


artMS

Analytical R Tools
for Mass Spectrometry

<http://artms.org>



Input Files

evidence.txt

keys.txt

contrast.txt

config.yaml

- Annotations
- Summary files in different format (xls, txt) and shapes
- Numerous summary plots
- Enrichment analysis using Gprofiler
- PCA of protein abundance
- PCA of quantifications
- Clustering analysis

Functional analysis

artmsAnalysisQuantifications()



Miscellaneous

artmsEvidenceToSAINTq()
artmsEvidenceToSaintExpress()
artmsPhosfateOutput()
artmsPhotonOutput()
etc

EXCEL

-results-summary.xlsx

TXT FILES

-results-abundance-long.txt
-results-abundance-wide.txt
-results-enrich-MAC-allsignificants-corum.txt
-results-enrich-MAC-allsignificants.txt
-results-enrich-MAC-negatives-corum.txt
-results-enrich-MAC-negatives.txt
-results-enrich-MAC-positives-corum.txt
-results-enrich-MAC-positives.txt
-results-log2fc-long.txt
-results-log2fc-wide.txt
-results.log2fc-clusterheatmap-enriched.txt
-results.log2fc-clusterheatmap.txt


PDF FILES

-results-enrich-MAC-allsignificants-corum.pdf
-results-enrich-MAC-negatives-corum.pdf
-results-enrich-MAC-positives-corum.pdf
-results-pca-correlations.pdf
-results-pca-pca01.pdf
-results-pca-pca02.pdf
-results-pca-pca03.pdf
-results.clustering.abundance.all-overview.pdf
-results.clustering.abundance.all-zoom.pdf
-results.clustering.log2fc.all-overview.pdf
-results.clustering.log2fc.all-zoom.pdf
-results.clustering.log2fcSign.all-overview.pdf
-results.clustering.log2fcSign.all-zoom.pdf
-results.distributions.pdf
-results.distributionsFil.pdf
-results.imputation.pdf
-results.log2fc-clusterheatmap.pdf
-results.log2fc-clusters.pdf
-results.log2fc-corr.pdf
-results.log2fc-dendro.pdf
-results.log2fc-individuals-pca.pdf
-results.TotalQuantifications.pdf
-results.correlationConditions.pdf
-results.correlationQuantifications.pdf
-results.relativeABUNDANCE.pdf
-results.reproducibilityAbundance.pdf

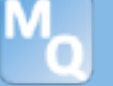
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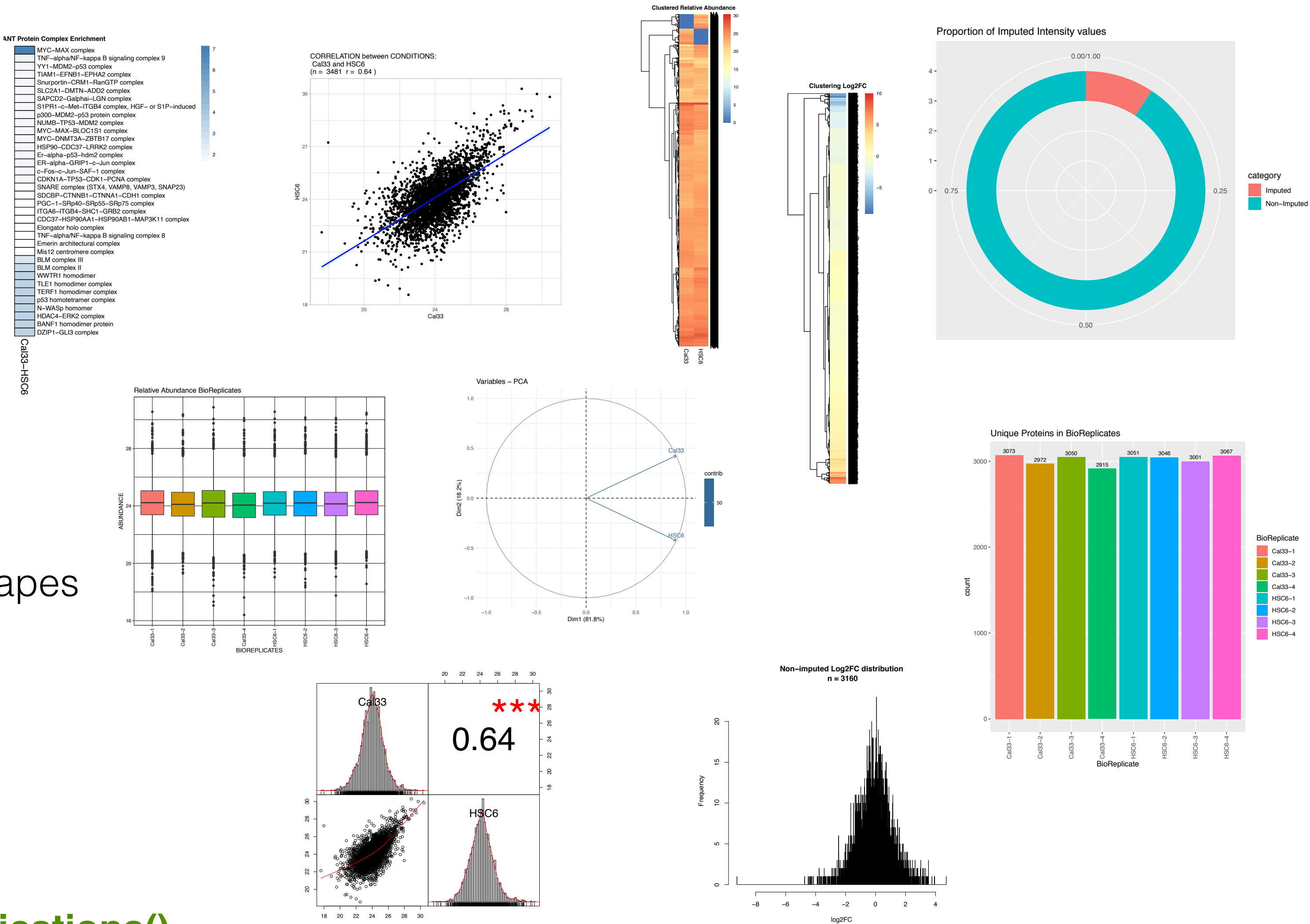
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Protein	Gene	ProteinName	EntrezID	Uniprot_PT	Comparison	log2FC	pvalue	adj.pvalue	imputed	lLog2FC	iPvalue	Cal33	HSC6	CMA	UniprotIDRef	Species
2	A0AVK6	E2F8	E2F transcription factor 8	79733	A0AVK6_S358	Cal33-HSC6	0.714864541	0.068971677	0.144027182	no	0.714864541	0.144027182	3	4	Cal33	A0AVK6	human
3	A0AVK6	E2F8	E2F transcription factor 8	79733	A0AVK6_S417	Cal33-HSC6	-1.643170638	0.020905156	0.063210769	no	-1.643170638	0.063210769	3	4	HSC6	A0AVK6	human
4	A0AVK6	E2F8	E2F transcription factor 8	79733	A0AVK6_S71	Cal33-HSC6	-0.692623032	0.740104187	0.809434278	no	-0.692623032	0.809434278	2	2	HSC6	A0AVK6	human
5	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S676	Cal33-HSC6	-2.4675906	0.352698385	0.468321968	no	-2.4675906	0.468321968	1	2	HSC6	A0FGR8	human
6	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S691	Cal33-HSC6	-0.198128315	0.405278123	0.518470215	no	-0.198128315	0.518470215	3	3	HSC6	A0FGR8	human
7	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S691;A0FGR8_S693	Cal33-HSC6	#NUM!			0 yes	3.66610245	0.0198395	2	0	Cal33	A0FGR8	human
8	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S693	Cal33-HSC6	0.950304175	0.15494643	0.254530287	no	0.950304175	0.254530287	4	4	Cal33	A0FGR8	human
9	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S736	Cal33-HSC6	-0.019383937	0.932856234	0.952326477	no	-0.019383937	0.952326477	4	3	HSC6	A0FGR8	human
10	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S743	Cal33-HSC6	#NUM!			0 yes	-7.793852072	0.0244517	0	4	HSC6	A0FGR8	human
11	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S758;A0FGR8_S761	Cal33-HSC6	-0.388729606	0.906408486	0.934755075	no	-0.388729606	0.934755075	1	3	HSC6	A0FGR8	human
12	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_S761	Cal33-HSC6	-0.710786851	0.002631099	0.016113125	no	-0.710786851	0.016113125	2	4	HSC6	A0FGR8	human
13	A0FGR8	ESYT2	extended synaptotagmin 2	57488	A0FGR8_T701;A0FGR8_T705	Cal33-HSC6	-1.205399144	0.017277448	0.055442631	no	-1.205399144	0.055442631	4	4	HSC6	A0FGR8	human
14	A0JLT2	MED19	mediator complex subunit 1	219541	A0JLT2_S226	Cal33-HSC6	-0.628616166	0.213593795	0.32335184	no	-0.628616166	0.32335184	4	4	HSC6	A0JLT2	human

log2fclmputed

log2fclmpExt

wide_iLog2fc

wide_iPvalue

enrichALL

enrichMACpos

enrichMACneg

enMACallCorum

enMACposCorum

enMACnegCorum

+