

CURRICULUM VITAE: SANDRA BRUCET BALMAÑA

ACADEMIC EDUCATION:

1999-2003 **PhD in Biology**, University of Girona (*Cum laude*)

1994-1998 **BSc Biology**, University of Girona

INDICATORS OF SCIENTIFIC RESEARCH

H index: 44

H Index i10: 88

Total citations: 7868

Average citations per year in the last 5 years: 744

(Indices are calculated using Googlescholar)

Number of publications: 110

PROFESSIONAL EXPERIENCE:

September 2015 – present. ICREA Research Professor. Catalan Institution for Research and Advanced Studies (ICREA) & University of Vic. Spain.

Since 2024. Director of Bionexus Foundation

2013 – 2015. Marie Curie Intra-European Fellowship, Department of Bioscience, Section of Ecoinformatics and Biodiversity, Aarhus University. Denmark

2013 (January to March). Visiting Scientist. Middle East Technical University, Ankara, Turkey.

2012 – 2013. Assistant Professor. BETA Technology Centre. University of Vic. Spain.

2009 – 2012. Postdoctoral Researcher. Institute of Environmental and Sustainability, Joint Research Centre, European Commission. Italy.

2006 – 2008. Postdoctoral Researcher. National Environmental Research Institute. Denmark.

2006. Postdoctoral researcher. University of Oslo, Norway.

2003 – 2005. Assistant Professor. Department of Environmental Sciences, University of Girona. Spain.

1999 – 2002. PhD Fellowship (FI) from Generalitat de Catalunya, University of Girona. Spain.

1998 – 1999. Research technician. UdG. Spain.

RESEARCH PROJECTS FUNDED BY COMPETITIVE CALLS

2023-2027. TRANSPONDER Transnational biodiversity and ecosystem assessment approaches for ponds in Europe. Funded by: Biodiversa+ & Spanish Ministry of Science and Innovation. Total Fund: 1.726.748€. Coordinator: T. A. Davidson. PI, UVic: Sandra Brucet

2026-2031. TERRA-MED MSCA COFUND doctoral program. An Interregional PhD Programme for Advancing Sustainability and Climate Resilience in Occitania, Balearic Islands, and Catalonia. Coordinator: Pierre Camps. Total Fund: 8.106.480€

2020 – 2024. PONDERFUL: Pond ecosystems for resilient future landscapes in a changing climate. Funded by European Union H2020, Call: H2020-LC-CLA-2019-2. Total Fund: 6.993.407€. Project Coordinator: Sandra Brucet (consortium of 18 partners)

2024-2025. Assistència tècnica per la revisió de les reserves naturals hidrològiques del districte de conca fluvial de Catalunya (CTN2300824) Funded by Generalitat de Catalunya PI: Carles Ibañez (130.774,09€)

2025 – 2028. FI Joan Oró competitive Predoctoral Fellowships 2020. Personnel Grant to Irum Shahzadi. Funded by AGAUR. PI: Sandra Brucet

2022 – 2025. FI Joan Oró competitive Predoctoral Fellowships 2020. Personnel Grant to Victoria Frutos. Funded by AGAUR. PI: Sandra Brucet

2022 – 2025. Competitive Predoctoral Fellowships. Personnel Grant to Lena Fehlinger. Funded by GFF NOE - Gesellschaft für Forschungsförderung Niederösterreich (Austria)

2021 – 2025. Competitive Predoctoral Fellowships 2020. Personnel Grant to Katterine Rincon. Funded by UVic-UCC. PI: Sandra Brucet

2023 – 2024. Beatriu de Pinós Postdoctoral grant. Personnel Grant to Charlotte Evangelista. Funded by AGAUR

2022 – 2024. Investigo Grant to hire a postdoc. Funded by AGAUR

2022 – 2024. Investigo Grant to hire technicians. Funded by AGAUR

2022 – 2024. Investigo Grant to hire technicians. Funded by AGAUR

2019 – 2022. SizeEcoFun: Size-based approaches to understand impacts on river ecosystem functioning. Funded by Spanish Ministry of Science and Technology (contract no. RTI2018-095363-B-I00). 54821.47 €. PI: Lluís Benejam / Sandra Brucet.

2018 – 2021. Size spectra of coastland wetland invertebrate communities in Chile: the role of disturbance. Funding entity: Conicyt-Fondecyt Iniciación. €97,131. PI: Cristina Coccia

2019. SOS-Temporales: Mediterranean temporary ponds, biodiversity refuges that need protection. Funded by Fundación Biodiversidad del Ministerio de Agricultura, Alimentación y Medio Ambiente. 37,528€. PI: Sandra Brucet

2019 – 2020. Useminars 2020. Funded by Fundación Española para la Ciencia y la Tecnología and UVIC. 20,000€. PI: Anna Badosa

2017 – 2020. Grants to support the activities of the research groups (SGR 2017). Funded by Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). 18,920€. PI: Sandra Brucet.

2018. Project FCT U-Divulga Programme: Annual Programme of activities from the Scientific Culture and Innovation Unit (UCC+i) of the UVic-UCC. Funded by Fundación Española para la Ciencia y la Tecnología and UVIC. 15,000€. PI: Lluís Benejam

2016 – 2021. FISHSIZE: Analysing size-density relationships of aquatic communities in response to strength of predator-prey interactions and resource subsidy (DFG Me 1686/7-1), German Research Foundation. (233,550 €). PI: Thomas Mehner / Sandra Brucet

2016 – 2019. Climate change effects on structure and processes in aquatic communities. The Swedish Research Council Formas. 326,845. PI: Peter Eklov.

2016 – 2017. SOS-Fartet: improvement of conservation status of fartet, an endangered fish species. Funded by Fundación Biodiversidad del Ministerio de Agricultura, Alimentación y Medio Ambiente. Budget: 43,292€. PI: Sandra Brucet

- 2014 – 2020. Management and restoration of temporary ponds and wetlands in Can Torres (Albera, Alt Empordà, Spain). Funded by Andrena Foundation, Call Pondscales. 46,500. PI: Sandra Brucet
- 2014 – 2016. Rivers of salt: Advancing towards a better management of salt-rich Effluents. Funded by Tecniospring programme and COFUND Marie Curie Actions. 125,750€. PI: Sandra Brucet.
2016. Project FCT-15-9503: U-Divulga Programme: Annual Programme of activities from the Scientific Culture and Innovation Unit (UCC+i) of the UVic-UCC. Funded by Fundación Española para la Ciencia y la Tecnología. 15,000€. PI: Mireia Olivella
- 2014 – 2018. EU funded project MARS: Managing Aquatic ecosystems and water resources under multiple stress. Funded by European Union FP7. (contract no. 603378). 8,998,000€. PI: Daniel Hering.
- 2014 – 2015. Myvatn: Will climate-related changes in fish stocks lead to significant ecosystem shifts in the natural eutrophic Lake Myvatn (Iceland)? Funded by Carlsberg Foundation. 43,353€. PI: Erik Jeppesen / Sandra Brucet
- 2013 – 2015. CLIMBING Climate and nutrient impacts on lake biodiversity and ecosystem functioning. Funded by EU FP7 Marie Curie Actions (contract no. 330249). 308,587€. PI: Sandra Brucet
- 2010 – 2012. EU funded project “REFRESH: Adaptive strategies to mitigate the impacts of climate change on European freshwater ecosystems”. (contract no. 244121). Funded by European Union FP7. 9,895,943€. PI: Rick Battarbee. Partner co-PI: Sandra Brucet
- 2010 – 2011. “Relationship between the planktonic trophic structure in PN Doñana wetlands and the hydrology: implications under a climate change scenario”. Funded by Spanish Ministry of Science and Technology (Program ICTS). PI: Xavier Quintana.
- 2009 – 2012. EU funded project “WISER: Water bodies in Europe: Integrative Systems to assess Ecological status and Recovery”. Funded by European Union FP7 (contract no. 226273). 6,984,000€. PI: Daniel Hering. Partner co-PI: Sandra Brucet
2008. EU funded project “EUROLIMPACS: Effects of climate change on fresh water ecosystems”. Funded by European Union FP6. 12,500,000€. PI: Simon Patrick.
2006. “Assessing marine food chains using molecular probes”. Funded by Research Council of Norway. PI: Sandra Brucet
- 2005 – 2008. “Ecology of coastal lagoons and wetlands”. Funds to support Emergent Research Groups. Funded by: Generalitat de Catalunya (Spain). PI: Xavier Quintana.
- 2005 – 2007. “Productivity and trophic food webs in Mediterranean coastal marshes”. Funded by the Spanish Ministry of Science and Technology.
- 2005 – 2006. EU LIFE – Nature 2004. “Amphibian and aquatic reptiles' habitat recovering in Baix Ter wetlands”. Funded by European Union, the Council of Torroella de Montgrí and Pals (Spain). PI: Xavier Quintana. Co-PI: Sandra Brucet.
2004. “Mixotrophic phytoplankton and toxin production in Mediterranean coastal marshes. Implications to the aquatic community”. Funded by the Spanish Ministry of Science and Technology. PI: Xavier Quintana.
- 2003 – 2006. EU LIFE nature 2003 “Lago Banyoles: Recuperation of the aquatic environment of Porqueres and the lake of Banyoles”. Funded by the EU and the Council of Banyoles.
- 2000 – 2003. “Biomass size spectrum dynamics of plankton in Mediterranean coastal lagoons and its use in coastal wetlands management”. Funded by the Spanish Ministry of Science and Technology. PI: Ramon Monre-Amich.

1999 – 2003. EU LIFE nature 1999. “EmysTer: Arrangement and management of the lagoons and coastal systems of Baix Ter”. Funded by the EU and the Council of Torroella de Montgrí. PI: Xavier Quintana.

CONTRACTS (since 2015):

2022-2025. Projecte BTI Aiguamolls. Avaluació dels efectes en la biodiversitat del tractament continuat de *Bacillus thuringiensis israelensis* pel control de larves de mosquits als Aiguamolls de l'Empordà. 31.799€. PI: Lluís Benejam

2020. Restoring temporary ponds in L'Albera, Alt Empordà. Funded by Andrena. Budget: 6000€. PI: Lluís Benejam/Sandra Brucet

2019. Contract: Diagnosi de la biodiversitat de la bassa temporània de Cap Gros, Parc Natural de Cap de Creus. Funded by Parc Natural del Cap de Creus. Budget: 418€. PI: Lluís Benejam/Sandra Brucet.

2017 – 2018. Inventory of the fauna and flora of temporary ponds in Cap de Creus Natural Park. Natural Park of Cap de Creus. PI: Lluís Benejam/Sandra Brucet. (5,747 €).

2016/2017. Technology Transfer Contract IGB-Berlin (Leibniz-Institute of Freshwater Ecology and Inland Fisheries in Forschungsverbund Berlin e.V.). Germany (10,000€). PI: Sandra Brucet

From 2016. Grant Arrangement for climate impacts research capacity and leadership enhancement in Sub-Saharan Africa (CIRCLE) UK Department for International Development. PI: Sandra Brucet. (4,995 €).

2015. Building of artificial streams and experiments to test the effects of salt mining on river salinization. K+S Company. (20.000€). PI: Miguel Cañedo-Argüelles.

2004 – 2005. “Assessing the ecological quality of water in Empordà Wetlands Natural Park using aquatic invertebrates”. Funded by Empordà Wetlands Natural Park. PI: Sandra Brucet.

PEER-REVIEWED ISI PUBLICATIONS (ICREA publications from number 49)

110. Hewitt B, **Brucet** S, Mehner T, Jackson DA, Shuter BJ, in press. Similar physical, geographic, and historical factors shape fish species richness in lakes across Ontario and northern and western Europe. Diversity and Distributions. In press.

109. Benejam, I, Perrin J.A, Blicharska M, **Brucet** S, Başoğlu D, Beklioglu M, Boissezon A, Boix D, Colina M, Davidson TA, Lemmens P, López-de Sancha A, Martin B, Meerhoff M, Mehner T, Nicolet P, Oertli B, Passadore-Romero C, Patil SD, Lindoso DP, Quintana XD, Rashidi P, Ribas A, J. Robin. 2025 The Role of Pondscapes in Supporting Identities. Hydrobiologia. In press.

108. Frutos-Aragón, S **Brucet**, R Marcé, TA. Davidson, T Bucak, C Trochine. 2025. Drivers of CO2 emissions during the dry phase of Mediterranean and Temperate ponds. Biogeosciences. In press

107. Fehlinger L, Boix D, S **Brucet**. Permanent mountain ponds support higher richness and abundances of macroinvertebrates than temporary ones. 2025. Hydrobiologia

106. Rincon-Palau, K., A Badosa, M Bartrons, M Beklioglu, M Cuenca-Cambronero, TA Davidson, G Lacerot, P Lemmens, L Martín, M Meerhoff, T Mehner, R Wijns, S **Brucet**. 2025. Larger crustacean zooplankton thrive at lower temperatures and under reduced predation in pond ecosystems. Hydrobiologia

105. Fehlinger L, Boix D, Cuenca-Cambronera M, Lopez-de Sancha A, S **Brucet**. Mountain ponds under pressure: ecology and management in times of global change. 2025. Inland Waters

104. Sgarzi S., Badosa A, Compte J, Leiva-Presa A, Ersoy Z, López E, S **Brucet**. 2025. Longer hydroperiods intensify predation effects on planktonic size spectra in Mediterranean temporary ponds. Hydrobiologia.

103. Rincón-Palau K, Badosa A, Cuenca-Cambronero M, Trochine C, Sgarzi S, Quintana XD, Boix D, S **Brucet**. 2025. The size structure of the zooplankton community reflects better the trophic status of Mediterranean ponds than the taxonomic structure. *Freshwater Biology*, 70 (9): e70101.
102. Benejam et al 2025. L'Albera com a unitat funcional: aspectes naturals més destacats i reptes per a la seva conservació
101. Sala P., M Vracholi, F Frick, P Lemmens, T.A. Davidson, S **Brucet**, J Sauer. 2025. Evaluating ponds as Nature-based Solutions: effectiveness and eco-efficiency. *Jornal of Environmental Management* 393, 126933
100. Rashidi P, Patil S, ... **Brucet** S, et al. 2025. Stakeholder Perspectives on Ponds: A Multinational Analysis Using Storylines and the Nature Futures Framework. *Ecosystems and People*, 21(1).
99. Bartrons, M., Yang, J., Cuenca-Cambronero, M. *et al.* S Brucet. 2025. Why ponds concentrate nutrients: the roles of internal features, land use, and climate. *Hydrobiologia*.
98. Mehner T, C. Christine Argillier, T. Ferreira, K. Holmgren, E. Jeppesen, F. Kelly, T. Krause, M. Olin, P. Volta, I.J. Winfield, S. **Brucet**. 2025. Rare fish species in European lakes – patterns and processes. *Biodiversity and Conservation*, 34, 1833–1855
97. López-de Sancha, A., Boix, D., Benejam, L., Briggs, L., Davidson, T.A., Fahy, J.C., Frutos-Aragón, V., Greaves, H.M., Lemmens, P., Mehner, T., Martín, L., Oertli, B., Sayer, C., S. **Brucet**. 2025. Amphibian conservation in Europe: the importance of pond condition. *Biodiversity and Conservation*, 34, 1559–1574
96. López-de Sancha, A., Benejam, L., Boix, D., Briggs, L., Cuenca-Cambronero, M., Davidson, T.A., De Meester, L., Fahy, J.C., Lemmens, P., Martín, B., Mehner, T., Oertli, B., Rasmussen, M., Greaves, H.M., Sayer, C.D., Beklioğlu, M., Brys, R. S. **Brucet**, 2025. Drivers of amphibian species richness in European ponds. *Ecography*. Volume 2025, Issue 5, e07347
95. Ryfisch, S., Başoğlu Acet, D., Benejam, L., Biggs, J., Boissezon, A., Boix, D., **Brucet**, S., Decrey, M., Dolcerocca, A., Hansen, K., Lago, M., Lemmens, P., Lindoso, D., Llausàs, A., McDonald, H., Meerhoff, M., Mehner, T., Pereira, G., Perrin, J.-A., Quintana, X.-D., Rasmussen, M., Ribas, A., Sander Johansson, L., Wijns, R., Blicharska, M. 2024. Policies and practices impacting the implementation of Nature-Based Solutions: A comparative study of ponds and ponds in eight countries. *Journal of Environmental Planning and Management*, 1-31.
94. Bartrons, M., C. Trochine, M. Blicharska, B. Oertli, M. Lago, and S. **Brucet**. 2024. Unlocking the potential of ponds and ponds as nature-based solutions for climate resilience and beyond: Hundred evidences. *Journal of Environmental Management* 359:120992.
93. Miranda, R., Bartrons M, **Brucet**, S., L Benejam. 2023 Long-term monitoring on a new channelized stream section: changes in mesohabitat, composition and size structure of fish assemblages. *Restoration Ecology* 31, No. 8, e13995
92. Vo HT, Vracholi M, Frick F, Sauer J, **Brucet** S, Benejam Vidal L, Mehner T, Lemmens P, Oertli B, Boissezon A, Beklioğlu M, Dolcerocca A, Meerhoff M 2023, Socio-economic or environmental benefits from ponds? Deriving stakeholder preferences using analytic hierarchy process and compositional data analysis. *Journal of Environmental Management*, 342, 118298.
91. Boll T, Erdoğan Ş, Aslan Ü, Filiz N, Özen A, Levi EE, **Brucet** S, Jeppesen E, Beklioğlu M. 2023. Fish size structure as an indicator of fish diversity: a study of 40 lakes in Türkiye. *Water*. 15(12), 2147
90. Cunillera-Montcusí D, Bou J, Mehner T, **Brucet** S, Arim M, Al Borthagaray. 2023. The European freshwater landscape and hotspot areas of mass effects and regional connectivity. *Diversity & Distributions*. 29, 997–1008
89. Cuenca-Cambronero, M., Blicharska M, Perrin JA, Davidson TA, Oertli B., Lago M., Beklioglu, M. Meerhoff M, Arim, M., Teixeira J., De Meester L., Biggs, J., Robin, J., Martín, B., Greaves, H.M., Sayer C.D., Lemmens P., Boix, D., Mehner, T., Bartrons, M., S. **Brucet**. 2023. Challenges and opportunities in the use of ponds and ponds as Nature-based Solutions. *Hydrobiologia*, 850, 3257–327188.

88. van Dorst, RM.; Argillier C; **Brucet** S; Holmgren K; Volta P; Winfield IJ.; Mehner T. 2022, 'Can size distributions of European lake fish communities be predicted by trophic positions of their fish species?', *Ecology And Evolution*, 12, 7, e9087
87. Arranz I; **Brucet** S; Bartrons M; García-Comas C; Alcaraz C; Bardina Martin M; Navarro P; Casals F; Caiola N; Duran Lalaguna MC; Garcia-Berthou E; Maceda-Veiga A; Munne Torras A; Rodríguez Pérez MJ; Sola C; de Sostoa A; L Benejam. 2022. Individual body mass and length dataset for over 12,000 fish from Iberian streams. *Data In Brief*, 42, 108248.
86. Nagar N, Bartrons M. **Brucet**, Davidson T.A., Jeppesen E., Grimalt J.O. 2022. Seabird-mediated transport of organohalogen compounds to remote sites (North West Greenland polynya). *Science of The Total Environment*, 827, 154219
85. Arranz I, Davidson T.A., Benejam L, **Brucet** S, Sánchez-Hernández J, Landkildehus F, Lauridsen TL, Mazzeo N, Vidal N, Özkan K, Gallego I, Wischniewski J, Menezes RF, Tserenpil S, Jeppesen E. 2022 Interactive Effects of Lake Morphometry and Sticklebacks on the Trophic Position of Arctic charr (*Salvelinus alpinus*) across Lakes in Western Greenland. *LIMNOFISH-Journal of Limnology and Freshwater Fisheries Research* 8(2): 101-115
84. Cunillera-Montcusí D, Beklioğlu M, Cañedo-Argüelles M, Jeppesen E, Ptacnik R, Amorim CA, Arnott S, Berger SA, **Brucet** S, Dugan HA, Gerhard M, Horváth Z, Langenheder S, Nejstgaard JC, Reinikainen M, Striebel M, Urrutia-Cordero P, Vad CF, Zadereev E, M Matias. 2022. Freshwater salinisation: a research agenda for a saltier world. *Trends in Ecology and Evolution*, 37, 440-453
83. Parra, G, Guerrero F, Armengol J, Brendonck L, **Brucet** S, Finlayson CM, Gomes-Barbosa L, Grillas P, Jeppesen E., Ortega F, Vega R & T Zohary. 2021. The future of temporary wetlands in drylands under the global change. *Inland Waters* 11:4, 445-456
82. Vidal N, Yu J, Gutierrez MF, de Mello FT, Tavsanoğlu UN, Çakiroğlu AI, He H, Meerhoff M, **Brucet** S, Liu Z & Jeppesen E. 2021. Salinity shapes food webs of lakes in semiarid climate zones: a stable isotope approach. *Inland Waters*, 11:4, 476-491
81. Arranz I., **Brucet** S., Bartrons M., García-Comas C., L. Benejam, 2021. Fish size spectra are affected by nutrient concentration and relative abundance of non-native species across streams of the NE Iberian Peninsula, *Science of The Total Environment*. 795, 148792.
80. Mehner T, Argillier C, Hesthagen T, Holmgren K, Jeppesen E, Kelly, F, Krause T, Olin, M, Volta P, Winfield I, S **Brucet**. 2021. Model-based decomposition of environmental, spatial and species-interaction effects on the structure of 772 European lake fish communities. *Global Ecology and Biogeography* 30, 1558-1571
79. Braun, LM, **Brucet** S, Mehner T. 2021. Top-down and bottom-up effects on zooplankton size distribution in a deep stratified lake. *Aquatic Ecology*. 55, 527–543.
78. Mehner T. & **Brucet** S. 2021. Structure of Fish Communities in Lakes and Its Abiotic and Biotic Determinants. In: Reference Module in Earth Systems and Environmental Sciences, Elsevier. DOI: [10.1016/B978-0-12-819166-8.00004-9](https://doi.org/10.1016/B978-0-12-819166-8.00004-9)
77. Sgarzi S, **Brucet** S, Bartrons M, Arranz I, Benejam L, Badosa A 2020. Factors Influencing Abundances and Population Size Structure of the Threatened and Endemic Cyprinodont *Aphanius iberus* in Mediterranean Brackish Ponds. *Water*, 12, 3264. *Editor's Choice Article*
76. Beklioğlu M, Bucak T, Levi EE, Erdoğan S, Özen A, Filiz N, Bezirci G, Çakiroğlu AI, Tavşanoğlu ÜN, Gökçe D, Demir N, Özuluğ M, Duran M, Özkan K, **Brucet** S, E Jeppesen. 2020. Influences of climate and nutrient enrichment on the multiple trophic levels of Turkish shallow lakes. *Inland Waters*, 10: 173-185 .
75. Bartrons M, Mehner T, Argillier C, Beklioglu M, Blabolil P, Hesthagen T, Holmgren K, Jeppesen E, Krause T, Podgornik S, Volta P, Winfield I, S **Brucet**. 2020. Energy-based top-down and bottom-up relationships between fish community energy demand or production and phytoplankton across lakes at a continental scale. *Limnology & Oceanography*, 65, 4, 892 - 902.

74. Ersoy, Z., **Brucet**, S., Bartrons, M., Mehner, T. 2019. Short-term fish predation destroys resilience of zooplankton communities and prevents recovery of phytoplankton control by zooplankton grazing. *PLoS ONE*, 14, e0212351. *top 10% most cited in 2019*.
73. Sgarzi, S., Badosa, A., Leiva-Presa, A., Benejam, L., Lopez-Flores, R., **Brucet**, S. 2019. Plankton size and taxonomic diversity of Mediterranean brackish ponds in spring: influence of abiotic and biotic factors. *Water*, 11, 1.
72. Arranz, I., C. H. Hsieh, T. Mehner, S. **Brucet**. 2019. Systematic deviations from linear size-abundance relationships of lake fish communities are correlated with predator-prey interactions and lake-use intensity. *Oikos*, 128: 33–44
71. Gozlan R.E., Karimov B.K., Zadereev E., Kuznetsova D., **Brucet** S. 2019. Status, trends and future dynamics of freshwater ecosystems in Europe and Central Asia. *Inland Waters*, 9: 78-94.
70. Atindana SA, Ofori-Danson PK and **Brucet**, S. 2019. Modelling the effects of climate change on shellfish production in marine artisanal fisheries of Ghana. *AAS Open Research* 2:16
69. Vila-Martínez N., N. Caiola, C. Ibáñez, L. Benejam; S. **Brucet**. 2019. Normalized abundance size spectra of fish community reflect hydropeaking on a Mediterranean large river. *Ecological Indicators*, 97, 280-289
68. Mehner, T; Lischke, B; Scharnweber, K; Attermeyer, K; Brothers, S; Gaedke, U; Hilt, S; **Brucet**, S. 2018. Empirical correspondence between trophic transfer efficiency in freshwater food webs and the slope of their size spectra. *Ecology*, 99, 1463-1472.
67. Bartrons, M., Arranz, I., Sgarzi, S., Cañedo-Arguelles M, Quintana, X.D., Landkildehus F., Lauridsen, T.L., **Brucet**, S. Jeppesen, E. 2018. Fish shift the feeding behaviour and trophic niche diversification of their prey in subarctic Lake Mývatn, Iceland. *Hydrobiologia*, 816, 243–254
66. Benejam, L, Tobes I, **Brucet** S, R. Miranda. 2018. Size spectra and other size-related variables of river fish communities: systematic changes along the altitudinal gradient on pristine Andean streams. *Ecological Indicators*, 90, 366-378
65. **Brucet** S., Arranz I., Mehner M., Argillier C., Beklioğlu M., Benejam L., Boll T., Holmgren C., Lauridsen T.L., Svenning J.C., Winfield IJ, E. Jeppesen, E. 2018. Size diversity and species diversity relationships in fish assemblages of Western Palearctic lakes. *Ecography*, 41, 1064-1076
64. Trochine C, **Brucet** S. Argillier C., Arranz I., Beklioglu M. , Benejam L., Ferreira T., Hesthagen T., Holmgren.K., Jeppesen E. , Kelly F., Krause T., Rask M. Volta, Winfield I.J., T. Mehner. 2018. Non-native fish occurrence and biomass in 1943 Western Palearctic lakes and reservoirs and their abiotic and biotic correlates. *Ecosystems*, 21, 395–409.
63. Mehner T., **Brucet** S., Argillier C., Beklioglu M., Ferreira T., Hesthagen T., Holmgren K., Jeppesen E., Kelly F., Krause T., Rask M., Volta P., Winfield I.J. & Podgornik S., 2017. Metadata of European Lake Fishes Dataset. *Freshwater Metadata Journal* 23: 1-8.
62. **Brucet** S., Tavşanoğlu Ü.N., Özen A., Levi E.E., Bezirci G., Çakıroğlu A.İ., Jeppesen E., Svenning J.-C., Ersoy Z, Beklioğlu M. 2017. Size-based interactions across trophic levels in food webs of shallow Mediterranean lakes. *Freshwater Biology*, 62:1819–1830
61. Ersoy, Z., Jeppesen, E., Sgarzi, S., Arranz, I., Cañedo-Arguelles, Quintana, X.D., Landkildehus F., Lauridsen, T.L., Bartrons, M., **Brucet**, S. 2017. Size-based interactions and trophic transfer efficiency are modified by fish predation and cyanobacteria blooms in Lake Mývatn, Iceland. *Freshwater Biology*, 62:1942–1952.
60. Olsen S, Cao Y, Gutierrez MF, **Brucet** S, Landkildehus F, Lauridsen TL, Davidson TA, Søndergaard M, Jeppesen E, NR Petersen. 2017. Effect of a nitrogen pulse on ecosystem N processing at different temperatures: a mesocosm experiment with 15NO₃- addition. *Freshwater Biology*, 62, 7, 1232 - 1243.
59. Cao Y, S Olsen, Gutierrez MF, **Brucet** S, Davidson TA, Li W., Lauridsen TL, Søndergaard M, E. Jeppesen. 2017. Temperature effects on periphyton, epiphyton and epipelton under a nitrogen pulse in low-nutrient experimental freshwater lakes. *Hydrobiologia* 795, 1, 267 - 279
58. Tavşanoğlu UN, M Šorf, K. Stefanidis, S **Brucet**, S Türkan, H Agasild, DL Baho, U Scharfenberger, J Hejzlar, E Papastergiadou, R Adrian, DG Angeler, P Zingel, Aİ Çakıroğlu, A Özen, S Drakare, M

- Søndergaard, E Jeppesen, M Beklioğlu. 2017. Effects of nutrient and water level changes on the composition and size structure of zooplankton communities in shallow lakes under different climatic conditions: a Pan-European mesocosm experiment. *Aquatic Ecology*, 51, 2, 257 - 273.
57. Cañedo-Argüelles M., **Brucet** S; Carrasco S; Flor-Arnau N; Ordeix M; Ponsà S, E Coring. 2017. Effects of potash mining on river ecosystems: an experimental study. *Environmental pollution*. 224, 759-770.
56. Cañedo-Argüelles M., Sgarzi S., Arranz I., Quintana X.D., Ersoy Z., Landkildehus F., Lauridsen TL, Jeppesen E., S **Brucet**. 2017. Role of predation in biological communities in naturally eutrophic sub-Arctic Lake Mývatn, Iceland. *Hydrobiologia*, 790, 213-223
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5. **Brucet**, S., Boix, D., Badosa, A., López-Flores, R., Quintana, X.. 2005. Ontogenic changes of amino acid composition in crustacean species. *Marine Biology* 148: 131-139.
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2. **Brucet** S., Quintana X., Boix D., López-Flores R., Badosa A., Moreno-Amich R. 2005. Zooplankton structure and dynamics in permanent and temporary Mediterranean salt marshes: taxon-based and size-based approaches, *Archiv für Hydrobiologie* 162: 535-555.
1. **Brucet**, S., Quintana, X., Moreno-Amich, R., Boix, D. 2005. Changes in the shape of aquatic invertebrates' biomass-size spectra at ecological scaling in a fluctuant ecosystem (Empordà wetlands, NE Spain). *Vie Milieu* 55: 31-40.

Submitted manuscripts:

- Cuenca-Cambroneró et al. ... S Brucet. Biodiversity enhances pond ecosystem multifunctionality across Europe. In review *Nature Ecology & Evolution*.
- Rincon et al. ... S Brucet, Zooplankton size structure reflects the trophic status of ponds along a latitudinal gradient In review in *L&O*
- Perrin JA; J Robin; L Girard; V Tolon; A Dolcerocca; M Blicharska; P Lemmens; M Meerhoff; T Mehner; D Boix; S Brucet; F Teixeira de Mello; P Rashidi; S Patil; M Beklioglu; L Benejam. Social perceptions

of the present and future of pond landscapes from inhabitants and stakeholders: results and perspectives in Europe, Türkiye and Uruguay. *Hydrobiologia*
Frutos-Aragón, V, C Trochine R Marcé, M Cuenca-Cambronero, E Boix, L Martín, K Rincón-Palau, T A. Davidson, T Bucak, S Brucet. Drivers of CO₂ and CH₄ Fluxes Across Dry and Wet Phases in Mediterranean Ponds. *Biogeosciences*.

Manuscripts in preparation

Brucet et al. first draft. Key drivers of biodiversity in temporary ponds along a European latitudinal gradient.
von Plüskow L-M. et al., Nutrient and temperature interactions determine aquatic plant community characteristics in ponds sampled along a latitudinal gradient". *Global Change Biology*.
Frutos V. et al., first draft. Assessing the relationship between macrophyte traits, abundance, and greenhouse gas dynamics in temporary pond ecosystems.
Lemmens et al., first draft. European pond biodiversity in relation to climate, land use and local environmental habitat conditions.
Mehner et al. Final draft. Spatial extent modifies contributions of assembly processes for four interacting organism groups in 170 European pond communities
Cuenca-Cambronero M. et al. ... S Brucet,, first draft. Effect of local factors, climatic change and biodiversity on ponds metabolism dynamics.
Davidson T. et al., first draft. Greenhouse gas dynamics in ponds.
Cuassolo F. et al., first draft. Potential drivers of macrophytes stoichiometry in ponds across a nutrient gradient and climate regions.
Wijns et al., first draft. Importance of regional context on cladoceran diversity and metacommunity structure. draft
Wijns et al., first draft. Distribution patterns of cladoceran zooplankton at a European spatial scale.

SELECTED REPORTS, BOOKS, CHAPTERS and NON PEER-REVIEWED ARTICLES:

Contribution to >40 PONDERFUL deliverables (see [PONDERFUL Information System](#))

Oertli, B., A. Sordet, M. Bartrons, M. Beklioglu, L. Benejam, J. Biggs, A. Boissezon, J. Hornung, M. Lago, P. Lemmens, M. Meerhoff, T. Mehner, P. Nicolet, X. Quintana, M. Rasmussen, J. Robin, P. Williams, and S. Brucet. 2024. Nature-based Solutions using Ponds and Pondsapes: 16 leaflets (English and local languages) presenting the PONDERFUL Demonstration Sites (DEMO-sites). <https://zenodo.org/records/14017011>

Benejam, L., & Brucet, S. (2024). Pondscape: Albera. (Catalan version). Zenodo. <https://doi.org/10.5281/zenodo.14016897>

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Rounsevell, M., Fischer, M., Boeraeve, F., Jacobs, S., Liekens, I., Marques, A., Molnár, Z., Osuchova, J., Shkaruba, A., Whittingham, M. and Zlinszky, A., Brucet, S. et al. Chapter 1: Setting the scene. In IPBES (2018): The IPBES regional assessment report on biodiversity and ecosystem services for Europe and Central Asia. Rounsevell, M., Fischer, M., Torre-Marín Rando, A. and Mader, A. (eds.). Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, Bonn, Germany, pp. 1-54

Visconti P, Elias V, Sousa Pinto I, Fischer M, Ali-Zade V, Báldi A, Brucet S, Bukvareva E, Byrne K, Caplat P, Feest A, Guerra C, Gozlan R, Jelić D, Kikvidze Z, Lavrillier A, Le Roux X, Lipka O, Petrik P, Schatz B, Smelansky I & Viard F. Chapter 3: Status, trends and future dynamics of biodiversity and ecosystems underpinning nature's contributions to people. In IPBES (2018): The IPBES regional assessment report on biodiversity and ecosystem services for Europe and Central Asia. Rounsevell M, Fischer M, Torre-Marín Rando A & Mader A (eds.). Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem services, Bonn, Germany.

IPBES (2018): Summary for policymakers of the regional assessment report on biodiversity and ecosystem services for Europe and Central Asia of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. M. Fischer, M. Rounsevell, A. Torre-Marín Rando, A. Mader, A. Church, M. Elbakidze, V. Elias, T. Hahn, P.A. Harrison, J. Hauck, B. Martín-López, I. Ring, C. Sandström, I. Sousa, Pinto, P. Visconti, N.E. Zimmermann and M. Christie (eds.). IPBES secretariat, Bonn, Germany. 48 pages.

Benejam L. & Brucet S. 2013. European freshwater fish. Lunewerg Editions. pp. 178 – 183. ISBN: 978-84-15888-08-6.

WISE-RTD brief 2012 (European Commission dissemination briefs): Review of good practice measures for climate change adaptation related to water.

Nöges P; T Nöges; S Brucet; A. C. Cardoso; M Kernan. 2011. DGEEnv News Alert: Climate Change and water: a review and database of adaptation measures. European Commission dissemination reports.

Revision of the consistency in reference criteria application in the phase one of the European Intercalibration Exercise. 2011. Isabel Pardo, et al. including S Brucet. Publications Office of the European Union, ISBN: 978-92-79-20443-2

Quintana, X. D., Boix, D, Badosa, A., Brucet, S., Gascón, S., Gestí, J., López-Flores, R., Pou-Rovira, Q., Trobajo, R., Moreno-Amich, R. 2004. Limnology of coastal Mediterranean wetlands: the case of Empordà Wetlands. *Ecosistemas*, 13: 30-36

SUPERVISION of PHD:

Ignasi Arranz (completed 2017). The body size structure of lake fish and its response to biotic interactions and environmental and anthropogenic variation.

Zeynep Ersoy (completed 2018). Biotic and environmental factors shaping body size distributions in freshwater planktonic food webs.

Serena Sgarzi (2015 - 2022) Disentangling the impacts of multiple stressors on Mediterranean ponds.

Nupur Nagar (2017 - 2022) Source assessment of organochlorine pollutants in sediments and fish from Greenland lakes (co- supervisor)

Katherine Rincon (2021 - 2025) Zooplankton diversity and size structure: effects of hydroperiod, land use and interactions with ecosystem functions

Lena Fehlinger (2023 - 2025) Macroinvertebrate diversity of Mediterranean temporary ponds

Victoria Frutos (2022 - 2026) Contributions of temporary ponds to freshwater biodiversity and services.

Irum Shahzadi (2025 - 2028) Functional diversity and its role in ponds ecosystems under global change

SUPERVISION of POSTDOCS:

2024 – . Dr Serena Sgarzi

2022 – 2024. Dr Àlex López de Sancha. INVESTIGO Grant.

2022 – 2024. Dr Charlotte Evangelista. Beatriu Pinós grant.

2022 – 2023. Dr Serena Sgarzi. PONDERFUL project

2021 – 2024. Dr María Cuenca-Cambronero. PONDERFUL project

2021 – 2024. Dr Carolina Trochine. PONDERFUL Project

2019 – 2021. Dr Jordi Compte. *SOS Temporales: Mediterranean temporary ponds, biodiversity refuges that need protection*, funded by Fundación Biodiversidad.

2019 – 2021. Dr Ignasi Arranz. Size-based approaches to understand impacts on river ecosystem functioning. Funded by Spanish Ministry of Science and Technology.

2015 – 2019. Dr Mireia Bartrons. Funded by UVIC-UCC to support my ICREA project.

2017. Dr Esther Mvungi. Investigation of the synergistic effects of climate change and nutrient enrichment on productivity and biochemical characteristics of seagrasses. Funded by CIRCLE programme (UK Department for International Development)

2014-2016. Dr. Miguel Cañedo (UVIC-UCC). Rivers of salt: Advancing towards a better management of salt-rich Effluents. Funded by Tecniospring programme and COFUND Marie Curie Actions

REVIEWER AND BOARDS (See also my ICREA website)

- Member of the **Evaluation Committee** of Plan Estatal de Investigación (Spain). 2019-2020.
- **Scientific Evaluation** of Talentia Senior Program, Andalusia, Spain. 2019.
- **Coordinator** of Natural Sciences Board for the Agency for the Management of University and Research Grants in Catalonia. 2019-2021
- UVic-UCC **Representative** at Catalan Climate emergency Summit. From 2019.
- **Specialist Adviser of CIRCLE programme** (UK Department for International Development) to support African researchers on research on climate change impacts. 2016-2018.
- Lead Author of the **Intergovernmental Panel of Biodiversity and Ecosystem Services** (IPBES). From 2016.
- Scientific Evaluator of **CERCA** (Agency for the Research Centres of Catalonia), Spain. 2016
- Scientific Evaluator of the National Science Center, Poland. 2016
- Evaluator of **Horizon 2020**, call H2020-SC5-2015, European Commission. 2015.
- Scientific Evaluation of **CSIC I+D**, Uruguay.
- Scientific Evaluation of **Czech Science Foundation**, Czech Republic. 2014
- Scientific Evaluation of **FONCyT** (Fondo para la Investigación Científica y Tecnológica), Argentina.
- **Editorial Board** of Turkish Journal of Zoology. From 2019.
- **Editorial Board** of The Scientific World Journal (Impact Factor: 1.524). 2014-2016
- Member of **AcademiaNet** – Expert Database for Outstanding Female Academics (the database shows only outstandingly qualified women who are best in their field and they all have been nominated by highly recognized science and research institutions).
- **Peer Review** (>40 journals): Journal of Animal Ecology, Ecography, Diversity & Distributions, Global Ecology and Biogeography, Conservation Biology, Marine Ecology Progress Series, Ecosystems, Ecosphere, Ecological Indicators, Journal of Plankton Research, Biological Invasions, Journal of Limnology, Hydrobiologia, Fundamental and Applied Limnology, Ecological Engineering, Journal of Coastal Research, Limnetica, Fresenius Environmental Bulletin, Annales de Limnologie - International Journal of Limnology, Chemistry & Ecology, Naturwissenschaften, Freshwater Biology, Journal of

Freshwater Ecology, Estonian Journal of Ecology, International review of Hydrobiology, Estuarine Coastal and Shelf Sciences, Marine and Freshwater Research, Water, etc.

AWARDS:

- **IES** (Institute for Environment and Sustainability – European Commission) **Excellence Award for Best Young Research Scientist 2010**
- Member of the research group who received the **Naumann-Thienemann medal for outstanding science in Limnology** (highest international award in the field) in 2010, first time the medal has been awarded to both a scientist, Prof Erik Jeppesen, and his group.