



# Liste de publications de Anna Maria Marini

Liste établie en fonction du [Guide du proposant FNRS Année 2015](#)

## 3. Articles publiés dans des journaux à comité de lecture

1. Fayyad Kazan, M., Feller, A., Bodo, E. E., Boeckstaens, M., **Marini, A. M.**, Dubois, E., & Georis, I. (2015, septembre). Yeast Nitrogen Catabolite Repression is sustained by signals distinct from glutamine and glutamate reservoirs. *Molecular microbiology*. doi:10.1111/mmi.13236
2. Boeckstaens, M., Merhi, A., Llinares, E., Van Vooren, P., Springael, J.-Y., Wintjens, R., & **Marini, A. M.** (2015, juillet). Identification of a Novel Regulatory Mechanism of Nutrient Transport Controlled by TORC1-Npr1-Amu1/Par32. *PLOS genetics*, 11(7), e1005382. doi:10.1371/journal.pgen.1005382  
<https://dipot.ulb.ac.be/dspace/bitstream/2013/208422/1/PMC4501750.pdf>
3. Merhi, A., De Mees, C., Abdo, R. R., Victoria Alberola, J. J., & **Marini, A. M.** (2015, juin). Wnt/#-catenin signaling regulates the expression of the ammonium permease gene RHBG in human cancer cells. *PloS one*, 10(6), e0128683. doi:10.1371/journal.pone.0128683
4. Pfannmüller, A. A., Wagner, D. D., Siebert, H.-C., Schönig, B. B., Boeckstaens, M., **Marini, A. M.**, & Tudzynski, B. B. (2015, avril). The general amino acid permease FfGap1 of *Fusarium fujikuroi* is sorted to the vacuole in a nitrogen-dependent, but Npr1 kinase-independent manner. *PloS one*, 10(4), e0125487. doi:10.1371/journal.pone.0125487
5. Adlimoghaddam, A. A., Boeckstaens, M., **Marini, A. M.**, Treberg, J. J., Brassinga, A.-K. A., & Weihrauch, D. D. (2015, mars). Ammonia excretion in *Caenorhabditis elegans*: mechanism and evidence of ammonia transport of the Rhesus protein CeRhr-1. *Journal of experimental biology*, 218(Pt 5), 675-683. doi:10.1242/jeb.111856
6. Merhi, A., De Mees, C., Abdo, R. R., Victoria Alberola, J. J., & **Marini, A. M.** (2015). Wnt/#-Catenin Signaling Regulates the Expression of the Ammonium Permease Gene RHBG in Human Cancer Cells. *PloS one*, 10(6), e0128683. doi:10.1371/journal.pone.0128683  
<https://dipot.ulb.ac.be/dspace/bitstream/2013/200763/1/PMC4452261.pdf>
7. Boeckstaens, M., Llinares, E., Van Vooren, P., & **Marini, A. M.** (2014). The TORC1 effector kinase Npr1 fine tunes the inherent activity of the Mep2 ammonium transport protein. *Nature communications*, 5, 3101. doi:10.1038/ncomms4101
8. Deschuyteneer, A., Boeckstaens, M., De Mees, C., Van Vooren, P., Wintjens, R., & **Marini, A. M.** (2013). SNPs Altering Ammonium Transport Activity of Human Rhesus Factors Characterized by a Yeast-Based Functional Assay. *PloS one*, 8(8), e71092. doi:10.1371/journal.pone.0071092  
<https://dipot.ulb.ac.be/dspace/bitstream/2013/149413/1/PMC3742762.pdf>
9. Biver, S., Belge, H., Bourgeois, S., Van Vooren, P., Nowik, M., Scohy, S., Houillier, P., Szpirer, J., Szpirer, C., Wagner, C., Devuyt, O., & **Marini, A. M.** (2008, novembre). A role for Rhesus factor Rhcg in renal ammonium excretion and male fertility. *Nature (London)*, 456(7220), 339-343. doi:10.1038/nature07518

10. Boeckstaens, M., André, B., & **Marini, A. M.** (2008, août). Distinct transport mechanisms in yeast ammonium transport/sensor proteins of the Mep/Amt/Rh family and impact on filamentation. *The Journal of biological chemistry*, 283(31), 21362-21370. doi:10.1074/jbc.M801467200
11. Boeckstaens, M., André, B., & **Marini, A. M.** (2007, avril). The yeast ammonium transport protein Mep2 and its positive regulator, the Npr1 kinase, play an important role in normal and pseudohyphal growth on various nitrogen media through retrieval of excreted ammonium. *Molecular microbiology*, 64(2), 534-546. doi:10.1111/j.1365-2958.2007.05681.x
12. Feller, A., Boeckstaens, M., **Marini, A. M.**, & Dubois, E. (2006, septembre). Transduction of the nitrogen signal activating Gln3-mediated transcription is independent of Npr1 kinase and Rsp5-Bul1/2 ubiquitin ligase in *Saccharomyces cerevisiae*. *The Journal of biological chemistry*, 281(39), 28546-28554. doi:10.1074/jbc.M605551200
13. **Marini, A. M.**, Boeckstaens, M., Benjelloun, F., Chérif-Zahar, B., & André, B. (2006, juin). Structural involvement in substrate recognition of an essential aspartate residue conserved in Mep/Amt and Rh-type ammonium transporters. *Current genetics*, 49(6), 364-374. doi:10.1007/s00294-006-0062-5
14. Biver, S., Scohy, S., Szpirer, J., Szpirer, C., André, B., & **Marini, A. M.** (2006, mars). Physiological role of the putative ammonium transporter RhCG in the mouse. *Transfusion clinique et biologique*, 13(1-2 SPEC. ISS.), 167-168. doi:10.1016/j.tracli.2006.03.003  
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15. **Marini, A. M.**, Boeckstaens, M., & André, B. (2006, mars). From yeast ammonium transporters to Rhesus proteins, isolation and functional characterization. *Transfusion clinique et biologique*, 13(1-2 SPEC. ISS.), 95-96. doi:10.1016/j.tracli.2006.03.002  
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16. Javelle, A., Thomas, G., **Marini, A. M.**, Krämer, R., & Merrick, M. (2005). In vivo functional characterization of the *Escherichia coli* ammonium channel AmtB: Evidence for metabolic coupling of AmtB to glutamine synthetase. *Biochemical journal*, 390, 215-222.
17. D'Apuzzo, E., Rogato, A., Simon-Rosin, U., El Alaoui, H., Barbulova, A., Betti, M., Dimou, M., Katinakis, P., Marquez, A., **Marini, A. M.**, Udvardi, K., & Chiurazzi, M. (2004). Characterisation of three functional high affinity ammonium transporters in *Lotus japonicus* with differential transcriptional regulation and spatial expression. *Plant physiology*, 134, 1763-1774.
18. Nikko, E., **Marini, A. M.**, & André, B. (2003, décembre). Permease recycling and ubiquitination status reveal a particular role for Bro1 in the multivesicular body pathway. *The Journal of biological chemistry*, 278(50), 50732-50743. doi:10.1074/jbc.M306953200
19. Ludewig, U., Wilken, S., Wu, B., Jost, W., Obrdlik, P., El Bakkoury, M., **Marini, A. M.**, André, B., Hamacher, T., Boles, E., von Wirén, N., & Frommer, W. B. (2003, novembre). Homo- and hetero-oligomerization of ammonium transporter-1 NH<sub>4</sub> uniporters. *The Journal of biological chemistry*, 278(46), 45603-45610. doi:10.1074/jbc.M307424200

20. Javelle, A., André, B., **Marini, A. M.**, & Chalot, M. (2003, février). High-affinity ammonium transporters and nitrogen sensing in mycorrhizas. *Trends in microbiology*, 11(2), 53-55. doi:10.1016/S0966-842X(02)00012-4  
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21. Javelle, A., Morel, M., Rodríguez-Pastrana, B.-R., Botton, B., André, B., **Marini, A. M.**, Brun, A., & Chalot, M. (2003, janvier). Molecular characterization, function and regulation of ammonium transporters (Amt) and ammonium-metabolizing enzymes (GS, NADP-GDH) in the ectomycorrhizal fungus Hebeloma cylindrosporum. *Molecular microbiology*, 47(2), 411-430. doi:10.1046/j.1365-2958.2003.03303.x
22. Springael, J.-Y., Nikko, E., André, B., & **Marini, A. M.** (2002, avril). Yeast Npi3/Bro1 is involved in ubiquitin-dependent control of permease trafficking. *FEBS letters*, 517(1-3), 103-109. doi:10.1016/S0014-5793(02)02586-3  
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23. Javelle, A., Rodríguez-Pastrana, B. R., Jacob, C., Botton, B., Brun, A., André, B., **Marini, A. M.**, & Chalot, M. (2001, septembre). Molecular characterization of two ammonium transporters from the ectomycorrhizal fungus Hebeloma cylindrosporum. *FEBS letters*, 505(3), 393-398. doi:10.1016/S0014-5793(01)02802-2  
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24. Salvemini, F. F., **Marini, A. M.**, Riccio, A. A., Patriarca, E. J. E., & Chiurazzi, M. M. (2001, mai). Functional characterization of an ammonium transporter gene from Lotus japonicus. *Gene*, 270(1-2), 237-243. doi:10.1016/S0378-1119(01)00470-X  
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25. **Marini, A. M.**, Matassi, G., Raynal, V., André, B., Cartron, J. P., & Chérif-Zahar, B. (2000, novembre). The human Rhesus-associated RhAG protein and a kidney homologue promote ammonium transport in yeast. *Nature genetics*, 26(3), 341-344. doi:10.1038/81656
26. **Marini, A. M.**, & André, B. (2000, novembre). In vivo N-glycosylation of the mep2 high-affinity ammonium transporter of Saccharomyces cerevisiae reveals an extracytosolic N-terminus. *Molecular microbiology*, 38(3), 552-564. doi:10.1046/j.1365-2958.2000.02151.x
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28. **Marini, A. M.**, Soussi-Boudekou, S., Vissers, S., & André, B. (1997, août). A family of ammonium transporters in Saccharomyces cerevisiae. *Molecular and cellular biology*, 17(8), 4282-4293.  
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29. **Marini, A. M.**, Urrestarazu, A., Beauwens, R., & André, B. (1997). The Rh (Rhesus) blood group polypeptides are related to NH<sub>4</sub><sup>+</sup> transporters. *Trends in biochemical sciences*, 22, 460-461. doi:10.1016/S0968-0004(97)01132-8

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