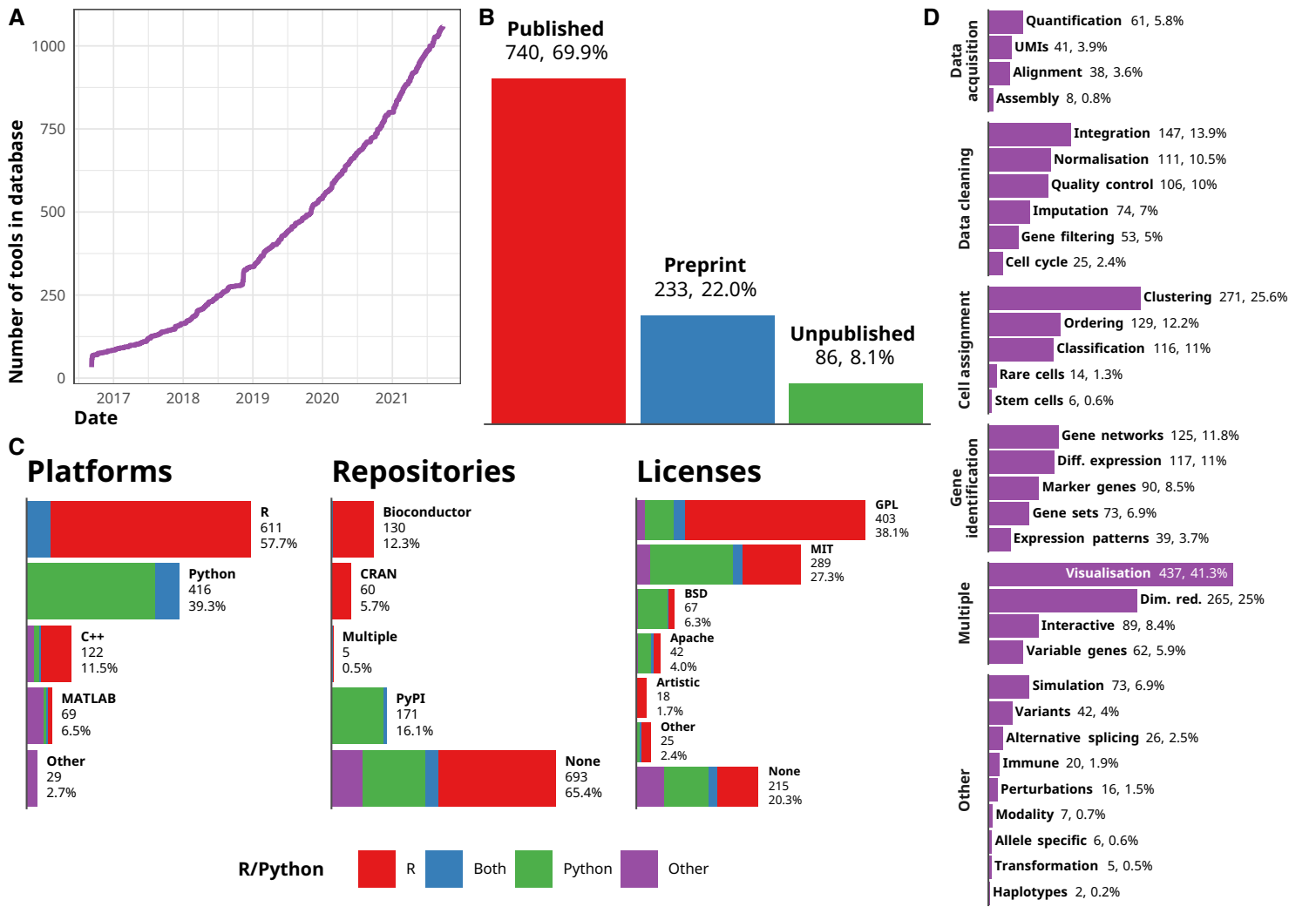
A
Number of tools in database
1000
750
500
250
0
2017
2018
2019
2020
2021
Date
B
Published
740, 69.9%
Preprint
233, 22.0%
Unpublished
86, 8.1%
C
Platforms
R
611
57.7%
Python
416
39.3%
C++
122
11.5%
MATLAB
69
6.5%
Other
29
2.7%
Repositories
Bioconductor
130
12.3%
CRAN
60
5.7%
Multiple
5
0.5%
PyPI
171
16.1%
None
693
65.4%
Licenses
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403
38.1%
MIT
289
27.3%
BSD
67
6.3%
Apache
42
4.0%
Artistic
18
1.7%
Other
25
2.4%
None
215
20.3%
R/Python
R
Both
Python
Other
D
Data acquisition
Quantification 61, 5.8%
UMIs 41, 3.9%
Alignment 38, 3.6%
Assembly 8, 0.8%
Data cleaning
Integration 147, 13.9%
Normalisation 111, 10.5%
Quality control 106, 10%
Imputation 74, 7%
Gene filtering 53, 5%
Cell cycle 25, 2.4%
Cell assignment
Clustering 271, 25.6%
Ordering 129, 12.2%
Classification 116, 11%
Rare cells 14, 1.3%
Stem cells 6, 0.6%
Gene identification
Gene networks 125, 11.8%
Diff. expression 117, 11%
Marker genes 90, 8.5%
Gene sets 73, 6.9%
Expression patterns 39, 3.7%
Multiple
Visualisation 437, 41.3%
Dim. red. 265, 25%
Interactive 89, 8.4%
Variable genes 62, 5.9%
Other
Simulation 73, 6.9%
Variants 42, 4%
Alternative splicing 26, 2.5%
Immune 20, 1.9%
Perturbations 16, 1.5%
Modality 7, 0.7%
Allele specific 6, 0.6%
Transformation 5, 0.5%
Haplotypes 2, 0.2%