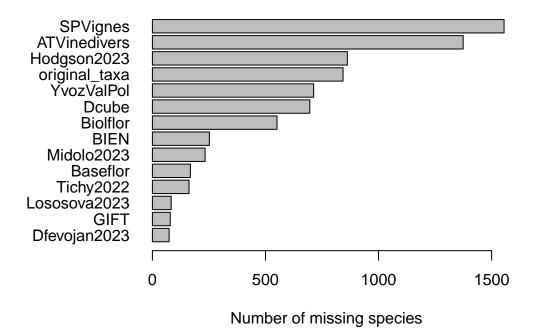
Exploration of FELLOW trait dataset

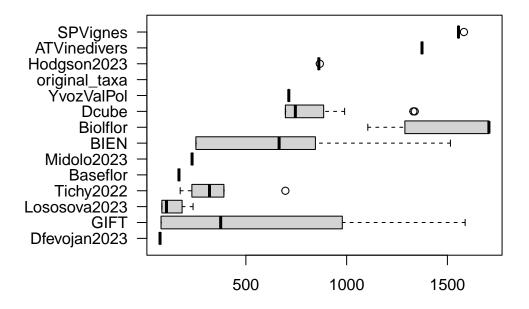
The objective of this document is to:

- visually explore the trait database
- understand trait coverage / data gaps
- check for possible inconsistencies

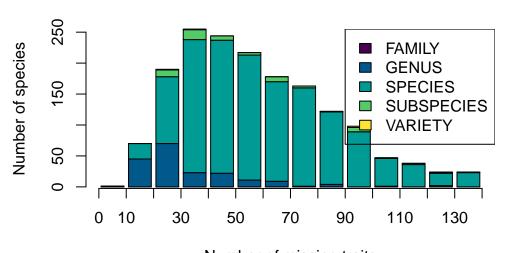
Description of trait databases

So far, we compiled 152 traits for 1706 taxa gathered from 14 trait databases. But there are many missing values.





Number of missing traits values



Number of missing traits

Taxa with no or limited trait information (N=28).

"Acacia"	"Agrimonia agrimonoides"	"Agropyron"
"Amaranthaceae"	"Apiaceae"	"Asparagaceae"
"Brassicaceae"	"Caryophyllaceae"	"Crambe abyssinica"
"Dysphania aristata"	"Ficaria ambigua"	"Glyceria"
"Lamiaceae"	"Liliaceae"	"Melomphis arabica"
"Onopordum gautieri"	"Paronychia"	"Piptatherum"
"Poaceae"	"Roemeria hispida"	"Rosaceae"
"Rubiaceae"	"Salix"	"Sanguisorba"
"Scorpiurus subvillosus"	"Viburnum"	"Vicia dasycarpa"
"Vicia pseudocracca"		
	"Acacia" "Amaranthaceae" "Brassicaceae" "Dysphania aristata" "Lamiaceae" "Onopordum gautieri" "Poaceae" "Rubiaceae" "Scorpiurus subvillosus" "Vicia pseudocracca"	"Amaranthaceae" "Apiaceae" "Brassicaceae" "Caryophyllaceae" "Dysphania aristata" "Ficaria ambigua" "Lamiaceae" "Liliaceae" "Onopordum gautieri" "Paronychia" "Poaceae" "Roemeria hispida" "Rubiaceae" "Salix" "Scorpiurus subvillosus" "Viburnum"

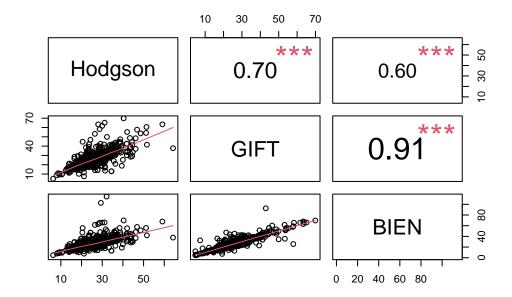
Open question: How to deal with families taxa?

How to deal with missing trait values? Trait imputation, discarding taxa, \dots

Comparison

SLA

There are three sources of information for Specific leaf area (SLA): Hodgson et al. 2023 (in mm2/mg), GIFT (in cm2/g) and BIEN (in m2/kg = mm2/mg).

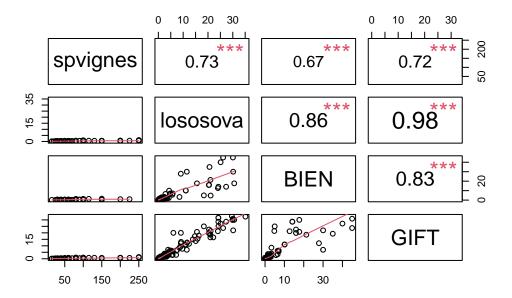


Values are highly correlated, so we could imagine filling the missing values (using preferred data sources or averaging them).

Number of NAs:

Plant height

There are four sources of information for plant height.



Not sure what is the unit of Plant_Height in SPVignes (cm?), and why it is limited to only small plants (<1m). Yet we could potentially fill the height trait values.

Number of NAs:

spvignes	lososova	BIEN	GIFT	filled
1582	129	1276	492	109