

# Liste de publications de BIOR

## Articles dans des revues avec comité de lecture

### A paraître

Houtain, A., Derzelle, A., Lliros, M., Hespels, B., Nicolas, E., Simion, P., Virgo, J., Heuskin, A.-C., Lenormand, T., Hallet, B., & Van Doninck, K. (2026). Transgenerational chromosome repair in the asexual bdelloid rotifer *Adineta vaga*. *Science advances*, Final revision.

### 2026

Castillo Franco, D., Parmentier, T., Van de Walle, T., Van Reempts, E., Dekoninck, W., Romiguer, J., & Wybouw, N. (2026). Spiroplasma Display an Intricate Continuum of Infection Heterogeneity and Persistence in *Myrmica* Ants. *Molecular ecology*, 35(7). doi:10.1111/mec.70341

Parmentier, T., Bekaert, J., Westerlinck, L., Martens, K., Kontschán, J., De Kesel, A., & Haelewaters, D. (2026). Multiple fungal hosts in an ant microcosm: *Rickia wasmannii* infecting larvae, winged sexuals, and arthropod associates of *Myrmica* ants. *Insectes sociaux*. doi:10.1007/s00040-026-01088-8

Caiti, E., Fournier, D., Barnard, K., Dacquin, P., Hasbroucq, S., Inward, D., Reed, K., & Grégoire, J.-C. (2026). Mated female dispersal and solitary gallery initiation in *Ips typographus*: evidence from a range expansion gradient. *Journal of applied entomology*. doi:10.1111/jen.70071

Connelly, M., Glynn, V. M., Cornejo, A., Villalobos-Cubero, T., Kleypas, J., Alvarado, J. J., Brandt, M., Logan, C., Palacio-Castro, A., Flot, J.-F., Leray, M., Connolly, S. R., & Quattrini, A. (2026). Genome Skimming Illuminates Hidden Species Diversity and Symbiodiniaceae Associations in East Pacific Pocillopora Corals. *Genome biology and evolution*, 18(2), evaf235. doi:10.1093/gbe/evaf235

Salussolia, A., Lecoquierre, N., Stoch, F., & Flot, J.-F. (2026). Nanopore genome skimming with Illumina polishing yields highly accurate mitogenome sequences: a case study of *Niphargus* amphipods. *Peer Community Journal*, 6, e6. doi:10.24072/pcjournal.671

Ranavat, S., Sergeant, S., Angbonda, D. M. A., Sonke, B., Bouka, G. U. D., Bourland, N., Gillet, J.-F., Doucet, J.-L., & Hardy, O. J. (2026). Mid-Pleistocene origin and phylogeographical signatures of recurrent expansion-fragmentation of a highly inbred and endangered African timber legume. *Botanical journal of the Linnean Society*, 210(1), 18-30. doi:10.1093/botlinnean/boaf033

Zhou, Z., Yang, D., Lambert, I., Decroo, C., Mascolo, C., Heidig, S.-L., Karasiewicz, T., Flot, J.-F., Prévost, M., Wattiez, R., Vandenbusche, G., & Fontaine, V. (2026). New moonlighting activities for various GroEL/Hsp60 proteins, mainly characterized using recombinant *M. tuberculosis* GroEL1. *International journal of biological macromolecules*, 336, 149266. doi:10.1016/j.ijbiomac.2025.149266

### 2025

Cozzarolo, C.-S., Vasilikopoulos, A., De Thier, O., Hagemann, L., Dezfuli, B. S., Van Doninck, K., & Herlyn, H. (2025). Transcriptional profiles of the fish parasite *Neoechinorhynchus agilis* (Acanthocephala) emphasize energetic stress in males and high cell-division activity in females. *BMC genomics*, 26(1090).

McAfee, A., Degueldre, F., Hoover, S. S., Aron, S., & Foster, L. J. (2025). Mating-induced patterns of spermathecal fluid protein expression in two eusocial insect species, *Lasius niger* and *Apis mellifera*. *Scientific reports*, 15(1), 38917. doi:10.1038/s41598-025-22689-6

Verhoest, L., Vermeulen, V., Vleminckx, J., Drouet, T., & Noret, N. (2025). Use of spinach as an indicator of trace metal bioavailability: Are contamination limits valid for plants and soil? *Environmental pollution*, 386, 127173. doi:10.1016/j.envpol.2025.127173

Ngongo Lushima, J.-P., Beeckman, H., Ndjele, L., Kafuti, C., Bourland, N., Drouet, T., & Hardy, O. J. (2025). Modulation of functional traits and growth in *Pericopsis elata* seedlings in response to two contrasting light environments. *Trees*, 39(6). doi:10.1007/s00468-025-02708-9

Rocha Venancio Meyer-Sand, B., Boeschoten, L. L., Bouka, G. G., Ciliane-Madikou, J. J., de Groot, G. A., de Vries, N., Engone Obiang, N. L., Esselink, D., Guieshon-Engongoro, M., Hardy, O. J., Jansen, S., Loumeto, J. J., Mbika, D. M. D., Moundounga, C. G., Ndiade-Bourobou, D., Ndangani, R. R., Smulders, M. J. M., Tassiamba, S. S., Tchamba, M. N. M., Toumba-Paka, B. B., Zanguim, H. H., Zemtsa, P. P., & Zuidema, P. P. (2025). Unlocking the geography of Azobé timber (*Lophira alata*): revealing spatial genetic structure beyond species boundaries. *BMC plant biology*, 25(1), 315. doi:10.1186/s12870-025-06287-2

Kamdem, N., Sonke, B., Sergeant, S., Deblauwe, V., & Hardy, O. J. (2025). Short-distance seed and pollen dispersal in both hunted and intact forests in the lower canopy African rainforest tree, *Coula edulis* Baill. (Coulaceae). *BMC Ecology and Evolution*, 25(1), 20. doi:10.1186/s12862-025-02356-0

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Meunier, L., Keller-Costa, T., Cannella, D., Gonçalves, J. M. J., Dechamps, E., Marques, M., Costa, R., & George, I. (2025). An artificial selection procedure enriches for known and suspected chitin degraders from the prokaryotic rare biosphere of multiple marine biotopes. *BMC Microbiology*, 25(1), 778. doi:10.1186/s12866-025-04218-7

Govender, M., Shankar Poti, M., Nijamdeen, T. W. G. F. M. T., Sunanda Kodikara, K. A., Dahdouh-Guebas, F., & Hüge, J. (2025). Mapping conservation conflicts by integrating social network analysis and Q methodology: A sea turtle case from Sri Lanka. *Scientific reports*, 15(1), 16658. doi:10.1038/s41598-025-99926-5

Josens, G., Deligne, J., Harry, M., Roy, V., Akama, P. D., Coulibaly, T., Dosso, K., Goergen, G., Hasson, M., Kasangij a Kasangij, P., Kifukieto, C., Le Ru, B., Loko, L. E. Y., Ndiaye, A. B., Roisin, Y., Sion, N., Šobotnik, J., Stiblik, P., Kue Di Kuenda, S., Traoré, S., Viage, M., Wango, S.-P., Kaymak, E., Bourguignon, T., & Hellemans, S. (2025). An integrative revision of the genus *Isognathotermes* (Termitidae: Cubitermitinae)

with description of seven new species and four new subspecies. *European Journal of Taxonomy*, 1024, 1-197. doi:10.5852/ejt.2025.1024.3099

Kortz, A. A., Meerts, P. J., et al. (2025). A global synthesis of naturalized and invasive plants in aquatic habitats. *NeoBiota*, 102, 473-494. doi:10.3897/neobiota.102.151156

Cervantes, S., Schley, R., Hardy, O. J., & Ojeda Alayon, D. I. (2025). Do syngameons exist in tropical trees? Challenges to determine their existence and estimate their frequency. *Biology Letters*, 21(11), 20250444. doi:10.1098/rsbl.2025.0444

Saccò, M., Chauveau, C., Collard, O., Flot, J.-F., Stoch, F., et al. (2025). Advancing subterranean conservation through Global Research on eDNA in Groundwaters (GReG). *Subterranean Biology*, 53, 31-40. doi:10.3897/subtbiol.53.165710

Urák, I., Vrenosi, B., G#biak, Z., Lecoquierre, N., Eiberger, C., Maraun, M., #tefan, A., Flot, J.-F., Brad, T., Dainelli, L., Sarbu, #. S., & B#ncil#, R. I. (2025). An extraordinary colonial spider community in Sulfur Cave (Albania/ Greece) sustained by chemoautotrophy. *Subterranean Biology*,(53), 155-177. doi:10.3897/subtbiol.53.162344

Boucherie, A., Polet, C., Vercauteren, M., Lefèvre, P., & Santos, F. (2025). BASE – BASicranial Sex Estimation: An R package for sexing adult western European individuals from the cranial base morphometry in bioarchaeology and forensic anthropology. *Bulletins et Mémoires de la Société d'anthropologie de Paris*, 37(2), 53-69. doi:10.4000/151ua

Fontaine, N., Hellemans, S., Horá#ek, N., K#ivánek, J., Timmermans, J., Kaczmarek, N., Kaymak, E., Wang, M., Scheffrahn, R. H., Bourguignon, T., Hanus, R., Fournier, D., & Roisin, Y. (2025). Integrative taxonomy unravels the true identity of Linnaeus' *Termes fatalis* (Isoptera: Termitidae), the source of termites' name. *Systematic entomology*. doi:10.1111/syen.70016

Scheffrahn, R. H., Wang, M., Bourguignon, T., Rocha, M. M., Canello, E. M., Roisin, Y., & Hellemans, S. (2025). *Nasutitermes aurantius* (Isoptera, Termitidae, Nasutitermitinae), a new nasutiform termite species from Panama and a key to soldiers of Central American *Nasutitermes* Dudley, 1890. *ZooKeys*, 1256, 163-177. doi:10.3897/zookeys.1256.158192

Rodriguez-Valbuena, H., Salcedo, J., De Thier, O., Flot, J.-F., Tiozzo, S., & De Tomaso, A. A. (2025). Exceptional diversity of allrecognition receptors in a nonvertebrate chordate reveals principles of innate allelic discrimination. *Proceedings of the National Academy of Sciences of the United States of America*, 122(43), e2519372122. doi:10.1073/pnas.2519372122

Ducret, H., Suchocki, C., Bardin, C., Lewis, C. J., Permentier, T., Hardt, M., Toonen, R. J., Kochzius, M., & Flot, J.-F. (2025). Shading does not lower thermal tolerance in the coral *Montipora capitata*. *Coral reefs*. doi:10.1007/s00338-025-02753-3

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conservation in the Mediterranean Sea. *Mediterranean Marine Science*, 26(4), 1050-1067. doi:10.12681/mms.40883

Stamatakis, E., Gerritzen, C. T., Van Ham-Meert, A., Griffith, J. I., De Mulder, G., Vercauteren, M., & Snoeck, C. (2025). High-temperature transformation of bioapatite to  $\beta$ -tricalcium phosphate: Structural and isotopic changes in cortical bone up to 1400 °C. *Ceramics international*, 51(25), 44205-44217. doi:10.1016/j.ceramint.2025.07.151

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Kasprzyk, T., Dauby, G., Vanderpoorten, A., & Hardy, O. J. (2025). Mechanisms of Community Assembly through the Lens of Phylogenetic Diversity: A Critical Reappraisal. *Systematic biology*. doi:10.1093/sysbio/syaf062

Kastally, C., Sorel, M., Collart, F., & Mardulyn, P. (2025). Evolution of the Geographic Range of a European Montane Leaf Beetle in Response to Climate Changes at the End of the Quaternary. *Journal of biogeography*, 52(9). doi:10.1111/jbi.15181

Ofori, S. A., Hüge, J., Gnansounou, S. C., De Carvalho Ximenes, A., Asante, F., Bagbohouna, M., Comte, A., Longépée, E., Lang'at, K. S., Bandeira, S., Omollo, D., Onyena, A. P., Sam, K., Hamza, A. J., Zeggaf Tahiri, A., Daf, D. S., Goudiaby, K. D., Olatunji, E. T., Golléty, C., Padonou, E. A., & Dahdouh-Guebas, F. (2025). Leveraging mangroves to advance climate action in Africa: Zooming in on Nationally Determined Contributions (NDCs). *Journal of environmental management*, 392, 126669. doi:10.1016/j.jenvman.2025.126669

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Dechamps, E., Salengros, A., Meunier, L., Keller-Costa, T., Chevalier, S., Danguy, J., Heidig, S.-L., Flot, J.-F., Costa, R., & George, I. (2025). Cultivation of marine chitinolytic bacteria reveals the sponge-associated *Motilimonas* isolate Spo1\_1 as an efficient degrader of insoluble chitin. *Journal of applied microbiology*, 136(8), lxaf187. doi:10.1093/jambio/lxaf187

Katz, L., Tasnuva, M. K., Moreau, C., Mitchell, E., & Danis, B. (2025). Using Bayesian network inference and underwater imagery to understand the influence of environmental heterogeneities on benthic community structure in the Antarctic Peninsula. *Polar biology*, 48, 91.

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