Publications de la plateforme analytique de l'UMR SVQV 2008-2025 (revues internationales à comité de lecture)

- Tavernier F. et al. (2025) The single-berry metabolomic clock paradigm reveals new stages and metabolic switches during grapevine berry development. Journal of Experimental Botany eraf038, https://doi.org/10.1093/jxb/eraf038
- Louis A. *et al.* (2025) Green Extraction Method: Microwave-Assisted Water Extraction Followed by HILIC-HRMS Analysis to Quantify Hydrophilic Compounds in Plants. *Metabolites* 15, 223. https://doi.org/10.3390/metabo15040223
- Verdier M. *et al.* (2024) The Turnip Yellows Virus Capsid Protein Promotes Access of Its Main Aphid Vector Myzus persicae to Phloem Tissues. *Plant, Cell and Environment*. <u>https://doi.org/10.1111/pce.15303</u>
- Claudel P. *et al.* (2024) A test-tube vinification method for high-throughput characterisation of the oenological and aromatic potential of white wines. *OENO One* 58 (1). <u>https://doi.org/10.20870/oeno-one.2024.58.1.7698</u>
- Leschevin M. *et al.* (2024) Photosystem rearrangements, photosynthetic efficiency, and plant growth in far red-enriched light. *Plant Journal* 120(6): 2536-2552. <u>https://doi.org/10.1111/tpj.17127</u>
- Brulé D. et al. (2024) Increasing vineyard sustainability: innovating a targeted chitosan-derived biocontrol solution to induce grapevine resistance against downy and powdery mildews. Front Plant Sci. 15: 1360254 https://doi.org/10.3389/fpls.2024.1360254
- Djennane S. *et al.* (2024) CRISPR/Cas9 editing of Downy mildew resistant 6 (DMR6-1) in grapevine leads to reduced susceptibility to Plasmopara viticola. *Journal of Experimental Botany* 75(7): 2100-2112. https://doi.org/10.1093/jxb/erad487
- Krieger C. *et al.* (2023) An Aphid-Transmitted Virus Reduces the Host Plant Response to Its Vector to Promote Its Transmission. *Phytopathology* 113(9): 1745-1760. <u>https://doi.org/10.1094/PHYTO-12-22-0454-Fl</u>
- Platel, R. *et al.* (2023) Deciphering immune responses primed by a bacterial lipopeptide in wheat towards Zymoseptoria tritici. *Front Plant Sci.* 13, 1074447. <u>https://doi.org/10.3389/fpls.2022.1074447</u>
- Olazcuaga, L. *et al.* (2023) Metabolic consequences of various fruit-based diets in a generalist insect species. *eLife* 12, e84370. <u>https://doi.org/10.7554/elife.84370</u>
- Koutouan, C. et al. (2023) Co-Localization of Resistance and Metabolic Quantitative Trait Loci on Carrot Genome Reveals Fungitoxic Terpenes and Related Candidate Genes Associated with the Resistance to Alternaria dauci. *Metabolites* 13, 71. <u>https://doi.org/10.3390/metabo13010071</u>
- Flubacher, N. et al. (2023) The fungal metabolite 4-hydroxyphenylacetic acid from Neofusicoccum parvum modulates defence responses in grapevine. *Plant, Cell and Environment* 46(11): 3575-3591. <u>https://doi.org/10.1111/pce.14670</u>
- Rodrigues, M. *et al.* (2023) Metabolic and Molecular Rearrangements of Sauvignon Blanc (Vitis vinifera L.) Berries in Response to Foliar Applications of Specific Dry Yeast. *Plants*, 12, 3423. https://doi.org/10.3390/plants12193423
- Zhang C. *et al.* (2023) MYB24 orchestrates terpene and flavonol metabolism as light responses to anthocyanin depletion in variegated grape berries. **Plant Cell** 35(12): 4238-4265. https://doi.org/10.1093/plcell/koad228
- Allario, T. *et al.* (2023) Analysis of defense-related gene expression and leaf metabolome in wheat during the early infection stages of Blumeria graminis f.sp. tritici. *Phytopathology* . <u>https://doi.org:10.1094/phyto-10-22-0364-r</u>
- Schilling, M. et al. (2022) Wood degradation by Fomitiporia mediterranea M. Fischer: Physiologic, metabolomic and proteomic approaches. Front Plant Sci. 13, 988709. https://doi.org:10.3389/fpls.2022.988709
- Platel, R. et al. (2022) Bioinspired Rhamnolipid Protects Wheat Against Zymoseptoria tritici Through Mainly Direct Antifungal Activity and Without Major Impact on Leaf Physiology. Front Plant Sci. 13, 878272. <u>https://doi.org:10.3389/fpls.2022.878272</u>

- Negrel, L. *et al.* (2022) Comparative Metabolomic Analysis of Four Fabaceae and Relationship to In Vitro Nematicidal Activity against Xiphinema index. *Molecules* 27, 3052. <u>https://doi.org:10.3390/molecules27103052</u>
- Koschmieder, J. *et al.* (2022) Color recycling: metabolization of apocarotenoid degradation products suggests carbon regeneration via primary metabolic pathways. *Plant Cell Reports* 41, 961 977. https://doi.org;10.1007/s00299-022-02831-8
- de Borba, M. et al. (2022) A Laminarin-Based Formulation Protects Wheat Against Zymoseptoria tritici via Direct Antifungal Activity and Elicitation of Host Defense-Related Genes. *Plant Disease* 106, 1408-1418. <u>https://doi.org:10.1094/pdis-08-21-1675-re</u>
- Martin, I. R. *et al.* (2021) Severe Stunting Symptoms upon Nepovirus Infection Are Reminiscent of a Chronic Hypersensitive-like Response in a Perennial Woody Fruit Crop. *Viruses* 13, 2138. <u>https://doi.org:10.3390/v13112138</u>
- de Borba, M. C. et al. (2021)The Algal Polysaccharide Ulvan Induces Resistance in Wheat Against Zymoseptoria tritici Without Major Alteration of Leaf Metabolome. Front Plant Sci. 12, 703712. <u>https://doi.org:10.3389/fpls.2021.703712</u>
- Sun, P. *et al.* (2020) Functional diversification in the Nudix hydrolase gene family drives sesquiterpene biosynthesis in Rosa × wichurana. *Plant Journal* 104, 185-199. <u>https://doi.org:10.1111/tpj.14916</u>
- Koschmieder, J. *et al.* (2020) Plant apocarotenoid metabolism utilizes defense mechanisms against reactive carbonyl species and xenobiotics. *Plant Physiology* 185, 331-351. <u>https://doi.org/10.1093/plphys/kiaa033</u>
- Koutouan, C. *et al.* (2019) Carrot resistance against Alternaria leaf blight: potential involvement of terpenes and flavonoids. *Acta Horticulturae*, 191-198. <u>https://doi.org/10.17660/ActaHortic.2019.1264.23</u>
- Plomion, C. et al. (2018) Oak genome reveals facets of long lifespan. Nature Plants 4, 440-452. https://doi.org/10.1038/s41477-018-0172-3
- Negrel, L. *et al.* (2018) Identification of lipid markers of Plasmopara viticola infection in grapevine using a nontargeted metabolomic approach. *Front Plant Sci.* 9, 1-11. <u>https://doi.org/10.3389/fpls.2018.00360</u>
- Koutouan, C. *et al.* (2018) Link between carrot leaf secondary metabolites and resistance to Alternaria dauci. *Scientific Reports* 8, 13746. <u>https://doi.org/10.1038/s41598-018-31700-2</u>
- Ilc, T. et al. (2018) Annotation, classification, genomic organization and expression of the Vitis vinifera CYPome. PLoS ONE 13, e0199902. <u>https://doi.org/10.1371/journal.pone.0199902</u>
- Claudel, P. et al. (2018) The Aphid-Transmitted Turnip yellows virus Differentially Affects Volatiles Emission and Subsequent Vector Behavior in Two Brassicaceae Plants. International Journal of Molecular Sciences 19. <u>https://doi.org/10.3390/ijms19082316</u>
- Akaberi, S. *et al.* (2018) Grapevine fatty acid hydroperoxide lyase generates actin-disrupting volatiles and promotes defence-related cell death. *Journal of Experimental Botany* 69, 2883-2896. https://doi.org/10.1093/jxb/ery133
- Ilc, T. et al. (2017) A grapevine cytochrome P450 generates the precursor of wine lactone, a key odorant in wine. New Phytologist 213, 264-274. <u>https://doi.org/10.1111/nph.14139</u>
- Sun, P. *et al.* (2016) My way: noncanonical biosynthesis pathways for plant volatiles. *Trends in Plant Science* 21, 884-894. <u>https://doi.org/10.1016/j.tplants.2016.07.007</u>
- Koechler, S. *et al.* (2016) Arsenite response in Coccomyxa sp. Carn explored by transcriptomic and nontargeted metabolomic approaches. *Environmental Microbiology* 18, 1289--1300. <u>https://doi.org/10.1111/1462-2920.13227</u>
- Magnard, J.-L. *et al.* (2015) Biosynthesis of monoterpene scent compounds in roses. *Science* 349, 81-83. <u>https://doi.org/10.1126/science.aab0696</u>
- Duan, D. *et al.* (2015) Genetic diversity of stilbene metabolism in Vitis sylvestris. *Journal of Experimental Botany* 66, 3243-3257. <u>https://doi.org:10.1093/jxb/erv137</u>

- Guillaumie, S. *et al.* (2013) Genetic analysis of the biosynthesis of 2-methoxy-3-isobutylpyrazine, a major grape-derived aroma compound impacting wine quality. *Plant Physiology* 162, 604-615. https://doi.org/10.1104/pp.113.218313
- Fischer, M. *et al.* (2013) Determination of amino-acidic positions important for Ocimum basilicum geraniol synthase activity. *Advances in Bioscience and Biotechnology* 2013, 242-249. http://dx.doi.org/10.4236/abb.2013.42033
- Fischer, M. et al. (2013) Specificity of Ocimum basilicum geraniol synthase modified by its expression in different heterologous systems. Journal of Biotechnology 163, 24-29. https://doi.org/10.1016/j.jbiotec.2012.10.012
- Parage, C. et al. (2012) Structural, Functional, and Evolutionary Analysis of the Unusually Large Stilbene Synthase Gene Family in Grapevine. *Plant Physiology* 160, 1407-1419. https://doi.org/10.1104/pp.112.202705
- Fournier-Level, A. *et al.* (2011) Genetic mechanisms underlying the methylation level of anthocyanins in grape (Vitis vinifera L.). *BMC Plant Biology* 11, 1-14. <u>https://doi.org/10.1186/1471-2229-11-179</u>
- Hugueney, P. *et al.* (2009) A novel cation-dependent o-methyltransferase involved in anthocyanin methylation in grapevine. *Plant Physiology* 150, 2057-2070. <u>https://doi.org/10.1104/pp.109.140376</u>
- Chong J. et al. (2009) Metabolism and roles of stilbenes in plants. Plant Science 177, 143-155. https://doi.org/10.1016/j.plantsci.2009.05.012
- Schmidlin, L. *et al.* (2008) A stress-inducible resveratrol O-methyltransferase involved in the biosynthesis of pterostilbene in grapevine. *Plant Physiology* 148, 1630–1639. <u>https://doi.org/10.1104/pp.108.126003</u>
- Scalliet, G. *et al.* (2008) Scent evolution in Chinese roses. *Proceedings of the National Academy of Sciences of the United States of America* 105, 5927-5932. <u>https://doi.org/10.1073/pnas.0711551105</u>