

# Liste de publications de EIB

## Articles dans des revues avec comité de lecture

### A paraître

Montis, A., Delporte, C., Noda, Y., Stoffelen, P., Stévigny, C., Hermans, C., Van Antwerpen, P., & Souard, F. (2024). Targeted metabolomics and transcript profiling of methyltransferases in three coffee species. *Plant science*.

Mokaya, H. H., Nkoba, K., Ndunda, R. R., & Vereecken, N. (2022). Characterization of honeys produced by sympatric species of Afrotropical stingless bees (Hymenoptera, Meliponini). *Food chemistry*, 366, 130597. doi:10.1016/j.foodchem.2021.130597

Weekers, T., Marshall, L., Leclercq, N., Wood, T. J., Cejas, D., Drepper, B., Hutchinson, L. L., Michez, D., Molenberg, J. M., Smagghe, G. G., Vandamme, P., & Vereecken, N. (2022). Dominance of honey bees is negatively associated with wild bee diversity in commercial apple orchards regardless of management practices. *Agriculture, ecosystems & environment*, 323, 107697. doi:10.1016/j.agee.2021.107697

Chaussebourg, L., Baijot, F., Maughan, N., Visser, M., & Kevin, M. (2024). Re-evaluating the baking value of bread grain: Towards an agroecological transition in Walloon Alternative Bread Supply Chains. *Agriculture and human values*.

### 2024

Erazo, D., Grant, L., Ghisbain, G., Marini, G., Colón-González, F. F., Wint, W. G., Rizzoli, A., Van Bortel, W., Vogels, C. C., Grubaugh, N., Mengel, M., Frieler, K., Thiery, W., & Dellicour, S. (2024). Contribution of climate change to the spatial expansion of West Nile virus in Europe. *Nature communications*, 15(1), 1196. doi:10.1038/s41467-024-45290-3

Koch, R. T., Erazo, D., Folly, A. A., Johnson, N. E., Dellicour, S., Grubaugh, N., & Vogels, C. C. (2024). Genomic epidemiology of West Nile virus in Europe. *One Health*, 18, 100664. doi:10.1016/j.onehlt.2023.100664

Horaud, M., Arizmendi-Meija, R., Nebot-Colomer, E., López-Sendino, P., Antunes, A., Dellicour, S., Viard, F., Leblois, R., Linares, C., Garrabou, J., & Ledoux, J. B. (2024). Comparative population genetics of habitat-forming octocorals in two marine protected areas: eco-evolutionary and management implications. *Conservation genetics*, 25(2), 319-334. doi:10.1007/s10592-023-01573-8

Salzano, F., Aulitto, M., Fiorentino, G., Cannella, D., Peeters, E., & Limauro, D. (2024). A novel endo-1,4- $\beta$ -xylanase from *Alicyclobacillus mali* FL18: Biochemical characterization and its synergistic action with  $\beta$ -xylosidase in hemicellulose deconstruction. *International journal of biological macromolecules*, 264, 130550. doi:10.1016/j.ijbiomac.2024.130550

Cotteleer, L., Longo, R., Debaste, F., & Parente, A. (2024). Flow-based stress-blended eddy simulation: A local RANS/LES turbulence model for urban flow CFD simulations. *Results in Engineering*, 21, 101679. doi:10.1016/j.rineng.2023.101679

Marshall, L., Leclercq, N., Carvalheiro, L. G. G. L., Dathe, H., Jacobi, H. B., Kuhlmann, M., Potts, S., Rasmont, P., Roberts, S. P. M., & Vereecken, N. (2024). Understanding and

addressing shortfalls in European wild bee data. *Biological Conservation*, 290, 110455. doi:10.1016/j.biocon.2024.110455

Ndungu, N., Noiset, P., Chege, M., Waweru, J. W., Sharifu, N., Vereecken, N., & Kiatoko, N. (2024). Taxonomic patterns of host plants and its impact on honey properties by two sympatric Afrotropical stingless bee species in Zanzibar (Tanzania). *African journal of ecology*, 62(2). doi:10.1111/aje.13257

Gräf, T., Martinez, A. A., Bello, G., Dellicour, S., Lemey, P., Colizza, V., Mazzoli, M., Poletto, C., Cardoso, V. L. O., da Silva, A. F., Motta, F. C., Resende, P. C., Siqueira, M. M., Franco, L., Gresh, L., Gabastou, J. M., Rodriguez, A., Vicari, A., Aldighieri, S., Mendez-Rico, J., & Leite, J. A. (2024). Dispersion patterns of SARS-CoV-2 variants Gamma, Lambda and Mu in Latin America and the Caribbean. *Nature communications*, 15(1), 1837. doi:10.1038/s41467-024-46143-9

Noiset, P., Ndunda, R. R., Mokaya, H. H., Chege, M., Ndungu, N., Sharifu, N., Vereecken, N., & Nkoba, K. (2024). Insularity and its impact on stingless bee honey properties: A case study in the Zanzibar Archipelago (Tanzania). *JSFA reports*. doi:10.1002/jsf2.170

Sanogo, I. N., Guinat, C., Dellicour, S., Diakit , M. A., Niang, M., Koita, O. O., Camus, C., & Ducatez, M. (2024). Genetic insights of H9N2 avian influenza viruses circulating in Mali and phylogeographic patterns in Northern and Western Africa. *Virus evolution*, 10(1), veae011. doi:10.1093/ve/veae011

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Kegode, T., Mokaya, H., Chogo, S., Noiset, P., Vereecken, N., Tamiru, A., Subramanian, S., & Kiatoko, N. (2023). Differences in the biochemical content and radical scavenging activity of propolis from different parts of a *Meliponula ferruginea* hive. *Royal Society open science*, 10(12). doi:10.1098/rsos.230241

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Chaoua, S., Flahaut, S., Hiligsmann, S., Mansour, M., Cornu, B., Songulashvili, G., & Kacem Chaouche, N. (2023). Assessment of Green Processes for Tomato Waste Biovalorization: Spotlight on the Innovative Pulsed Electric Field–Laccase Synergy for Enhanced Sugar and Phenol Extraction Yields. *Bioenergy Research*. doi:10.1007/s12155-023-10708-1

Rudin, C., Bollen, N., Hong, S. L., Wegner, F., Politi, L., Mellou, K., Geenen, C., Gorissen, S., Verhasselt, B., Durkin, K., Henin, C., Logist, A. S., Dellicour, S., Resa, T., Stadler, T., Maes, P., Cuypers, L., Andr , E., Egli, A., & Baele, G. (2023). Investigation of an international water polo tournament in Czechia as a potential source for early introduction of the SARS-CoV-2 Omicron variant into Belgium, Switzerland and Germany, November 2021. *Euro surveillance*, 28(45). doi:10.2807/1560-7917.ES.2023.28.45.2300018

Brienza, F., Cannella, D., Montesdeoca, D., Cybulska, I., & Debecker, D. D. (2023). A guide to lignin valorization in biorefineries: traditional, recent, and forthcoming approaches

to convert raw lignocellulose into valuable materials and chemicals. *RSC Sustainability*, 2(1), 37-90. doi:10.1039/d3su00140g

Hettiarachchi, A., Cnockaert, M., Joossens, M., Gekièrè, A., Meeus, I., Vereecken, N., Michez, D., Smagghe, G. G., & Vandamme, P. (2023). The wild solitary bees *Andrena vaga*, *Anthophora plumipes*, *Colletes cunicularius*, and *Osmia cornuta* microbiota are host specific and dominated by endosymbionts and environmental microorganisms. *Microbial ecology*. doi:10.1007/s00248-023-02304-9

Reverté, S., Leclercq, N., Marshall, L., Roberts, S. P. M., & Vereecken, N. (2023). National records of 3000 European bee and hoverfly species: A contribution to pollinator conservation. *Insect Conservation and Diversity*. doi:10.1111/icad.12680

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Marshall, L., Leclercq, N., Weekers, T., El Abdouni, I., Carvalheiro, L. G., Kuhlmann, M., Michez, D., Rasmont, P., Roberts, S. P. M., Smagghe, G. G., Vandamme, P., Wood, T. J., & Vereecken, N. (2023). Potential for climate change driven spatial mismatches between apple crops and their wild bee pollinators at a continental scale. *Global environmental change*, 83, 102742. doi:10.1016/j.gloenvcha.2023.102742

Héger, M., Noiset, P., Nkoba, K., & Vereecken, N. (2023). Traditional ecological knowledge and non-food uses of stingless bee honey in Kenya's last pocket of tropical rainforest. *Journal of ethnobiology and ethnomedicine*, 19(1). doi:10.1186/s13002-023-00614-3

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Hufsky, F., Abecasis, A. A., Babaian, A., Beck, S., Brierley, L., Dellicour, S., Eggeling, C., Elena, S. S., Gieraths, U., Ha, A. A., Harvey, W., Jones, T. C., Lamkiewicz, K., Lovate, G. L., Lücking, D., Machyna, M., Nishimura, L., Nocke, M. M., Renard, B. B., Sakaguchi, S., Sakellaridi, L., Spangenberg, J., Tarradas-Aleman, M., Triebel, S., Vakulenko, Y., Wijesekara, R. Y., González-Candelas, F., Krautwurst, S., Pérez-Cataluña, A., Randazzo, W., Sánchez, G., & Marz, M. (2023). The International Virus Bioinformatics Meeting 2023. *Viruses*, 15(10), 2031. doi:10.3390/v15102031

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Djelid, H., Flahaut, S., Oudjama, Y., Vander Wauven, C., & Kacem Chaouche, N. (2023). High NaCl concentrations induce the resistance to thermal denaturation of an extremely halotolerant (salt-activated)  $\alpha$ -mannanase from *Bacillus velezensis* H1. *World journal of microbiology & biotechnology*, 39, 304-315.

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Rich, S. S., Richards, V., Mavian, C., Magalis, B. R., Grubaugh, N., Rasmussen, S. A., Dellicour, S., Vrancken, B., Carrington, C., Fisk-Hoffman, R., Danso-Odei, D., Chacreton, D., Shapiro, J., Seraphin, M. N., Hepp, C., Black, A., Dennis, A., Trovão, N. S., Vandamme, A.-M., Rasmussen, A., Lauzardo, M., Dean, N., Salemi, M., & Prospero, M. (2023). Application of Phylodynamic Tools to Inform the Public Health Response to COVID-19: Qualitative Analysis of Expert Opinions. *JMIR Formative Research*, 7, e39409. doi:10.2196/39409

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## 2022

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