

Collection and genetic characterization of wild grapevines from La Rioja (Spain) ...and beyond

Javier Tello

Instituto de Ciencias de la Vid y del Vino (ICVV)
Logroño, Spain

javier.tello@icvv.es



Kavala, 10 - 11 October 2023





Sylvestris: the ICVV experience

- ▶ XII International Symposium on Grapevine Breeding and Genetics
Landau (Germany), 10-15 July 2022

DNAs from *Vitis vinifera* ssp. *sylvestris* genotypes





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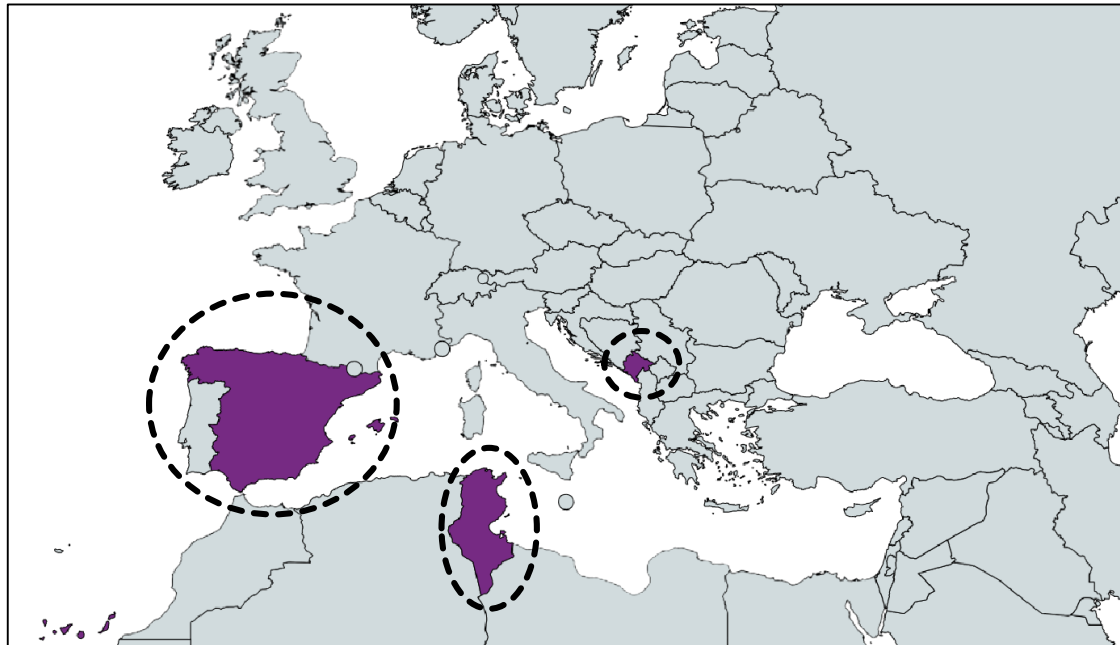
Sylvestris: the ICVV experience

- ▶ **219 *Vitis vinifera* ssp. *sylvestris* DNAs available at ICVV**

Tunisia: 30 DNAs (Ghaffari *et al.*, 2014)

Montenegro: 55 DNAs (Maraš *et al.*, 2020)

Spain: 134 DNAs



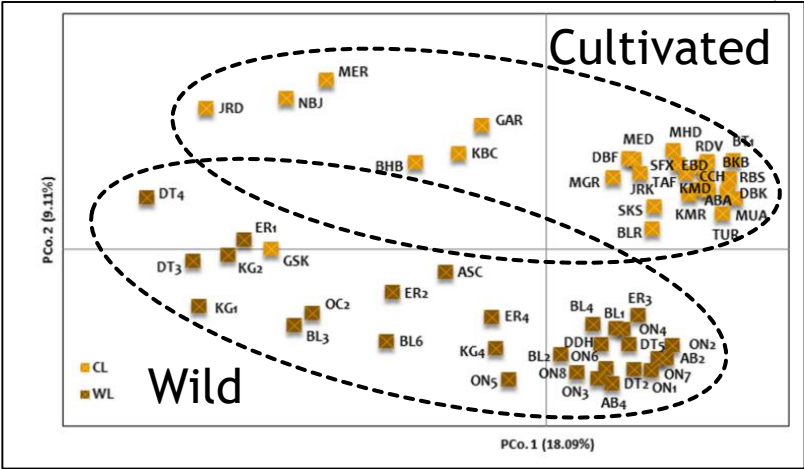


Sylvestris: the ICVV experience

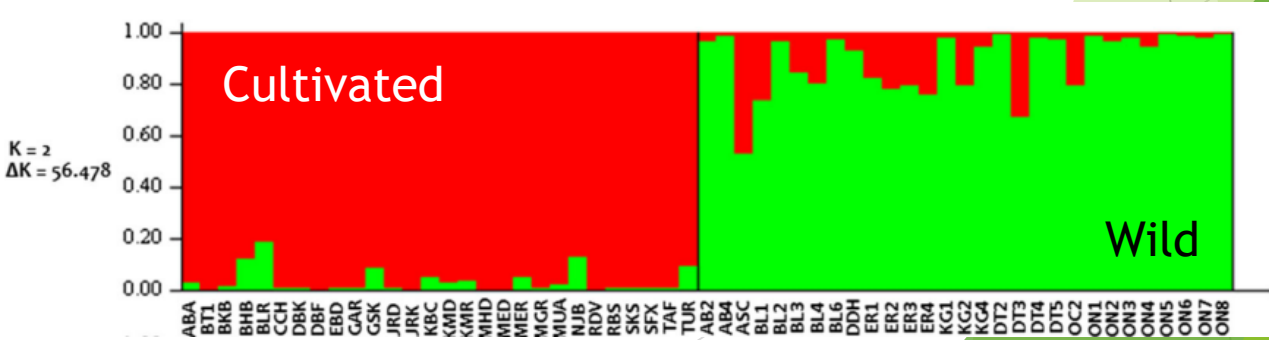
- ▶ 219 *Vitis vinifera* ssp. *sylvestris* DNAs available at ICVV
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240 SNPs



PCoA



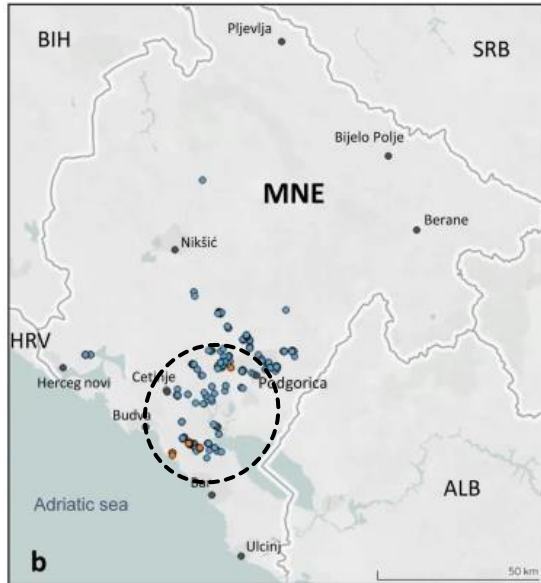
Genetic Structure



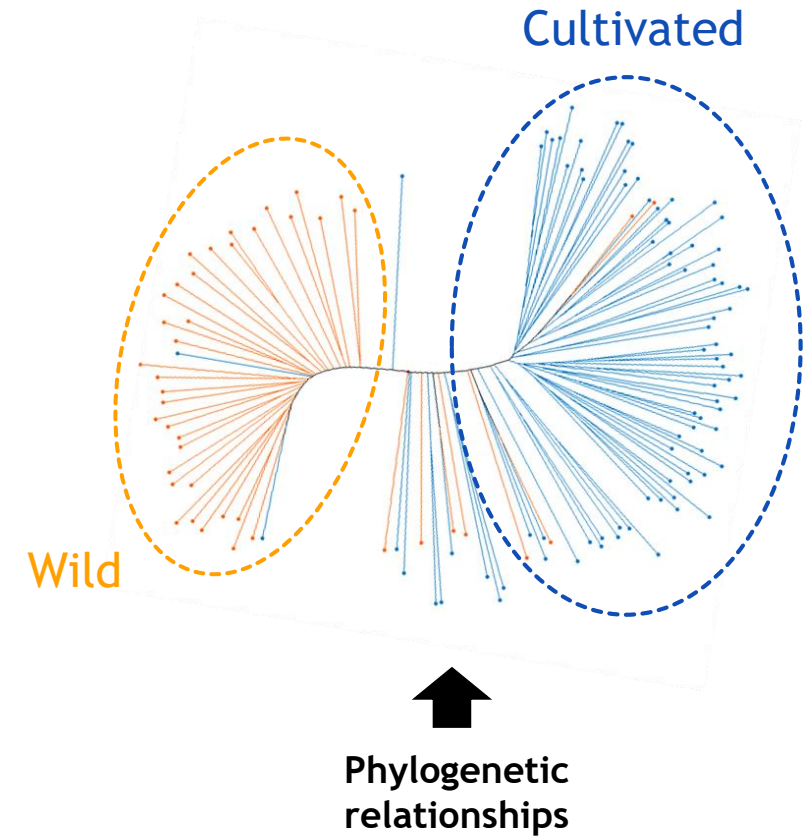
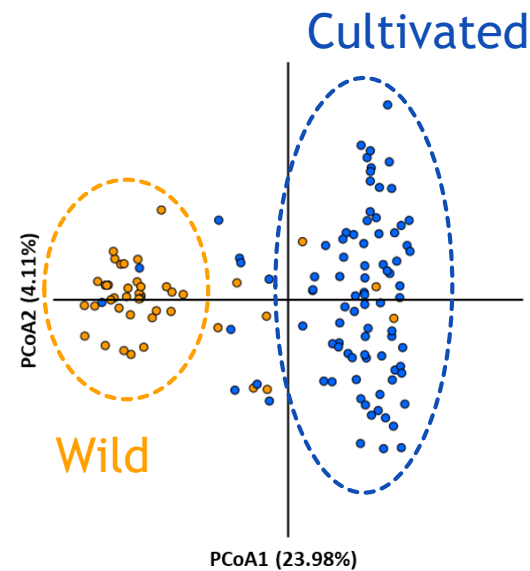


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evega



29

Asturias

55



La Rioja

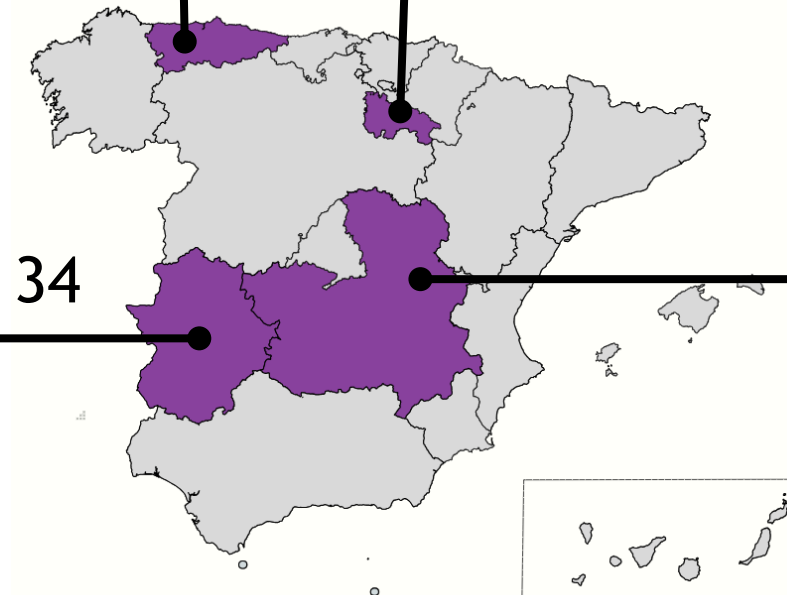


Extremadura

34

16

Castilla La Mancha





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evega



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Asturias

Loureiro et al., 2023

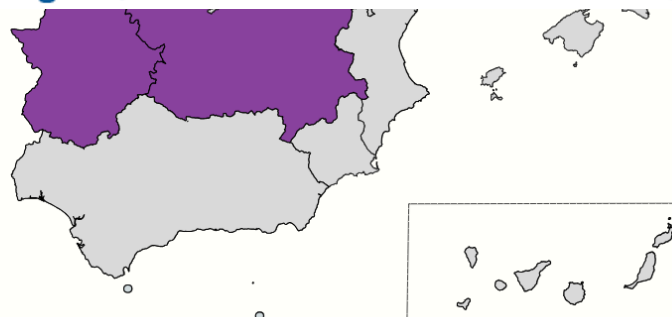
VITIS

Journal of Grapevine Research



M^a Dolores Loureiro¹, José Manuel Valle², Rafael Ocete³, M^a Ángeles López⁴, Carlos Alvar Ocete³, Álvaro Rodríguez-Miranda², José Miguel Martínez-Zapater³ and Javier Ibáñez^{3*}.

Current situation and characterization of the Eurasian wild grapevine in Asturias region (Northwest of the Iberian Peninsula)





Sylvestris: the ICVV experience

- ▶ 219 *Vitis vinifera* ssp. *sylvestris* DNAs available at ICVV

Spain: 134 DNAs





Sylvestris: the ICVV experience

- ▶ 219 *Vitis vinifera ssp. sylvestris* DNAs available at ICVV

Tello et al., work in progress

Prospection in 3 valleys

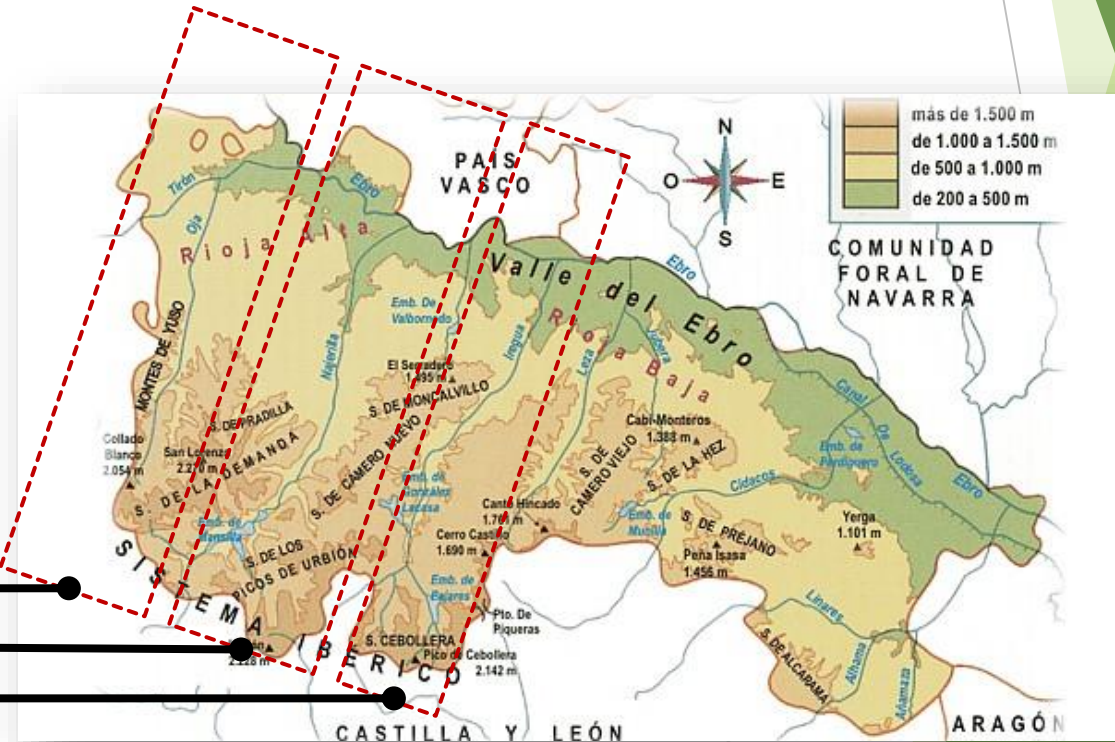
April - 2021

Collected as branches

Oja

Najerilla

Iregua





Sylvestris: the ICVV experience

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Tello et al., *work in progress*

| Valley | N Samples | N genotypes |
|-----------|-----------|-------------|
| Najerilla | 37 | 20 |
| Iregua | 43 | 36 |
| Oja | 3 | 2 |

83 samples → 58 genotypes

9 SSRs + 240 SNPs

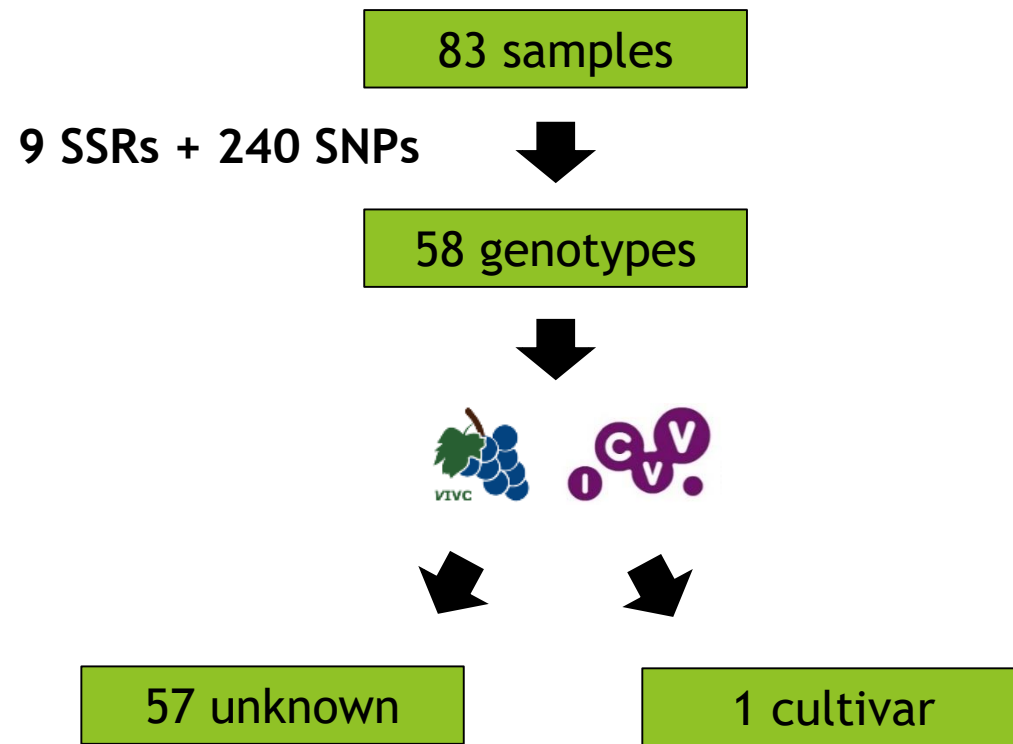




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Tello et al., *work in progress*

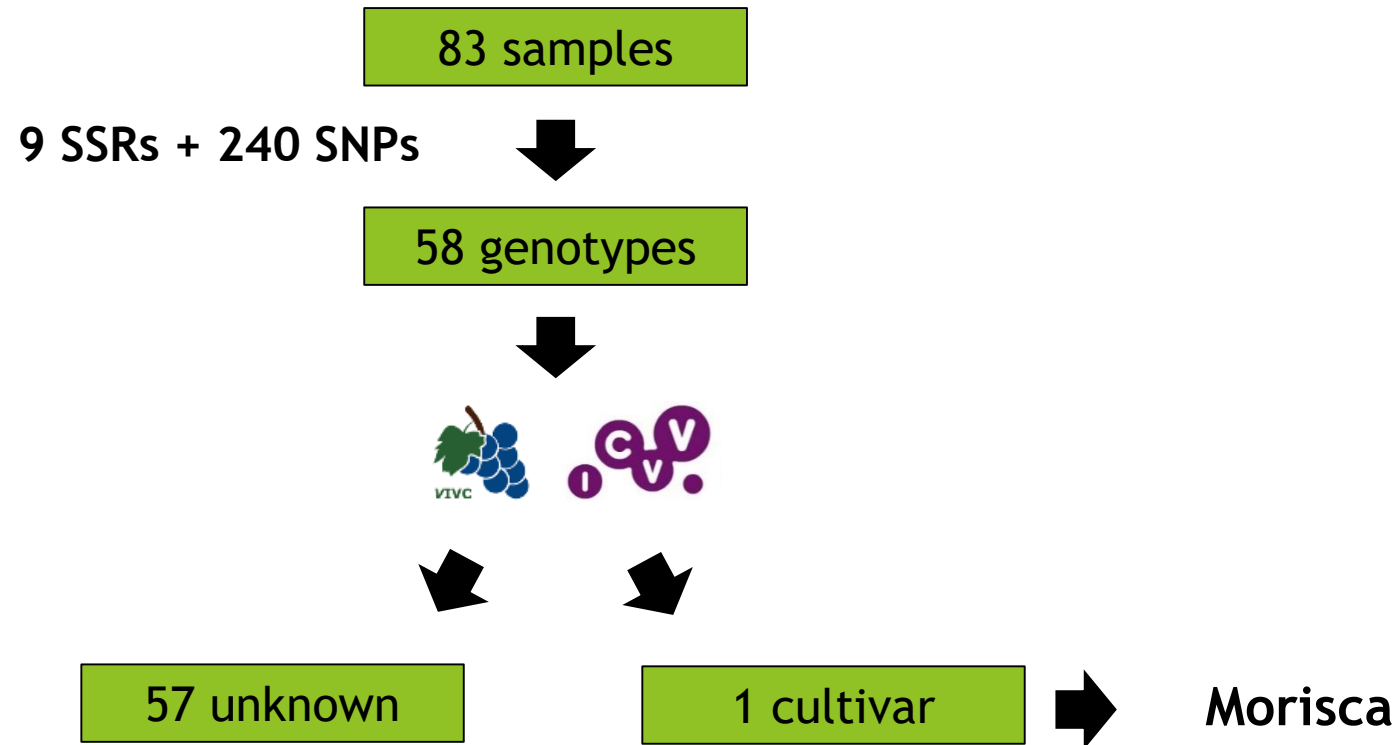




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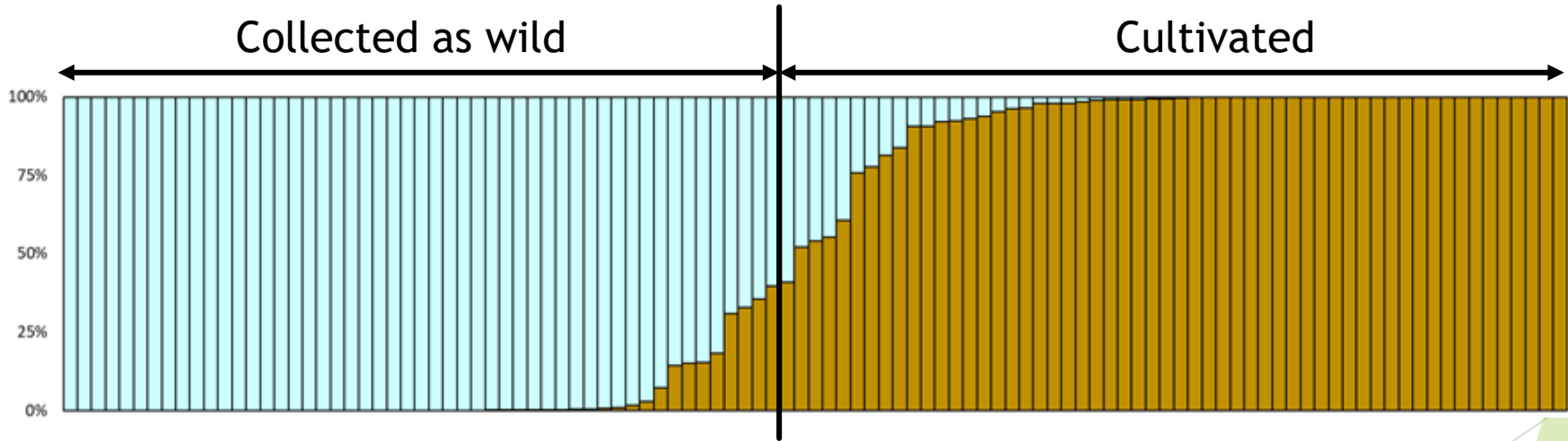
▶ 219 *Vitis vinifera* ssp. *sylvestris* DNAs available at ICVV

Tello et al., work in progress

57 putative *sylvestris* genotypes + 50 *sativa* genotypes

240 SNPs

K=2
k1
k2

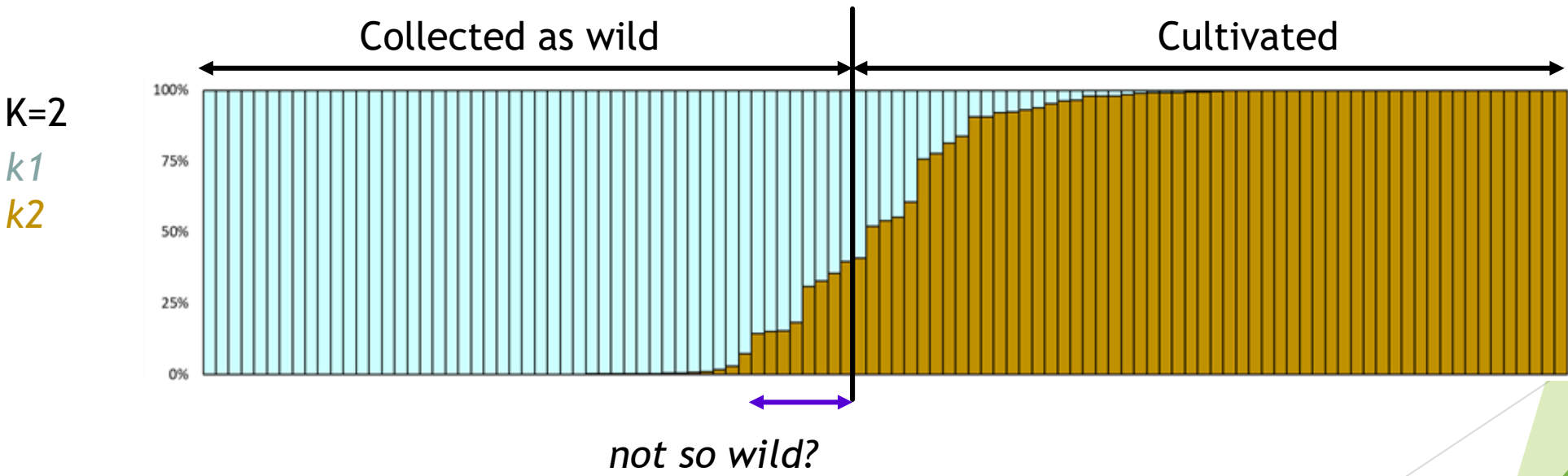




Sylvestris: the ICVV experience

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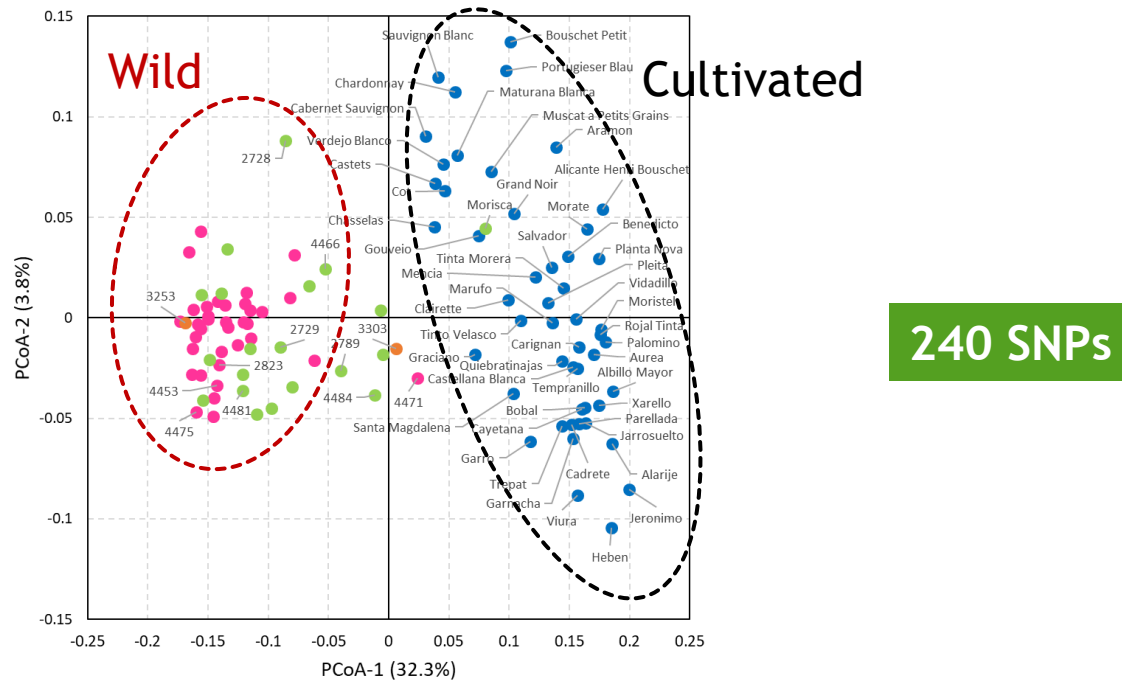
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PCoA →

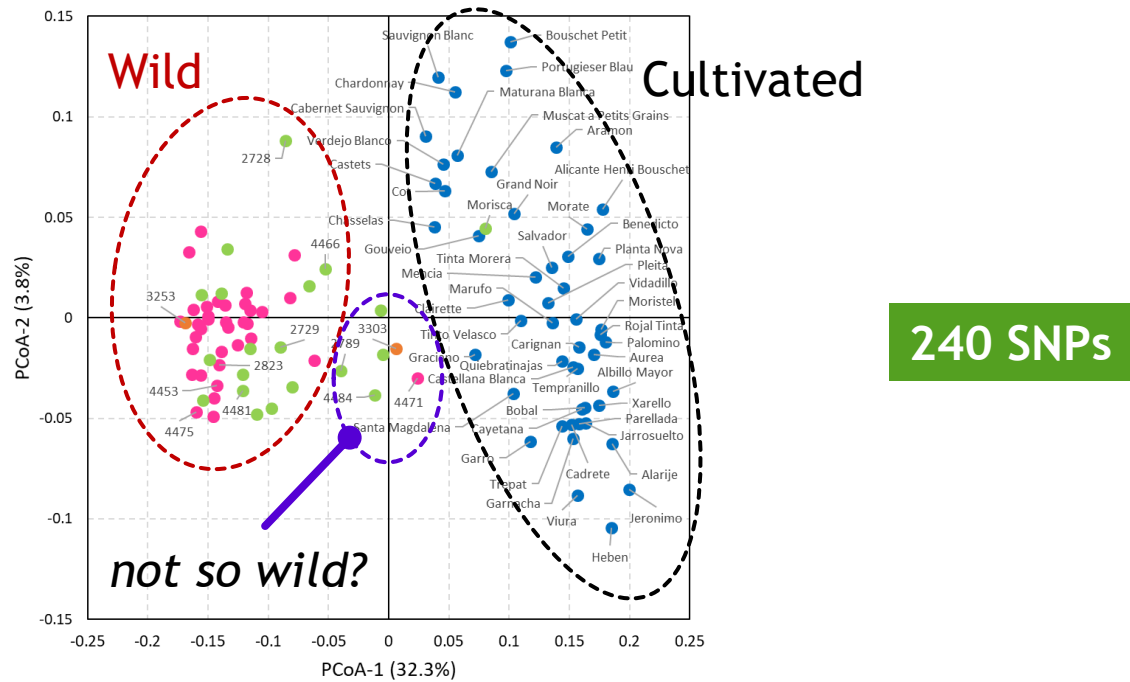


Cultivated; Wild - Iregua valley; Wild - Oja valley; Wild - Najerilla valley



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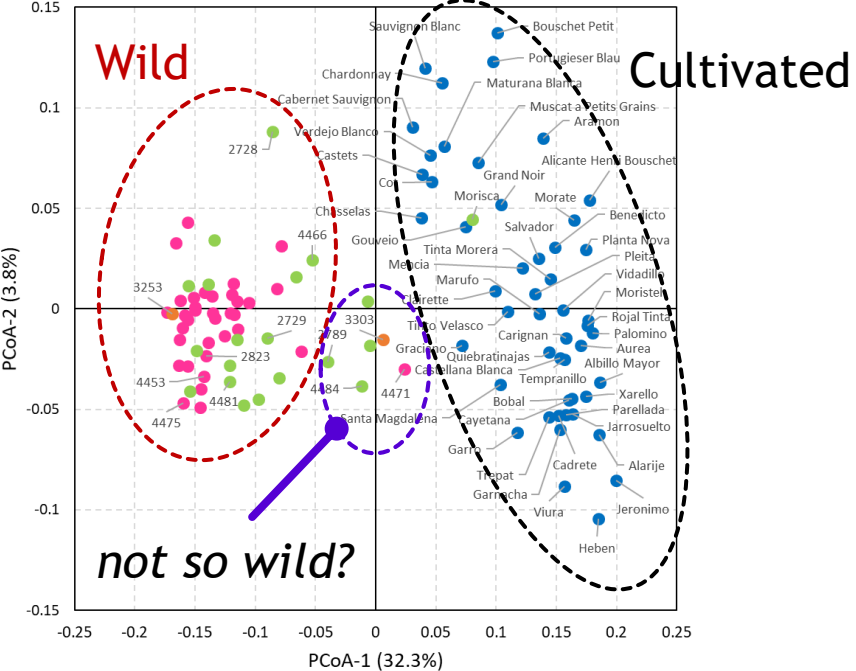


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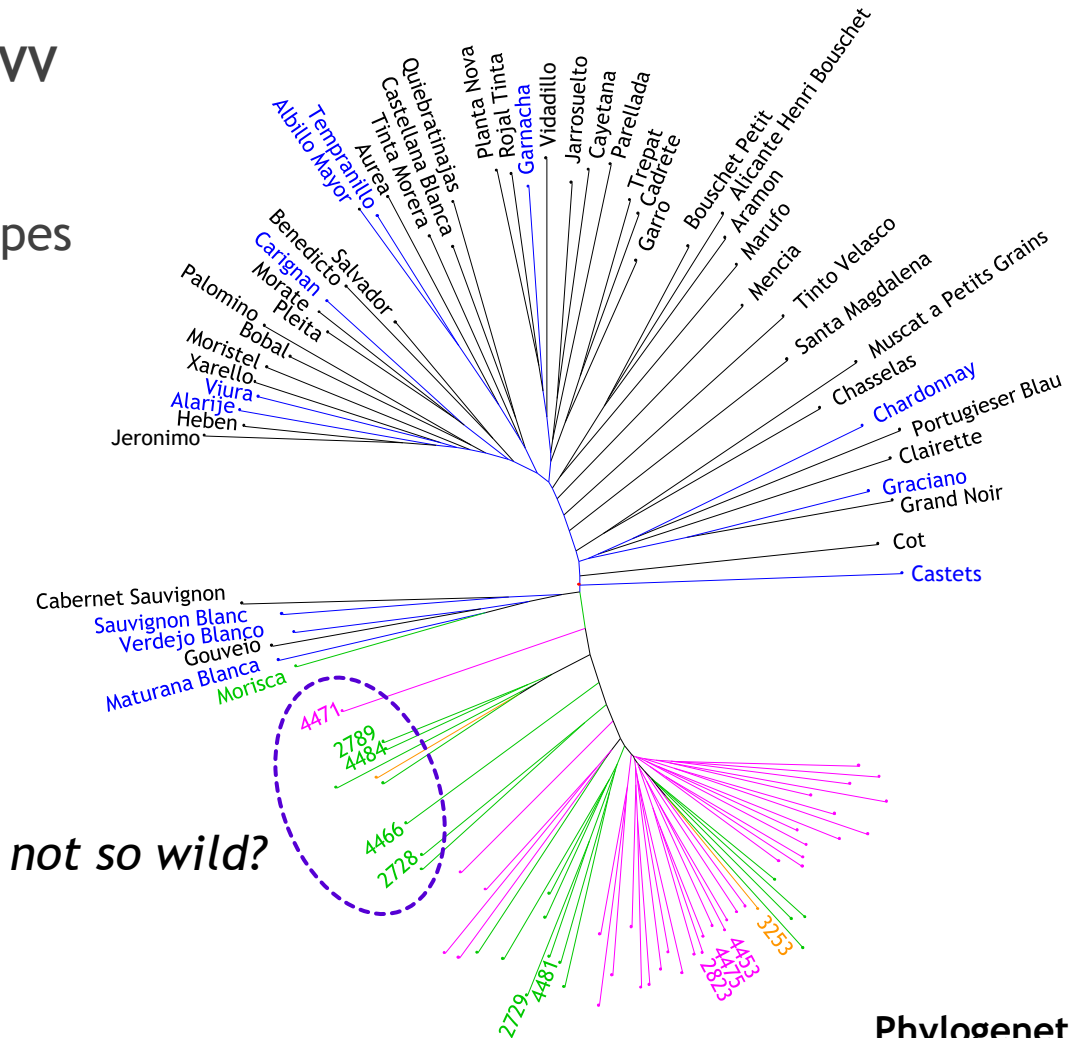


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Phylogenetic relationships

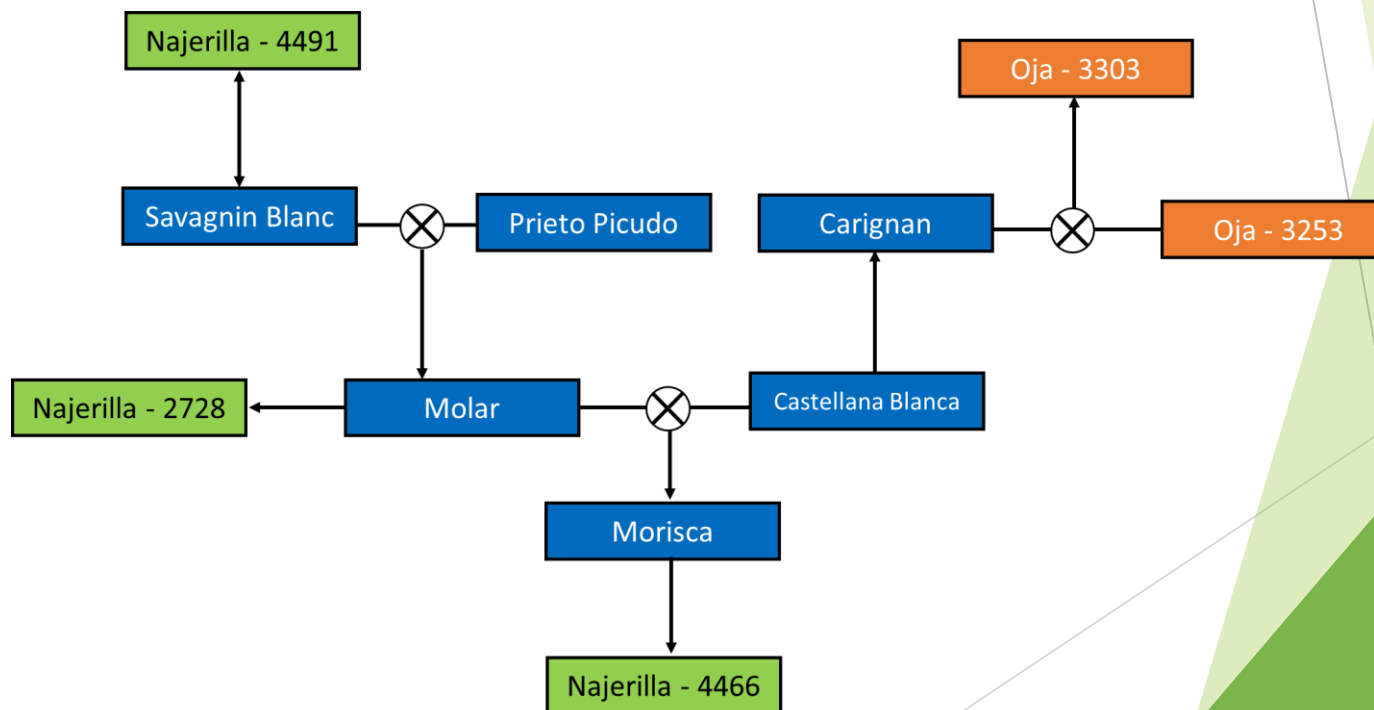




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Tello et al., work in progress
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*not so wild?
not so wild!*



Cultivated; Wild - Oja valley; Wild - Najerilla valley



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Landau (Germany), 10-15 July 2022

219 DNAs from *Vitis vinifera* ssp. *sylvestris* genotypes





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- ▶ **XII International Symposium on Grapevine Breeding and Genetics**

Landau (Germany), 10-15 July 2022

219 DNAs from *Vitis vinifera* ssp. *sylvestris* genotypes

- ▶ **Working meeting**

Siebeldingen (Germany)

Definition of a common set of 20 SSR markers for genotyping





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219 DNAs from *Vitis vinifera* ssp. *sylvestris* genotypes

- ▶ **Working meeting**
Siebeldingen (Germany)

Definition of a common set of 20 SSR markers for genotyping

- ▶ **Genotyping of 219 samples at 20 SSRs**
+ 3 reference cultivars for alleles sizes fitting
(Tempranillo Tinto, Sultanina, Riesling Weiss)



...sent to the *Sylvestris*
group for joint
analyses!





Sylvestris: the ICVV experience

- ▶ *Vitis vinifera* subsp. *sylvestris*, a protected plant species in La Rioja
- ▶ Ley 2/2023, de 31 de enero de Biodiversidad y Patrimonio Natural de La Rioja



BOR

BOLETÍN OFICIAL DE LA RIOJA

Núm.27

Miércoles, 8 de febrero de 2023

Página 2269

I.Disposiciones Generales

PRESIDENCIA

Ley 2/2023, de 31 de enero, de biodiversidad y patrimonio natural de La Rioja



ANEXO

RELACIÓN DE ESPECIES INCLUIDAS EN EL LISTADO RIOJANO DE ESPECIES SILVESTRES EN RÉGIMEN DE PROTECCIÓN ESPECIAL Y, EN SU CASO, EN EL CATÁLOGO RIOJANO DE ESPECIES AMENAZADAS

| Nombre científico | Nombre común | Categoría del catálogo |
|--|----------------------------|------------------------|
| <i>Vitis vinifera</i> subsp. <i>sylvestris</i> | Vid silvestre euroasiática | |

- ▶ Preserve local biodiversity by the conservation, protection, investigation, dissemination, sustainable use, improvement, and restoration of natural resources



Acknowledgements



Javier Tello
Javier Ibáñez
José Miguel M. Zapater
Fernando M. de Toda



Adela Mena
Mónica Fernández
Jesús Martínez



Rafael Ocete



M. Dolores Loureiro

13. Jul *Plantaze*

Vesna Maraš



José M. del Valle
Álvaro R. Miranda



Sana Ghaffari
Ali Ferchichi



Ignacio Armendáriz





Acknowledgements



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Ignacio Armendáriz

European
Cooperative
Programme
for Plant
Genetic
Resources



ECP/GR





Acknowledgements



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Ignacio Armendáriz



Thanks for your attention!

*Thank
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