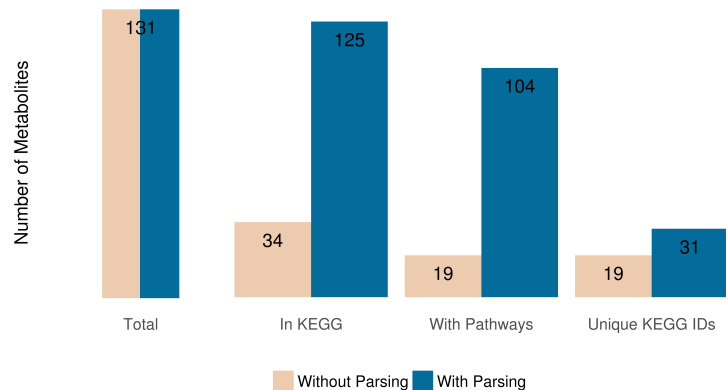


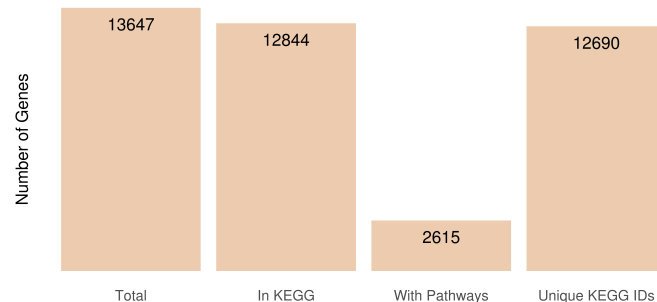
A

Text Mining Strategy Results for Metabolites



B

Text Mining Strategy Results for Genes



C

Remove common metabolite prefixes	→	d-, alpha-, beta-, cis-
Use long name for Aminoacids	→	leu: Leucine s: Serine
Change -ic acid by -ate in Acids	→	Aspartic acid: Aspartate Gluconic acid: Gluconate
Remove common chemical words	→	-sulfoxide, hidroxy-, methyl-
Use long names for Lipids	→	PC: Phosphatidylcholine SM: Sphingomyelin

D

Metabolite	Name in KEGG	KEGG ID	Similarity	Tie	Selected	Pathway ID	Pathway Name
SM C16:0	Sphingomyelin	cpd:C00550	0.19	No	Yes	path:rno00600	Sphingolipid metabolism
SM C16:0	Sphingomyelin	cpd:C00550	0.19	No	Yes	path:rno04071	Sphingolipid signaling pathway
lysoPC a C16:0	1-Lysophosphatidylcholine	cpd:C04233	0.31	Yes	Yes	path:rno00564	Glycerophospholipid metabolism
lysoPC a C16:0	2-Lysophosphatidylcholine	cpd:C04230	0.31	Yes	No	NA	NA
PC aa C28:1	Phosphatidylcholine	cpd:C00157	0.13	No	Yes	path:rno00564	Glycerophospholipid metabolism
PC aa C28:1	Phosphatidylcholine	cpd:C00157	0.13	No	Yes	path:rno05231	Choline metabolism in cancer
Ala	L-Alanine	cpd:C00041	0.50	No	Yes	path:rno00250	Alanine, aspartate and glutamate metabolism
Carnosine	Carnosine	cpd:C00386	1.00	No	Yes	path:rno00410	beta-Alanine metabolism
Val	L-Valine	cpd:C00183	0.55	No	Yes	path:rno00290	Valine, leucine and isoleucine biosynthesis
Val	N-Hydroxy-L-valine	cpd:C20313	0.29	No	No	NA	NA

E

