

SUPPLEMENTARY DATA

Gautier, A., Cookson, S. J., Lagalle, L., Ollat, N., & Marguerit, E. (2020). Influence of the three main genetic backgrounds of grapevine rootstocks on petiolar nutrient concentrations of the scion, with a focus on phosphorus. *OENO One*, 54(1). <https://doi.org/10.20870/oeno-one.2020.54.1.2458>

Supplementary Table 1. Rootstocks used in the present study

The full name, abbreviation, genetic background (Galet, 1988) and vigour conferred to the scion (Cordeau, 1998; Bettiga, 2003) are presented for each rootstock.

Rootstock	Abbreviation	Genetic background	Genetic background colour code (at least 50%)	Vigour conferred
Riparia Gloire de Montpellier	RGM	<i>V. riparia</i>	<i>riparia</i>	Weak
3309 Couderc	3309C	<i>V. riparia</i> tomentoux × <i>V. rupestris</i> Martin	<i>riparia-rupestris</i>	Weak to medium
101-14 Millardet et de Grasset	101-14MGt	<i>V. riparia</i> × <i>V. rupestris</i>	<i>riparia-rupestris</i>	Medium
420 A	420A	<i>V. berlandieri</i> × <i>V. riparia</i>	<i>riparia-berlandieri</i>	Weak to medium
Teleki n°4 -SO4-	SO4	<i>V. berlandieri</i> × <i>V. riparia</i>	<i>riparia-berlandieri</i>	Weak to medium
44-53 Mallègue	44-53M	<i>V. riparia</i> cv. Grand glabre × 144 Malègue (<i>V. cordifolia</i> × <i>V. rupestris</i>)	<i>riparia-other</i>	Medium
Gravesac	Gravesac	161-49 Couderc (<i>V. riparia</i> × <i>V. berlandieri</i>) × 3309 Couderc	<i>riparia-other</i>	Medium to vigorous
Freedom	Freedom	1 613 Couderc (<i>V. longii</i> × Othello) × Dog Ridge	Other	Vigorous
Dog Ridge	Dog ridge	<i>V. rupestris</i> Scheele × <i>V. candicans</i> Engelmann	<i>rupestris-other</i>	Highly vigorous
Rupestris du Lot	Rupestris	<i>V. rupestris</i>	<i>rupestris</i>	Vigorous
1 103 Paulsen	1103P	<i>V. berlandieri</i> Rességuier n°2 × <i>V. rupestris</i> du Lot	<i>berlandieri-rupestris</i>	Highly vigorous
110 Richter	110R	<i>V. berlandieri</i> Rességuier n°2 × <i>V. rupestris</i> Martin	<i>berlandieri-rupestris</i>	Vigorous
41 B Millardet et de Grasset	41B	<i>V. vinifera</i> Chasselas × <i>V. berlandieri</i>	<i>berlandieri-other</i>	Medium to vigorous

Supplementary Table 2. Properties of soil of the vineyard used in the experiment CEC, Cation Exchange Capacity, is the total capacity of a soil to retain exchangeable cations.

Soil characteristics

Density (T/m ³)	1.7
Clay % (< 2 µm)	7
Fine silt % (2-20 µm)	7
Coarse silt % (20-50 µm)	5
Fine sand % (50-200 µm)	13
Coarse sand % (200-2000 µm)	68

Nutritional statut

Organic matter (%)	1.77
Total nitrogen (%)	0.08
C/N ratio	12.8
P ₂ O ₅ (g/kg) - Joret Hébert	0.149
K ⁺ (cmol ⁺ /kg)	0.16
K/CEC (%)	5.1
Mg ²⁺ (cmol ⁺ /kg)	0.16
Mg/CEC (%)	5.0
Mn (mg/kg)	3.41

Chemical characteristics

pH	5.8
pH KCl	4.8
CaO (g/kg)	0.43
Cation Exchange Capacity (cmol ⁺ /kg)	3.2

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Supplementary Figure 1. Median soil pH values calculated in 2010 from 4.3 million samples from the USA (<http://www.croplnutrition.com/efu-soil-ph>), and the geographical origins of *Vitis riparia* (brown), *V. rupestris* (turquoise) and *Vitis berlandieri* (dark blue) (Galet, 1988; Galet and Smith, 1998).

