

# Liste de publications de BMOL

## Articles dans des revues avec comité de lecture

### 2026

Dereppe, C., Troch, C., Saliba, E., & André, B. (2026). The A2357T substitution in the kinase domain of yeast Tor1 confers growth promoting TORC1 activity independent of Gtr1/2 and Pib2. *Scientific reports*, 16(1), 4310. doi:10.1038/s41598-025-34647-3

Bendoumou, M., & Van Lint, C. (2026). Latency Reversing Agents: where are we now? *Current opinion in HIV and AIDS*, 21(1), 9-19.

Huttunen, M., Hakanen, S., Aho, V., Leclerc, S., Soenmez, A., Kapishnikov, S., Zannotti, A., Ruokolainen, V., Salokas, K., Varjosalo, M., Latonen, L., Parrish, C. C., Fahy, K., Mattola, S., Lafontaine, D., & Vihinen-Ranta, M. (2026). Canine parvovirus infection affects host cell nucleolar organization and ribosome biogenesis. *Communications Biology*, 9(1), 10. doi:10.1038/s42003-025-09385-x

### 2025

Renier, N., Weyckmans Mele, G., Lelièvre, P., Boeckstaens, M., Lavendomme, R., Aydogan, A., Dusein, Y., Charbonnier, P., Puillet Anselme, L., Chovelon, B., Castillo-Michel, H., Tumanov, N., Wouters, J., Sancey, L., Busser, B., Marini, A. M., Veronesi, G., Jabin, I., Deniaud, A., & Valkenier, H. (2025). Potent Biological Activity by a Synthetic Cu(I) Cationophore Redistributing Intracellular Copper Pools. *Journal of the American Chemical Society*, 148(1), 593-604. doi:10.1021/jacs.5c15335

Darche-Gabinaud, R., Kaafarani, A., Chazalon, M., Suain, V., Hendrickx, E., Conrard, L., Lefort, A., Libert, F., Demirler, M. C., Schiffmann, S. N., Perez-Morga, D., Wittamer, V., Parmentier, M., & Pirson, I. (2025). Synaptic Gpr85 Influences Cerebellar-Granule-Cell Electrical Properties and Light-Induced Behavior in Zebrafish. *The Journal of neuroscience*, 45(50), e0770252025. doi:10.1523/JNEUROSCI.0770-25.2025

Mohammed, D., Hamid, I., Vanhollebeke, B., & Martin, M. (2025). Microtubules and mechanosensing: key players in endothelial responses to mechanical stimuli. *Cellular and molecular life sciences*, 82(1), 317. doi:10.1007/s00018-025-05828-0

Diesse, J. M., Jadhav, S., Tamekou, S. L., Simo, G., Dzoyem, J. P., Souopgui, J., Kuate, J. R., & Nema, V. (2025). Disturbances in the gut microbiota potentially associated with metabolic syndrome among patients living with HIV-1 and on antiretroviral therapy at Bafoussam Regional Hospital, Cameroon. *Diabetology and Metabolic Syndrome*, 17(1), 86. doi:10.1186/s13098-025-01653-4

Efeti, M. T., Fankem Noukimi, S., Diallo, M. T., Lahngong, M. M., Acha, N. L., Shey, R. A., Demeyer, K., Souopgui, J., Ghogomu Mbigba, S., & Njemini, R. (2025). Targeted Sequencing Identifies SNPs Associated with Antimalarial Drug Resistance and the CSP Vaccine Antigen in Plasmodium falciparum from Southwest Cameroon. *International journal of molecular sciences*, 26(21). doi:10.3390/ijms262110764

Fankem Noukimi, S., Mbonimpa, J. B., Kalimba, E. M., Diallo, M. T., Efeti, M. T., & Souopgui, J. (2025). Genomic Surveillance of Plasmodium falciparum Drug Resistance

Markers Between October 2021 and June 2023 in Kigali, Rwanda. *Pathogens*, 14(11). doi:10.3390/pathogens14111092

Chasseur, A. S., Bellefroid, M., Galais, M., Gong, M., Lombard, P., Mathieu, S., Pecquet, A., Plant, E., Ponsard, C., Vreux, L., Yague-Sanz, C., Dewals, B. G., Gillet, N., Muylkens, B., Van Lint, C., & Coupeau, D. (2025). Unbiased and comprehensive identification of virus-derived circular RNAs in a large range of viral species and families: C. Van Lint is corresponding author. *PLoS pathogens*. doi:<https://doi.org/10.1371/journal.ppat.1013448>

Yengo, B. N., Shintouo, C. M., Shey, R. A., Yaah, N. E., Vanhamme, L., Njemini, R., Souopgui, J., & Ghogomu Mbigha, S. (2025). Preliminary Evaluation of the Diagnostic Performance of OvMANE1 and OvMCBL02 Multi-epitope Antigens for the Non-Invasive Diagnosis of Onchocerciasis Exposure. *Life*, 15(10). doi:10.3390/life15101515

Galvan, B., Ongena, L., Bruyr, J., Fettweis, G., Lucarelli, E., Lavergne, A., Mariavelle, E., O'Grady, T. M., Hassoun, Z. E. O., Claes, M., Dubois, L., Lee, K. A. W., Kruys, V., Gueydan, C., Durand, J., Hervouet, E., Geyer, F. F., Banito, A., Imle, R., Mao, L., Jayavelu, A. A., Grünwald, T. T., Cidre-Aranaz, F., Twizere, J.-C., & Dequiedt, F. (2025). Subversion of mRNA degradation pathways by EWSR1::FLI1 represents a therapeutic vulnerability in Ewing sarcoma. *Nature communications*, 16(1), 6537. doi:10.1038/s41467-025-61725-x

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Shen, X., Anirudhan, J., Fatima, A., Plant, E., Szemes, T., Bouveret, Z., Keruzore, M., Kricha, S., Nan, X., Sabaté San José, A., Bianchin, S., Veraghen, B., Delhaye, L.-P., Mian, B. A., Khalid, L. B., Ali, F., Zhara, H., Ali, A., Toft, M., Dieu, M., Achouri, Y., Li, M., Renard, P., Van Lint, C., Poulard, C., Iqbal, Z., & Bellefroid, E. (2025). Evidence that Dmrta2 acts through repression of Pax6 in cortical patterning and identification of a mutation crucial for DNA recognition associated with microcephaly in human. *eNeuro*, 12(6), ENEURO.0377-24.2025.

Anirudhan, J., Shen, X., Szemes, T., Dieu, M., Azouz, A., Conrard, L., Passon, N., Doumont, G., Sitte, M., Achouri, Y., Kricha, S., Salinas, G., Goriely, S., Renard, P., & Bellefroid, E. (2025). Novel insights into Emx2 and Dmrta2 cooperation during cortex development and evidence for Dmrta2 function in choroid plexus. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(27), e1789242025. doi:10.1523/JNEUROSCI.1789-24.2025

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Martin-Valiente, E., Du, Y., Goemans, C., America, M., Zindy, E., Adam, M., Scheid, B., Vikkula, M., Lubicz, B., Vanhollebeke, B., & Baeyens, N. (2025). Reversal of cerebrovascular anomalies in a zebrafish model of vein of Galen aneurysm. *Nature Cardiovascular Research*. doi:10.1038/s44161-025-00659-5

Kalimba, E. M., Noukimi, S. F., Mbonimpa, J. B., Shintouo, C. M., Ouali, R., Diallo, M. T., Vicario, A., Vandecasteele, S., Nchang, A. S., Shinyuy, L. M., Efeti, M. T., Nsengiyumva Ishimwe, A. N., Biryuwenze, A. B., Habimana, A. M., Mugisha, L. D. M. F. N., Ayadi, S., Shey, R. A., Njemini, R., Ghogomu, S. M., & Souopgui, J. (2025). Leveraging the Polymorphism of the Merozoite Surface Protein 2 (MSP2) to Engineer Molecular Tools for Predicting Malaria Episodes in a Community. *International Journal of Molecular Sciences (CD-ROM)*, 26(11), 5277. doi:10.3390/ijms26115277

El Baba, R., Haidar Ahmad, S., Vanhulle, C., Vreux, L., Plant, E., Van Lint, C., & Herbein, G. (2025). Formation of polyploid giant cancer cells and the transformative role of human cytomegalovirus IE1 protein. *Cancer letters*. doi:doi.org/10.1016/j.canlet.2025.217824

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Szemes, T., Sabaté San José, A., Azouz, A., Sitte, M., Salinas, G., Achouri, Y., Kricha, S., Ris, L., Red-Horse, K., Bellefroid, E., & Desiderio, S. (2025). The temporal refinement of Dach1 is a key step in the functional maturation of somatosensory neurons. *EMBO journal*, 44(10), 2882-2905. doi:10.1038/s44318-025-00427-y

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Voukeng, I., Chen, J., & Lafontaine, D. (2025). The natural alkaloid nitidine chloride targets RNA polymerase I to inhibit ribosome biogenesis and repress cancer cell growth. *Cell death discovery*, 11(1), 116. doi:10.1038/s41420-025-02396-x

Dorman, A., Bendoumou, M., Valaitien#, A., Jakub, W., Ali, H., Dutilleul, A., Maiuri, P., Nestola, L., Bociaga-Jasik, M., Mchantaf, G., Necsoi, C., De Wit, S., Avettand-Fenoël, V., Marcello, A., Pyrc, K., Pasternak, A., Van Lint, C., & Kula-Pacurar, A. (2025). Nuclear retention of unspliced HIV-1 RNA as a reversible post-transcriptional block in viral latency (A. Pasternak, C. Van Lint and A. Kula-Pacurar are co-corresponding and co-senior authors). *Nature communications*.

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Yang, B., Piedfort, O., Sánchez Sánchez, G., Lavergne, A., Gong, M., Peng, G., Madrigal, A., Petrellis, G., Katsandegwaza, B., Rodriguez, L. R., Balthazar, A., Meyer, S. J., Van Isterdael, G., Van Duyse, J., Andris, F., Bai, Q., Marichal, T., Machiels, B., Nitschke, L., Najafabadi, H. S., King, I. L., Vermijlen, D., & Dewals, B. G. (2025). IL-4 induces CD22 expression to restrain the effector program of virtual memory T cells. *Science immunology*, 10(104), eadk4841. doi:10.1126/sciimmunol.adk4841

Shinyuy, L. M., Loe, G. G., Jansen, O., Ledoux, A., Palmaerts, B., Mamede, L., Boussif, N., Bonnet, O., Enone, B. S., Noukimi, S. F., Nchang, A. A., Demeyer, K., Robert, A., Ghogomu, S. M., Souopgui, J., Hallot, E., & Frédérick, M. (2025). Exploring the Phytochemical Diversity and Anti-Plasmodial Potential of *Artemisia annua* and *Artemisia afra* from Different Geographical Locations in Cameroon. *Molecules*, 30(3), 596. doi:10.3390/molecules30030596

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Fankem Noukimi, S., Mbonimpa, J. B., Kalimba, E. M., Diallo, M. T., & Souopgui, J. (2025). Genetic polymorphism of Plasmodium falciparum circumsporozoite protein in Kigali, Rwanda. *Frontiers in parasitology*, 4, 1679131. doi:10.3389/fpara.2025.1679131

## Articles dans des revues sans comité de lecture

### 2026

Vreux, L., Vanhulle, C., Galais, M., Fauquenoy, S., Plant, E., Loustau, T., Bellefroid, M., Robette, G., Bendoumou, M., Santangelo, M., Martinelli, V., Schwartz, C., Wattiez, R., Communi, D., Rohr, O., & Van Lint, C. (2026). Identification of a key residue in the cellular 1 transcription factor 2 BCL11b important for its global acetylation and its nuclear 3 localization. *bioRxiv : the preprint server for biology*.

### Sans date

Zorbas, C., Soenmez, A., Léger, J. J., De Vleeschouwer, C., & Lafontaine, D. (s.d.). Detecting Material State Changes in the Nucleolus by Label-free Digital Holographic Microscopy. *bioRxiv : the preprint server for biology*.