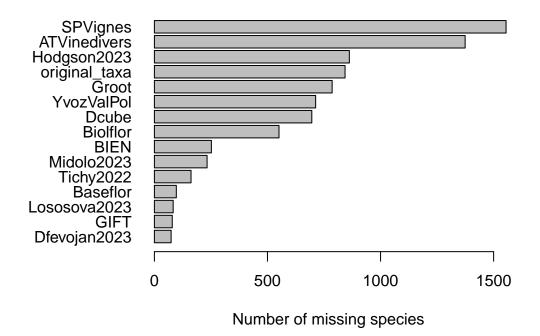
Exploration of FELLOW trait dataset

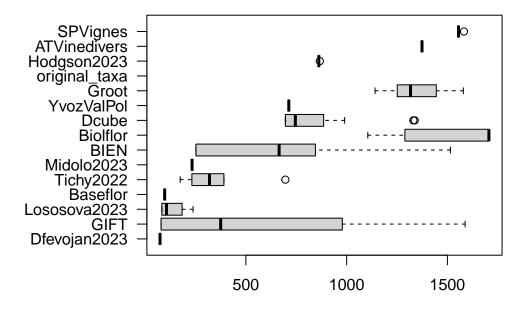
The objective of this document is to:

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

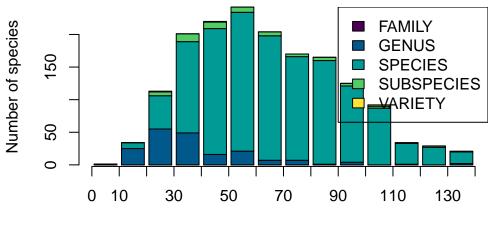
Description of trait databases

So far, we compiled 162 traits for 1706 taxa gathered from 15 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=22).

[1]	"Acacia"	"Agrimonia agrimonoides"	"Agropyron"
[4]	"Amaranthaceae"	"Apiaceae"	"Asparagaceae"
[7]	"Brassicaceae"	"Caryophyllaceae"	"Crambe abyssinica"
[10]	"Dysphania aristata"	"Glyceria"	"Lamiaceae"
[13]	"Liliaceae"	"Paronychia"	"Piptatherum"
[16]	"Poaceae"	"Roemeria hispida"	"Rosaceae"
[19]	"Rubiaceae"	"Salix"	"Sanguisorba"
[22]	"Viburnum"		

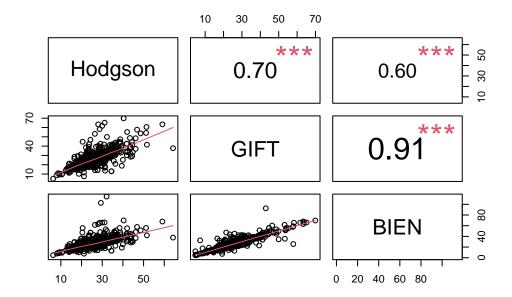
Open question: How to deal with families taxa?

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).

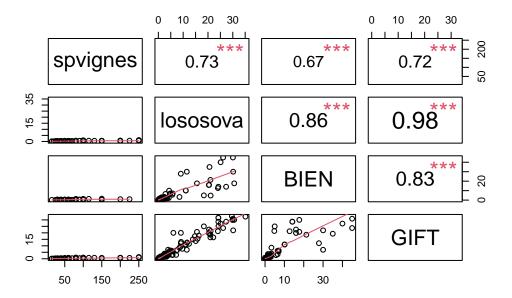


Values are highly correlated, so we could imagine filling the missing values (using preferred data sources or averaging them).

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