

Sequence record  
Protein sequence  
Mass spectrometry data  
Gene expression matrix  
Version information  
Database metadata  
Ontology mapping  
Molecule name  
Compound name  
Mass spectrum  
Expression data  
Map set data  
ChemSpider ID  
ID list  
Protein identifier  
Matrix  
Atomic occupancy  
Compound identifier  
Spectrum  
Data reference  
Ecological data  
Raw microarray data  
Gene identifier  
DNA sequence  
NMR spectrum  
Molecular mass  
KEGG object identifier  
Pathway or network  
Mass spectrometry spectra  
Small molecule structure  
Sequence assembly

Thermo RAW  
R file format  
Mass spectrometry data format  
imzML metadata file  
netCDF FASTA qcML  
TSV idXML Data index format OBO pepXML  
mzTab Biodiversity data format Graph format  
mzIdentML Binary format GML  
protXML raw dat CSV  
SMILES dta Format format  
TraML MGF GenBank format  
mzQuantML xls  
TIDE TXT XML  
mzML  
Textual format

GPL-2.0

MIT

Other

Unlicense

Apache-2.0

GPL-3.0

BSD-3-Clause

CC-BY-4.0

CC-BY-NC-4.0

CC-BY-NC-ND-4.0

Artistic-2.0

Freeware

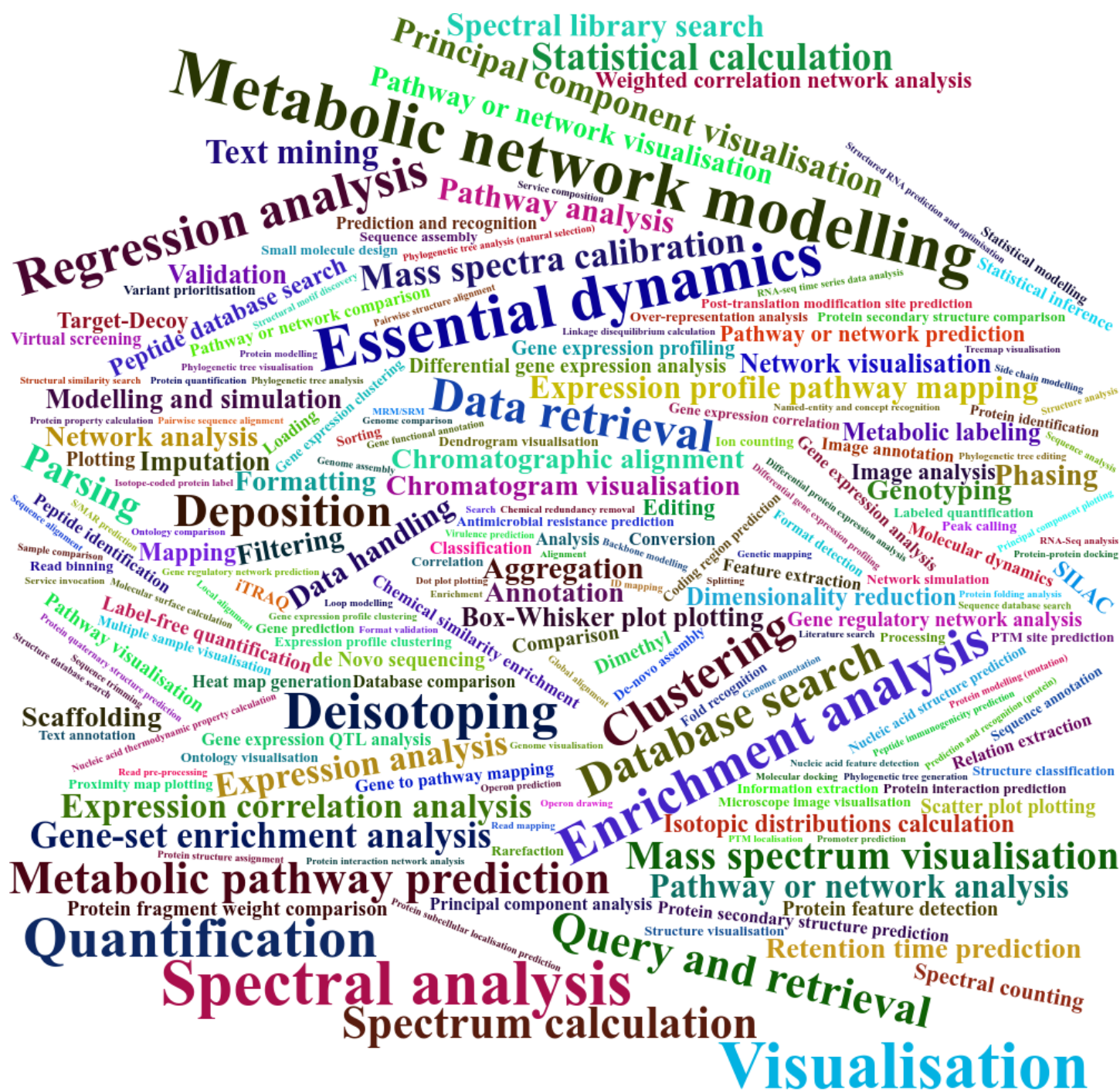
GPL-1.0

BSD-2-Clause

CECILL-2.1

[illegible]

**Linux**  
**Mac**  
**Windows**



Peptide mass fingerprint  
Pathway or network  
**Mass spectrum**  
Mass spectrometry spectra  
Score Expression data Version information  
Molecule name Compound name NMR spectrum  
Compound ID (HMDB) Matrix  
Chemical formula Alignment  
Heat map Data  
Gene identifier Clustered expression profiles  
Peptide identification Image Compound identifier Report  
Mass spectrometry data PubChem ID Protein identifier Q-value  
Ontology  
Sequence-structure alignment  
Plot

# Textual format



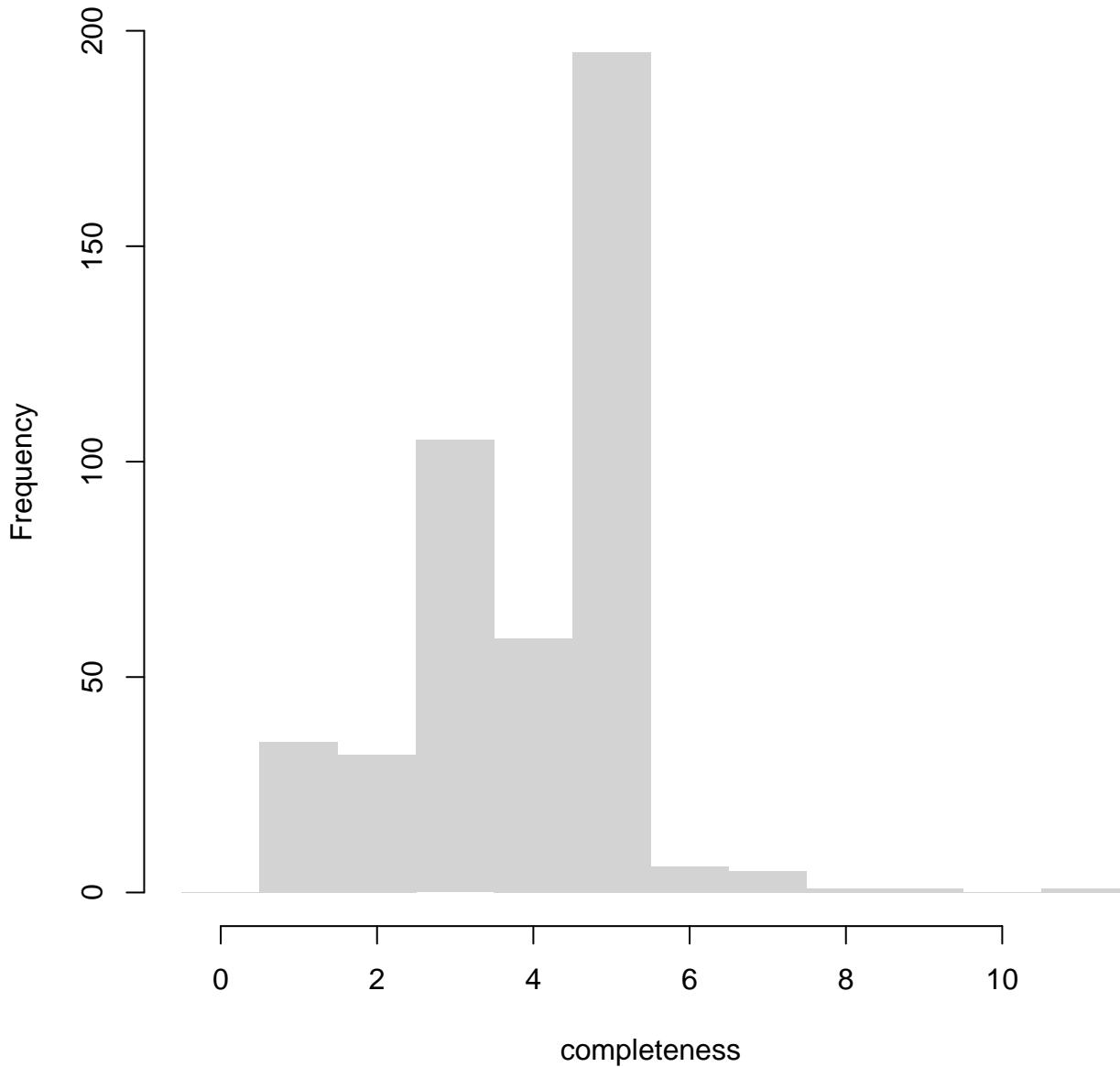


Web application  
Desktop application  
**Command-line tool**  
Bioinformatics portal  
Suite  
Plug-in  
Script  
Web service  
Web API  
Workbench  
Workflow  
Database portal  
**Library**

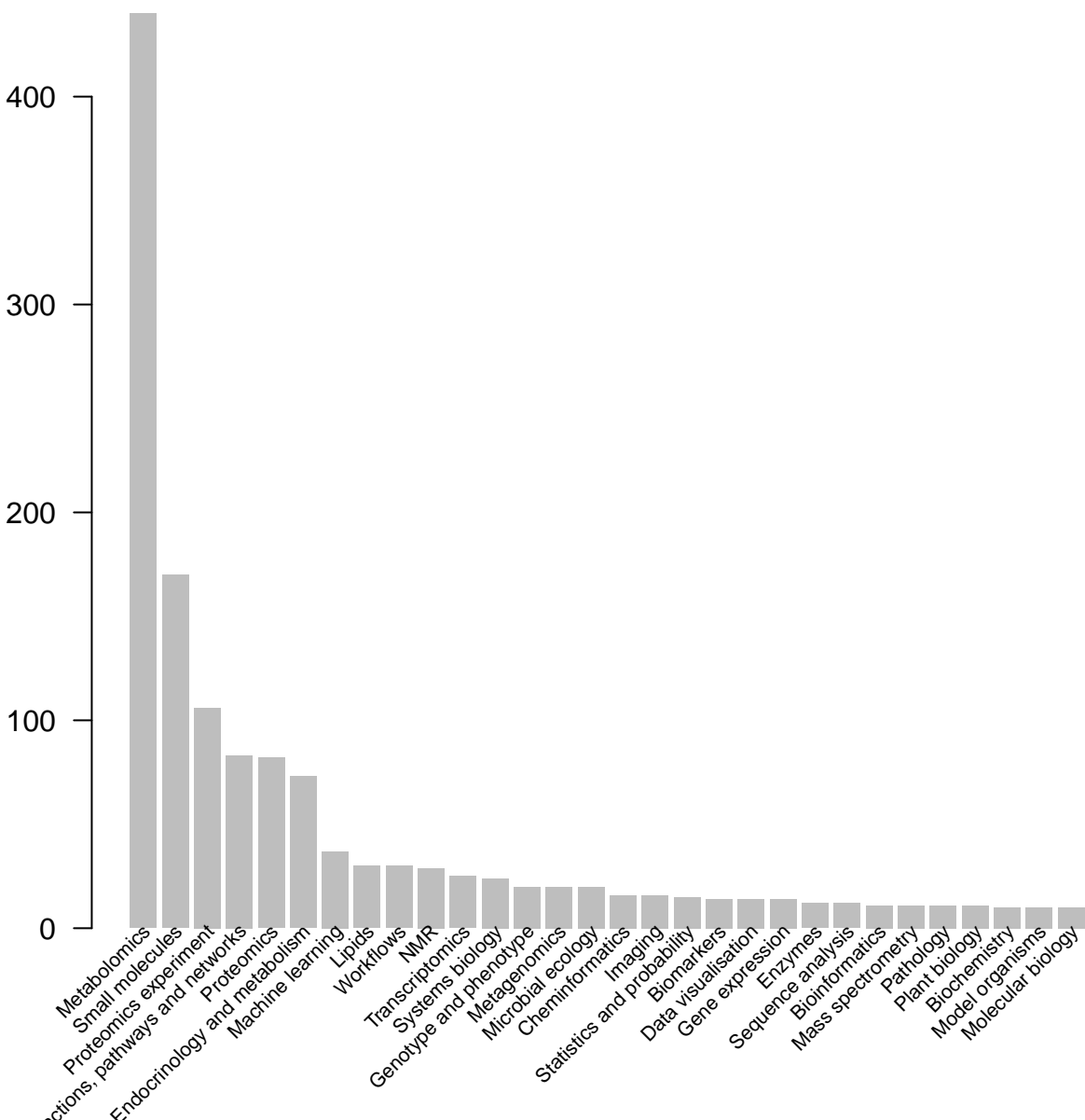
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כ

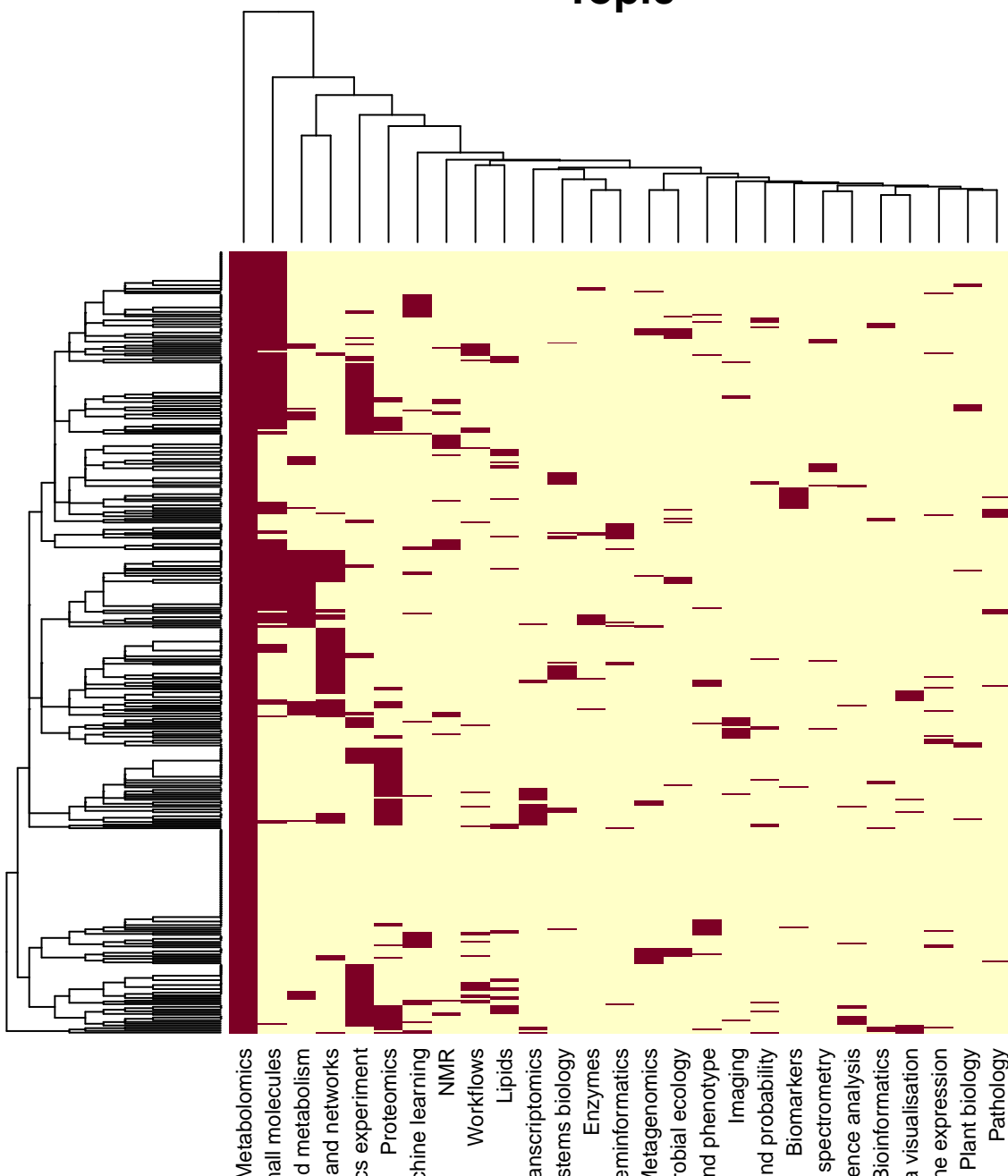
# Topic Number of terms per tool



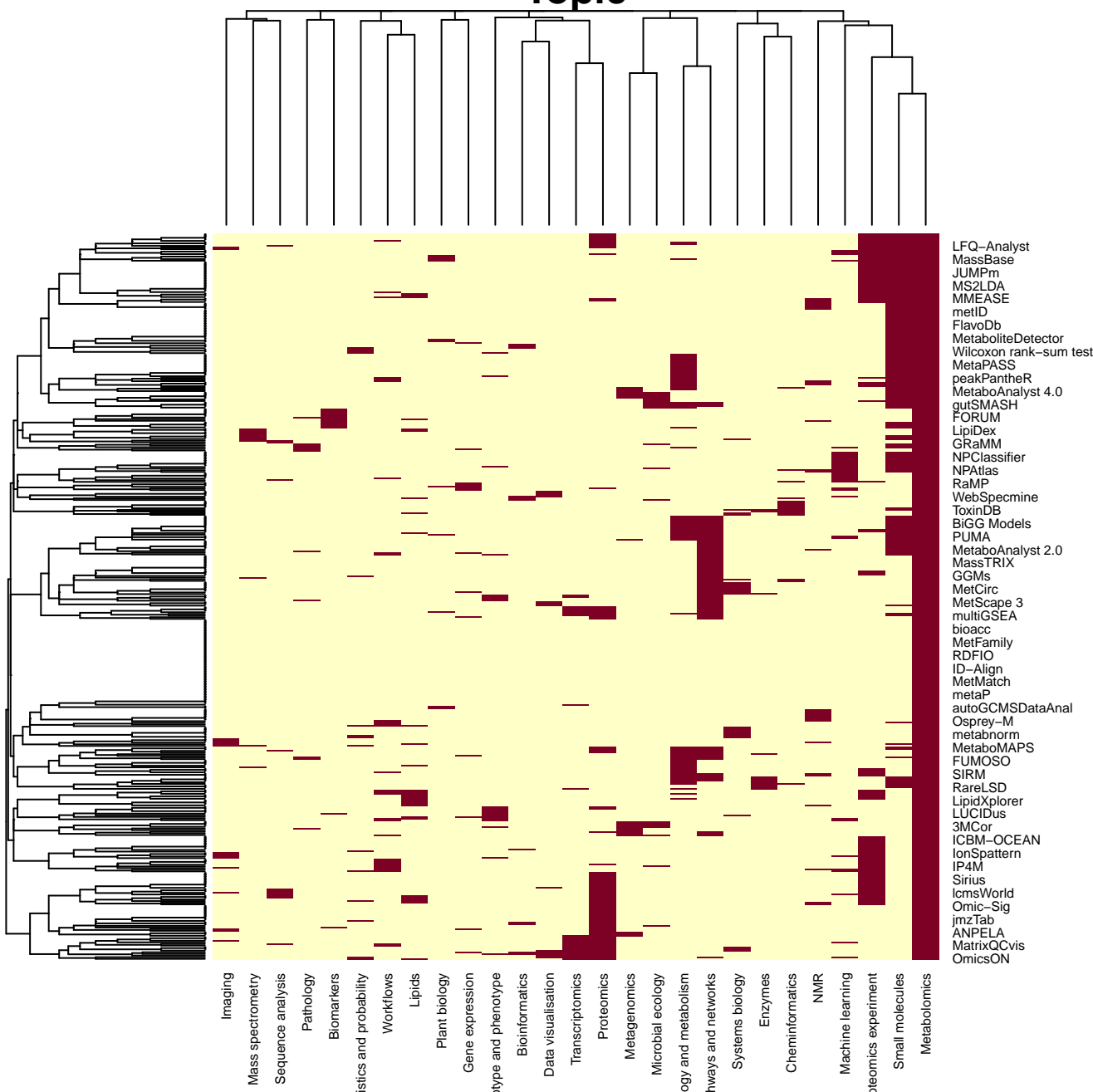
## Topic Top 30 terms

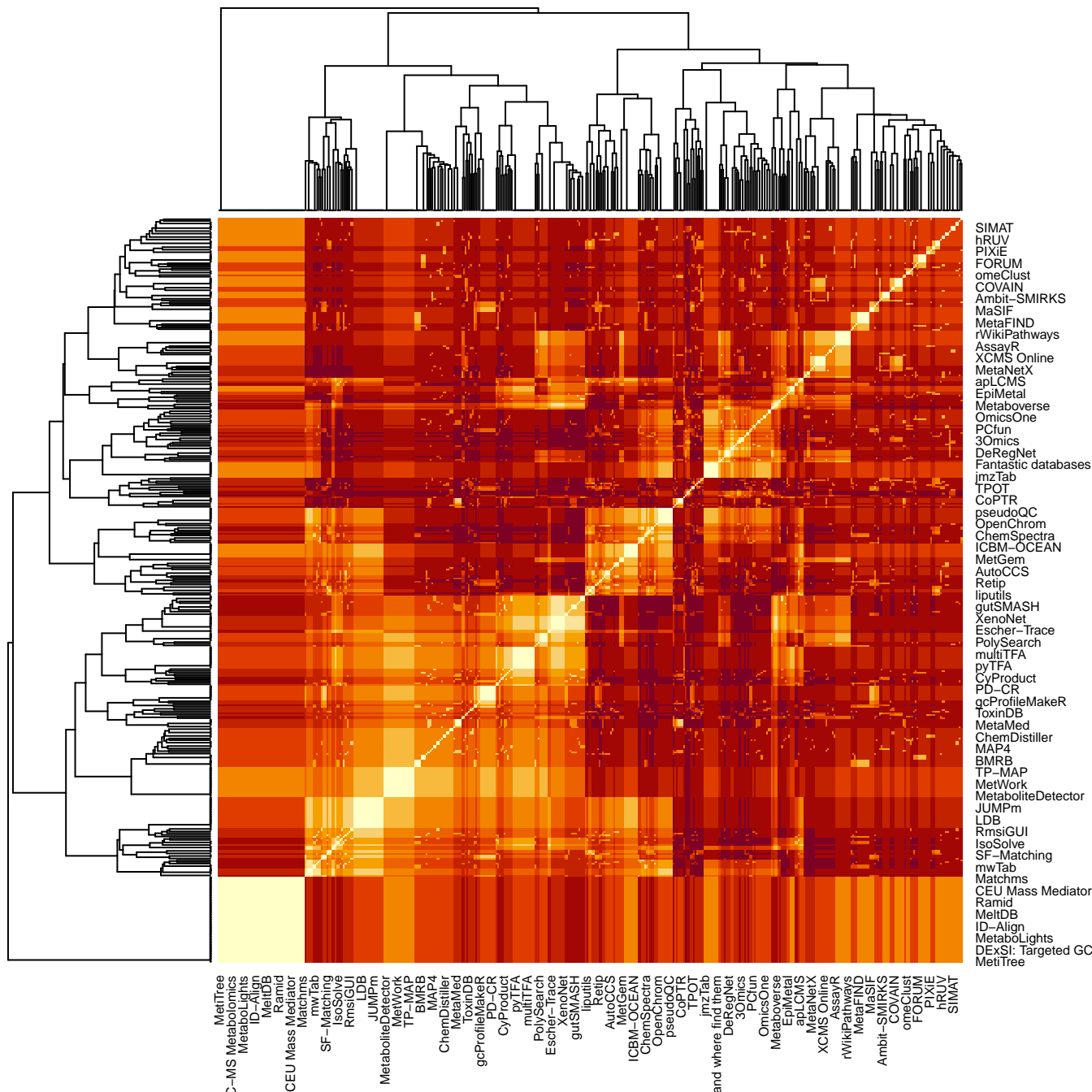


# Topic

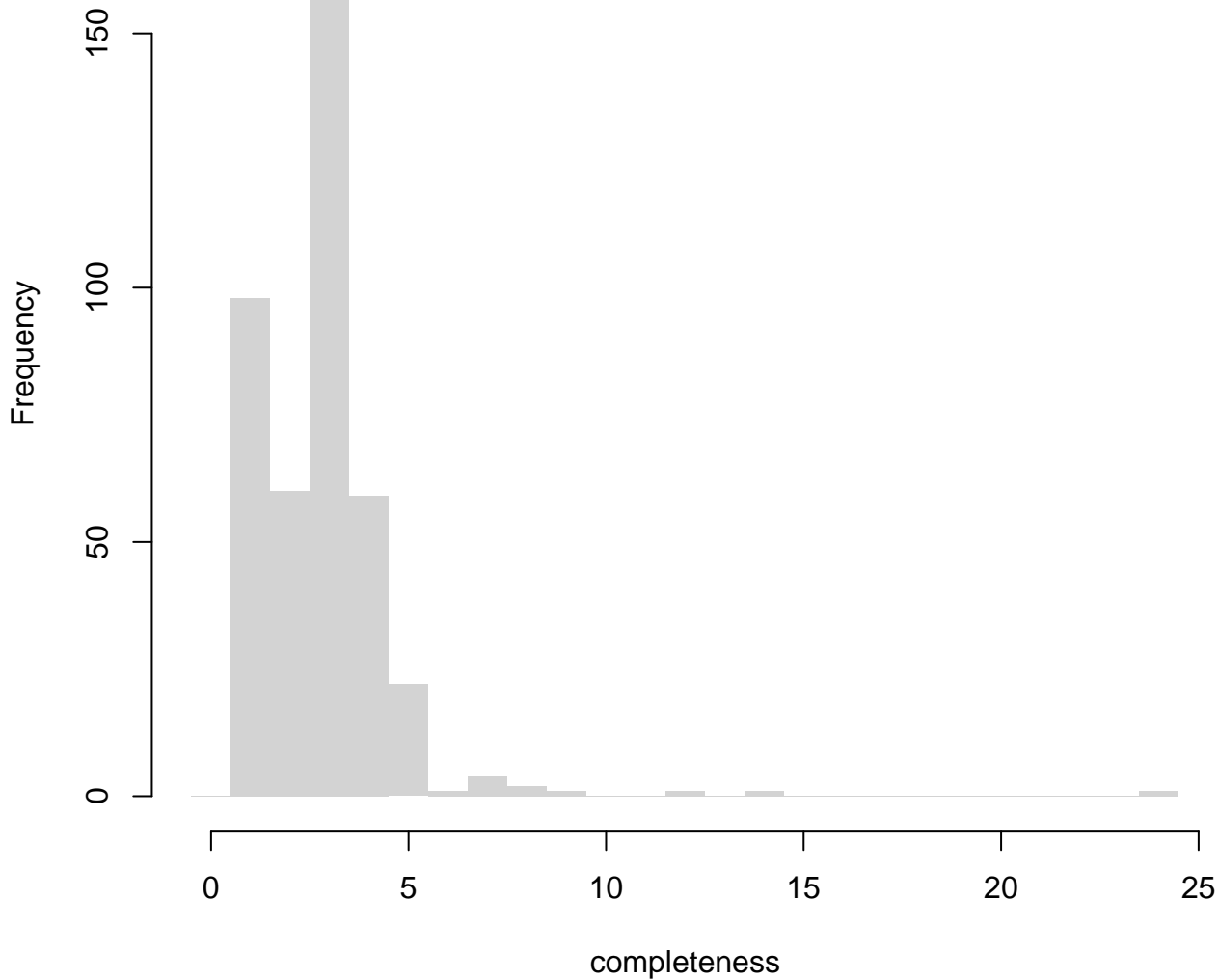


# Topic



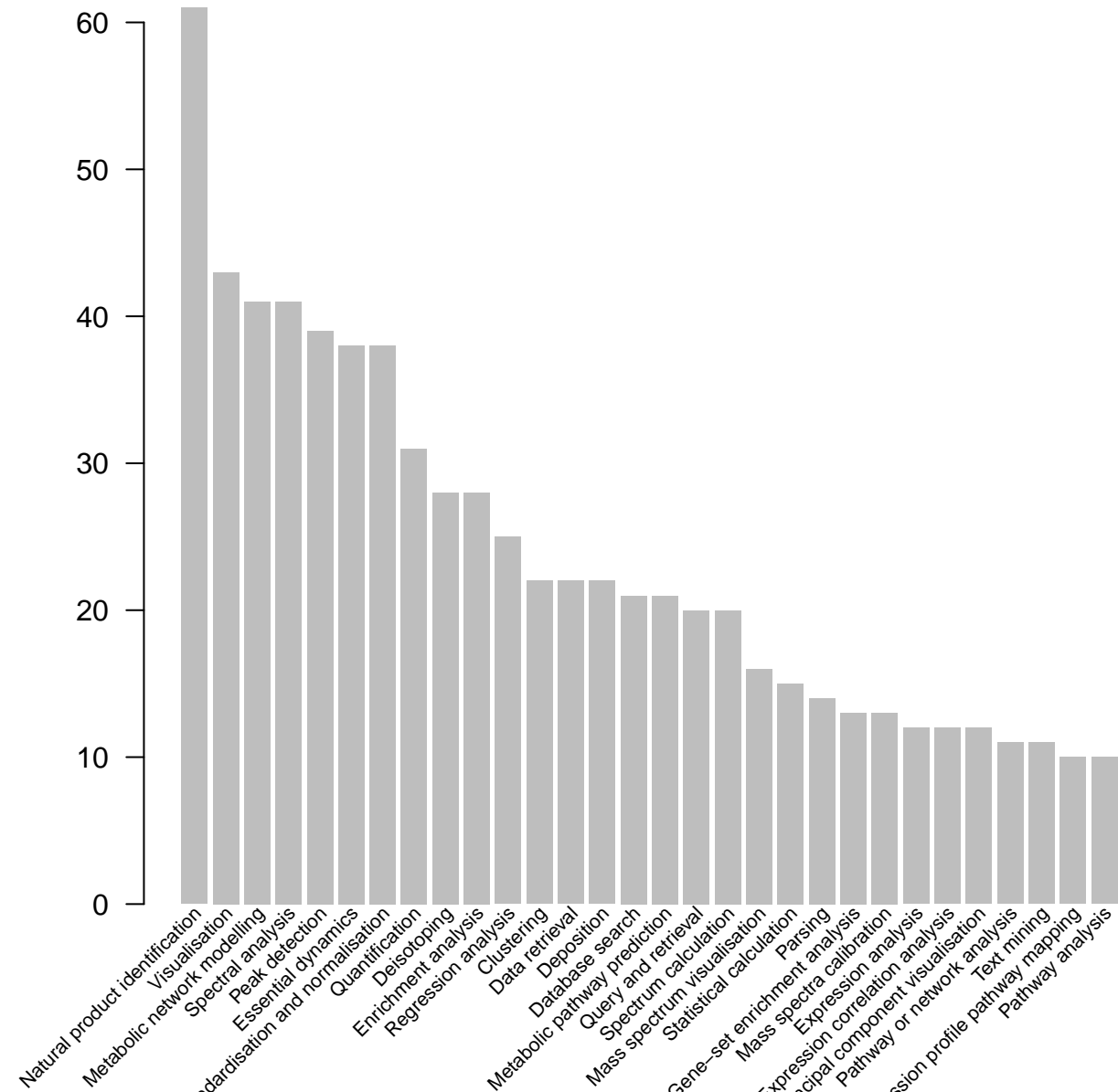


# Operation Number of terms per tool

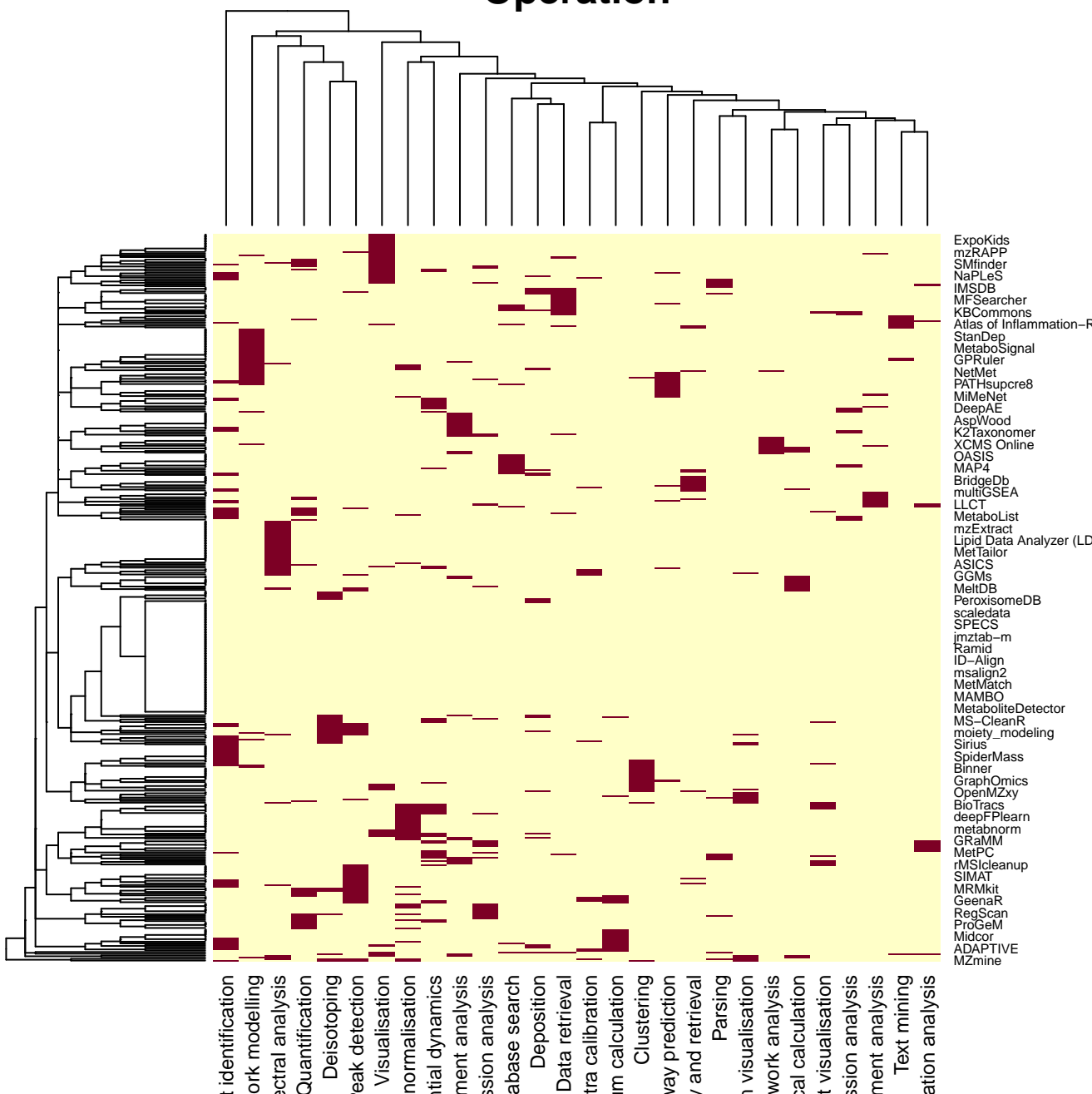




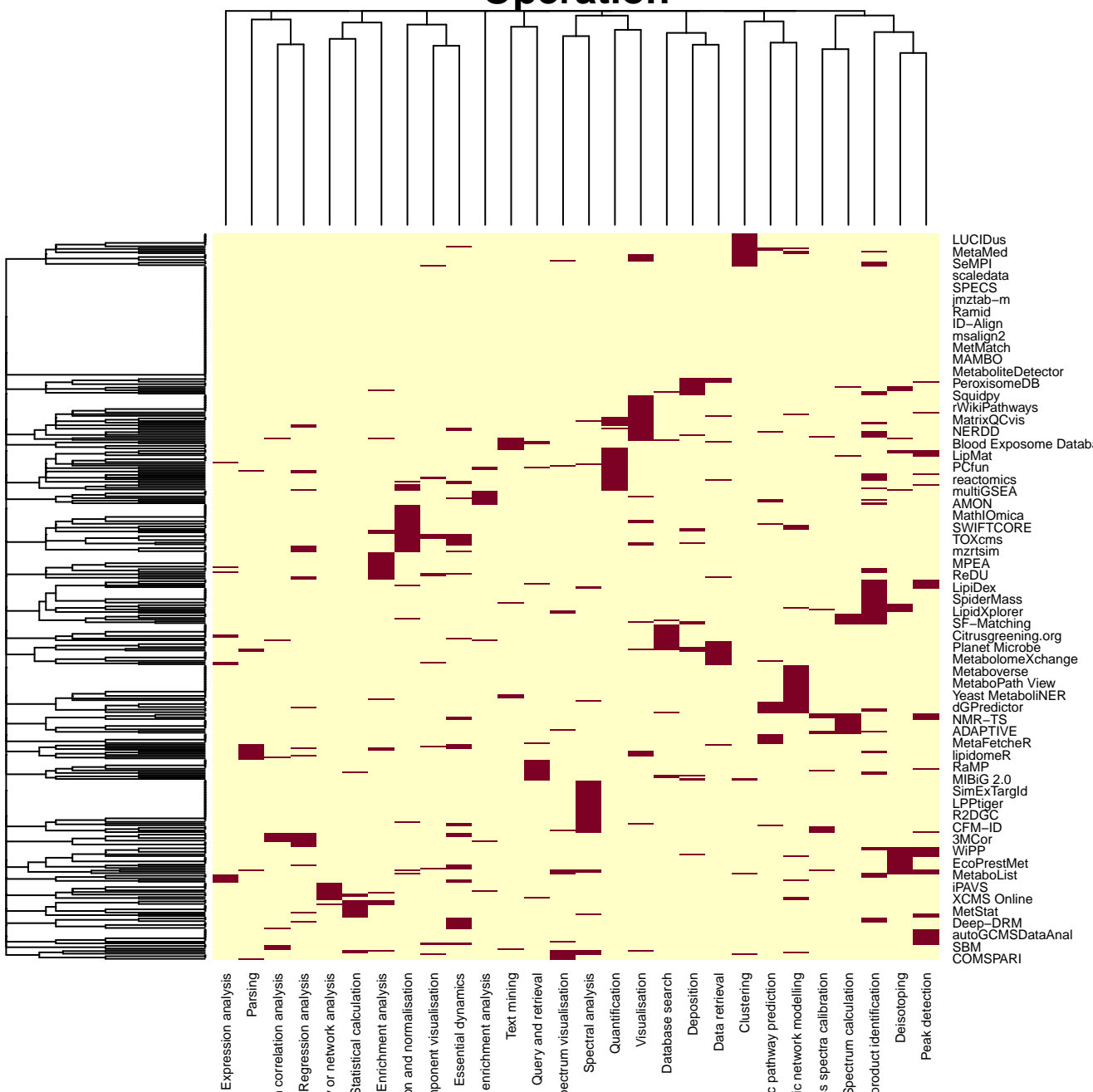
## Operation Top 30 terms

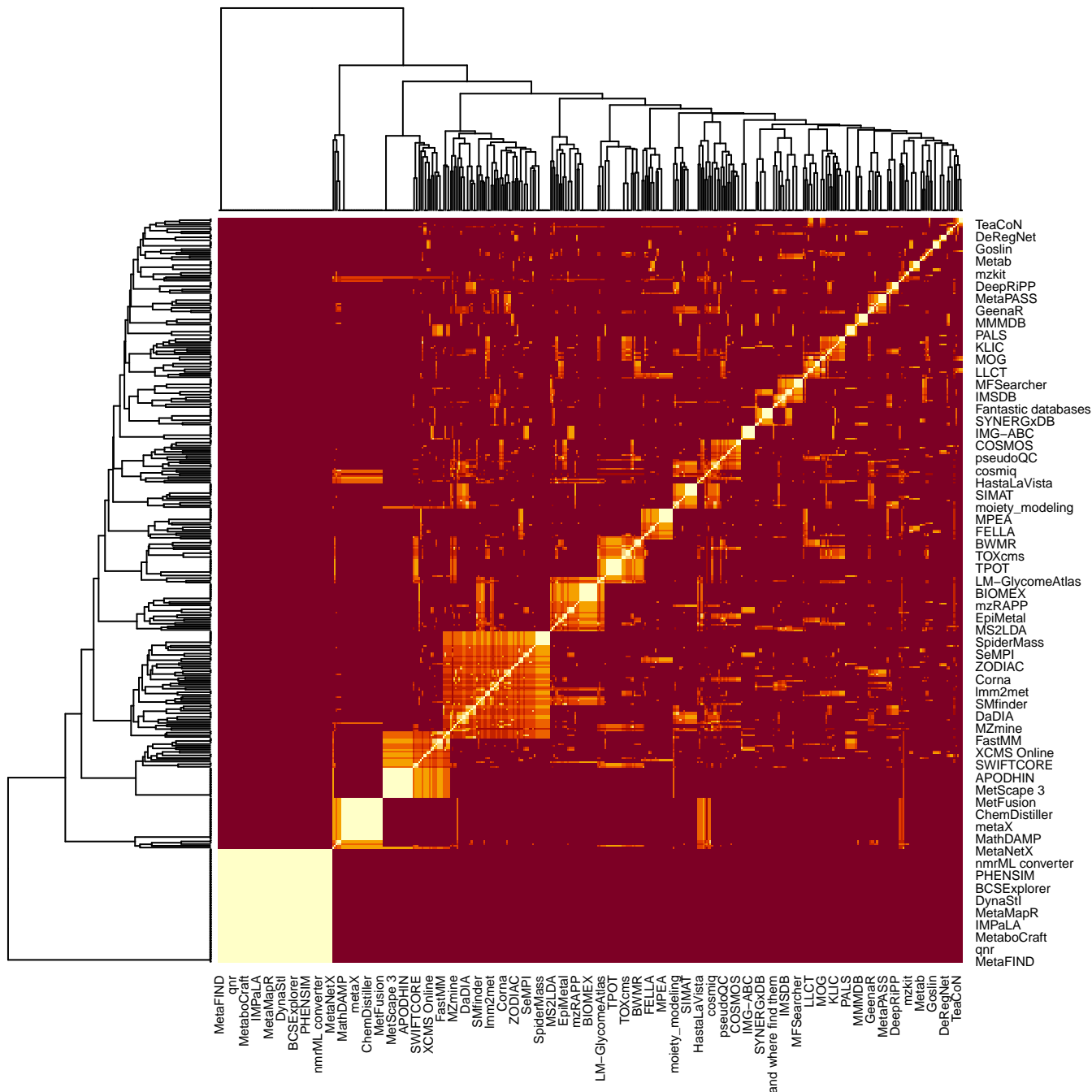


# Operation

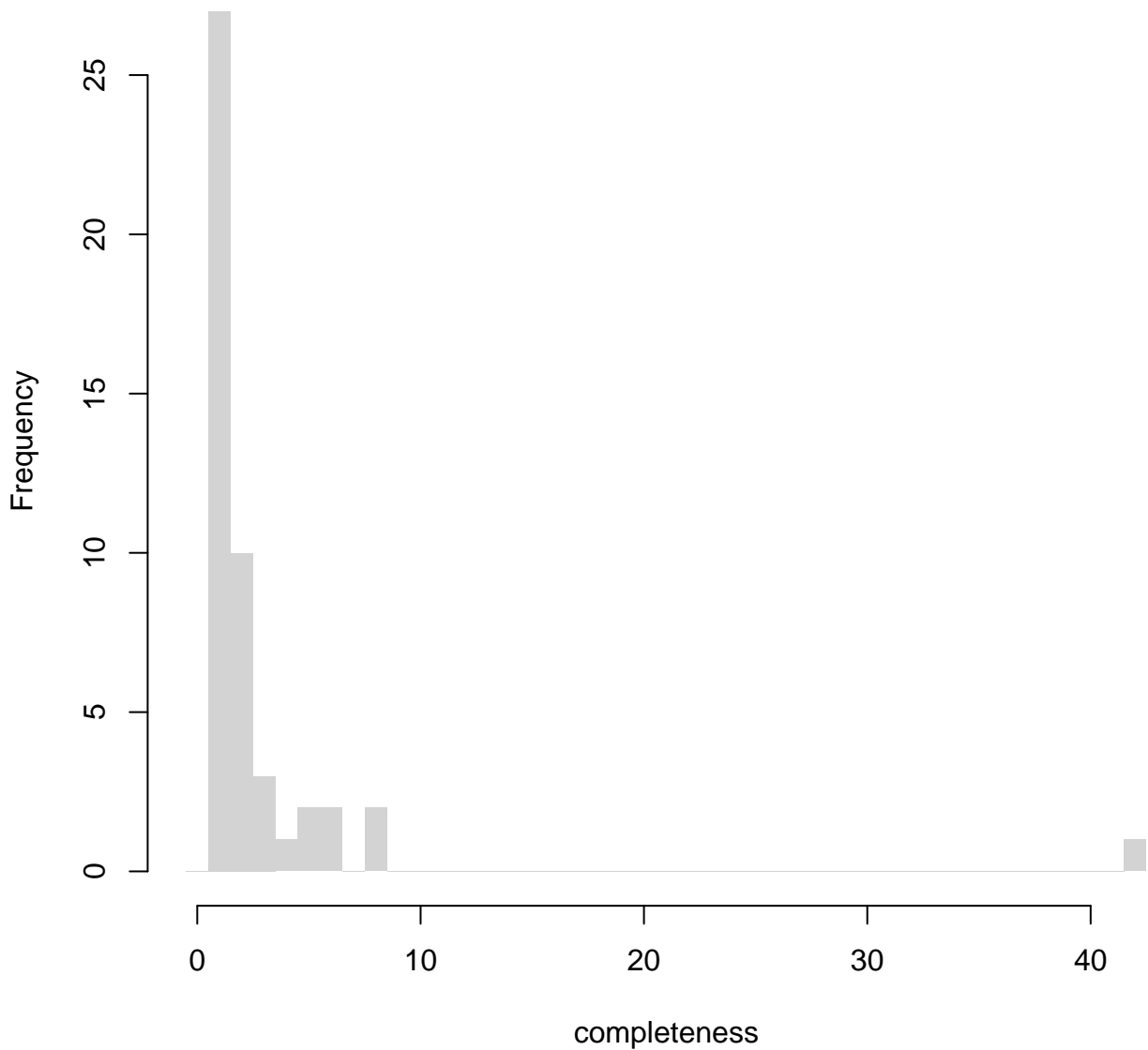


# Operation

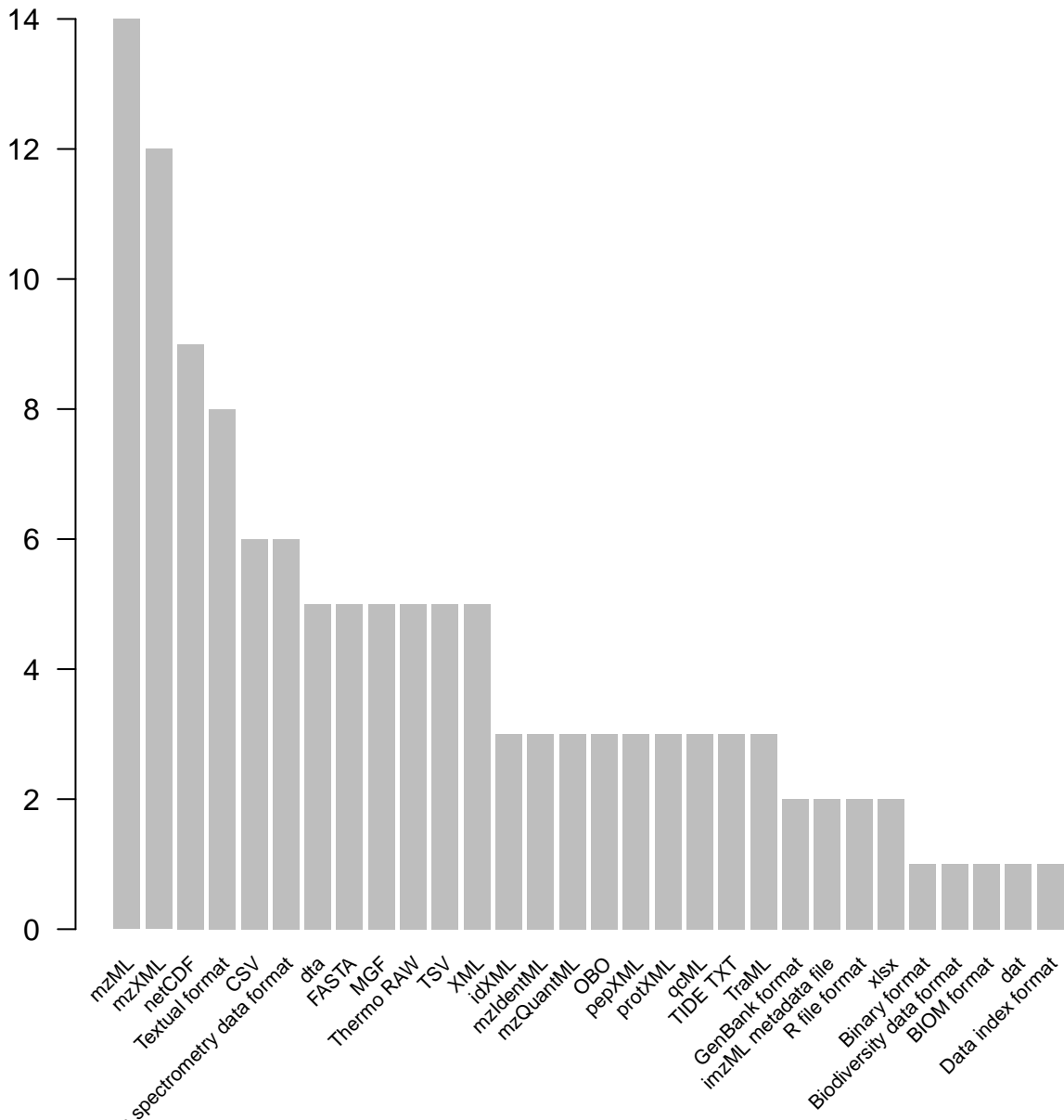




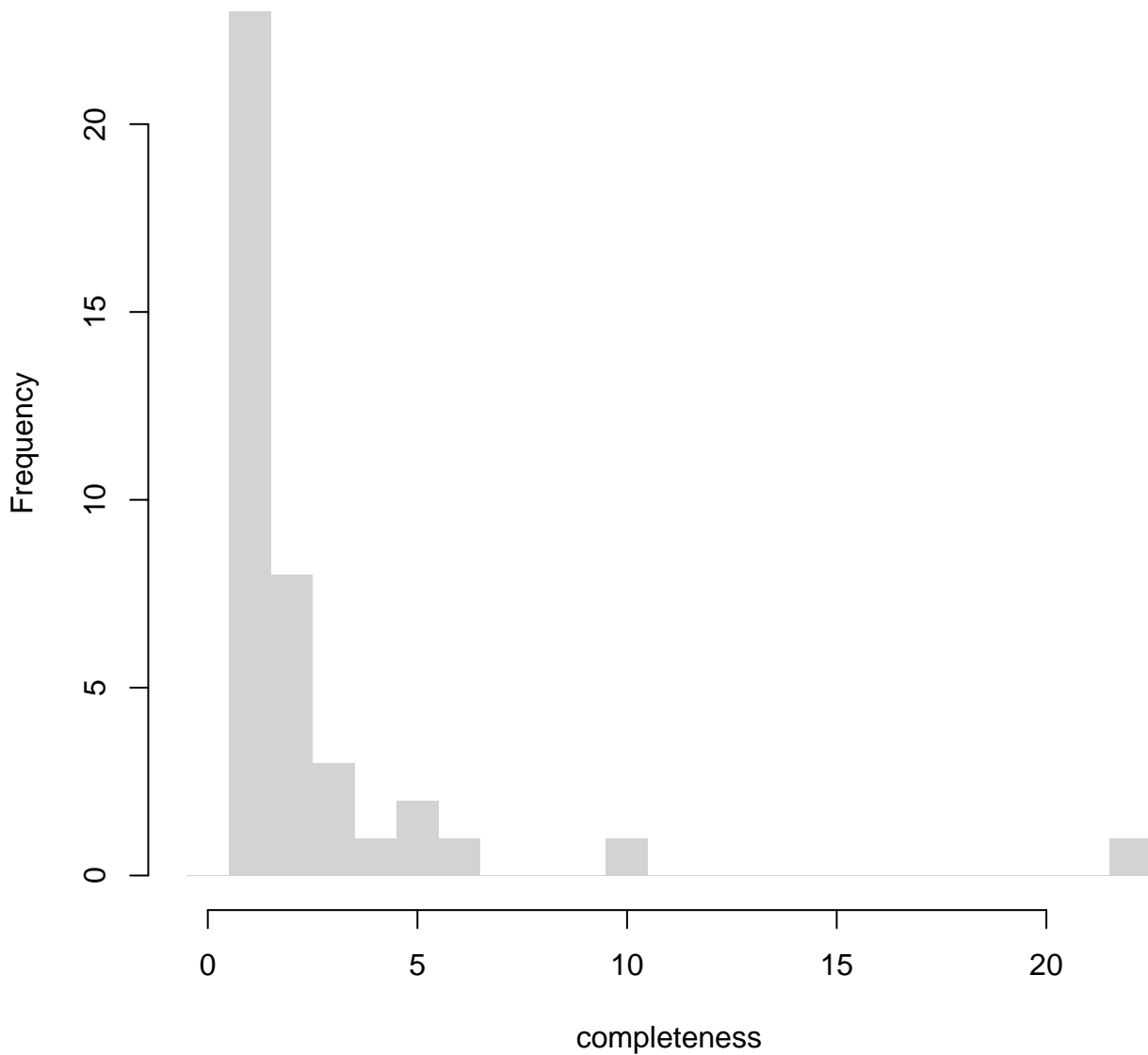
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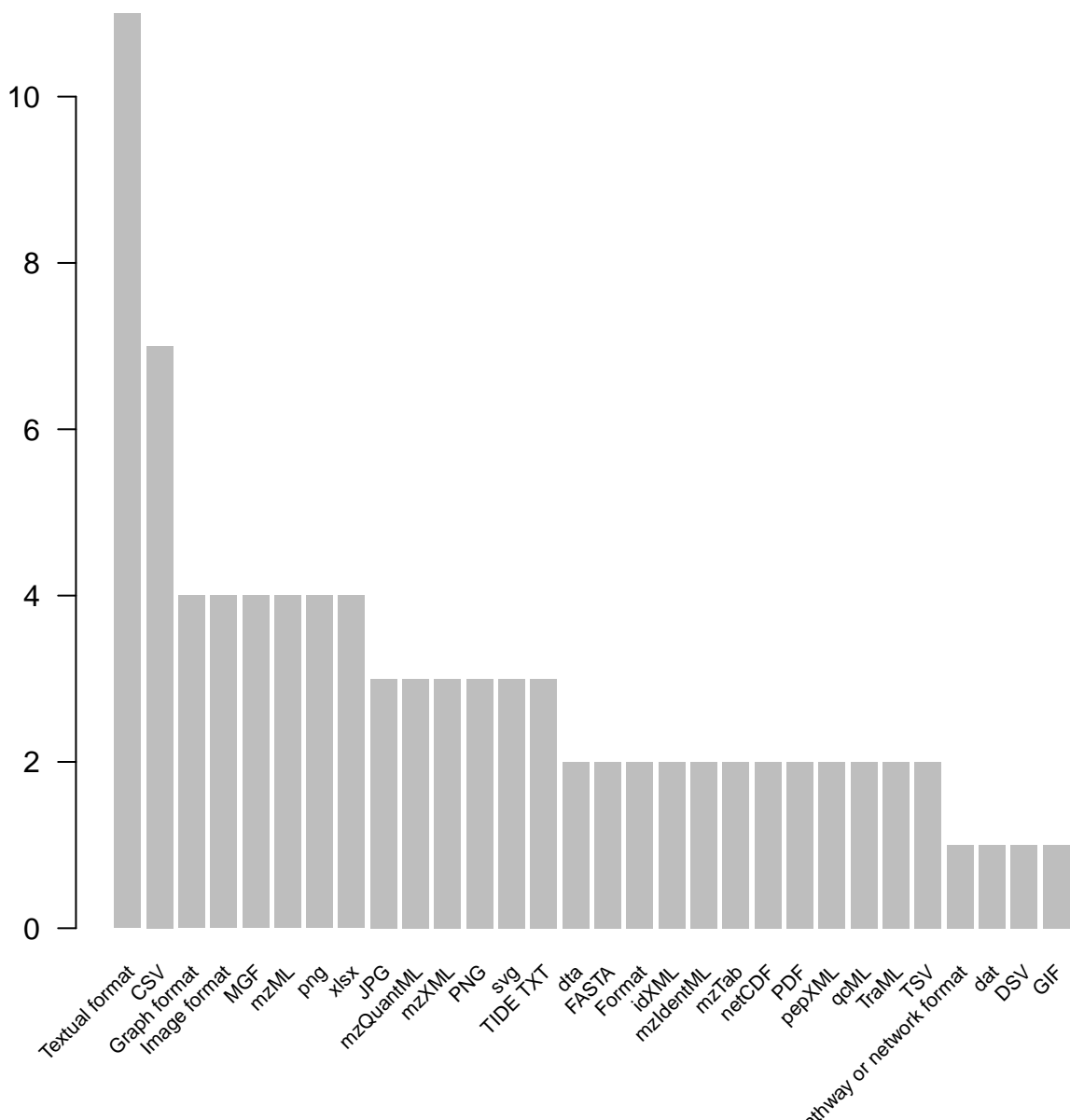
## Input format Top 30 terms



## Output format Number of terms per tool

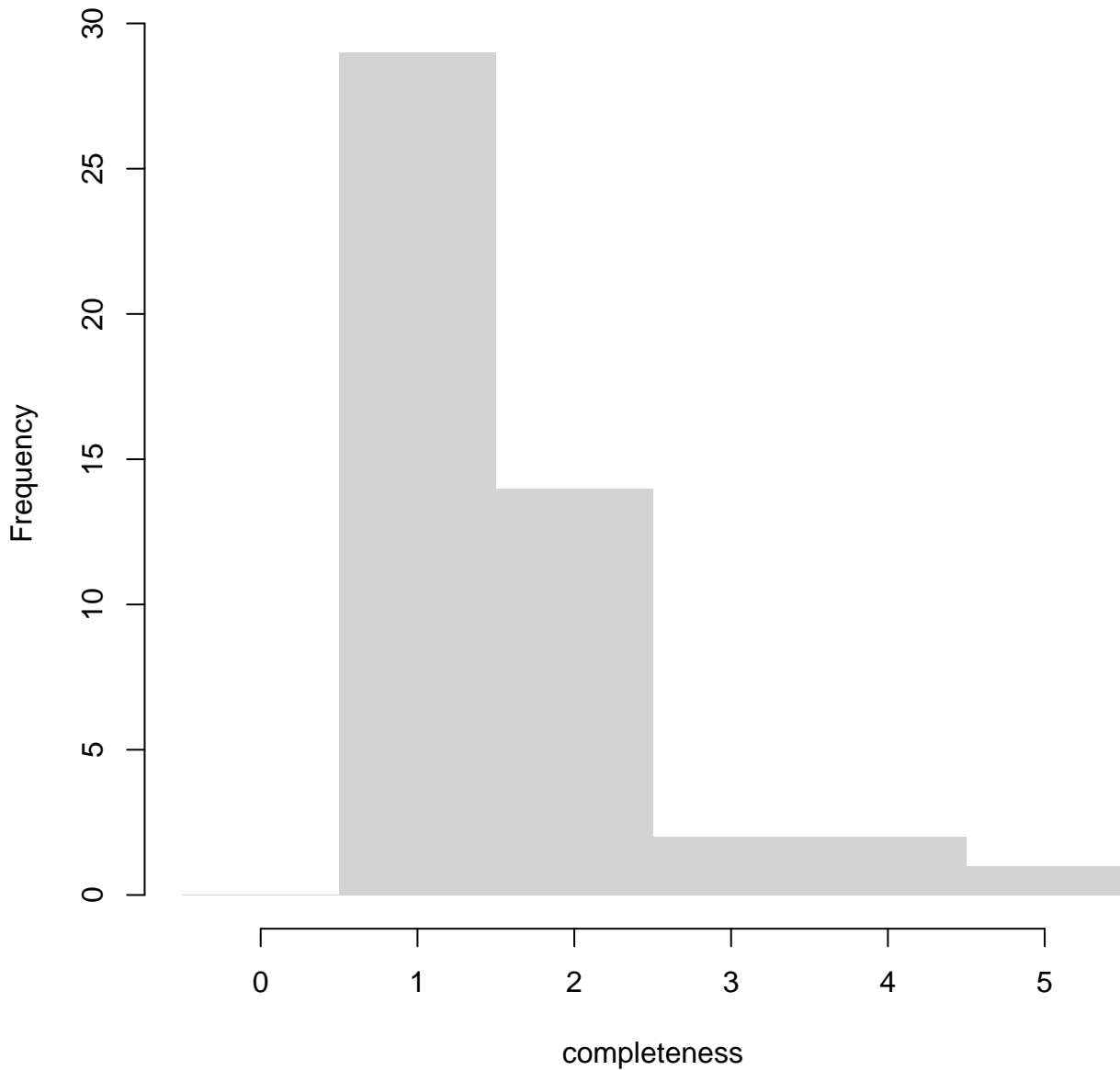


## Output format Top 30 terms

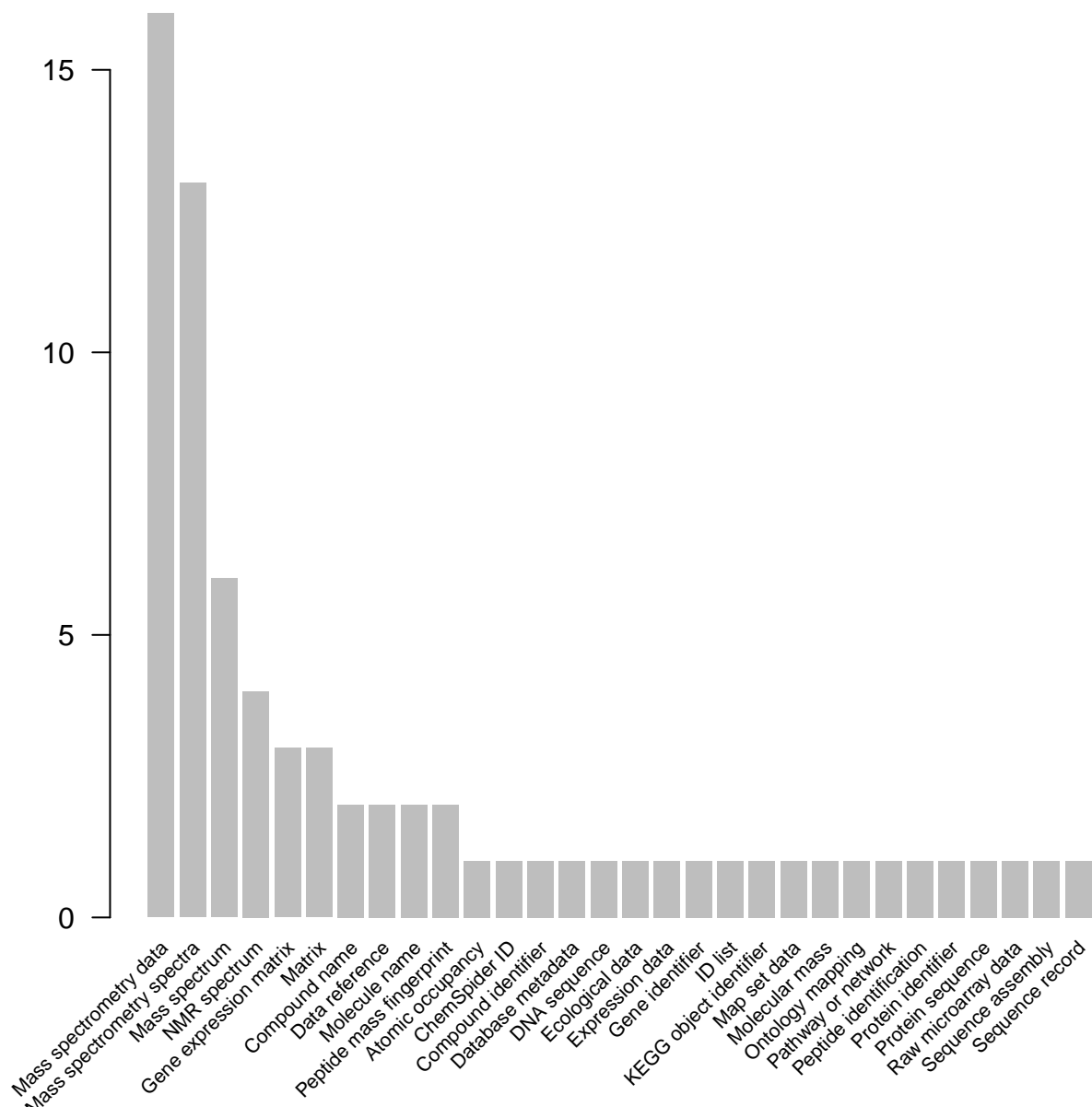




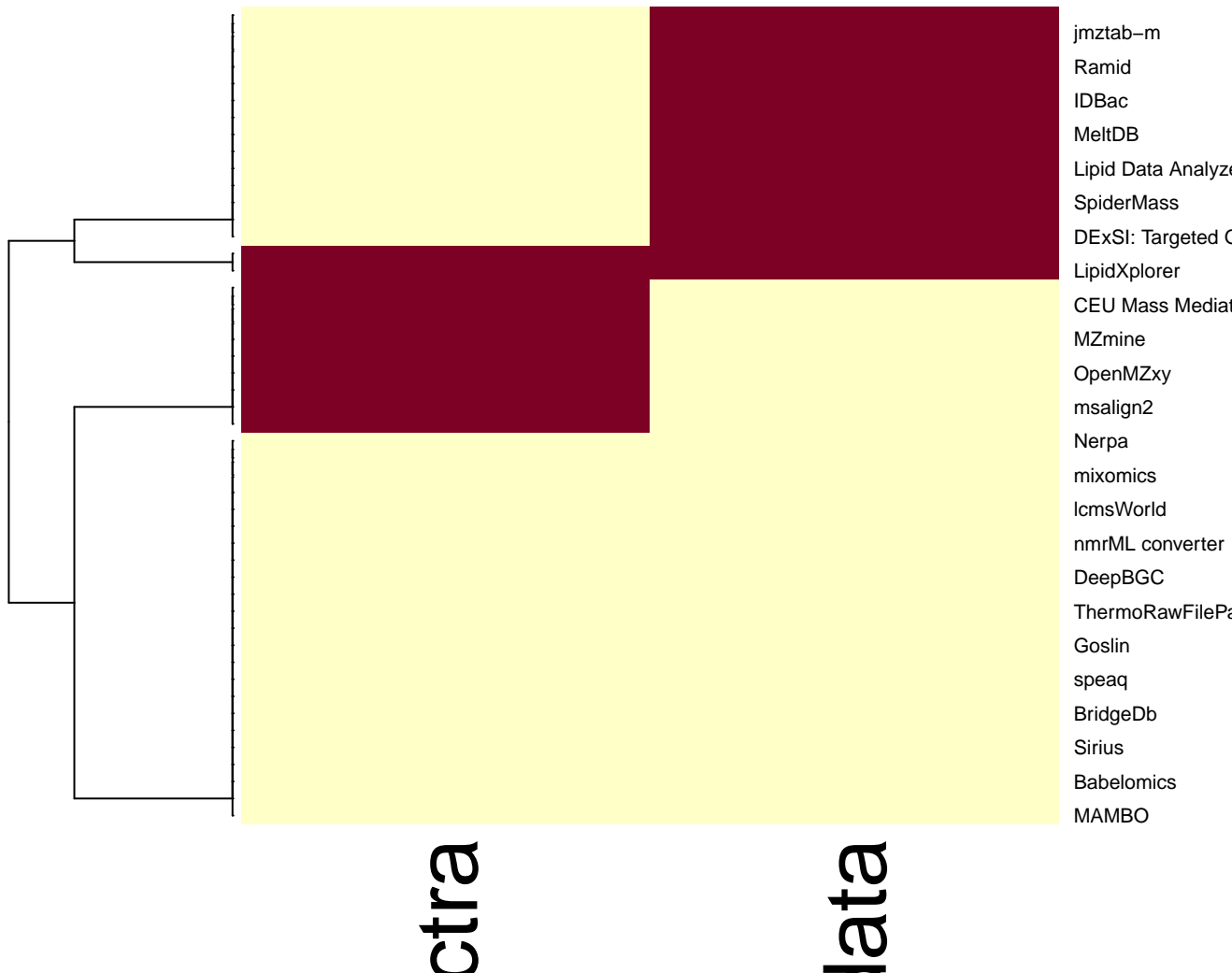
# Input data Number of terms per tool



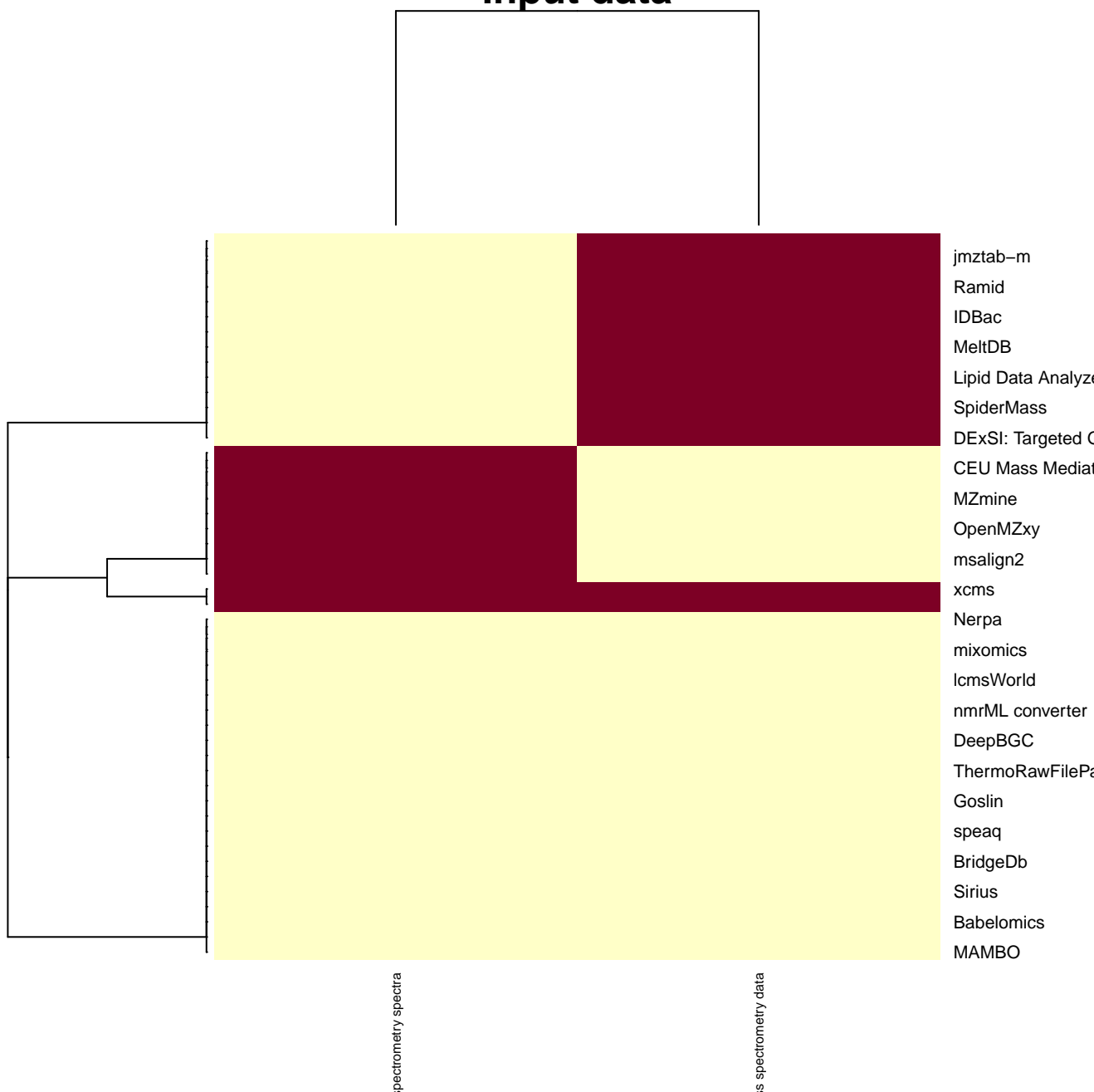
## Input data Top 30 terms

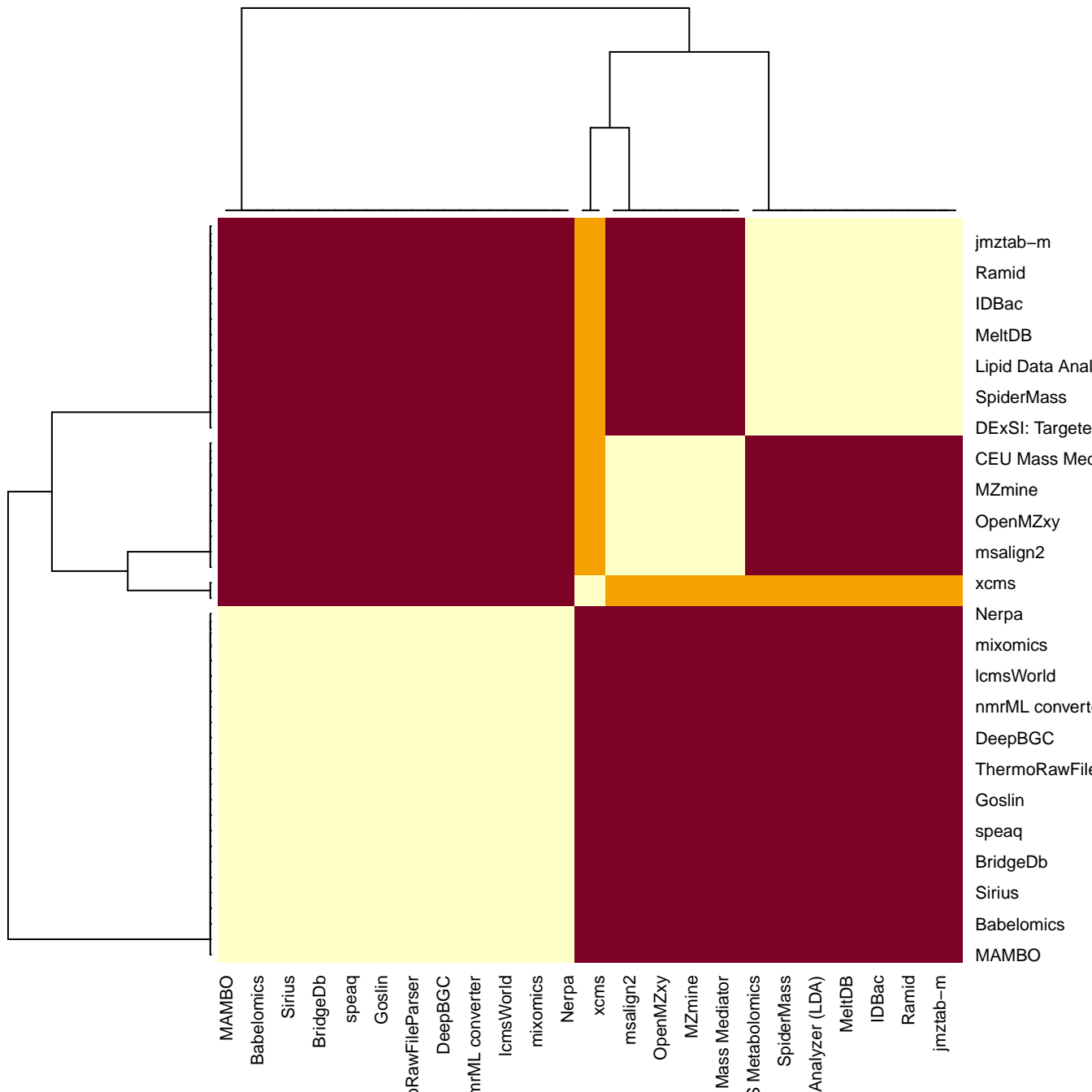


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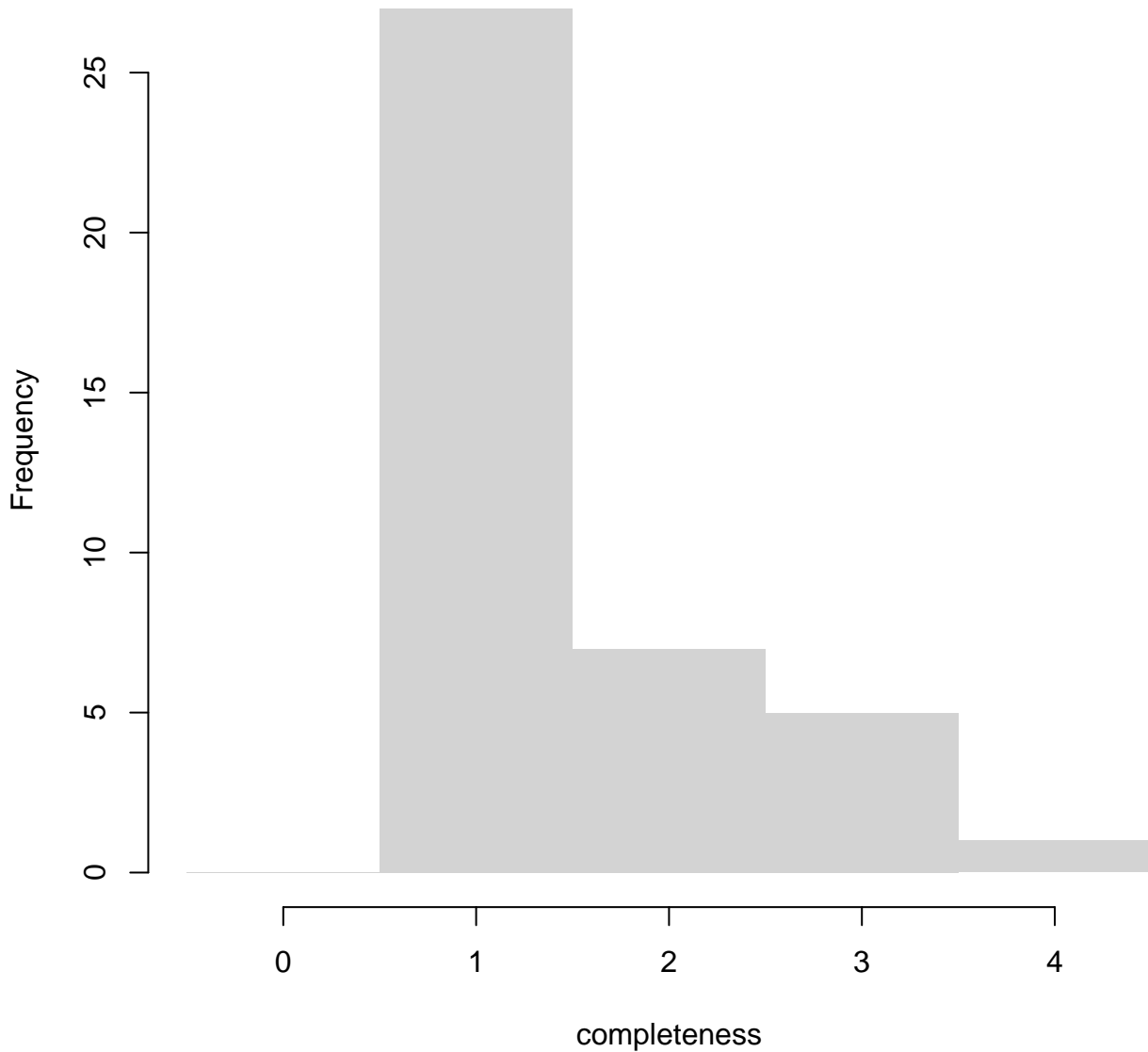


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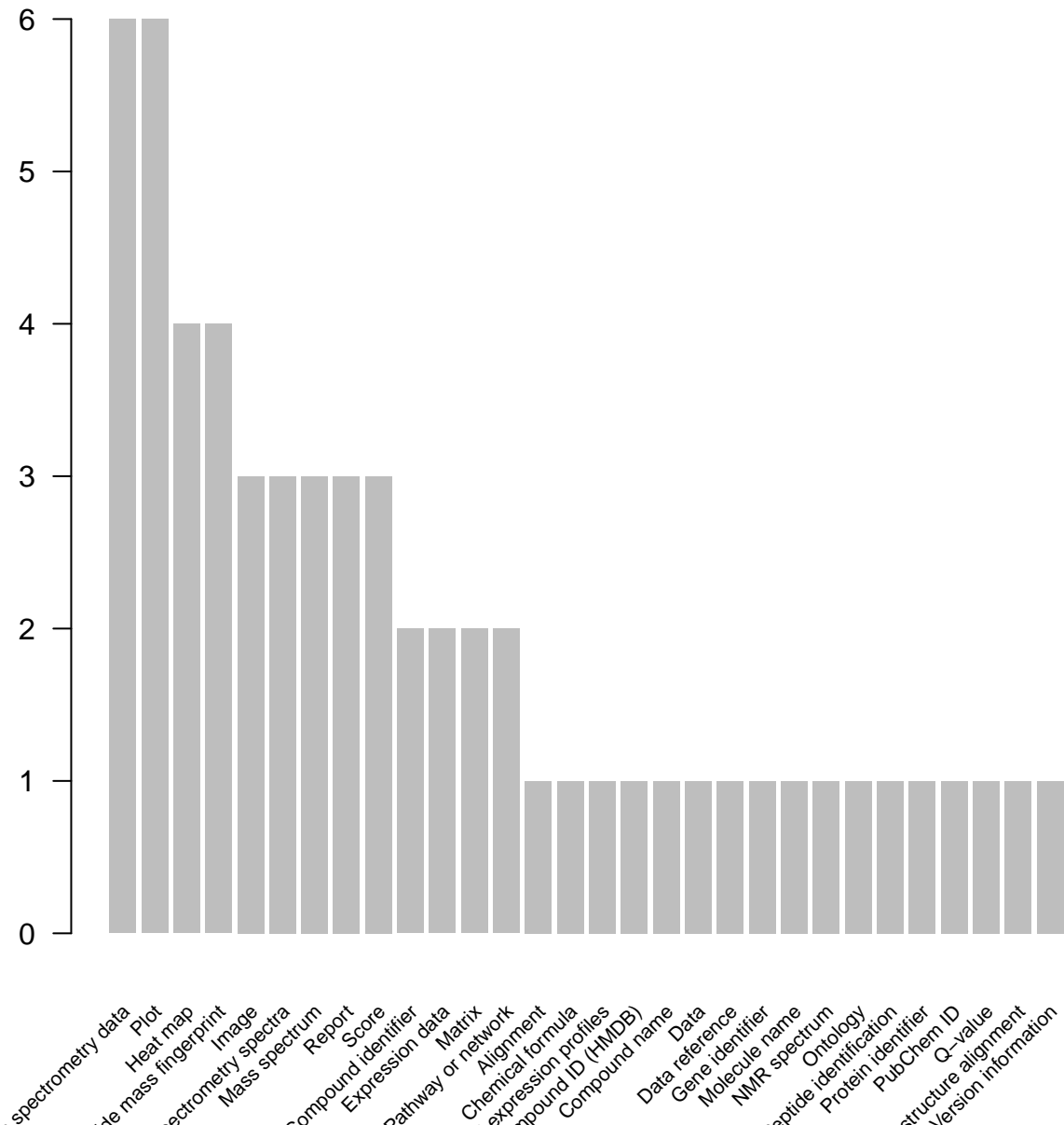




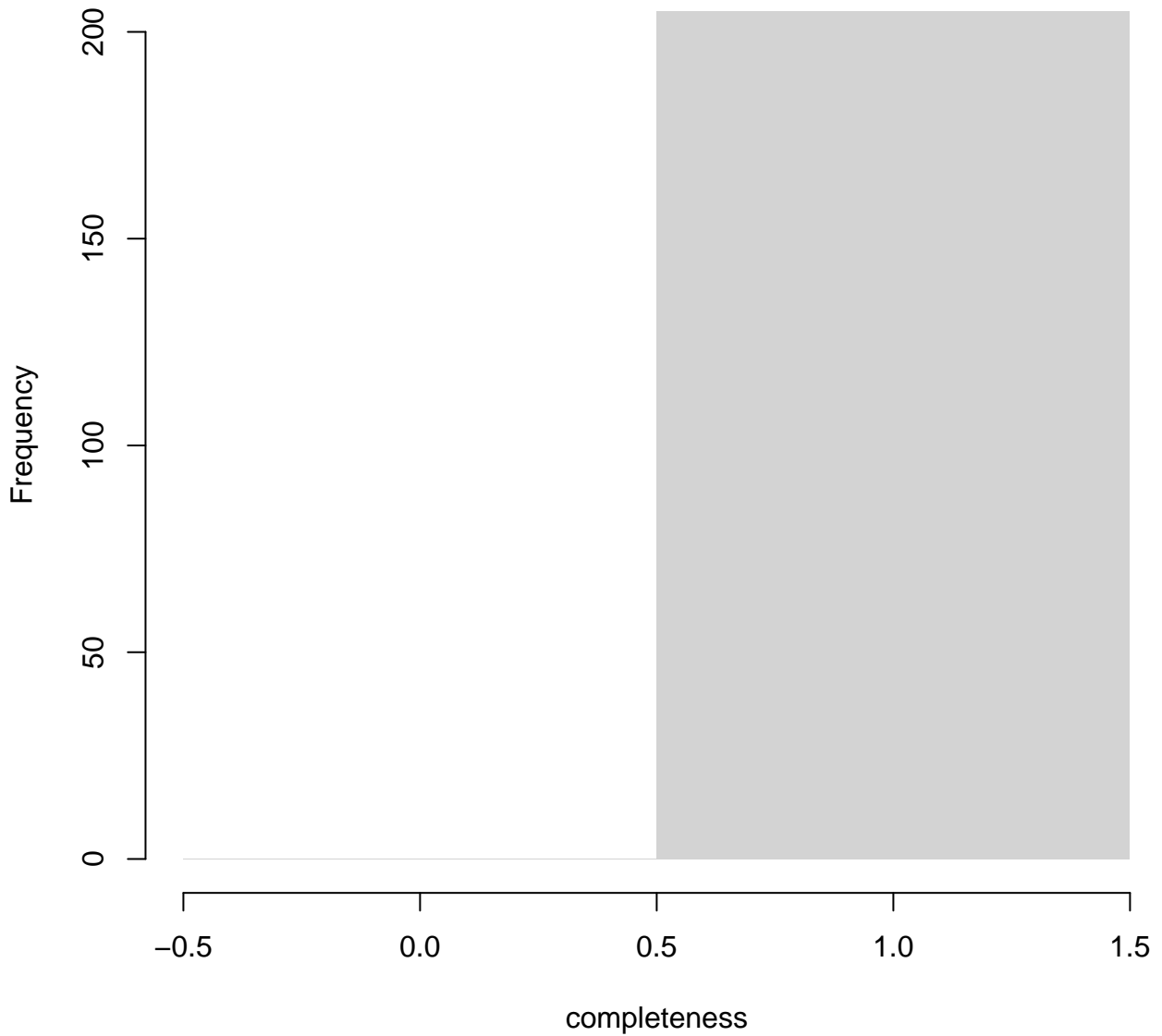
# Output data Number of terms per tool



## Output data Top 30 terms

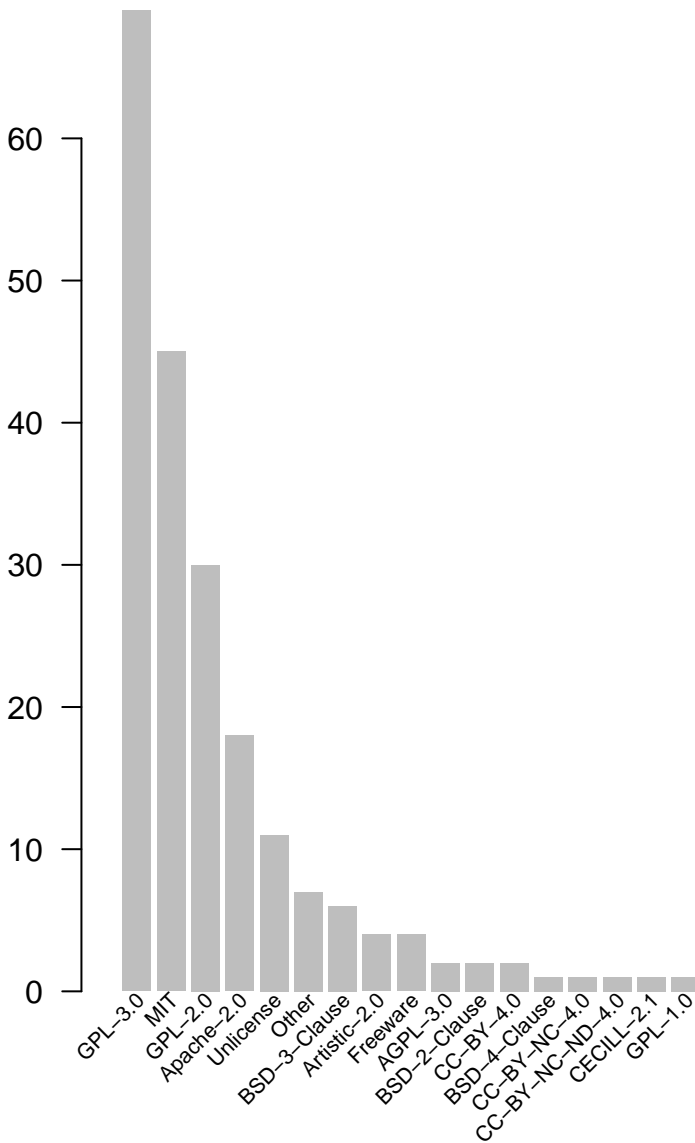


# license Number of terms per tool

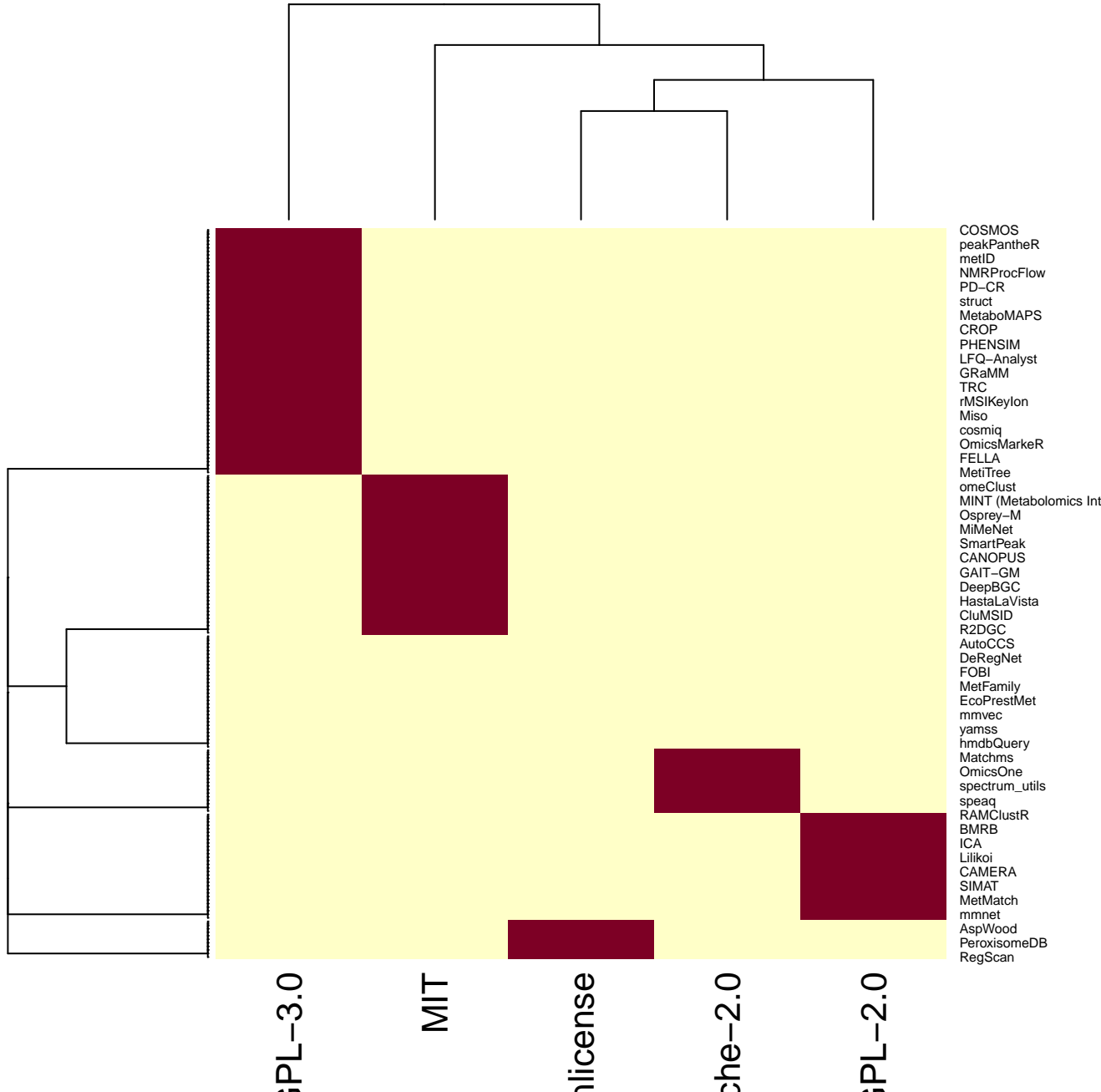




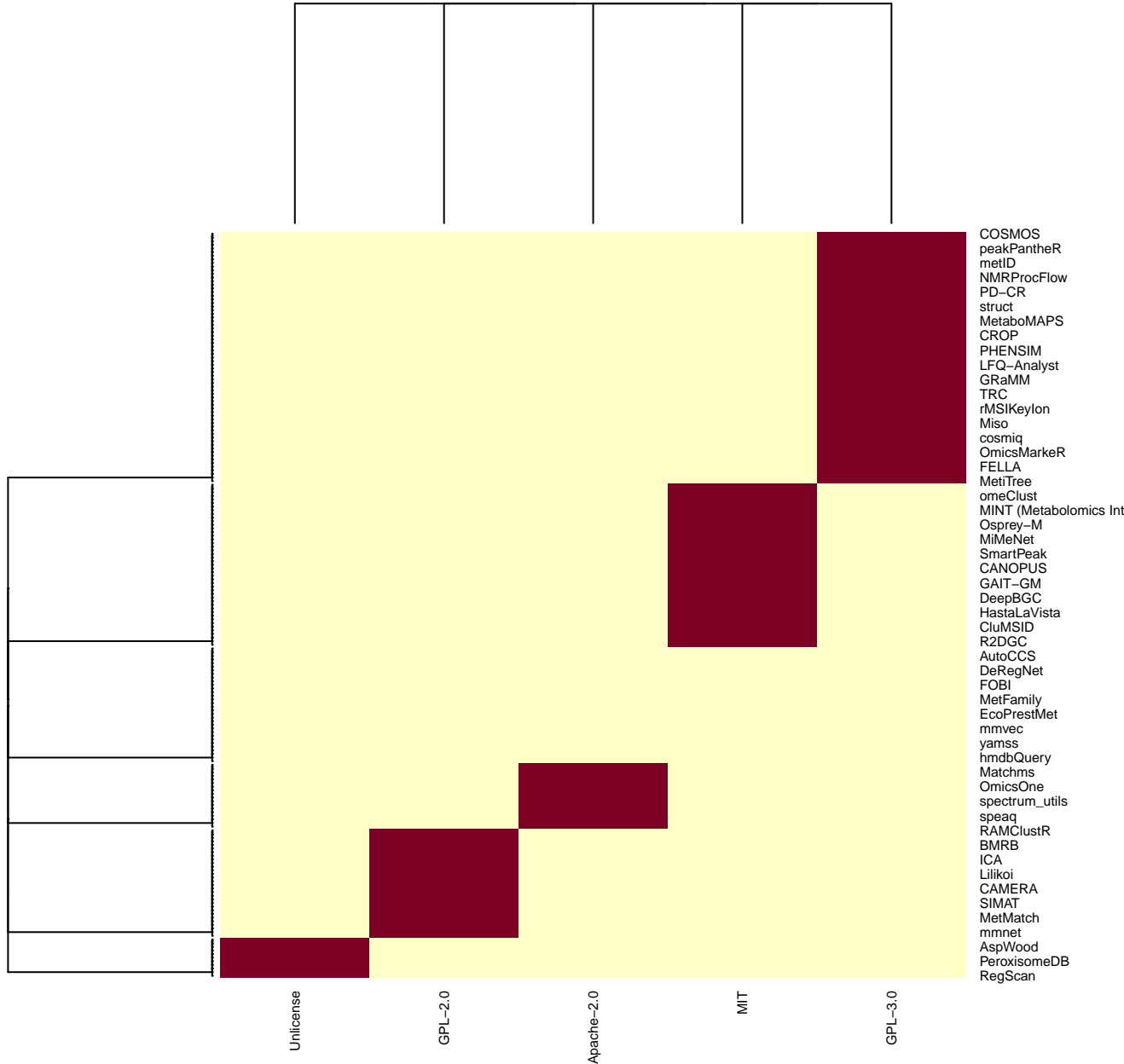
## license Top 30 terms

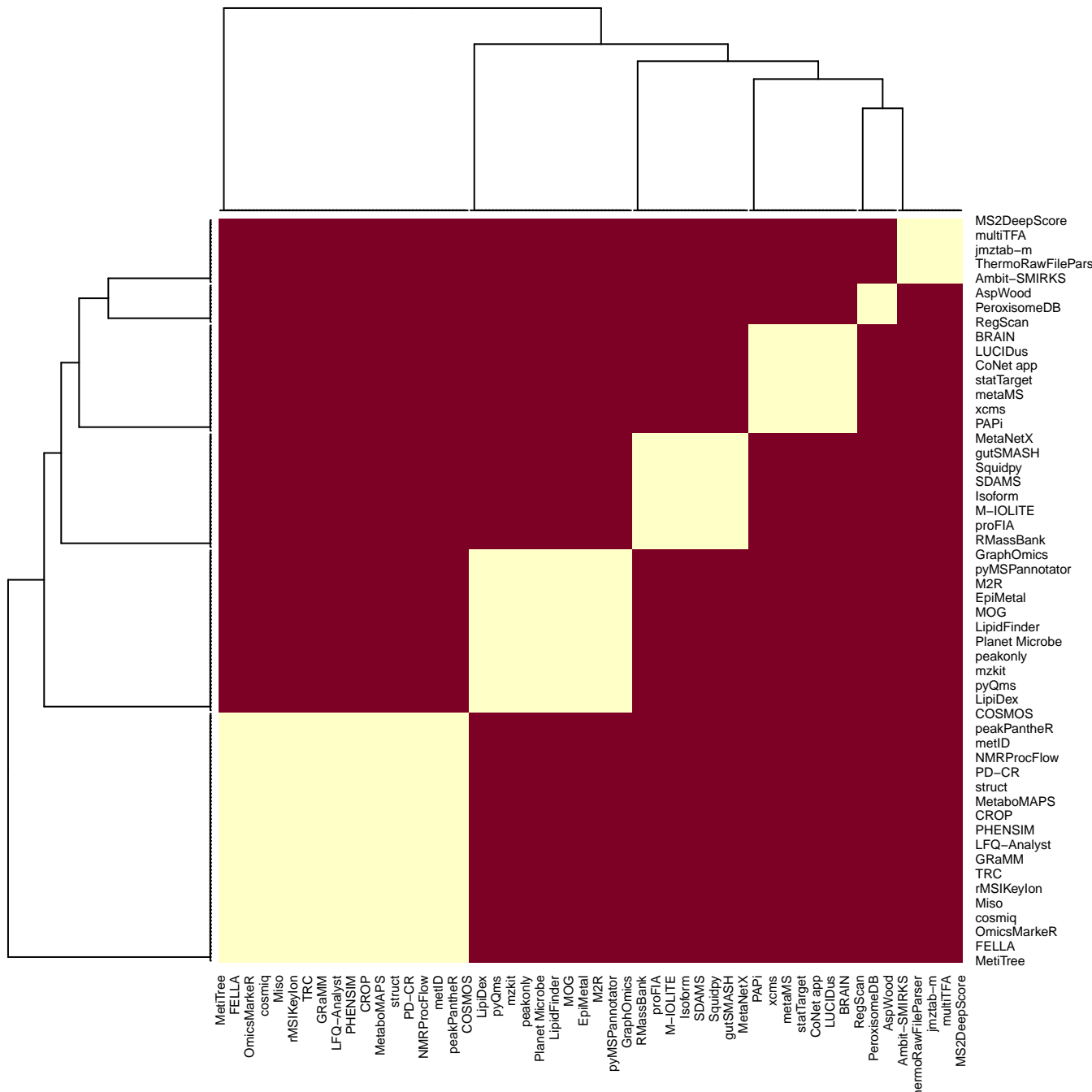


# license

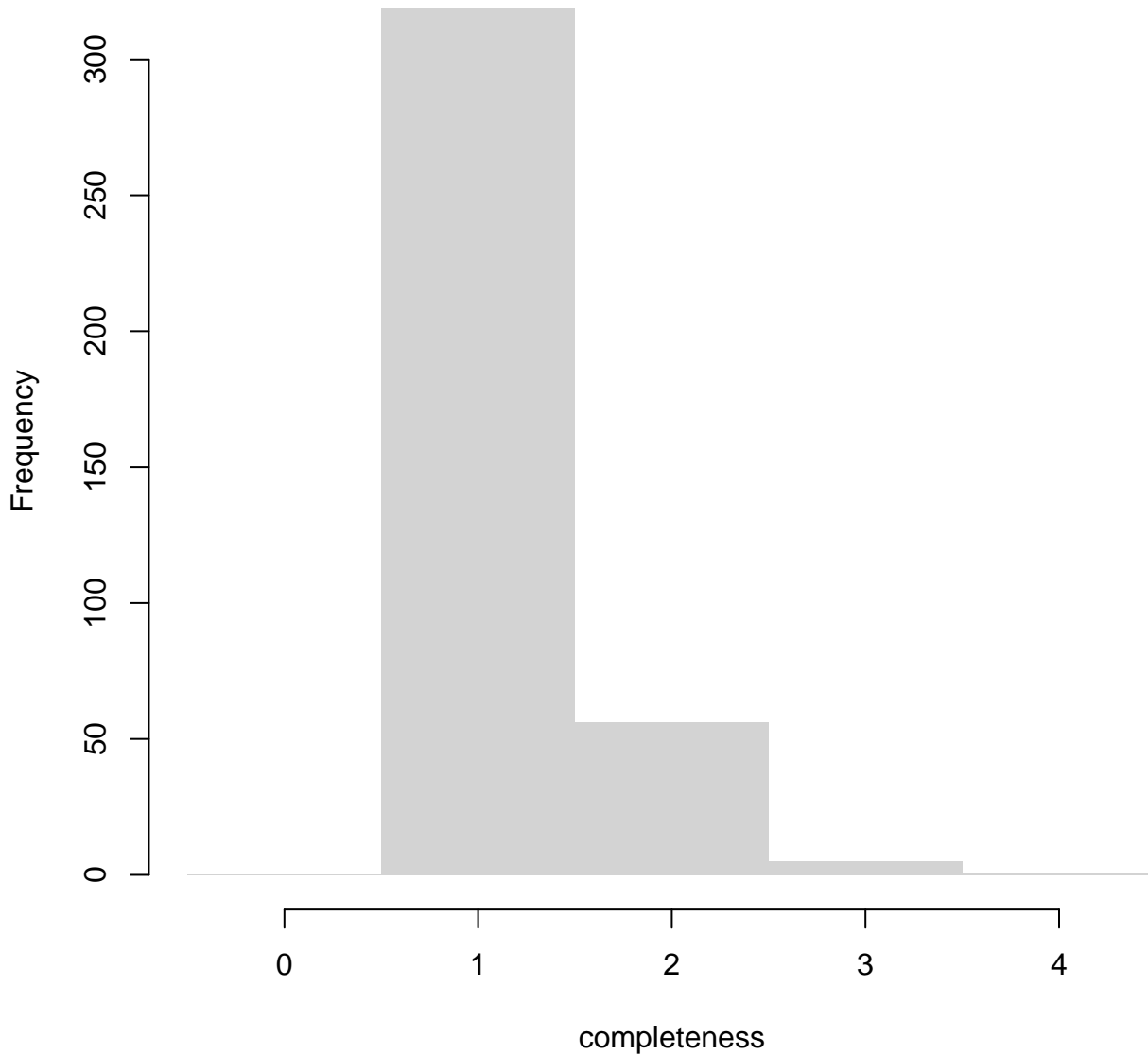


# license

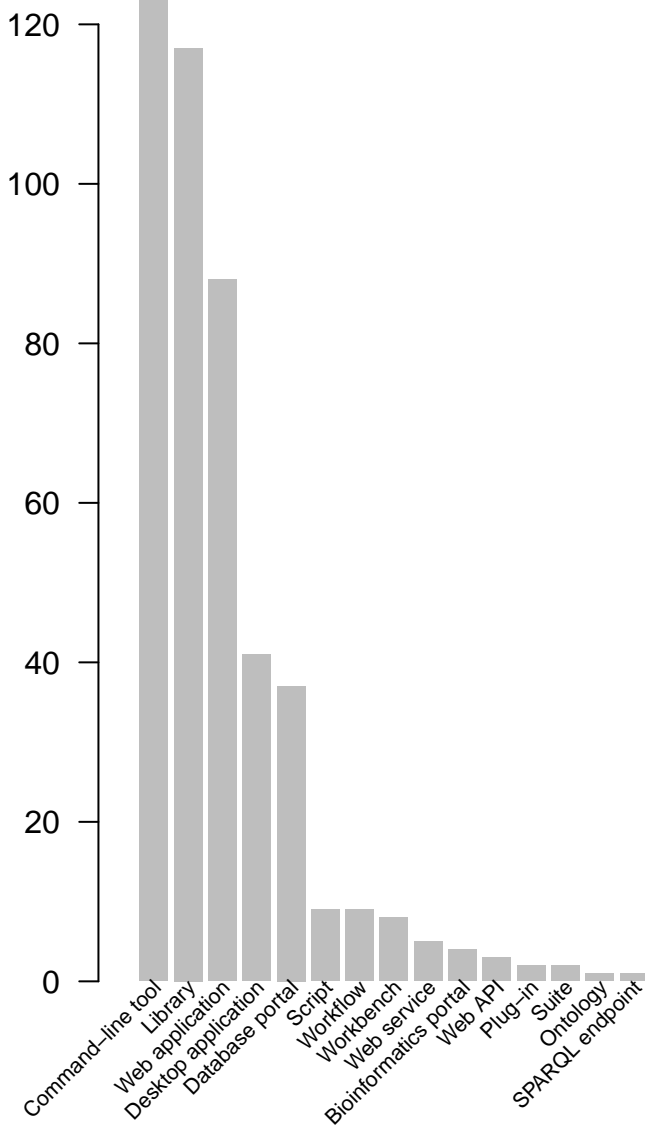




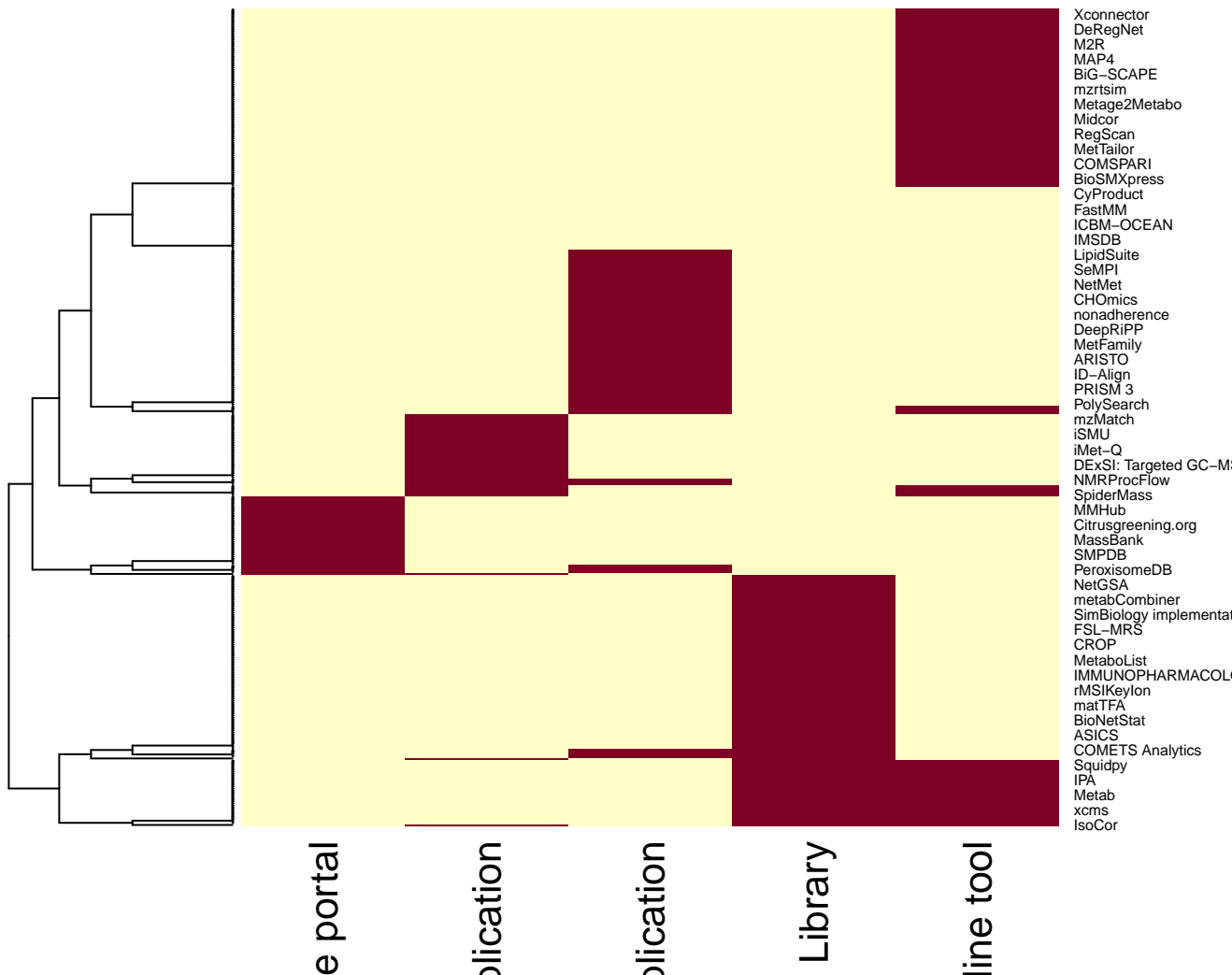
**tool type Number of terms per tool**



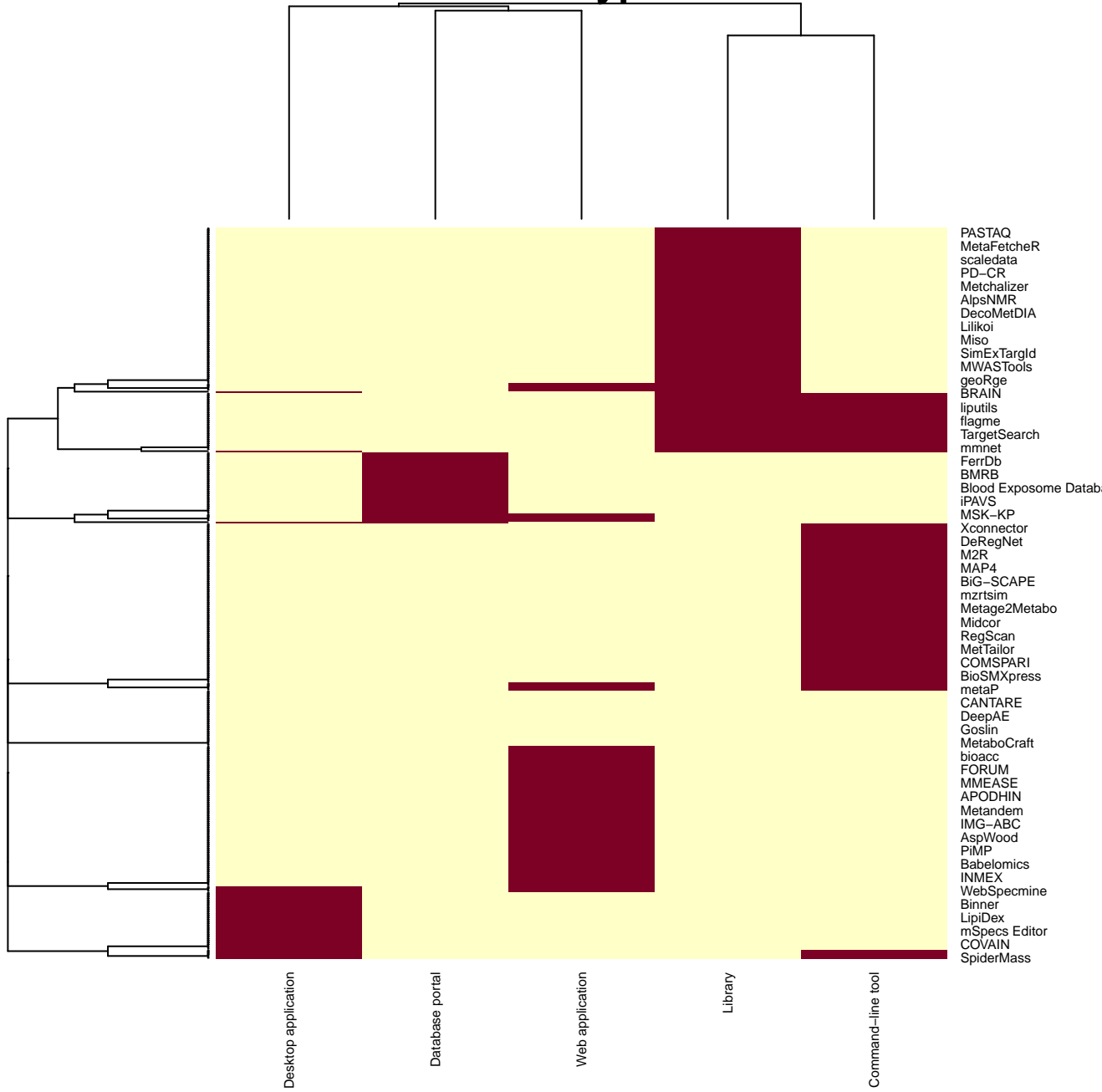
## tool type Top 30 terms



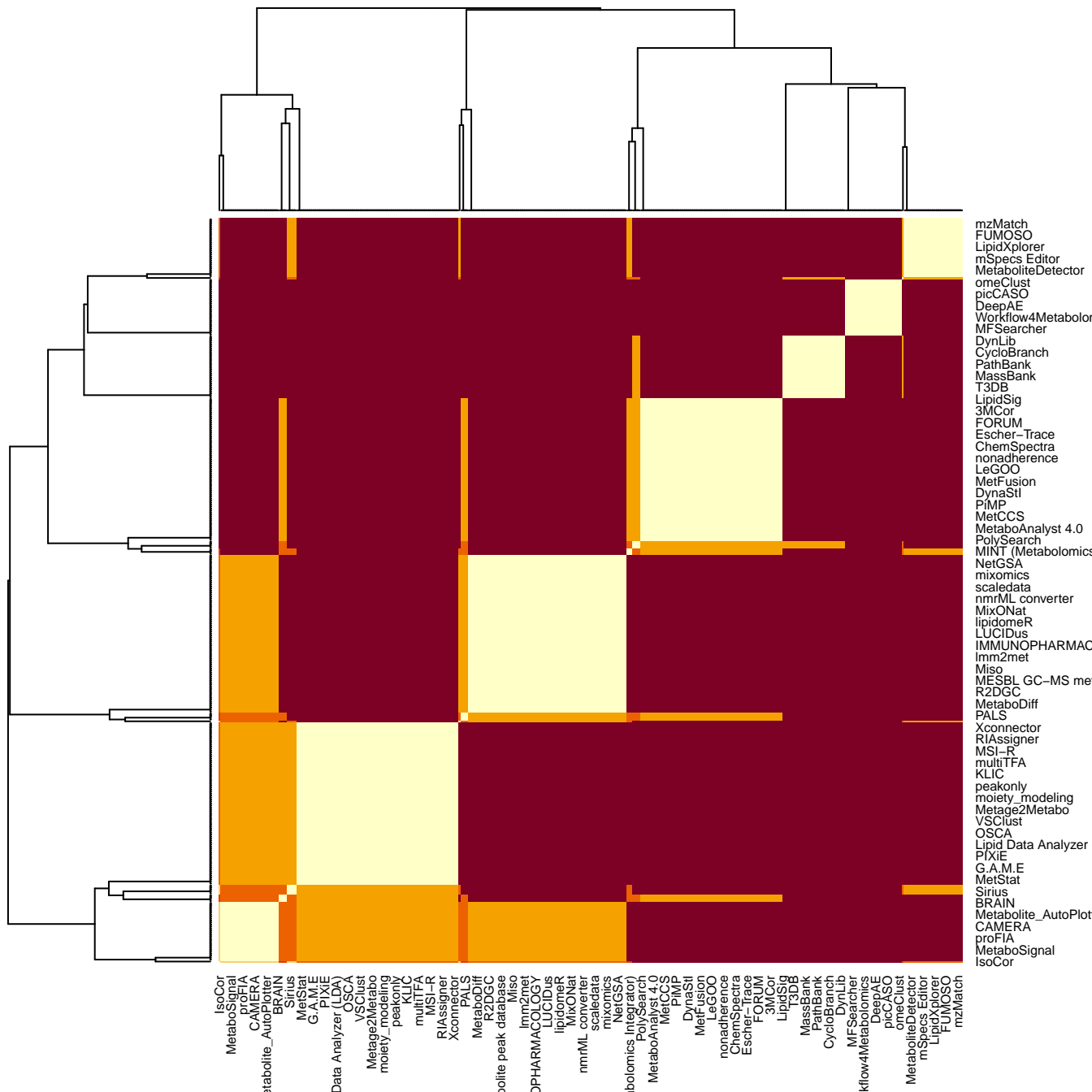
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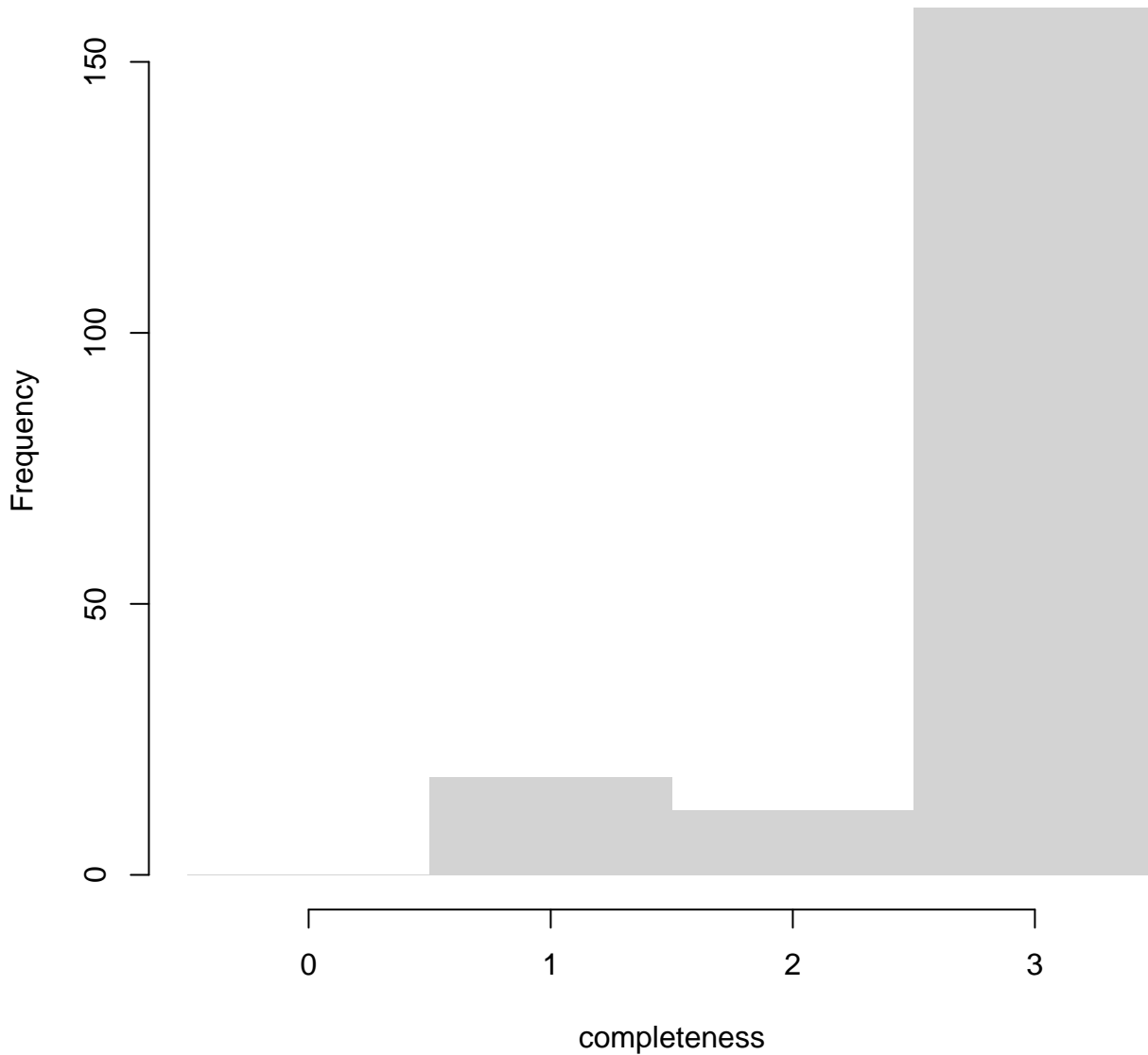
# tool type



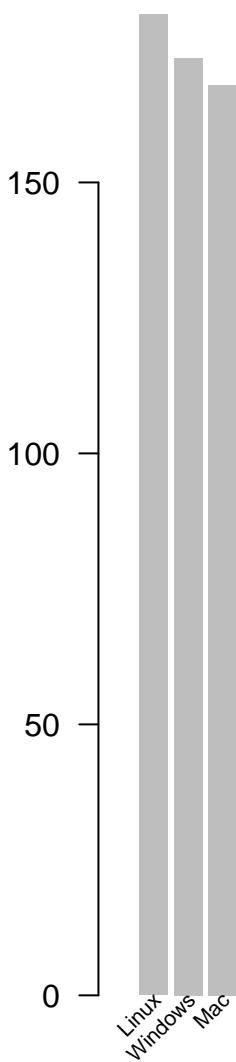




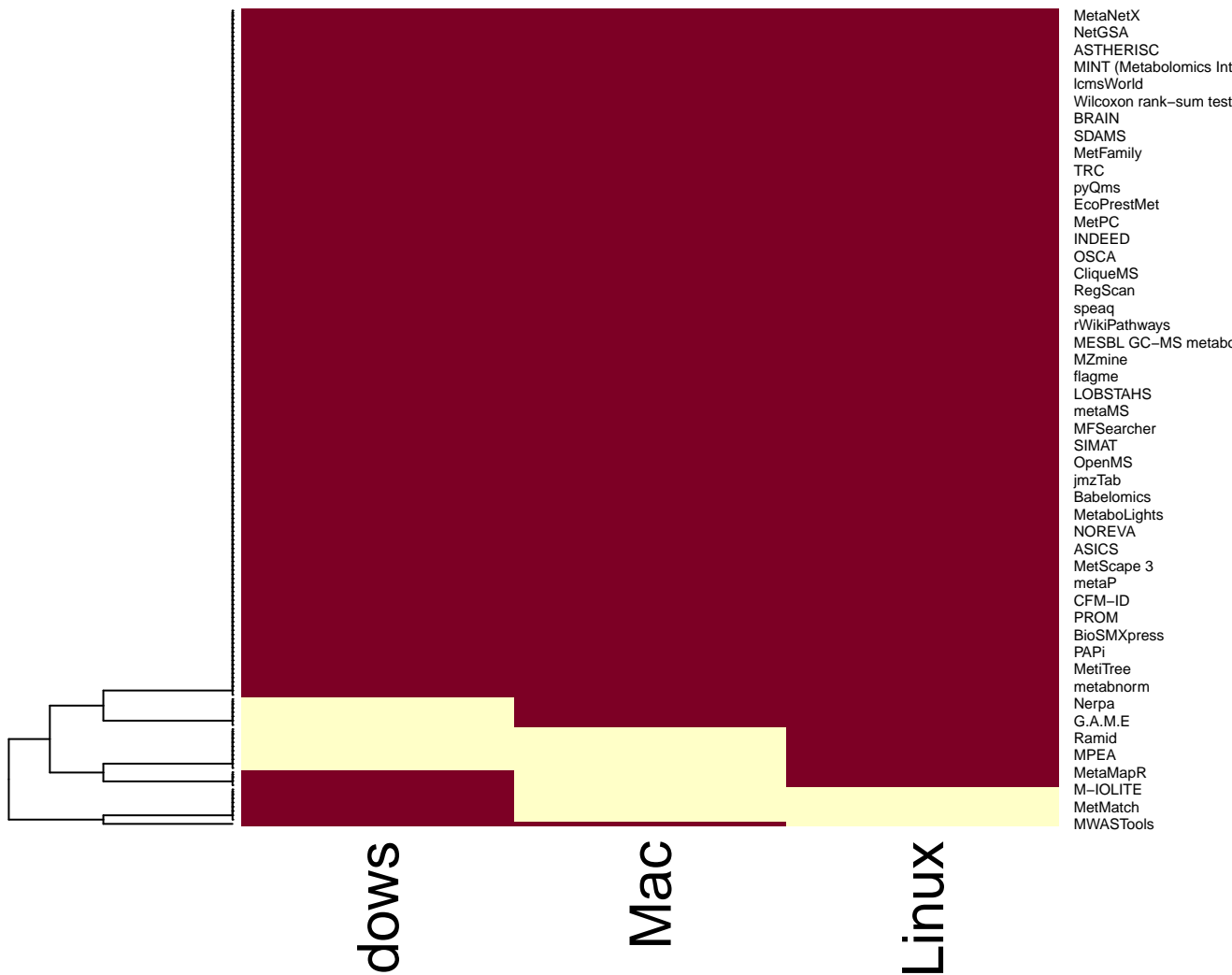
# operating system Number of terms per tool



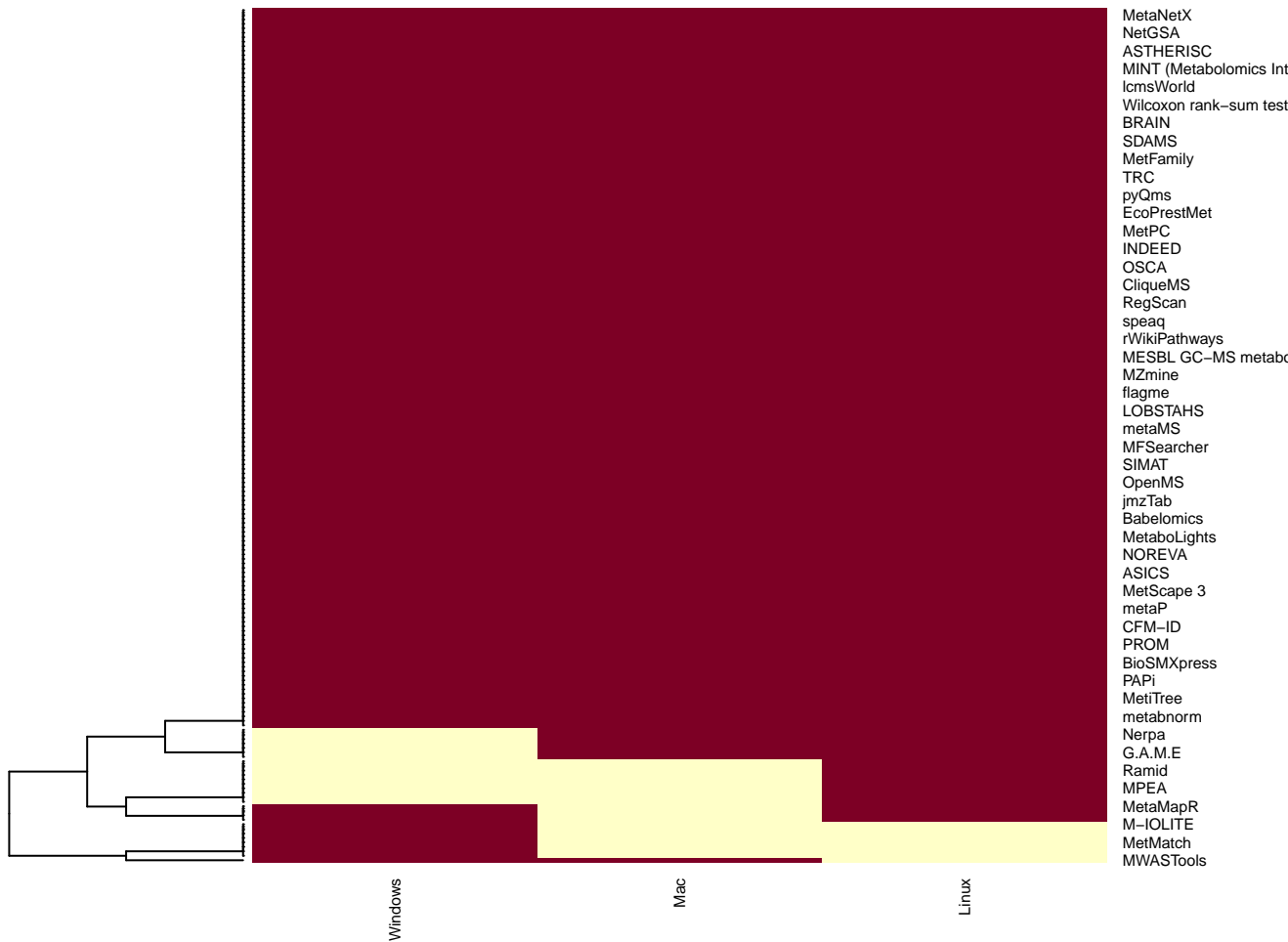
## operating system Top 30 terms

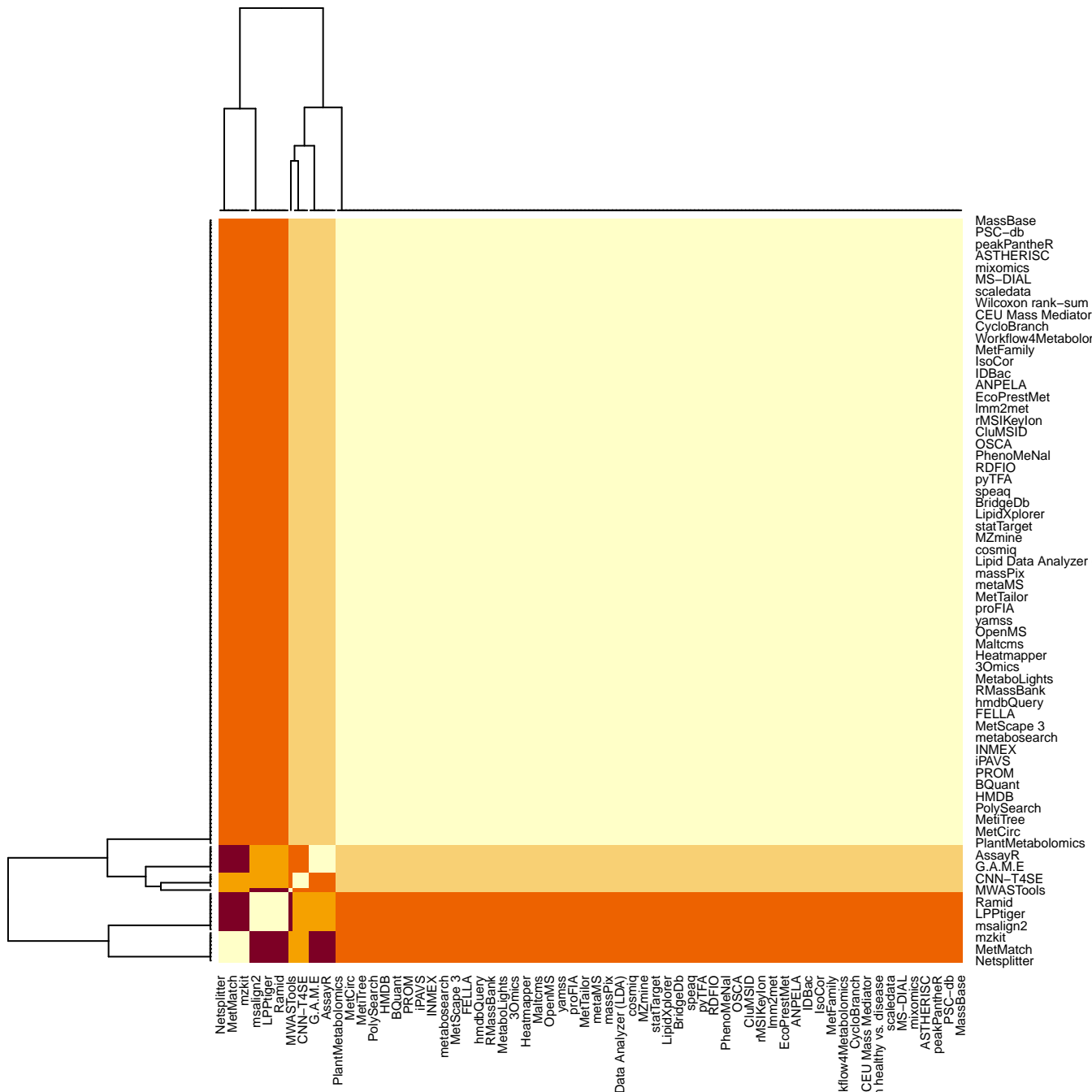


# operating system

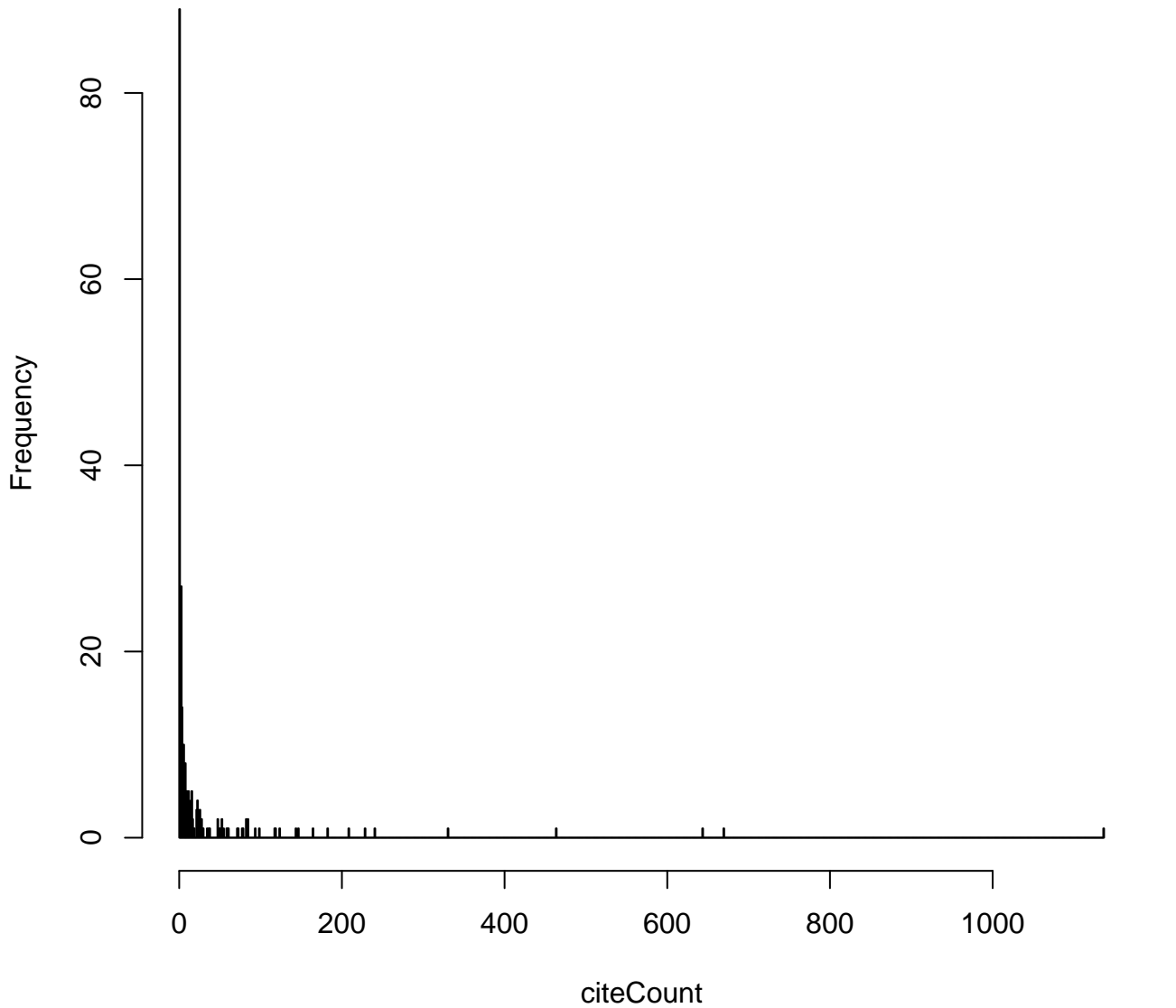


# operating system





# Citations



log-log plot of citation count

