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| **CV date** | 14/12/2018 |

**PERSONAL INFORMATION**

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| First and Family name | SUSANA BERNAL BERENGUER | | | |
| Social Security, Passport, ID number | 46236057P | | Age | 43 |
| Researcher numbers | | Researcher ID | K-5069-2014 | |
| Orcid code | 0000-0002-6726-8840 | |

**Current position**

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| --- | --- | --- | --- | --- | --- |
| Name of University/Institution | Centro Superior de Investigaciones Científicas (CSIC) | | | | |
| Department | Centro de Estudios Avanzados de Blanes  (CEAB) | | | | |
| Address and Country | C/Accés Cala Sant Francesc 14, 17300 BLANES | | | | |
| Phone number | +34 666871527 | E-mail | sbernal@ceab.csic.es | | |
| Current position | Ramon y Cajal | | | From | xx/xx/2019 |
| Espec. cód. UNESCO | 250808, 250811,250814, 251101, 251102, 310609 | | | | |
| Palabras clave | Hydrology, Nutrient and carbon biogeochemistry, stream ecology, continental ecology, riparian forests, | | | | |

**Education**

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| PhD | University | Year |
| BSc Biology | University of Barcelona (UB) | 1994-1998 |
| MSc Experimental Biology | UB | 1999-2000 |
| DEA Ecosystem Biology | UB | 2000-2002 |
| PhD Biology | UB | 2002-2006 |

**JCR articles, H Index.**

Total number of citations: 918 (Scopus), 1343 (Google Scholar)

Average number of citations per year in the last 5 years (2018 not included): 83 (Scopus)

Publications in Q1: 35 (over 40 with available information on quartiles).

Publications in SCI as first author: 17

H index: 17 (Scopus), 17 (Google Scholar)

**CV SUMMARY (max 3500 words)**

Bernal was an ERASMUS fellow at Lund University (Sweden), and obtained her MSc and PhD at the University of Barcelona (UB). She was awarded with a Fulbright Postdoctoral Fellow at the Princeton Environmental Institute, Princeton U. (NJ, USA). Former Juan de la Cierva and JAE-DOC fellow, she led a JIN research project at the Center of Advanced Studies of Blanes (CEAB-CSIC). Associate Prof. at BEECA (UB) since 2014. In 2018, Bernal was awarded with a Ramon y Cajal research position (rank: #2 in Earth Sciences) and decided to keep pursuing her research goals at CEAB-CSIC.

Bernal research focuses on carbon and nutrient cycling in terrestrial and stream ecosystems with a strong emphasis on understanding the influence of hydrological processes on solute export and biogeochemical processing. Bernal combines empirical and modelling approaches at different spatio-temporal scales in order to investigate the potential of streams and their riparian zones to filter nutrients and protect downstream waters.

As a JIN researcher, Bernal has led research on intermittent flowing streams in urban areas affected by wastewater treatment plant effluents. Her work highlights that these point sources supply large amounts of nutrients, exogenous bacteria and fine particulate organic matter which profoundly alter the structure and functioning of streams and their hyporheic zones. Since 2014, she works in collaboration with public administrations and restoration companies to develop green infrastructures that are more effective at mitigating water pollution, and works to disseminate the consequences of urbanisation and climate change on water quality to water stakeholders and general public.

Bernal has published > 50 scientific papers and book chapters, and contributed to > 80 international congresses and workshops (15 invited talks). She has co-organized and chaired several special sessions focused on stream and riparian ecohydrology and biogeochemistry, and co-edited a Special Issue on extreme climate events for *Biogeochemistry*. She has participated on > 15 competitive projects (Spain, EU, and USA). Her worked has been highlighted on TV and newspapers.

Dr Bernal has supervised 12 students (BSc and MSc thesis) and 1 PhD thesis (2015) awarded by the PhD Claustrum (UB) and the Iberian Association of Limnology (AIL). She graciously offers her services as a reviewer for *Biogeochemistry*, *PNAS*, *L&O*, *Hydrol. Earth Sist. Sci*., *J. Geophys. Res*., among others, as well as to national and international research founding bodies. Highlighted as outstanding reviewer in 2014 and 2017 by *Biogeochemistry*. She is actively involved in ecological associations at the national and international level, being member of the R. Lindeman Award Subcommittee of ASLO, booster and member of the “Gender and Science” group of AIL, member of the provisional executive board of the newborn Iberian Association of Ecology (SIBECOL). And co-organizer of the 1st SIBECOL congress that will be held in Barcelona in 2019.

**Publications (including books) (max 10)**

**Total**: 55 publications, 4 of them in review (not shown). From the published ones: 42 in SCI journals (92% in the Q1), 8 chapter books and congress proceedings, 1 general article. **First author**: 17 SCI pubs. **Senior author**: 5 SCI pubs. The 10 most relevant publications:

**Bernal, S,** Lupon A, Catalán N, Castelar S, Martí E. 2018. Decoupling of dissolved organic patterns between stream and riparian groundwater in a headwater forested stream. *Hydrology and Earth System Science* 22: 1897‒1910. **Highlighted by HESS.**

Pinay G, **Bernal S,** Abbott BW, Lupon A, Martí E, et al. 2018. Riparian corridors: A new conceptual framework for assessing nitrogen buffering across biomes. *Frontiers in Environmental Science* 6: 47. (7/2)

Marcé R, von Schiller D, Rosana A, Martí E, **Bernal S.** 2018. Contribution of hydrological opportunity and biogeochemical reactivity to the variability of nutrient retention in river networks. *Global Biogeochemical Cycles* 32: 376-388.

**Bernal S,** Merbt S, Ribot M, Casamayor E, Martí, E. 2017. Day-night ammonium oxidation in an urban stream: influence of irradiance on ammonia oxidisers. *Freshwater Science* 36: 272-283.

**Bernal S,** Segarra A, Merbt S, Martí E. 2017. Differences in ammonium oxidisers abundance and N uptake capacity between epilithic and epipsammic biofilms in an urban stream. *Freshwater Science* 37: 13-22.

Lupon A, Martí E, Sabater F, **Bernal S.** 2016. Green light: gross primary production influences seasonal stream N export by controlling fine-scale N dynamics. *Ecology*, 97: 133‒144.

**Bernal S**, Lupon A, Ribot M, Sabater F, Martí E. 2015. Riparian and in-stream controls on nutrient concentrations and fluxes in a headwater forested stream. *Biogeosciences*, 12: 1941‒1954.

**Bernal S**, von Schiller D, Martí E, Sabater F. 2013. Hydrological extremes modulate nutrient dynamics in mediterranean-type streams across different spatial scales. *Hydrobiologia*, 719(1):31-42. doi: 10.1007/s10750-012-1246-2.

**Bernal S**, von Schiller D, Martí E, Sabater F. 2012. In-stream net uptake regulates inorganic nitrogen export from catchments under baseflow conditions. *Journal of Geophysical Research-Biogeosciences*, 117, G00N05.

**Bernal S,** Hedin, LO, Likens, GE, Gerber S, Buso DC. 2012. Complex response of the forest nitrogen cycle to climate change”. *Proceedings of the National Academy of Sciences of America*, 109(9) 3406-3411. **Highlighted in:** Faculty 1000 Biology, Science Daily, EurekaAlert.

**National and International Committees**

* Member of the Lindeman Award Subcommittee of the American Association of Limnology and Oceanography (ASLO) (2016-2018).
* Member of the International Advisory Board of HydroEco (Birmingham, UK, 2017).
* Invited Editor of the Special Issue: “*Impact of Extreme Climate Events on Biogeochemical Water Fluxes*”, launched in 2019 in Biogeochemistry (2017-2019).
* Member of the Organization Committee of the 1st SIBECOL Conference (2018-2019).
* Treasurer and member of the provisional Executive Board of the Iberian Association of Limnology (SIBECOL) (2018).
* Member of the Gender and Science Group of the Iberian Association of Limnology (AIL) and booster and co-coordinator of the Exposition “Women in Limnology” (Coimbra, Portugal, 2018).