González-Olalla *et al*., 2026. Lessons from 30 years of multiple-stressor experiments on microbial plankton in a Spanish high-mountain lake. Limnetica, 45 (2), 2026

SUPPLEMENTARY INFORMATION

Table S1. List of articles published in indexed journals (SJR) about the impact of multiple environmental stressors on the biological community of the Sierra Nevada lakes (Spain), including the reference, title of the article, year of publication, and journal name. *Lista de artículos publicados en revistas indexadas (SJR) acerca del impacto de múltiples estresores ambientales sobre la comunidad biológica en las lagunas de Sierra Nevada (España), incluyendo referencia, título del artículo, año de publicación y nombre de la revista.*

Id	Reference	Article title	Year	Journal
Art.1	Vila-Duplá et al., 2024	Constant and fluctuating high temperatures interact with Saharan dust leading to contrasting effects on aquatic microbes over time	2024	*Science of the Total Environment*
Art.2	Cabrerizo et al., 2020	Multiple interacting environmental drivers reduce the impact of solar UVR on primary productivity in Mediterranean lakes	2020	*Scientific Reports*
Art.3	Durán et al., 2020	Uncoupled phytoplankton-bacterioplankton relationship by multiple drivers interacting at different temporal scales in a high-mountain Mediterranean lake	2020	*Scientific Reports*
Art.4	Cabrerizo et al., 2019	Interplay between resistance and resilience governs the stability of a freshwater microbial food web under multiple stressors	2019	*Science of the Total Environment*
Art.5	Villar-Argaiz et al., 2018	Resource versus consumer regulation of phytoplankton: testing the role of UVR in a Southern and Northern hemisphere lake	2018	*Hydrobiologia*
Art.6	Carrillo et al., 2017	Vulnerability of mixotrophic algae to nutrient pulses and UVR in an oligotrophic Southern and Northern Hemisphere lake	2017	*Scientific Reports*
Art.7	Cabrerizo et al., 2017	Rising nutrient-pulse frequency and high UVR strengthen microbial interactions	2017	*Scientific Reports*
Art.8	Velasco-Ayuso et al., 2017	Ecoenzyme activity ratios reveal interactive effects of nutrient inputs and UVR in a Mediterranean high-mountain lake	2017	*Biogeochemistry*
Art.9	Villar-Argaiz et al., 2016	Microbial carbon production and transfer across trophic levels is affected by solar UVA and phosphorus	2016	*Hydrobiologia*
Art.10	Durán et al., 2016	Changes in the phytoplankton-bacteria coupling triggered by joint action of UVR, nutrients, and warming in M Mediterranean high-mountain lakes	2016	*Limnology and Oceanography*
Art.11	Carrillo et al., 2015	Synergistic effects of UVR and simulated stratification on commensalistic phytoplankton–bacteria relationship in two optically contrasting oligotrophic Mediterranean lakes	2015	*Biogeosciences*
Art.12	Dorado-García et al., 2014	Quantification of carbon and phosphorus co-limitation in bacterioplankton: new insights on an old topic	2014	*Plos One*
Art.13	Bullejos et al., 2014	Shifts in food quality for herbivorous consumer growth: multiple golden means in the life history	2014	*Ecology*
Art.14	Durán et al., 2014	Direct and indirect effects of vertical mixing, nutrients and ultraviolet radiation on the bacterioplankton metabolism in high-mountain lakes from southern Europe	2014	*Pre-print Biogeosciences*

Art.15	Medina-Sánchez et al., 2013	Maximum in the Middle: Nonlinear Response of Microbial Plankton to Ultraviolet Radiation and Phosphorus	2013	*Plos One*
Art.16	Helbling et al., 2013	Interactive effects of vertical mixing, nutrients and ultraviolet radiation: in situ photosynthetic responses of phytoplankton from high mountain lakes in Southern Europe	2013	*Biogeosciences*
Art.17	Korbee et al., 2012	Effects of ultraviolet radiation and nutrients on the structure-function of phytoplankton in a high mountain lake	2012	*Photochem. and Photobiol. Sciences*
Art.18	Villar-Argaiz et al., 2012	Disentangling food quantity and quality effects in zooplankton response to P-enrichment and UV radiation	2012	*Limnology and Oceanography*
Art.19	Bullejos et al., 2010	Roles of phosphorus and ultraviolet radiation in the strength of phytoplankton-zooplankton coupling in a Mediterranean high mountain lake	2010	*Limnology and Oceanography*
Art.20	Souza et al., 2010	Stoichiometric dietary constraints influence the response of copepods to ultraviolet radiation-induced oxidative stress	2010	*Limnology and Oceanography*
Art.21	Villar-Argaiz et al., 2009	UV radiation and phosphorus interact to influence the biochemical composition of phytoplankton	2009	*Freshwater Biology*
Art.22	Delgado-Molina et al., 2009	Interactive effects of phosphorus loads and ambient ultraviolet radiation on the algal community in a high-mountain lake	2009	*Journal of Plankton Research*
Art.23	Figueroa et al., 2009	The effects of UV radiation on photosynthesis estimated as chlorophyll fluorescence in Zygnemopsis decussata (Chlorophyta) growing in a high mountain lake (Sierra Nevada, Southern Spain)	2009	*Journal of Limnology*
Art.24	Carrillo et al., 2008a	Does microorganism stoichiometry predict microbial food web interactions after a phosphorus pulse?	2008	*Microbial Ecology*
Art.25	Carrillo et al., 2008b	Phosphorus inputs unmask negative effects of ultraviolet radiation on algae in a high mountain lake	2008	*Global Change Biology*
Art.26	Bullejos et al., 2008	Impact of UV radiation and nutrients on the elemental composition of zooplankton in a Mediterranean high mountain lake	2008	*Internationale Vereinigung für theoretische und angewandte Limnologie: Verhandlungen*
Art.27	Villar-Argaiz et al., 2008	Is biochemical resource quality for herbivorous consumers enhanced by the manipulation of light and nutrient regimes?	2008	*Internationale Vereinigung für theoretische und angewandte Limnologie: Verhandlungen*

Art.28	Medina-Sánchez et al., 2006	Solar radiation-nutrient interaction enhances the resource and predation algal control on bacterioplankton: A short-term experimental study	2006	*Limnology and Oceanography*
Art.29	Medina-Sánchez et al., 2004	Neither with nor without you: a complex algal control on bacterioplankton in a high mountain lake	2004	*Limnology and Oceanography*
Art.30	Medina-Sánchez et al., 2002	Modulation of the bacterial response to spectral solar radiation by algae and limiting nutrients	2002	*Freshwater Biology*
Art.31	Carrillo et al., 2002	The interaction of phytoplankton and bacteria in a high mountain lake: importance of the spectral composition of solar radiation	2002	*Limnology and Oceanography*
Art.32	Reche et al., 1997	Influence of metazooplankton on interactions of bacteria and phytoplankton in an oligotrophic lake	1997	*Journal of Plankton Research*
Art.33	Carrillo et al., 1996	Quantification of the phosphorus released by zooplankton in an oligotrophic lake (La Caldera, Spain): regulating factors and adjustment to theoretical models	1996	*Journal of Plankton Research*
Art.34	Carrillo et al., 1995	Direct and indirect effects of grazing on the phytoplankton seasonal succession in an oligotrophic lake	1995	*Journal of Plankton Research*
Art.35	Carrillo et al., 1990	Analysis of phytoplankton-zooplankton relationships in an oligotrophic lake under natural and manipulated conditions	1990	*Hydrobiologia*