

Supplementary for “Unveiling the Biomarkers of Cancer and COVID-19 and Their Regulations in Different Organs by Integrating RNA-Seq Expression and Protein-Protein Interactions”

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Table S1: Top 10 Up and Down Regulated Genes for Cancer-Vs-Normal

Up Regulated Gene	p-value	FC Value	Down Regulated Gene	p-value	FC Value
MMP11	1.30E-212	24.82	ADH1B	2.21E-110	-52.24
UBE2C	9.21E-93	11.76	SFRP1	3.04E-82	-21.00
BIRC5	2.83E-83	10.50	C7	2.67E-73	-14.14
TOP2A	1.28E-90	10.40	HMGCS2	3.05E-37	-10.82
TPX2	4.19E-97	10.10	HSPB6	4.82E-68	-10.71
FOXM1	2.64E-92	9.19	FAM107A	5.73E-129	-10.27
MMP9	8.23E-69	8.95	RBP4	1.91E-39	-10.07
CTHRC1	5.00E-75	8.48	FABP4	3.83E-35	-10.04
CCNB2	7.34E-81	8.24	MAL	8.59E-28	-9.35
COL1A1	9.57E-65	7.61	DES	9.49E-30	-8.85

Table S2: Top 10 Up and Down Regulated Genes for COVID-19-Vs-Normal

Up Regulated Gene	p-value	FC Value	Down Regulated Gene	p-value	FC Value
MTRNR2L8	6.49E-65	134.59	RPS21	6.18E-59	-7.06
MTRNR2L4	4.76E-57	32.60	NDUFB7	1.37E-56	-6.73
CXCL10	1.63E-71	10.13	EDF1	2.13E-57	-6.30
IFIT3	3.39E-87	8.25	ROMO1	1.51E-56	-6.19
IFIT1	5.13E-90	7.53	OAZ1	5.92E-66	-5.46
IFIT2	1.32E-68	7.20	POLR2L	6.61E-53	-5.45
IFI44L	5.53E-84	7.18	PDIA4	1.02E-42	-5.21
RSAD2	1.86E-58	5.74	RPLP1	6.13E-55	-5.13
OAS2	9.35E-60	5.54	RPL35	2.35E-52	-5.10
CXCL11	4.21E-59	4.97	SEC61B	1.99E-49	-5.01

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Table S3: Link and Description of supplementary files

Link	Description
http://www.nittrkol.ac.in/indrajit/projects/Cancer-COVID-19-Biomarkers/downloads/supplementary/UpandDownRegulatedGenes-Cancer	Up and down regulated genes for Cancer
http://www.nittrkol.ac.in/indrajit/projects/Cancer-COVID-19-Biomarkers/downloads/supplementary/UpandDownRegulatedGenes-COVID-19	Up and down regulated genes for COVID-19
http://www.nittrkol.ac.in/indrajit/projects/Cancer-COVID-19-Biomarkers/downloads/supplementary/PPIGenes-Cancer	Genes identified from PPI of Cancer data
http://www.nittrkol.ac.in/indrajit/projects/Cancer-COVID-19-Biomarkers/downloads/supplementary/PPIGenes-COVID-19	Genes identified from PPI of COVID-19 data

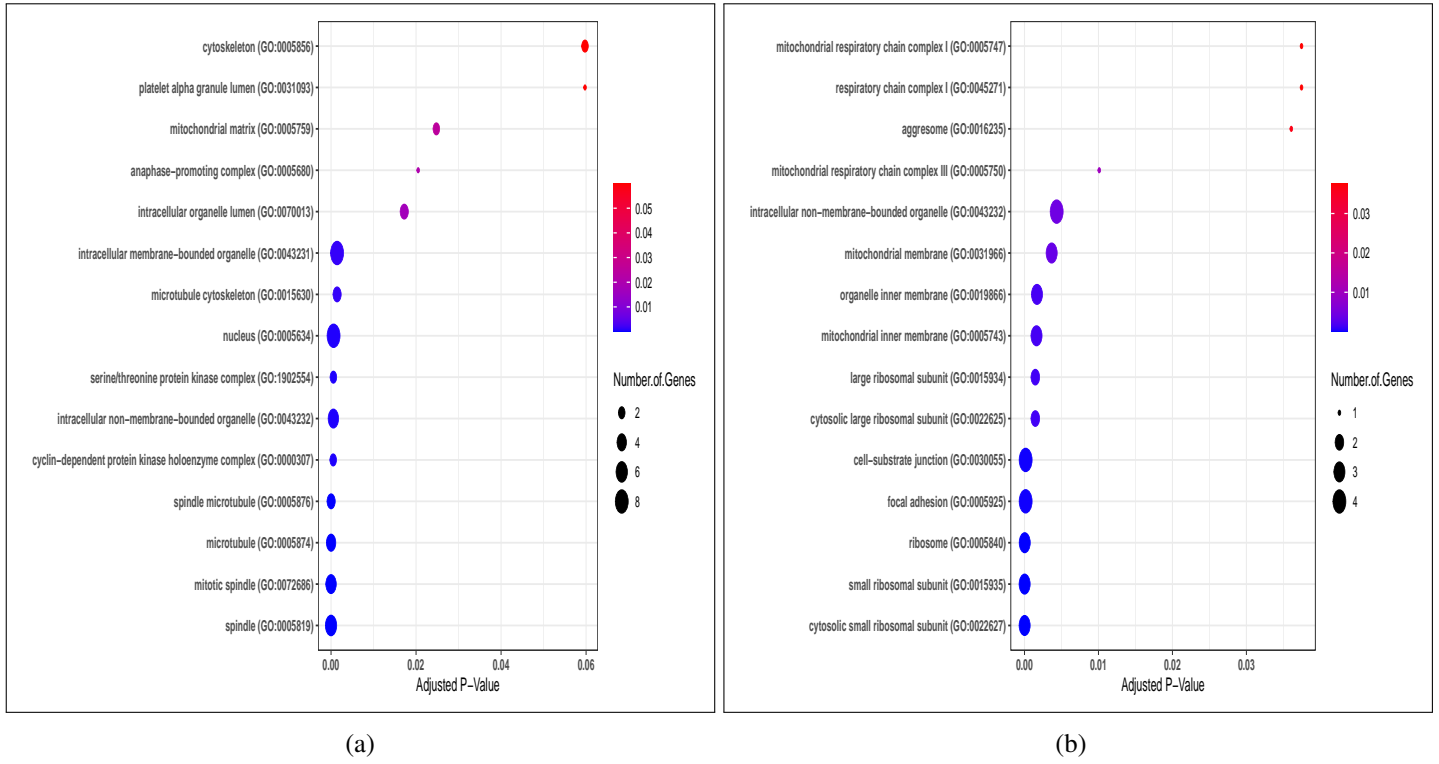


Figure S1: Significant GO Cellular Processes corresponding to Biomarkers for (a) Cancer and (b) COVID-19

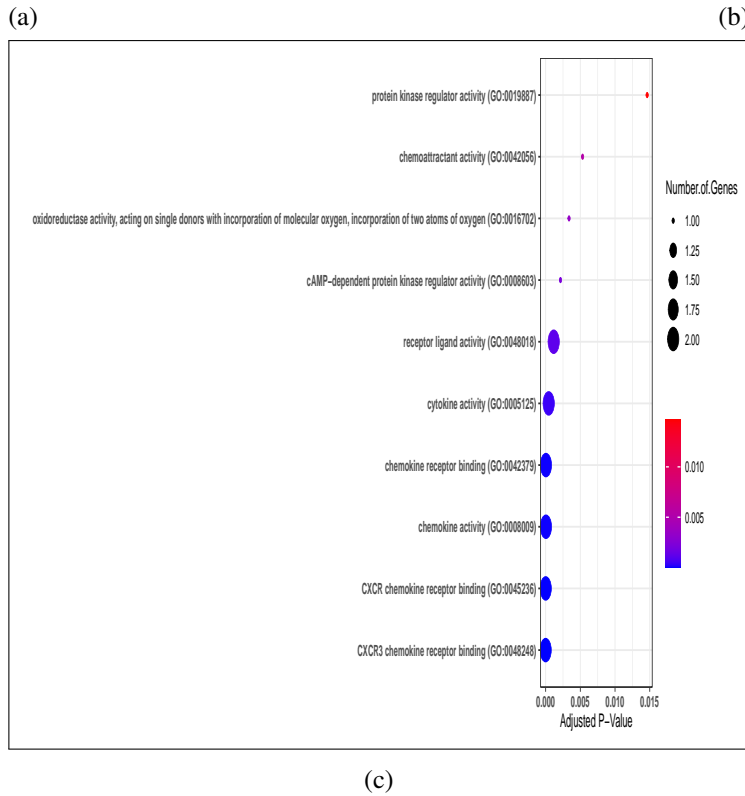
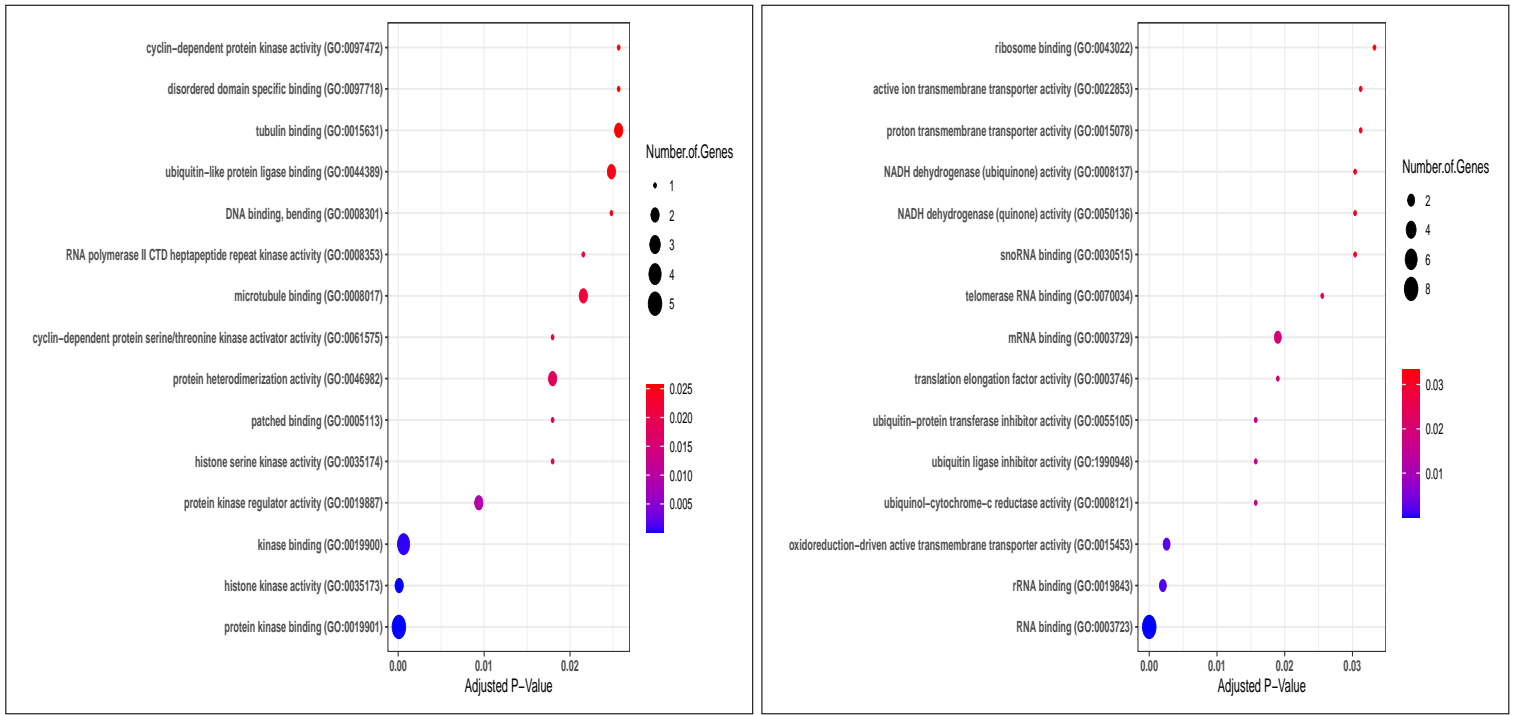


Figure S2: Significant GO Molecular Processes corresponding to Biomarkers for (a) Cancer (b) COVID-19 and (c) Common genes between Cancer and COVID-19