**SUPPLEMENTARY DATA**
Larrey, M., Tandonnet, J.-P., Saint Cast, C., Cookson, S. J., & Vivin, P. (2025). Exploring how graft length shapes root system architecture and morphology in grapevine rootstocks. *OENO One*, *59*(1).
https://doi.org/10.20870/oeno-one.2025.59.1.8226

# SUPPLEMENTARY DATA

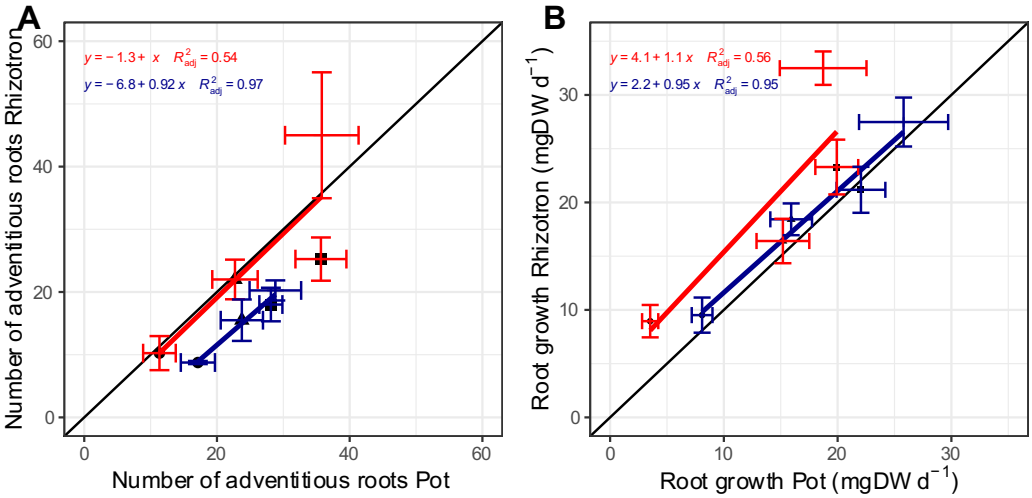



**Figure S1. Relationships between root traits measured on grafted grapevines of *Vitis vinifera* cv. Cabernet-Sauvignon grafted onto four lengths of *V. riparia* cv. Riparia Gloire de Montpellier (RGM, blue) and the *V. berlandieri* × *V. rupestris* hybrid cv. 1103 Paulsen (1103P, red) after one month of growth in pots and rhizotrons.**

(A) total first-order root number and (B) total root dry mass.

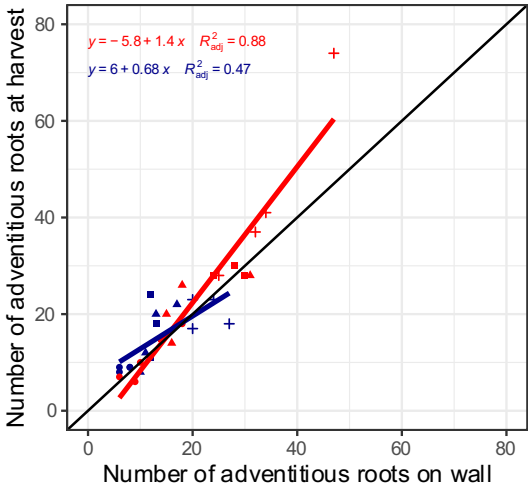



**Figure S2. Relationship between the number of first-order roots observed on the rhizotron wall the day before harvest and those counted during the destructive harvest in *Vitis vinifera* cv. Cabernet-Sauvignon grafted onto four lengths of *V. riparia* cv. Riparia Gloire de Montpellier (RGM, blue) and the *V. berlandieri* × *V. rupestris* hybrid cv. 1103 Paulsen (1103P, red).**

Rootstock length: 8 (circles), 20 (triangles), 30 (squares) and 50 cm (crosses).

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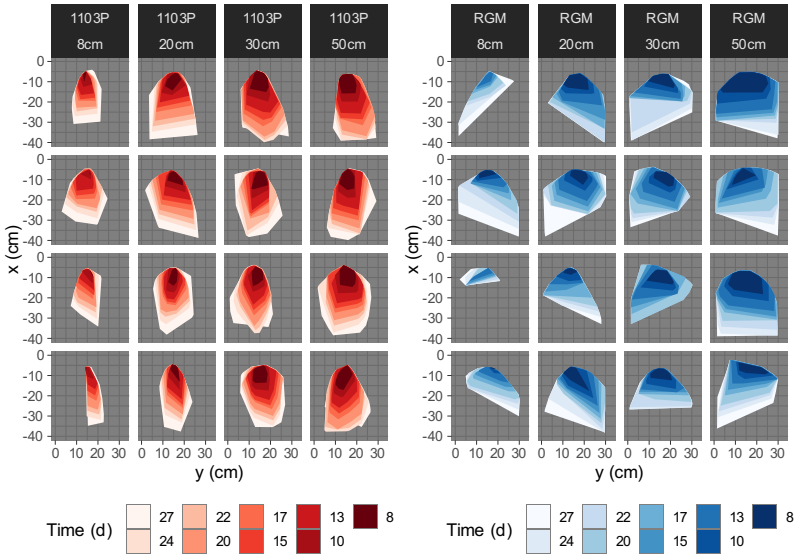



**Figure S3. Changes in time of the convex hull area of individual root systems of *Vitis vinifera* cv. Cabernet-Sauvignon grafted onto four lengths of *V. riparia* cv. Riparia Gloire de Montpellier (RGM, blue) and the *V. berlandieri* × *V. rupestris* hybrid cv. 1103 Paulsen (1103P, red) grown for 30 d in rhizotrons.**

The colour scale indicates root system size at different dates post-planting.

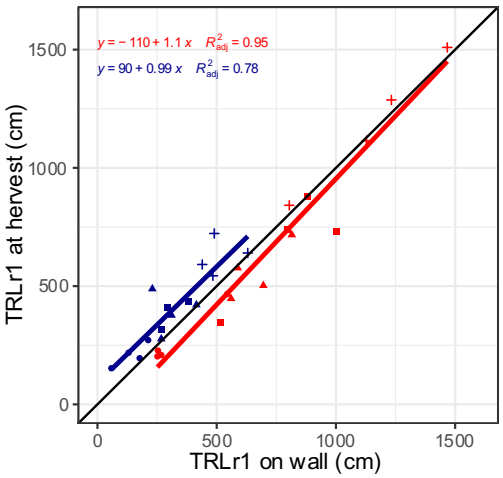



**Figure S4. Relationship between total first-order root length (TRLr1) estimated on the rhizotron wall the day before harvest and TRLr1 measured during the destructive harvest in *Vitis vinifera* cv. Cabernet-Sauvignon grafted four varying lengths of *V. riparia* cv. Riparia Gloire de Montpellier (RGM, blue) and the *V. berlandieri* × *V. rupestris* hybrid cv. 1103 Paulsen (1103P, red).**

Rootstock length: 8 (circles), 20 (triangles), 30 (squares) and 50 cm (crosses)

## Table S1. Statistics describing groups of post-hoc ANOVA results, at different sampling times.

| | | 1103P | | | | RGM | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Traits** | **Figure** | **8 cm** | **20 cm** | **30 cm** | **50 cm** | **8 cm** | **20 cm** | **30 cm** | **50 cm** |
| SDW 35d | 2B | c | bc | b | a | C | B | B | A |
| SDW 85d | 2B | c | c | b | a | C | B | A | A |
| SDW 112d | 2B | c | b | b | a | C | B | B | A |
| RDW 35d | 2B | a | b | b | b | A | B | BC | C |
| RDW 85d | 2B | a | ab | b | b | A | B | C | BC |
| RDW 112d | 2B | a | b | b | c | A | B | B | C |
| RMF 35d | 2C | a | a | a | a | A | A | A | A |
| RMF 85d | 2C | a | a | b | b | A | A | A | A |
| RMF 112d | 2C | a | a | a | a | A | A | A | A |
| SRL 35d | 2D | a | b | b | b | A | A | A | A |
| SRL 85d | 2D | a | a | a | a | A | A | A | A |
| SRL 112d | 2D | a | a | a | a | A | A | A | A |
| Nr 8d | 4A | c | bc | ab | a | B | B | B | A |
| Nr 10d | 4A | c | b | b | a | C | B | B | A |
| Nr 13d | 4A | c | bc | ab | a | C | B | B | A |
| Nr 15d | 4A | c | bc | ab | a | C | B | B | A |
| Nr 17d | 4A | c | bc | ab | a | C | B | B | A |
| Nr 20d | 4A | c | bc | ab | a | C | B | B | A |
| Nr 22d | 4A | c | bc | ab | a | C | B | B | A |
| Nr 24d | 4A | c | bc | b | a | C | B | B | A |
| Nr 27d | 4A | b | b | ab | a | C | B | B | A |
| TRLr1 8d | 5A | b | b | a | a | A | A | A | A |
| TRLr1 10d | 5A | d | c | b | a | B | B | B | A |
| TRLr1 13d | 5A | c | b | b | a | C | B | B | A |
| TRLr1 15d | 5A | c | b | b | a | C | B | B | A |
| TRLr1 17d | 5A | c | bc | b | a | C | B | B | A |
| TRLr1 20d | 5A | c | bc | b | a | C | B | B | A |
| TRLr1 22d | 5A | c | bc | b | a | C | B | B | A |
| TRLr1 24d | 5A | c | b | b | a | C | B | B | A |
| TRLr1 27d | 5A | c | b | b | a | C | B | B | A |
| CHA 8d | 5B | c | b | a | a | A | A | A | A |
| CHA 10d | 5B | c | b | a | a | B | AB | AB | A |
| CHA 13d | 5B | c | b | a | a | B | AB | AB | A |
| CHA 15d | 5B | c | b | a | a | B | A | A | A |
| CHA 17d | 5B | c | b | ab | a | B | A | A | A |
| CHA 20d | 5B | c | b | ab | a | B | A | A | A |
| CHA 22d | 5B | c | b | ab | a | B | A | A | A |
| CHA 24d | 5B | c | b | ab | a | B | AB | AB | A |
| CHA 27d | 5B | b | a | a | a | B | AB | AB | A |
| MRD 8d | 5C | c | b | ab | a | B | AB | AB | A |
| MRD 10d | 5C | c | b | a | a | B | A | A | A |
| MRD 13d | 5C | c | b | a | a | B | A | A | A |
| MRD 15d | 5C | c | b | a | a | B | A | A | A |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| MRD 17d | 5C | c | b | a | a | B | A | AB | A |
| MRD 20d | 5C | c | b | a | a | A | A | A | A |
| MRD 22d | 5C | c | b | a | a | A | A | A | A |
| MRD 24d | 5C | c | b | a | a | A | A | A | A |
| MRD 27d | 5C | b | a | a | a | A | A | A | A |
| MRW 8d | 5D | b | a | a | a | B | AB | AB | A |
| MRW 10d | 5D | b | a | a | a | B | A | A | A |
| MRW 13d | 5D | b | a | a | a | C | B | AB | A |
| MRW 15d | 5D | b | a | a | a | C | B | AB | A |
| MRW 17d | 5D | b | a | a | a | B | A | A | A |
| MRW 20d | 5D | b | a | a | a | B | A | A | A |
| MRW 22d | 5D | b | a | a | a | B | AB | A | A |
| MRW 24d | 5D | b | a | a | a | AB | AB | A | A |
| MRW 27d | 5D | b | a | a | a | A | A | A | A |

*Vitis vinifera* cv. Cabernet-Sauvignon was grafted onto varying lengths of *V. riparia* cv. Riparia Gloire de Montpellier (RGM) and the *V. berlandieri* × *V. rupestris* hybrid cv. 1103 Paulsen (1103P). Results of post-hoc SNK.test on a one-way ANOVA (with rootstock length as the factor).