

AMBER

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D5.3 Peer-reviewed publications

This is version 1.0 of D5.3 `Peer-reviewed publications`. This document is a deliverable of the AMBER project that has received funding from the European Union's Horizon 2020 Programme under Grant Agreement (GA) # 689682.

History of changes

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1.0	20 Sept 2020		

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Executive summary

This is version 1.0 of D5.3 `Peer reviewed publications`. This report is a deliverable of the AMBER project. This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 689682.

The scientific research of AMBER need to be scientifically sound and accepted by peers if it is to achieve societal impact. On that basis, the AMBER consortium has produced a series of high impact peer-reviewed publications which are summarized in this report.

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1 INTRODUCTION

The outputs of AMBER are disseminated in multiple ways (presentations at conferences and workshops, website and social media, newsletters, etc.). Peer-reviewed publications are one of the most important outputs AMBER has shared to achieve societal impact. Many of the members of the AMBER consortium are research-driven institutions and achieving high-level, scientific impact has been of great importance to the project.

AMBER committed to producing a series of high-impact, peer-reviewed publications which are presented in this deliverable. To date, there are 23 published peer-reviewed publications, 13 pending publications and a number of publications still in preparation.

2 GUIDELINES OF PUBLICATION

Swansea University designed a protocol, or good practice guide, that was followed by the AMBER consortium in relation to any publication (please see **Appendix 1**).

3 OPEN ACCESS POLICY

AMBER peer-reviewed publications comply with the H2020 Programme Guidelines to the Rules on Open Access to Scientific Publications and Open Access to Research Data in Horizon 2020 (https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf), and are available through either Gold or Green Open Access.

AMBER has participated in the Open Access Research Pilot (ODPR). In compliance with the ODPR, the project has agreed to:

- Develop (and keep up-to-date) a Data Management Plan (DMP).
- Deposit your data in a research data repository.
- Ensure third parties can freely access, mine, exploit, reproduce and disseminate your data.
- Provide related information and identify (or provide) the tools needed to use the raw data to validate your research.

All project research data has been made available where applicable.

4 REFERENCES TO THE AMBER PROJECT & THE EUROPEAN COMMISSION'S HORIZON 2020 PROGRAMME

All publications include the following statement: "The work was supported by funding from the European Union's Horizon 2020 Research and Innovation program, Grant Agreement No. 689682, Adaptive Management of Barriers in European Rivers (AMBER) project."

The AMBER Consortium is aware of the consequences of non-compliance and mindful that if a partner fails to appropriately reference the AMBER project, or omits acknowledgement of the EU, they risk not being included in the outputs for the project.

5 DISSEMINATION OF PEER-REVIEWED PUBLICATIONS

Once a peer-reviewed publication is published, it is uploaded to the AMBER website (**Figure 1**), and in many instances, also disseminated through social media or through creating a specific news item (**Figure 2**).

All published peer-reviewed publications are available on the AMBER website at <https://amber.international/peer-reviewed-publications/>.

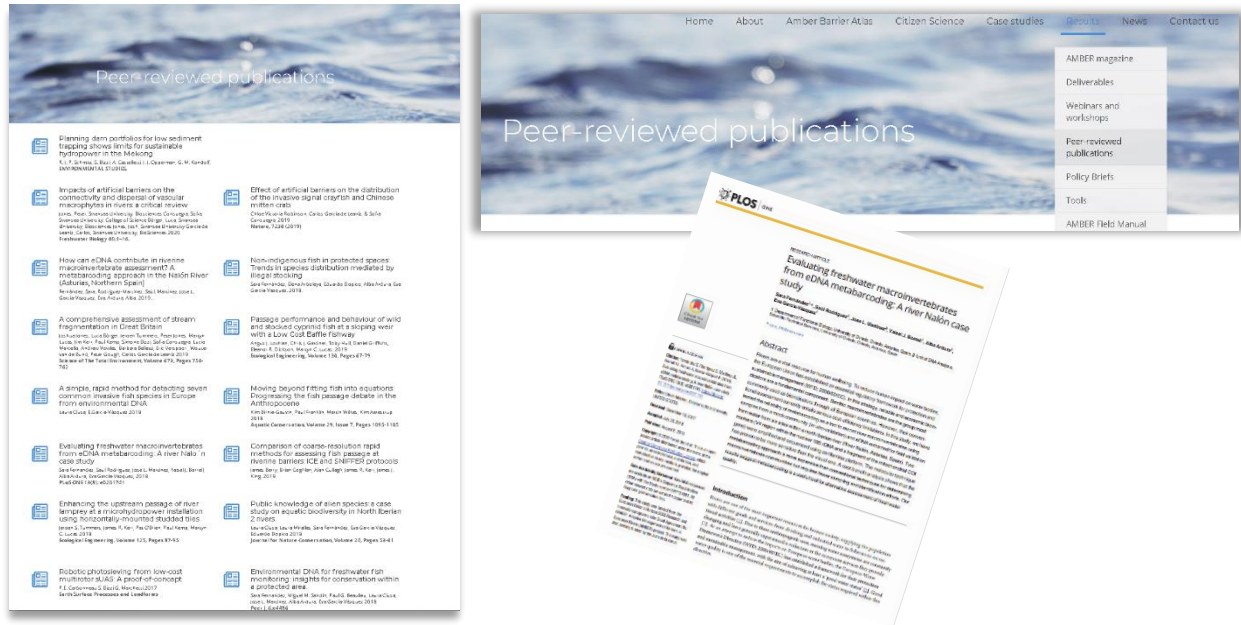


Figure 1. Peer reviewed publications section in the AMBER website.



Figure 2. News items to disseminate peer reviewed publications.

6 AMBER PEER-REVIEWED PUBLICATIONS

The published and pending peer-reviewed publications to date in the AMBER project are summarized in **Table 1** and **Table 2**.

Table 1. Peer-reviewed published articles.

WP	Title	DOI	Link to open access repository	Author(s)	Publication Date
WP2	An extremely sensitive nested PCR-RFLP mitochondrial marker for detection and identification of salmonids in eDNA from water samples	https://doi.org/10.7717/peerj.3045	https://core.ac.uk/display/83590149	Laura Clusa, Alba Ardura, Sara Fernández, Agustín A. Roca and Eva García-Vázquez	28-feb-17
WP3	Shining a light on the loss of rheophilic fish habitat in lowland rivers as a forgotten consequence of barriers and its implications for management	https://doi.org/10.1002/aqc.2795	https://orbit.dtu.dk/en/publications/shining-a-light-on-the-loss-of-rheophilic-fish-habitat-in-lowland	Kim Birnie-Gauvin, Kim Aarestrup, Thorsten M.O. Riis, Niels Jepsen , Anders Koed	12-jul-17
WP3	Adaptive management in the context of barriers in European freshwater ecosystems	https://doi.org/10.1016/j.jenvman.2017.09.023	https://orbit.dtu.dk/en/publications/adaptive-management-in-the-context-of-barriers-in-european-freshw	Kim Birnie-Gauvin, Jeroen S.Tummers, Martyn C.Lucas, Kim Aarestrup	14-sep-17
WP4	30 years of data reveal dramatic increase in abundance of brown trout following the removal of a small hydrodam	https://doi.org/10.1016/j.jenvman.2017.09.022	https://orbit.dtu.dk/en/publications/30-years-of-data-reveal-dramatic-increase-in-abundance-of-brown-t	Birnie-Gauvin K, Larsen MH, Nielsen J, Aarestrup K.	15-sep-17
WP2	eDNA for detection of five highly invasive molluscs. A case study in urban rivers from the Iberian Peninsula	https://doi.org/10.1371/journal.pone.0188126	http://digibuo.uniovi.es/dspace/handle/10651/46189	Laura Clusa ,Laura Miralles, Ana Basanta,Carmelo Escot, Eva García-Vázquez	15-nov-17
WP3	The future of fish passage science, engineering, and practice	https://doi.org/10.1111/faf.12258	http://dro.dur.ac.uk/23592/	Ana T. Silva, Martyn C. Lucas, Theodore Castro-Santos, Christos Katopodis, Lee J. Baumgartner, Jason D. Thiem, Kim Aarestrup, Paulo S. Pompeu, Gordon C. O'Brien, Douglas C. Braun, Nicholas J. Burnett, David Z. Zhu, Hans-Petter Fjeldstad, Torbjørn Forseth, Nallamuthu Rajaratnam, John G. Williams, Steven J. Cooke	28-nov-17

WP	Title	DOI	Link to open access repository	Author(s)	Publication Date
WP2	Robotic photosieving from low-cost multicopter sUAS: a proof-of-concept	https://doi.org/10.1002/esp.4298	http://dro.dur.ac.uk/23795/	P.E. Carbonneau, S. Bizzi, G. Marchetti	04-Dec-17
WP4	Public knowledge of alien species: a case study on aquatic biodiversity in North Iberian rivers	https://doi.org/10.1016/j.jnc.2018.01.001	https://pubag.nal.usda.gov/catalog/5915349	Laura Clusa, Laura Miralles, Sara Fernández, Eva García-Vázquez, Eduardo Dopico	13-Feb-18
WP2	Environmental DNA for freshwater fish monitoring: insights for conservation within a protected area	https://doi.org/10.7717/peerj.4486	https://europepmc.org/article/MED/29527421	Sara Fernandez, Miguel M. Sandin, Paul G. Beaulieu, Laura Clusa, Jose L. Martinez, Alba Ardura, Eva García-Vázquez	06-Mar-18
WP2	A simple, rapid method for detecting seven common invasive fish species in Europe from environmental DNA	https://doi.org/10.1002/aqc.2890	http://digibuo.uniovi.es/dspace/handle/10651/46997	Laura Clusa, E. García-Vázquez	30-Mar-18
WP4	Evaluating freshwater macroinvertebrates from eDNA metabarcoding: A river Nalon case study	https://doi.org/10.1371/journal.pone.0201741	https://ui.adsabs.harvard.edu/abs/2018PLoSO..1301741F/abstract	Sara Fernández, Saúl Rodríguez, Jose L. Martínez, Yaisel J. Borrell, Alba Ardura ¹ , Eva García-Vázquez	08-Aug-18
WP2	Moving beyond fitting fish into equations: Progressing the fish passage debate in the Anthropocene	https://doi.org/10.1002/aqc.2946	https://orbit.dtu.dk/en/publications/moving-beyond-fitting-fish-into-equations-progressing-the-fish-pa	Kim Birnie-Gauvin, Paul Franklin, Martin Wilkes, Kim Aarestrup	09-Aug-18
WP2	Comparison of coarse-resolution rapid methods for assessing fish passage at riverine barriers: ICE and SNIFFER protocols	https://doi.org/10.1002/rra.3358	https://eprints.soton.ac.uk/425353/	James Barry, Brian Coghlan, Alan Cullagh, James R. Kerr, James J. King	08-Nov-18
WP3	Enhancing the upstream passage of river lamprey at a microhydropower installation using horizontally-mounted studded tiles	https://doi.org/10.1016/j.ecoleng.2018.10.015	http://dro.dur.ac.uk/26639/	Jeroen S. Tummersa, James R. Kerr, Pat O'Brien, Paul Kemp, Martyn C. Lucas	15-Dec-18
WP3	Passage performance and behaviour of wild and stocked cyprinid fish at a sloping weir with a Low Cost Baffle fishway	https://doi.org/10.1016/j.ecoleng.2019.02.006	https://pubag.nal.usda.gov/catalog/6307545	Angus J. Lothiana, Chris J. Gardner, Toby Hull, Daniel Griffiths, Eleanor R. Dickinson, Martyn C. Lucas	14-Feb-19
WP1	A comprehensive assessment of stream fragmentation in Great Britain	https://doi.org/10.1016/j.scitotenv.2019.04.125	https://cronfa.swan.ac.uk/Record/cronfa50175	Joshua Jones, Luca Börger, Jeroen Tummers, Peter Jones, Martyn Lucas, Jim Kerr, Paul Kemp,	10-Apr-19

WP	Title	DOI	Link to open access repository	Author(s)	Publication Date
				Simone Bizzi, Sofia Consuegra , Lucio Marcello , Andrew Vowles , Barbara Belletti , Eric Verspoor, Wouter Van de Bund, Peter Gough, Carlos Garcia de Leaniz	
WP2	Monitoring the eradication of the highly invasive topmouth gudgeon (<i>Pseudorasbora parva</i>) using a novel eDNA assay	https://doi.org/10.1002/edn3.12	https://cronfa.swan.ac.uk/Record/cronfa50174	Chloe Victoria Robinson, Carlos Garcia de Leaniz ,Matteo Rolla Sofia Consuegra	29-Apr-19
WP2	Effect of artificial barriers on the distribution of the invasive signal crayfish and Chinese mitten crab	https://doi.org/10.1038/s41598-019-43570-3	http://europepmc.org/article/PMC/6510734	Chloe Victoria Robinson, Carlos Garcia de Leaniz & Sofia Consuegra	10-May-19
WP4	Planning dam portfolios for low sediment trapping shows limits for sustainable hydropower in the Mekong	https://doi.org/10.1126/sciadv.aaw2175	https://advances.sciencemag.org/content/5/10/eaaw2175	R. J. P. Schmitt, S. Bizzi, A. Castelletti, J. J. Opperman, G. M. Kondolf	23-Oct-19
WP2	How can eDNA contribute in riverine macroinvertebrate assessment? A metabarcoding approach in the Nalón River (Asturias, Northern Spain)	https://doi.org/10.1002/edn3.40	http://digibuo.uniovi.es/dspace/handle/10651/55512	Sara Fernández, Saúl Rodríguez-Martínez, Jose L. Martínez, Alba Ardura	01-Nov-19
WP2	Non-indigenous fish in protected spaces: Trends in species distribution mediated by illegal stocking	https://doi.org/10.1002/aqc.3238	http://digibuo.uniovi.es/dspace/handle/10651/54451	Sara Fernández, Elena Arboleya, Eduardo Dopico, Alba Ardura, Eva Garcia-Vazquez	15-Nov-19
WP2	Impacts of artificial barriers on the connectivity and dispersal of vascular macrophytes in rivers: a critical review	https://doi.org/10.1111/fwb.13493	https://cronfa.swan.ac.uk/Record/cronfa53828	Peter Jones, Sonia Consuegra, Luca Borger Joshua Jones, Carlos Garcia de Leaniz	02-Mar-20
WP4	River connectivity restoration for upstream-migrating European river lamprey: the efficacy of two horizontally-mounted studded tile designs	https://doi.org/10.1002/rra.3734	https://onlinelibrary.wiley.com/doi/full/10.1002/rra.3734	Angus J. Lothian, Jeroen S. Tummers, Atticus J. Albright, Pat O'Brien, Martyn C. Lucas	27-Sep-20

Table 2. Pending peer-reviewed publications.

WP	Title	Author(s)
WP4	Restoration of fish migration on the dam of the Włocławski Reservoir as a basis for successful restitution of migratory fish in the middle and upper Vistula River basin	Wiesław Wiśniewolski
WP3	One size does not fit all: interspecific and intraspecific variation in the swimming performance of contrasting freshwater fish	Jones, P.E., Svendsen, J.C., Borger, L., Champneys, T., Consuegra, S., Jones, J.A.H., Garcia de Leaniz
WP4	Rapid response of fishes and aquatic habitat to removal of a tidal barrier	Jingrui Sun, Shams M. Galib, Martyn C. Lucas
WP4	Ecosystem connectivity, a neglected feature in coastal rivers. Social and ecological assessment in the Bay of Biscay	Sara Fernández, Elena Arboleya, Laura Clusa, Eduardo Dopico, Eva Garcia-Vazquez.
WP4	The Spatial ecology of Brown Trout (<i>Salmo trutta</i>) and Dace (<i>Leuciscus leuciscus</i>) in an artificially impounded riverine habitat: results from an acoustic telemetry study	J.Barry, P. Mc Loone, J.J. King
WP3	Selective fish passage: restoring habitat connectivity without facilitating the spread of an invasive species	Kerr, J.R., Vowles, A.S., Crabb, M.C. and Kemp, P.S.
WP4	Using river barriers to limit the spread of aquatic invasive animal species: a systematic review	Jeroen S. Tummers, Shams M. Galib, Darragh J. Woodford, John B. Hume, Luiz G. M. Silva, Peter E. Jones, Raul R. Braga, Carlos Garcia de Leaniz, Jean R. S. Vitule, Jelger E. Herder, Martyn C. Lucas
WP3	Intrinsic factors influencing fish passage: an experimental approach	Jones, P.E., Champneys, T., Vevers, J., Svendsen, J., Consuegra, S., Börger, L., Jones, J.A.H., and Garcia de Leaniz, C.
WP3	Climate and water availability: measuring social attitudes about dams and reservoirs	Elena Arboleya, Sara Fernandez, Yaisel Borrell, Sonia Consuegra, Carlos Garcia de Leaniz, Gloria Lázaro, César Rodríguez, Eva Garcia-Vazquez, Eduardo Dopico
WP2	Environmental DNA to detect the invasive species <i>Mytilopsis leucophaeata</i> and <i>Dreissena polymorpha</i> in reservoirs and inside the facilities of the water supply company of Seville, Spain	Miralles L., Escot C., Reyes-Bárbara I., Garcia-Vazquez E, Borrell Y.J
WP1	Broken rivers: ground-truthing the world's most fragmented rivers	Carlos Garcia de Leaniz



WP1	Quantifying river fragmentation from local to continental scales: data management and modelling toolbox	Joshua Jones, Barbara Belletti, Luca Borger, Gilles Segura, Simone Bizzi, Wouter van de Bund, Carlos Garcia de Leaniz
WP2	Small hydraulic structures - big environmental problems: is it possible to mitigate the negative impacts of culverts on stream biota?	Piotr Frankiewicz, Artur Radecki-Pawlik, Andrzej Wałęga, Małgorzata Łapińska, Adrianna Wojtal-Frankiewicz

APPENDIX 1. INTENT TO PUBLISH GUIDANCE

General Instructions

It is imperative that the Notice of Intention to Submit guidance is followed in relation to any AMBER publication.

Please also be reminded that project information must be included in the paper, for example “European Union’s Horizon 2020 Research and Innovation program, Grant Agreement No. 689682, Adaptive Management of Barriers in European Rivers (AMBER) project.”

Any papers published without the Intent to Publish Notice and the project information risk not being included in the outputs for the project. If you are aware of any papers that have been submitted or published without following these procedures, please advise of the paper title as soon as you are able.

Dissemination Notice

Before dissemination of any results, including publication of papers, you need to notify all partner organisations.

Method

Inform the lead representative of all AMBER partners by sending an email to the main contacts of each of our partners.

You can check who they are by ‘activating’ the following icon (right click, and select ‘Packager Shell Object Object’ then ‘Activate Object’)



AMBER
Partners.msg

The title of the email should be: AMBER: Planned publication notice: ...Title of Publication.....

The email should include the following:

1. Abstract/Research highlights
2. Article Authors
3. AMBER Partners Involved
4. Data used for analysis (if appropriate)

Please refer to the article below regarding dissemination (Article 8.4.2.1 from the Consortium Agreement): “8.4.2.1 During the Project and for a period of 1 year after the end of the Project, the dissemination of own Results by one or several Parties including but not restricted to publications and presentations, shall be subject to the following provisions.

Prior notice of any planned dissemination shall be given to the other Parties and the Steering Committee at least 14 calendar days before the dissemination. Any objection to the planned

dissemination shall be made in accordance with the Grant Agreement in writing to the Coordinator, Project Manager, the Steering Committee and to the Party or Parties proposing the dissemination within 14 calendar days after receipt of the notice. If no objection is made within the time limit stated above, the dissemination is permitted.”