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Manuscripts in preparation

Wiegleb, J., Hirsch, P. E., Seidel, F., Rauter, G. & Burkhardt-Holm, P. (2022). Against the stream: Hydraulic forces and passage behaviour of benthic fish in a vertical slot fish pass, ready to submission.

Wiegleb, J., Hirsch, P. E., Seidel, F., Rauter, G. & Burkhardt-Holm, P. (2022). Swimming behaviour of three benthic fish species while passage of a vertical slot fish pass, in preparation.

Publications in 'peer reviewed' international journals

Wiegleb, J., Hirsch, P. E., Seidel, F., Rauter, G. & Burkhardt-Holm, P. (2022). Flow, force, behaviour: assessment of a prototype hydraulic barrier for invasive fish, *Hydrobiologia*, 849, 1001-1019
<https://doi.org/10.1007/s10750-021-04762-z>

Egger, B., Wiegleb, J., Seidel, F., Burkhardt-Holm, P., & Emanuel Hirsch, P. (2021). Comparative swimming performance and behaviour of three benthic fish species: The invasive round goby (*Neogobius melanostomus*), the native bullhead (*Cottus gobio*), and the native gudgeon (*Gobio gobio*). *Ecology of Freshwater Fish*, 30(3), 391-405 . <https://doi.org/10.1111/eff.12592>

Wiegleb, J., Hirsch, P. E., Egger, B., Seidel, F., & Burkhardt-Holm, P. (2020). Flow field-induced drag forces and swimming behavior of three benthic fish species. *Limnologia*, 84, 125812.
<https://doi.org/10.1016/j.limno.2020.125812>

Lutz, E., Hirsch, P. E., Bussmann, K., Wiegleb, J., Jermann, H.-P., Muller, R., ... Adrian-Kalchhauser, I. (2020). Predation on native fish eggs by invasive round goby revealed by species-specific gut content DNA analyses. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 30(8), 1566-1577.
<https://doi.org/10.1002/aqc.3409>

Wiegleb, J., Kotterba, P., Hammer, C., & Oesterwind, D. (2018). Predation of the round goby (*Neogobius melanostomus* Pallas, 1814) on Atlantic herring eggs in the Western Baltic Sea. *Marine Biology Research*, 14(9–10), 989-1003. <https://doi.org/10.1080/17451000.2019.1577977>

Contributions to conferences, presentations, and posters

Presentation Wiegleb, J., Hirsch, P. E., Seidel, F. & Burkhardt-Holm, P. (2020). 3D-Forces in current experienced by the round goby and two native benthic fish species during fish pass passage (Goby meeting in Starnberg, Germany)

Poster Wiegleb, J., Hirsch, P. E. & Burkhardt-Holm, P. (2018). Do round gobies overcome strong currents in fish passes? –Application of 3D-printed fish (Goby meeting in Chioggia, Italy)

Poster Wiegleb, J., Oesterwind, D., Kotterba, P. & von Nordheim, L. (2017). Trophic interactions of invasive round goby (*Neogobius melanostomus*) and Baltic herring eggs (Bonus Symposium in Thallinn)

Presentation Oesterwind, D., Bock, C., Förster, A., Gabel, M., Henseler, C., Kotterba, P., Menge, M., Myts, D., Winkler, H., Wiegleb, J. (2017). Integration of the invasive round goby (*Neogobius melanostomus*) into the coastal ecosystem of the Western Baltic Sea (Conference BONUS Symposium in Thallinn)

Outreach activities

Wiegleb, J. (2019). Schwarzmundgrundeln in der Schweiz. *Regio Basiliensis*, 60(2), 89-96.

Round goby Apéro: Stakeholder-interaction event of the round goby-research group of the Program MGU, University of Basel, Switzerland, November 2018, 2019, 2020.