

Valorisation of the Italian biodiversity: specialised metabolism in the Rosid clade

Leonardo Bisson^{1,2}, Stefano Negri^{1,2}, Mauro Commisso^{1,2}, Valentina Dusi^{1,2}, Fabio Pietrolucci^{1,2}, Fabio Pinzauti^{1,2}, Carolina Ramos¹, Gianluca Zorzi^{1,2}, Linda Avesani^{1,2}, Flavia Guzzo^{1,2}

1) Department of Biotechnology, University of Verona, Strada le Grazie 15, 37134 Verona, Italy; 2) National Biodiversity Future Center (NBFC), Palermo, 90133, Italy

BACKGROUND



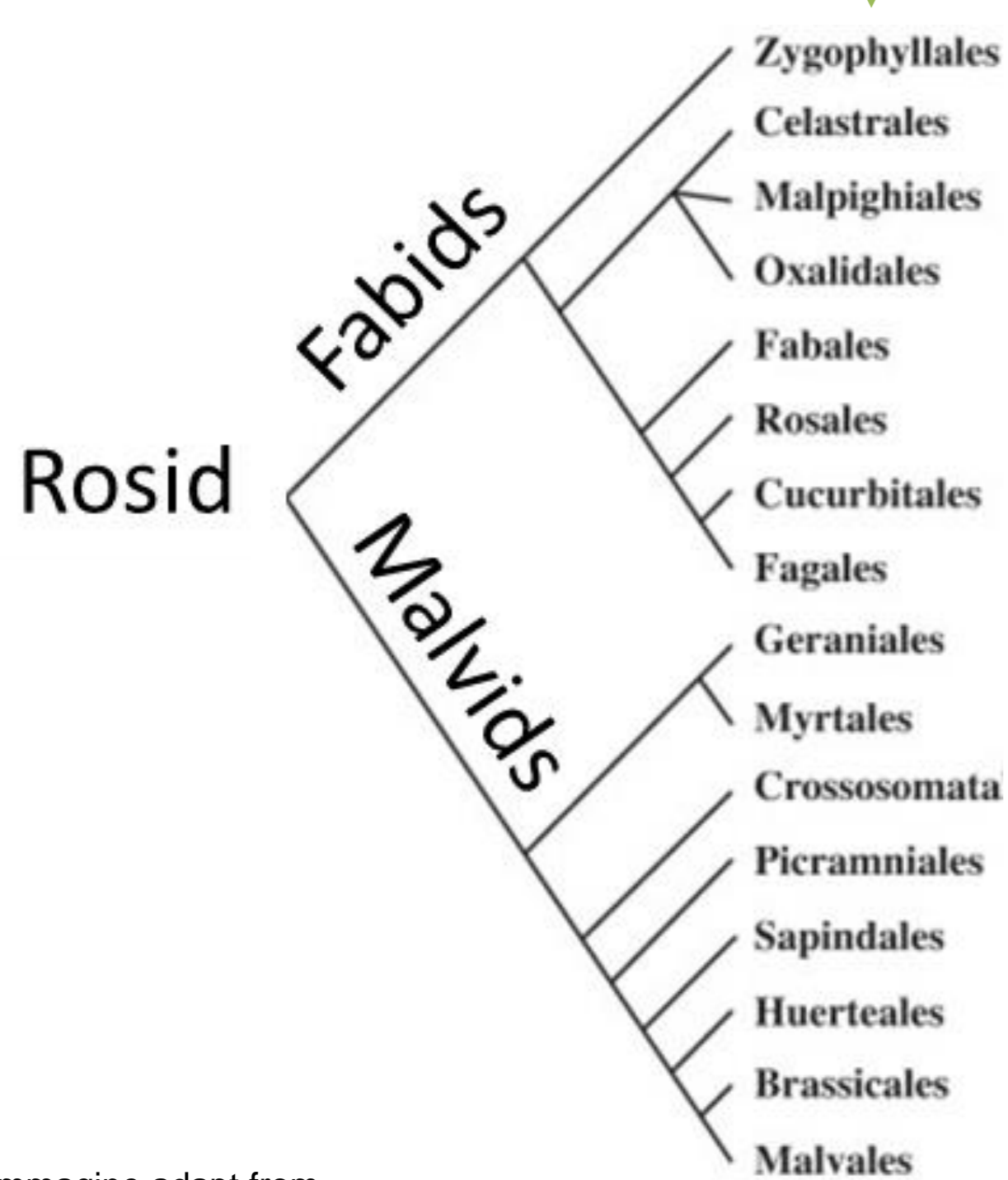
NATIONAL BIODIVERSITY FUTURE CENTER

Monitoring, Conserve, Restore
Valorise the Italian Biodiversity

GOAL

Valorization of Italian plants biodiversity

Chemoevolutionary relationships investigation of Rosid clade



2427 species in Italy

20% of Italian flora

169 species in our project

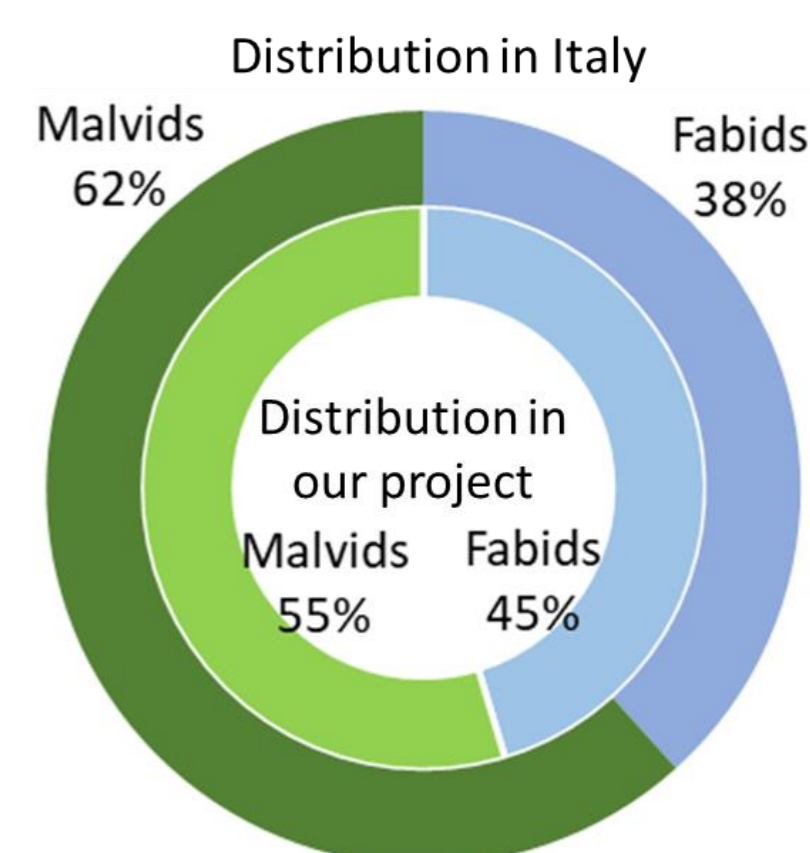
7% of total Italian Rosid

STRATEGY AND METODOLOGIES

1. Sampling design

	Species in Italy	Species in our project
Brassicales	437	30
Celastrales	9	2
Crossosomatales	1	1
Cucurbitales	25	5
Fabales	683	30
Fagales	43	7
Geraniales	55	4
Malpighiales	314	17
Malvales	143	13
Myrtales	104	9
Oxalidales	16	2
Rosales	521	34
Sapindales	57	12
Vitales	16	2
Zygophyllales	3	1
Total	2427	169

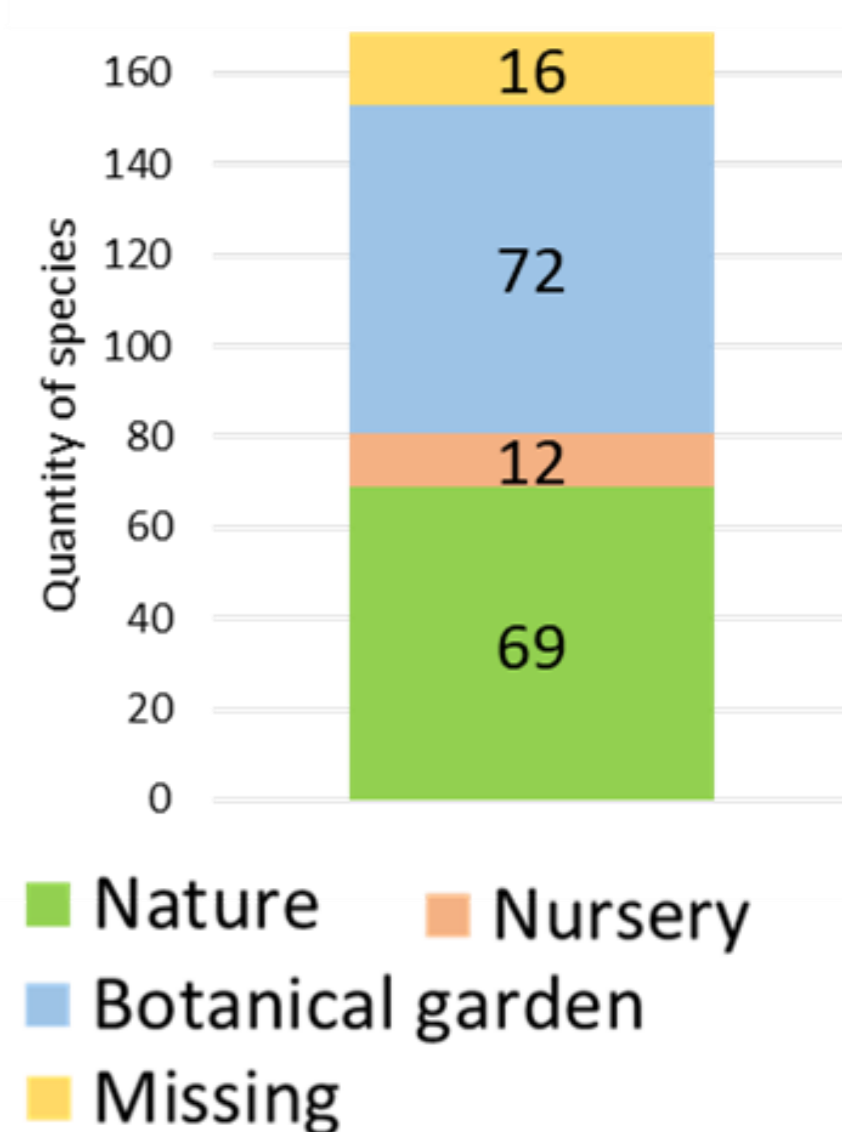
- Proportionally based on real dimension
- Poorly investigated species
- Endemic species (whenever possible)



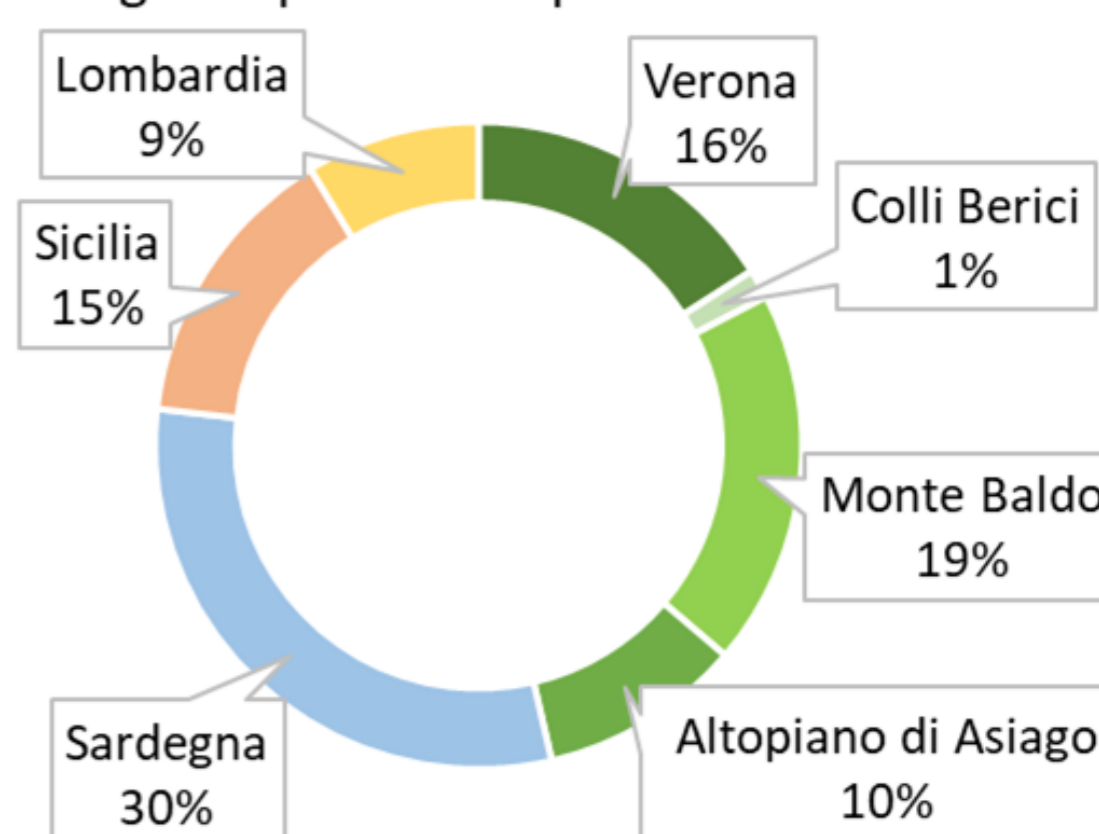
2. Sampling campaign



Origin of sampled plants



Origin of plants sampled in Nature



3. Biochemical characterization

Untargeted analysis

