

Publications de la plateforme analytique de l'UMR SVQV

(revues internationales à comité de lecture)

- Verdier M. *et al.* The Turnip Yellow Virus Capsid Protein Promotes Access of Its Main Aphid Vector *Myzus persicae* to Phloem Tissues. ***Plant, Cell and Environment*** (2024). <https://doi.org/10.1111/pce.15303>
- Claudel P. *et al.* A test-tube vinification method for high-throughput characterisation of the oenological and aromatic potential of white wines. ***OENO One*** 58 (1) (2024). <https://doi.org/10.20870/oenone.2024.58.1.7698>
- Leschevin M. *et al.* Photosystem rearrangements, photosynthetic efficiency, and plant growth in far red-enriched light. ***Plant Journal*** 120(6): 2536-2552 (2024). <https://doi.org/10.1111/tpj.17127>
- Brulé D. *et al.* Increasing vineyard sustainability: innovating a targeted chitosan-derived biocontrol solution to induce grapevine resistance against downy and powdery mildews. ***Front Plant Sci.*** 15: 1360254 (2024). <https://doi.org/10.3389/fpls.2024.1360254>
- Djennane S. *et al.* 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 (2024). <https://doi.org/10.1093/jxb/erad487>
- Krieger C. *et al.* An Aphid-Transmitted Virus Reduces the Host Plant Response to Its Vector to Promote Its Transmission. ***Phytopathology*** 113(9): 1745-1760 (2023). <https://doi.org/10.1094/PHTO-12-22-0454-FI>
- Platel, R. *et al.* Deciphering immune responses primed by a bacterial lipopeptide in wheat towards *Zymoseptoria tritici*. ***Front Plant Sci.*** 13, 1074447 (2023). <https://doi.org/10.3389/fpls.2022.1074447>
- Olazcuaga, L. *et al.* Metabolic consequences of various fruit-based diets in a generalist insect species. ***eLife*** 12, e84370 (2023). <https://doi.org/10.7554/elife.84370>
- Koutouan, C. *et al.* 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 (2023). <https://doi.org/10.3390/metabo13010071>
- Flubacher, N. *et al.* The fungal metabolite 4-hydroxyphenylacetic acid from *Neofusicoccum parvum* modulates defence responses in grapevine. ***Plant, Cell and Environment*** 46(11): 3575-3591 (2023). <https://doi.org/10.1111/pce.14670>
- 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.* MYB24 orchestrates terpene and flavonol metabolism as light responses to anthocyanin depletion in variegated grape berries. ***Plant Cell*** 35(12): 4238-4265 (2023). <https://doi.org/10.1093/plcell/koad228>
- Allario, T. *et al.* Analysis of defense-related gene expression and leaf metabolome in wheat during the early infection stages of *Blumeria graminis* f.sp. *tritici*. ***Phytopathology*** (2023). <https://doi.org/10.1094/phyto-10-22-0364-r>

- Schilling, M. *et al.* Wood degradation by *Fomitiporia mediterranea* M. Fischer: Physiologic, metabolomic and proteomic approaches. *Front Plant Sci.* 13, 988709 (2022). <https://doi.org:10.3389/fpls.2022.988709>
- Platel, R. *et al.* Bioinspired Rhamnolipid Protects Wheat Against *Zymoseptoria tritici* Through Mainly Direct Antifungal Activity and Without Major Impact on Leaf Physiology. *Front Plant Sci.* 13, 878272 (2022). <https://doi.org:10.3389/fpls.2022.878272>
- Negrel, L. *et al.* Comparative Metabolomic Analysis of Four Fabaceae and Relationship to In Vitro Nematicidal Activity against *Xiphinema index*. *Molecules* 27, 3052 (2022). <https://doi.org:10.3390/molecules27103052>
- Koschmieder, J. *et al.* Color recycling: metabolization of apocarotenoid degradation products suggests carbon regeneration via primary metabolic pathways. *Plant Cell Reports* 41, 961 - 977 (2022). <https://doi.org:10.1007/s00299-022-02831-8>
- de Borba, M. *et al.* 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 (2022). <https://doi.org:10.1094/pdis-08-21-1675-re>
- Martin, I. R. *et al.* Severe Stunting Symptoms upon Nepovirus Infection Are Reminiscent of a Chronic Hypersensitive-like Response in a Perennial Woody Fruit Crop. *Viruses* 13, 2138 (2021). <https://doi.org:10.3390/v13112138>
- de Borba, M. C. *et al.* The Algal Polysaccharide Ulvan Induces Resistance in Wheat Against *Zymoseptoria tritici* Without Major Alteration of Leaf Metabolome. *Front Plant Sci.* 12, 703712 (2021). <https://doi.org:10.3389/fpls.2021.703712>
- Sun, P. *et al.* Functional diversification in the Nudix hydrolase gene family drives sesquiterpene biosynthesis in *Rosa × wichurana*. *Plant Journal* 104, 185-199 (2020). <https://doi.org:10.1111/tpj.14916>
- Koschmieder, J. *et al.* Plant apocarotenoid metabolism utilizes defense mechanisms against reactive carbonyl species and xenobiotics. *Plant Physiology* 185, 331-351 (2020). <https://doi.org/10.1093/plphys/kiaa033>
- Koutouan, C. *et al.* Carrot resistance against *Alternaria* leaf blight: potential involvement of terpenes and flavonoids. *Acta Horticulturae*, 191-198 (2019). <https://doi.org/10.17660/ActaHortic.2019.1264.23>
- Plomion, C. *et al.* Oak genome reveals facets of long lifespan. *Nature Plants* 4, 440-452 (2018). <https://doi.org/10.1038/s41477-018-0172-3>
- Negrel, L. *et al.* Identification of lipid markers of *Plasmopara viticola* infection in grapevine using a non-targeted metabolomic approach. *Front Plant Sci.* 9, 1-11 (2018). <https://doi.org/10.3389/fpls.2018.00360>
- Koutouan, C. *et al.* Link between carrot leaf secondary metabolites and resistance to *Alternaria dauci*. *Scientific Reports* 8, 13746 (2018). <https://doi.org/10.1038/s41598-018-31700-2>
- Ilc, T. *et al.* Annotation, classification, genomic organization and expression of the *Vitis vinifera* CYPome. *PLoS ONE* 13, e0199902 (2018). <https://doi.org/10.1371/journal.pone.0199902>
- Claudel, P. *et al.* The Aphid-Transmitted Turnip yellows virus Differentially Affects Volatiles Emission and Subsequent Vector Behavior in Two Brassicaceae Plants. *International Journal of Molecular Sciences* 19 (2018). <https://doi.org/10.3390/ijms19082316>

- Akaberi, S. *et al.* Grapevine fatty acid hydroperoxide lyase generates actin-disrupting volatiles and promotes defence-related cell death. *Journal of Experimental Botany* 69, 2883-2896 (2018). <https://doi.org/10.1093/jxb/ery133>
- Ilc, T. *et al.* A grapevine cytochrome P450 generates the precursor of wine lactone, a key odorant in wine. *New Phytologist* 213, 264-274 (2017). <https://doi.org/10.1111/nph.14139>
- Sun, P. *et al.* My way: noncanonical biosynthesis pathways for plant volatiles. *Trends in Plant Science* 21, 884-894 (2016). <https://doi.org/10.1016/j.tplants.2016.07.007>
- Koechler, S. *et al.* Arsenite response in *Coccomyxa* sp. Carn explored by transcriptomic and non-targeted metabolomic approaches. *Environmental Microbiology* 18, 1289-1300 (2016). <https://doi.org/10.1111/1462-2920.13227>
- Magnard, J.-L. *et al.* Biosynthesis of monoterpene scent compounds in roses. *Science* 349, 81-83 (2015). <https://doi.org/10.1126/science.aab0696>
- Duan, D. *et al.* Genetic diversity of stilbene metabolism in *Vitis sylvestris*. *Journal of Experimental Botany* 66, 3243-3257 (2015). <https://doi.org/10.1093/jxb/erv137>
- Guillaumie, S. *et al.* Genetic analysis of the biosynthesis of 2-methoxy-3-isobutylpyrazine, a major grape-derived aroma compound impacting wine quality. *Plant Physiology* 162, 604-615 (2013). <https://doi.org/10.1104/pp.113.218313>
- Fischer, M. *et al.* Determination of amino-acidic positions important for *Ocimum basilicum* geraniol synthase activity. *Advances in Bioscience and Biotechnology* 2013, 242-249 (2013). <http://dx.doi.org/10.4236/abb.2013.42033>
- Fischer, M. *et al.* Specificity of *Ocimum basilicum* geraniol synthase modified by its expression in different heterologous systems. *Journal of Biotechnology* 163, 24-29 (2013). <https://doi.org/10.1016/j.jbiotec.2012.10.012>
- Parage, C. *et al.* Structural, Functional, and Evolutionary Analysis of the Unusually Large Stilbene Synthase Gene Family in Grapevine. *Plant Physiology* 160, 1407-1419 (2012). <https://doi.org/10.1104/pp.112.202705>
- Fournier-Level, A. *et al.* Genetic mechanisms underlying the methylation level of anthocyanins in grape (*Vitis vinifera* L.). *BMC Plant Biology* 11, 1-14 (2011). <https://doi.org/10.1186/1471-2229-11-179>
- Hugueney, P. *et al.* A novel cation-dependent o-methyltransferase involved in anthocyanin methylation in grapevine. *Plant Physiology* 150, 2057-2070 (2009). <https://doi.org/10.1104/pp.109.140376>
- Chong, J., Poutaraud, A. & Hugueney, P. Metabolism and roles of stilbenes in plants. *Plant Science* 177, 143-155 (2009). <https://doi.org/10.1016/j.plantsci.2009.05.012>
- Schmidlin, L. *et al.* A stress-inducible resveratrol O-methyltransferase involved in the biosynthesis of pterostilbene in grapevine. *Plant Physiology* 148, 1630-1639 (2008). <https://doi.org/10.1104/pp.108.126003>
- Scalliet, G. *et al.* Scent evolution in Chinese roses. *Proceedings of the National Academy of Sciences of the United States of America* 105, 5927-5932 (2008). <https://doi.org/10.1073/pnas.0711551105>