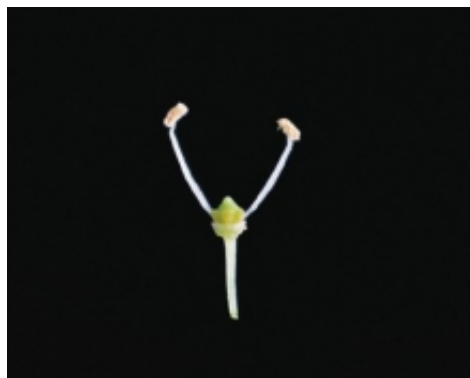




## 140 Ruggeri



### Name of vine variety in France (and common name)

140 Ruggeri (140 Ru)

### Breeder and year of obtention

Antonino Ruggeri, 1894

### Genetic origin

This variety is the result of crossbreeding *Vitis berlandieri* cv. Rösséguier number 2 and *Vitis rupestris* cv. Lot.

### Evolution of areas under rootstock nurseries

	1965	1975	1985	1995	2005	2015
ha	56	273	287	189	221	149

### Estimated surface area of French vineyards grafted with this rootstock and the

50 000 ha. Languedoc-Roussillon, Provence-Alpes-Côte d'Azur, Rhône-Alpes, Corsica, Charentes

### Ampelographic description

Identification signs include:

- the tips of the young shoot are half-opened and have a sparse coat of flat-lying hairs,
- the young leaves are slightly bronze and shiny,
- the shoot has horizontal growth, ribbed contour, a circular or slightly elliptical section with an absence of flat lying and upright hairs,
- adult leaves are moderate size, kidney shaped, whole, slightly upturned with a very coat of flat lying or upright hairs open tied down petiolar sinus; slight anthocyanin pigmentation of veins, moderate size teeth with convex sides, smooth leaf blade, shiny slightly undulated between the veins and the underside with an absence or a very sparse coat of flat lying and upright hairs
- flowers are male.

### Genetic profile

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 1	135	244	231	236	196	244	236	233	251

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 2	141	265	257	262	214	260	262	241	251

## Resistance to soil parasites

140 Ru displays good resistance to radicolae phylloxera. This root stock's resistance to the nematode *Meloidogyne arenaria* is high but is just moderate for the nematodes *Meloidogyne incognita*.

## Adapt to environment

140 Ru is characterized by its good adaptation to limestone soils and its high drought resistance. It resists up to 50% of total limestone, 20% of active limestone and a CPI of 90. 140 Ru absorbs magnesium well and is essentially suited to limestone, dry, lean, superficial and stony soils.

## Interaction with grafts and production objectives

140 Ru has a very high degree of vigor. This root stock has strong plant development and tends to delay the growing cycle. Blends with varieties which are very vigorous, like Grenache N, Sauvignon B, Sultanine B, Ugni blanc B and especially Mourvèdre N, should be reserved for exceptional situations. Blending with these varieties and with others like Caladoc N,

Carignan N, Marselan N, Négrette N, Tempranillo N and Syrah N, may create problems linked to developing large calluses or swelling of the grafts or bad joining at the graft point. The concerned plants redden in the autumn for black varieties and yellow white varieties due to poor vascularization between the root stock and the graft. They sometimes need to be replaced for young plantations.

## Aptitudes for plant propagation

140 Ru has moderate length internodes with a fairly large diameter. The growth of quick buds is moderate and wood production is low to medium. (25 000 to 60 000 m/ha). Care needs to be taken for the proper lignifying of the shoots and their conservation under good conditions. The aptitude for propagation by cuttings 140 Ru is low and grafting is moderate since the joining areas are weak and often too big. Particular attention must be paid during the stratification phase (length, hormoning) in order to avoid the formation of large calluses.

## Resistance to aerial parasites

140 Ru is sensitive to gallicolae phylloxera but is highly resistant to downy mildew and not very affected by anthracnosis.

## Clonal selection in France

The 10 approved 140 Ru clones carry the numbers 101, 200, 216, 217, 227, 229, 230, 265, 765 and 766.



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