wandel’ event organized by the Konstanzer Wissenschaftsforum (2022)

Current National and International Collaborations

- Prof. Marcel Dorken, Trent University, Canada
- Members of the Global Naturalized Alien Flora (GloNAF: Wayne Dawson, University of Konstanz; Dr. Marten Winter, iDiv Leipzig; Prof. Holger Kreft, University of Göttingen; Dr Patrick Weigelt, University of Göttingen; Dr Franz Essl, University of Vienna; Prof. Petr Pyšek, Czech Academy of Sciences; Dr Jan Pergl, Czech Academy of Sciences)
- Prof. Junmin Li and Prof. Fei-Hai Yu, Taizhou University, China

Reviewing and Editorial Work

- Reviews of manuscripts for *Acta Oecologia*, *Alpine Botany*, *American Journal of Botany*, *American Naturalist*, *Annals of Botany*, *Aquatic Botany*, *Australian Journal of Botany*, *Basic and Applied Ecology*, *Biological Conservation*, *Biological Invasions*, *Biological Journal of the Linnean Society*, *Biological Reviews*, *Biology Letters*, *BioScience*, *Biotropica*, *BMC Evolutionary Biology*, *Botanica Helvetica*,

Canadian Journal of Botany, Conservation Physiology, Crop Science, Current Biology, Data in Brief, Diversity, Diversity and Distributions, Ecography, Ecological Monographs, Ecological Applications, Ecological Research, Ecology, Ecology Letters, Ecosphere, Evolution, Evolutionary Ecology, Flora, Folia Geobotanica, Functional Ecology, Frontiers in Functional Plant Ecology, Genetics Research International, Global Ecology and Biogeography, Hydrobiologia, International Journal of Plant Sciences, Journal of Ecology, Journal of Pollination Ecology, Molecular Ecology, Nature, Nature Climate Change, Nature Ecology and Evolution, Nature Plants, NeoBiota, New Phytologist, Oecologia, Oikos, Perspectives in Plant Ecology and Evolution, Plant Biology, Plant Ecology, Plant and Soil, PLoS Biology, PLoS ONE, Proceedings of the National Academy of Sciences, Year in Evolutionary Biology

- Reviews of grant proposals for the Austrian Science Foundation (FWF), Baden-Württemberg Foundation, Dutch Science Foundation (NWO), the Academy of Sciences of the Czech Republic, the Czech Science Foundation (GACR), the German Research Foundation (DFG), the Research Foundation – Flanders (FWO), the National Science Foundation of America (NSF), National Research Foundation of South Africa (NRF), the Swiss National Science Foundation (SNF), European Cooperation in Science and Technology (COST), Natural Sciences and Engineering Research Council of Canada (NSERC) and the French National Research Agency (ANR), Fondation pour la Recherche sur la Biodiversité FRB-Cesab
- Numerous reviews of PhD thesis
- Reviews of habilitation theses
- Associate editor of Evolutionary Ecology (2005-2018)
- Co-editor of Plant Biology (2008-2011)
- Associate editor of Neobiota (since 2010)
- Associate editor of Diversity and Distributions (2011-2018)
- Associate editor of PLoS ONE (2012-2013)
- Editor of Conservation Physiology (2012-2016)

Organized Conferences and Workshops

- Co-organizer of the annual Plant Population Biology Conference of the Ecological Society of Germany, Switzerland and Austria in Potsdam, Germany (2005)

- Co-organizer of the annual Plant Population Biology Conference of the Ecological Society of Germany, Switzerland and Austria in Bern, Switzerland (2009)
- Co-organizer of the workshop 'Global change and plant microevolution' in Mürren, Switzerland (2009)
- Co-organizer of the workshop 'Biological Invasions: towards general rules across taxa' in Mürren, Switzerland (2010)
- Organizer of the annual Plant Population Biology Conference of the Ecological Society of Germany, Switzerland and Austria in Konstanz, Germany (2014)
- Co-organizer of the COST workshop "Plant invasions, horticulture and forestry: synthesizing the role of deliberate introductions as invasion hubs in an era of global change" in Pruhonice, Czech Republic (2016)
- Co-organizer of the BES symposium "The macroecology of alien species: patterns, drivers and consequences of global biotic exchange" in Durham, United Kingdom (2017)
- Organizer of International Conference on "Current and Emerging Topics in Global Change Ecology of Plants & 7th Evolutionary Ecology Forum" in Taizhou, China (2019)

Awards

- Prize for outstanding PhD thesis of the Faculty of Mathematics and Science of the University of Zurich, Switzerland (2001)
- Travel prize of Centre for Invasion Biology for the best presentation by a post-doctoral associate (2006)
- [Theodor Kocher Prize](#) for best young scientist at University of Bern (2010)
- 1000-Talent Program of Zhejiang Province (2017-2019)

Research Grants

Past:

- One-year postdoctoral fellowship to work with Prof. Dr Kermit Ritland at the University of British Columbia, Canada (funding: Swiss National Science Foundation SNF), 2002 (12-months postdoc salary)
- One-year postdoctoral fellowship to work with Prof. Steven D. Johnson at the University of KwaZulu-Natal, South Africa (funding: Swiss National Science Foundation SNF), 2005 (12-months postdoc salary)

- Two-year research grant “An experimental approach to identifying determinants of plant invasiveness using congeneric pairs of invasive and non-invasive naturalized plant species in their native range” (NCCR Plant Survival project, funding: Swiss National Science Foundation SNF), 2007-2009 (co-PI with Prof. Markus Fischer; 291,464 CHF)
- Three-year research grant “Experimental plant introduction: disentangling the roles of propagule pressure, soil disturbance and life-history traits” (funding: Swiss National Science Foundation SNF), 2008-2010 (260,000 CHF)
- Two-and-a-half-year research grant “Determinants and impacts of plant spread and invasion: a comparative and experimental approach” (NCCR Plant Survival project, funding: Swiss Science Foundation SNF), 2009-2011 (co-PI with Prof. Markus Fischer; 215,215 CHF)
- Three-year research grant “The role of clonal life-history traits in plant invasions” (funding: Sino-Swiss Science and Technology Cooperation SSSTC), 2009-2012 (187,000 CHF)
- Three-year research grant “Growth limitations, phenotypic plasticity and micro-evolution in a long-lived alpine shrub” (Sinergia project, funding: Swiss National Science Foundation SNF), 2010- 2014 (my subproject: 188,004 CHF)
- Three-year research grant “The importance of self-compatibility and auto-fertility for establishment and persistence of plants in novel environments” (funding: German Research Foundation DFG), 2012-2015 (169,850 EUR)
- Two-year research grant “Bias in the historical introduction of horticultural plants and its consequences for current naturalization patterns”(funding: German Research Foundation DFG), 2013-2015 (162,700 EUR)
- One-year research grant “ Klimaangepassung in der Biodiversitätsstrategie einer Kommune, am Beispiel der Stadt Radolfzell am Bodensee ” (LUBW), 2015-2016 (43,470 EUR)
- Three-year research grant “Climate change and escaping ornamentals: Predicting the next generation of European plant invaders (WholsNext)” (leading house of European BiodivERSA project, funding: German Research Foundation DFG), 2013-2017 (my subproject: 223,850 EUR)
- Three-year research grant “The Global Naturalized Alien Flora (GloNAF) database: understanding patterns and drivers of global plant invasions” (German Research Foundation DFG and Austrian Research Fund FWF), 2015-2018 (my subproject: 227,880 EUR)
- Three-year research grant “The role of epigenetic inheritance in rapid evolutionary adaptation of invasive plants” (German Research Foundation DFG), 2015-2018 (my subproject: 210,640 EUR)

- Three-year subproject within the RTG “R³ – Responses to biotic and abiotic changes, Resilience and Reversibility of lake ecosystems” (German Research Foundation DFG), 2017-2020 (my subproject: 3-year PhD position; 65% TVL-13)
- Three-year research grant “Belowground functional traits of plants as drivers of biodiversity and ecosystem functions” (German Research Foundation DFG), 2017-2020.
- Three-year research grant “The Global Naturalized Alien Flora (GloNAF) database: understanding patterns and drivers of global plant invasions” (German Research Foundation DFG and Austrian Research Fund FWF), 2018-2021 (my subproject: 300,450 EUR)
- Three-year subproject within the RTG “R³ – Responses to biotic and abiotic changes, Resilience and Reversibility of lake ecosystems” (German Research Foundation DFG), 2020-2023 (my subproject: 3-year PhD position; 65% TVL-13)

Currently

- Three-year research grant “The global cultivated alien flora, its history and its contribution to plant invasions” (German Research Foundation DFG), 2020-2023 (330,850 EUR)
- Three-year research grant “Advancing the understanding of global plant invasions: building the bridge from data to drivers and biodiversity changes” (German Research Foundation DFG and Austrian Research Fund FWF), 2022-2025 (329,850 EUR)

PhD Thesis

Evolution of the clonal life-history of *Ranunculus reptans* (2001), University of Zurich, Switzerland

Habilitation Thesis

Plant life-history traits: their evolution and role in plant invasions (2008), University of Bern, Switzerland

Publications

Citation statistics (12 September 2023, Google scholar)

Total citations: 25,700

h-index: 74

- (285) Fan S-Y, Yang Q, Li S-P, Fristoe TS, Cadotte MW, Essl F, Kreft H, Pergl J, Pyšek P, Weigelt P, Kartesz J, Nishino M, Wieringa JJ & **van Kleunen M** (2023) A latitudinal gradient in Darwin's naturalization conundrum at the global scale for vascular plants. Nature Communications, accepted.
- (284) Zhang Z, Yang Q, Fristoe TS, Dawson W, Essl F, Kreft H, Lenzner B, Pergl J, Pyšek P, Weigelt P, Winter M, Fuentes N, Kartesz JT, Nishino M & **van Kleunen M** (2023) The poleward naturalization of intra-continental alien plants. Science Advances, accepted.
- (283) Fristoe TS, Bleilevens J, Kinlock NL, Yang Q, Zhang ZJ, Dawson W, Essl F, Kreft H, Pergl J, Pyšek P, Weigelt P, Dufour-Dror JM, Sennikov A, Wasowicz P, Westergaard K & **van Kleunen M** (2023) Evolutionary imbalance, climate and human history jointly shape the global biogeography of alien plants. Nature Ecology & Evolution early view. (DOI: 10.1038/s41559-023-02172-z)
- (282) Zeng JJ, Liu YJ & **van Kleunen M** (2023) Widely naturalized species are not more promiscuous to different nitrogen forms, but benefit more from inorganic nitrogen. Biological Invasions, accepted.
- (281) Zhang X, **van Kleunen M**, Chang CL & Liu YJ (2023) Soil microbes mediate the effects of resource variability on plant invasion. Ecology early view (DOI: 10.1002/ecy.4154)
- (280) Cai L, Kreft H, Taylor A, Schrader J, Dawson W, Essl F, **van Kleunen M**, Pergl J, Pyšek P, Winter M & Weigelt P (2023) Climatic stability and geological history shape global centers of neo- and paleoendemism in seed plants. PNAS 120:e2300981120 (DOI: 10.1073/pnas.2300981120)
- (279) Zhao ZH, Hui C, Peng S, Yi SG, Li ZH, Reddy GVP & **van Kleunen M** (2023) The world's 100 worst invasive alien insect species differ in their characteristics from related non-invasive species. Journal of Applied Ecology 60:1929-1938 (DOI:10.1111/1365-2664.14485)
- (278) Rittelmann-Woods E, Lachaise T & **van Kleunen M** (2023) Negative effects of EPDM microplastic and cork granules on plant growth are mitigated by earthworms and likely caused by their structural properties. Science of The Total Environment 897:165354 (DOI:10.1016/j.scitotenv.2023.165354)
- (277) Pyšek P, Lučanová M, Dawson W, Essl F, Kreft H, Leitch IJ, Lenzner B, Meyerson L, Pergl J, **van Kleunen M**, Weigelt P, Winter M & Guo WY (2023) Small genome size and variation in ploidy levels support the naturalization of vascular plants but constrain their invasive spread. New Phytologist 239:2389-2403 (DOI:10.1111/nph.19135)
- (276) Wilschut RA, Hume BCC, Mamonova E & **van Kleunen M** (2023) Plant-soil feedback effects on conspecific and heterospecific successors of annual and perennial Central European grassland plants are correlated. Nature Plants 9:1057-1066 (DOI: 10.1038/s41477-023-01433-w)
- (275) Li Y, Mamonova E, Köhler N, **van Kleunen M** & Stift M (2023) Breakdown of self-incompatibility due to genetic interaction between a specific S-allele and an unlinked modifier. Nature Communications 14:3420 (DOI: 10.1038/s41467-023-38802-0)
- (274) Pouteau R, **van Kleunen M** & Strasberg D (2023) Closely related aliens lead to greater extinction risk. Biological Conservation 284:110148 (DOI:10.1016/j.biocon.2023.110148)
- (273) Muñoz-Mas R, Essl F, **van Kleunen M**, Seebens H, Dawson W, Casal CMV & García-Berthou E (2023) Two centuries of spatial and temporal dynamics of freshwater fish introductions. Global Ecology and Biogeography 32:1632-1644 (DOI: 10.1111/geb.13714)
- (272) Freitag M, Hölzel N, Neuenkamp L, van der Plas F, Manning P, Abrahão A, Bergmann J, Boeddinghaus R, Bolliger R, Hamer U, Kandeler E, Kleinebecker T, Knorr KH, Marhan S, Neyret M, Prati D, Le Provost G, Bustamante H, **van Kleunen M**, Schäfer D & Klaus V (2023) Increasing plant

- species richness by seeding has marginal effects on ecosystem functioning in agricultural grasslands. Journal of Ecology 111:1968-1984 (DOI: 10.1111/1365-2745.14154)
- (271) Liu DJ, Semenchuk P, Essl F, Lenzner B, Moser D, Blackburn TM, Cassey P, Biancolini D, Capinha C, Dawson W, Dyer EE, Guénard B, Economo EP, Kreft H, Pergl J, Pyšek P, **van Kleunen M**, Nentwig W, Rondinini C, Seebens H, Weigelt P, Winter M, Purvis A & Dullinger S (2023) The impact of land use on non-native species incidence and number in local assemblages worldwide. Nature Communications 14:2090 (DOI: 10.1038/s41467-023-37571-0)
- (270) Dong R, Dong BC, Fu QY, Yang Q, Dai ZC, Luo FL, Gao JQ, Yu FH & **van Kleunen M** (2023) E-commerce: A novel introduction pathway for cultivated alien plants with high invasion potential in China. The Bulletin of the Ecological Society of America 104:e02052 (DOI: 10.1002/bes2.2052)
- (269) Dong R, Dong BC, Fu QY, Yang Q, Dai ZC, Luo FL, Gao JQ, Yu FH & **van Kleunen M** (2023) Cultivated alien plants with high invasion potential are more likely to be traded online in China. Ecological Applications early view (DOI:10.1002/eap.2811)
- (268) Holmes R, Pelser P, Barcelona J, Tjitrosoedirdjo SS, Wahyuni I, **van Kleunen M**, Pyšek P, Essl F, Kreft H, Dawson W, Wijedasa L, Kortz A, Hejda M, Berrio JC, Siregar I & Williams M (2023) The naturalized vascular flora of Malesia. Biological Invasions 25:1339-1357 (DOI: 10.1007/s105330-022-02989-y)
- (267) Cai LR, Kreft H, Taylor A, Denelle P, Schrader J, Essl F, **van Kleunen M**, Pergl J, Pyšek P, Stein A, Winter M, Barcelona JF, Fuentes N, Inderjit I, Karger D, Kartesz J, Kuprijanov A, Nishino M, Nickrent D, Nowak A, Patzelt A, Pelser P, Singh P, Wieringa J & Weigelt P (2023) Global models and predictions of plant diversity based on advanced machine learning techniques. New Phytologist 237:1432-1445 (DOI: 10.1111/nph.18533)
- (266) Kinlock NL, Adams D & **van Kleunen M** (2023) An ecological and evolutionary perspective of the historical United States nursery flora. Plants, People, Planet 5:146-159 (DOI: 10.1002/ppp3.10336)
- (265) Speißen B, Wilschut RA & **van Kleunen M** (2022) Number of simultaneously acting global change factors affects composition, diversity and productivity of grassland plant communities. Nature Communications 13:7811 (DOI:10.1038/s41467-022-35473-1)
- (264) Yuan YG, Lin XR, Chen G, **van Kleunen M** & Li JM (2022) Parasitic plants indirectly regulate decomposition of soil organic matter. Functional Ecology 37:302-314 (DOI:10.1111/1365-2435.14232)
- (263) March-Salas M, Scheepens JF, **van Kleunen M** & Fitze PS (2022) Precipitation predictability affects intra- and trans-generational plasticity and causes differential selection on root traits of *Papaver rhoeas*. Frontiers in Plant Science 13:998169 (DOI: 10.3389/fpls.2022.998169)
- (262) Lenzner B, Latombe G, Schertler A, Seebens H, Yang Q, Winter M, Weigelt P, **van Kleunen M**, Pyšek P, Pergl J, Kreft H, Dawson W, Dullinger S & Essl F (2022) Naturalized alien floras still carry the legacy of European colonialism. Nature Ecology and Evolution 6:1723-1732 (DOI: 10.1038/s41559-022-01865-1)
- (261) Zhang ZJ, Liu YJ, Hardrath A, Jin HF & **van Kleunen M** (2022) Increases in multiple resources promote competitive ability of naturalized non-native plants. Communications Biology 5:1150 (DOI: 10.1038/s42003-022-04113-1)
- (260) Yuan L, Li JM & **van Kleunen M** (2022) Competition induces negative conspecific allelopathic effects on seedling recruitment. Annals of Botany 130:917-926 (DOI: 10.1093/aob/mcac127)
- (259) Cai CN, Xiao JH, Wan JZ, Ren ZC, **van Kleunen M** & Li JM (2022) Implications of climate change for environmental niche overlap between five *Cuscuta* pest species and their two main Leguminosae host crop species. Weed Science 70:543-552 (DOI: 10.1017/wsc.2022.45)
- (258) Omer A & **van Kleunen M** (2022) Invasion stages help resolve Darwin's naturalization conundrum. Nature Plants 8:873-874 (DOI:10.1038/s41477-022-01215-w)

- (257) Omer A, Fristoe T, Yang Q, Razanajatovo M, Weigelt P, Kreft H, Dawson W, Dullinger S, Essl F, Pergl J, Pyšek P & **van Kleunen M** (2022) The role of phylogenetic relatedness on alien plant success depends on the stage of invasion. *Nature Plants* 8:906-914 (DOI:10.1038/s41477-022-01216-9)
- (256) Razanajatovo M, Rakoto JF, Rajaonarivelo AP & **van Kleunen M** (2022) Floral visitation to alien plants is non-linearly related to their phylogenetic and floral similarity to native plants. *Functional Ecology* 36:2508-2519 (DOI:10.1111/1365-2435.14156)
- (255) Guo K, Pyšek P, Chytrý M, Divišek J, Lososová Z, **van Kleunen M**, Pierce S & Guo W-Y (2022) Ruderals naturalize, competitors invade: varying roles of plant adaptive strategies along the invasion continuum. *Functional Ecology* 36:2469-2479 (DOI:10.1111/1365-2435.14145)
- (254) Bach W, Kreft H, Craven D, König C, Schrader J, Taylor A, Dawson W, Essl F, Lenzner B, Marx HE, Meyer C, Pergl J, Pyšek P, **van Kleunen M**, Winter M & Weigelt P (2022) Phylogenetic composition of native island floras influences naturalized alien species richness. *Ecography* 2022:e06227 (DOI: 10.1111/ecog.06227)
- (253) Feng Y-L, Du DL & **van Kleunen M** (2022) Global change and biological invasions. *Journal of Plant Ecology* 15:425-428. (DOI:10.1093/jpe/rtac013)
- (252) Adam MM, Lenzner B, **van Kleunen M*** & Essl F* (2022) Call for integrating future patterns of biodiversity into European conservation policy. *Conservation Letters* 15:e12911 (DOI: 10.1111/conl.12911). *These two authors share last authorship.
- (251) Jin HF, Chang L, **van Kleunen M** & Liu YJ (2022) Soil mesofauna may buffer the negative effects of drought on alien plant invasion. *Journal of Ecology* 110:2332-2342 (DOI:10.1111/1365-2745.13950)
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