

SUPPLEMENTAL TABLES

Gene Name	Subtype	IQR	25%	Median	75%
AR	Adeno-Classic	675.1	15235.0	15705.2	15910.1
AR	Adeno-Immune	620.9	15095.6	15252.5	15716.5
AR	NE-Classic	5063.6	3782.9	7162.0	8846.5
AR	NE-Liver	3537.1	12274.4	15174.4	15811.4
KLK3	Adeno-Classic	290.1	15104.9	15378.1	15395.0
KLK3	Adeno-Immune	312.2	15078.0	15295.4	15390.1
KLK3	NE-Classic	4327.1	5514.2	7710.7	9841.3
KLK3	NE-Liver	7686.8	7636.7	14850.0	15323.5
SYP	Adeno-Classic	2178.4	3562.9	4389.9	5741.3
SYP	Adeno-Immune	1732.6	2941.2	3574.6	4673.8
SYP	NE-Classic	4736.5	4431.9	6349.0	9168.4
SYP	NE-Liver	3074.1	2946.8	3574.4	6020.9
CHGA	Adeno-Classic	3565.9	2762.3	3839.0	6328.2
CHGA	Adeno-Immune	2766.8	2525.7	3386.9	5292.5
CHGA	NE-Classic	6152.3	7632.6	11189.3	13784.9
CHGA	NE-Liver	7406.9	2135.2	3140.4	9542.1

Supplemental Table 1: Median, Inter-Quartile Range (IQR), and 25th and 75th percentiles for Figure 2.

Pathway Name	Subtype	IQR	25%	Median	75%
HALLMARK_TNFA_SIGNALING_VIA_NFKB	Adeno-Classic	0.374	-0.263	-0.131	0.111
HALLMARK_TNFA_SIGNALING_VIA_NFKB	Adeno-Immune	0.469	-0.192	0.063	0.277
HALLMARK_TNFA_SIGNALING_VIA_NFKB	NE-Classic	0.382	-0.301	-0.199	0.081
HALLMARK_TNFA_SIGNALING_VIA_NFKB	NE-Liver	0.392	-0.136	0.015	0.256
HALLMARK_IL6_JAK_STAT3_SIGNALING	Adeno-Classic	0.431	-0.365	-0.174	0.066
HALLMARK_IL6_JAK_STAT3_SIGNALING	Adeno-Immune	0.464	-0.154	0.085	0.310
HALLMARK_IL6_JAK_STAT3_SIGNALING	NE-Classic	0.426	-0.345	-0.249	0.081
HALLMARK_IL6_JAK_STAT3_SIGNALING	NE-Liver	0.412	-0.100	0.079	0.312
HALLMARK_G2M_CHECKPOINT	Adeno-Classic	0.539	-0.352	-0.185	0.187
HALLMARK_G2M_CHECKPOINT	Adeno-Immune	0.534	-0.290	-0.026	0.245
HALLMARK_G2M_CHECKPOINT	NE-Classic	0.340	0.126	0.356	0.466
HALLMARK_G2M_CHECKPOINT	NE-Liver	0.524	-0.130	0.224	0.394
HALLMARK_ANDROGEN_RESPONSE	Adeno-Classic	0.325	-0.059	0.089	0.266
HALLMARK_ANDROGEN_RESPONSE	Adeno-Immune	0.383	-0.191	0.012	0.192
HALLMARK_ANDROGEN_RESPONSE	NE-Classic	0.133	-0.439	-0.381	-0.306
HALLMARK_ANDROGEN_RESPONSE	NE-Liver	0.302	-0.250	-0.101	0.052
HALLMARK_INTERFERON_ALPHA_RESPONSE	Adeno-Classic	0.631	-0.426	-0.174	0.205
HALLMARK_INTERFERON_ALPHA_RESPONSE	Adeno-Immune	0.627	-0.263	0.057	0.364
HALLMARK_INTERFERON_ALPHA_RESPONSE	NE-Classic	0.461	-0.330	-0.199	0.131
HALLMARK_INTERFERON_ALPHA_RESPONSE	NE-Liver	0.544	-0.169	0.189	0.375
HALLMARK_INTERFERON_GAMMA_RESPONSE	Adeno-Classic	0.531	-0.374	-0.198	0.157
HALLMARK_INTERFERON_GAMMA_RESPONSE	Adeno-Immune	0.584	-0.239	0.078	0.345
HALLMARK_INTERFERON_GAMMA_RESPONSE	NE-Classic	0.446	-0.356	-0.165	0.090
HALLMARK_INTERFERON_GAMMA_RESPONSE	NE-Liver	0.453	-0.152	0.146	0.301
HALLMARK_COMPLEMENT	Adeno-Classic	0.349	-0.328	-0.171	0.021
HALLMARK_COMPLEMENT	Adeno-Immune	0.411	-0.143	0.081	0.267
HALLMARK_COMPLEMENT	NE-Classic	0.348	-0.194	-0.067	0.154
HALLMARK_COMPLEMENT	NE-Liver	0.239	0.056	0.195	0.295
HALLMARK_E2F_TARGETS	Adeno-Classic	0.650	-0.432	-0.241	0.218
HALLMARK_E2F_TARGETS	Adeno-Immune	0.606	-0.340	-0.038	0.266
HALLMARK_E2F_TARGETS	NE-Classic	0.295	0.234	0.427	0.529
HALLMARK_E2F_TARGETS	NE-Liver	0.694	-0.218	0.274	0.476
HALLMARK_INFLAMMATORY_RESPONSE	Adeno-Classic	0.410	-0.303	-0.147	0.107
HALLMARK_INFLAMMATORY_RESPONSE	Adeno-Immune	0.431	-0.134	0.113	0.297
HALLMARK_INFLAMMATORY_RESPONSE	NE-Classic	0.398	-0.358	-0.183	0.039
HALLMARK_INFLAMMATORY_RESPONSE	NE-Liver	0.402	-0.190	0.028	0.212
HALLMARK_IL2_STAT5_SIGNALING	Adeno-Classic	0.299	-0.215	-0.066	0.084
HALLMARK_IL2_STAT5_SIGNALING	Adeno-Immune	0.308	-0.102	0.032	0.205
HALLMARK_IL2_STAT5_SIGNALING	NE-Classic	0.261	-0.234	-0.140	0.026
HALLMARK_IL2_STAT5_SIGNALING	NE-Liver	0.261	-0.095	0.007	0.165
HALLMARK_ALLOGRAFT_REJECTION	Adeno-Classic	0.434	-0.337	-0.182	0.097
HALLMARK_ALLOGRAFT_REJECTION	Adeno-Immune	0.494	-0.159	0.093	0.336
HALLMARK_ALLOGRAFT_REJECTION	NE-Classic	0.458	-0.364	-0.197	0.094
HALLMARK_ALLOGRAFT_REJECTION	NE-Liver	0.397	-0.278	-0.036	0.118
CIBERSORTX Absolute Immune Score	Adeno-Classic	0.122	1.259	1.310	1.381
CIBERSORTX Absolute Immune Score	Adeno-Immune	0.184	1.323	1.394	1.507
CIBERSORTX Absolute Immune Score	NE-Classic	0.229	1.231	1.333	1.460
CIBERSORTX Absolute Immune Score	NE-Liver	0.113	1.254	1.316	1.366

Supplemental Table 2: Median, Inter-Quartile Range (IQR), and 25th and 75th percentiles for Figure 3.

Gene Name	Subtype	Alteration Type	Proportion
AR	Adeno-Classic	Amplification and/or Mutation	0.853
AR	Adeno-Immune	Amplification and/or Mutation	0.782
AR	NE-Classic	Amplification and/or Mutation	0.326
AR	NE-Liver	Amplification and/or Mutation	0.632
FOXA1	Adeno-Classic	Amplification and/or Mutation	0.239
FOXA1	Adeno-Immune	Amplification and/or Mutation	0.365
FOXA1	NE-Classic	Amplification and/or Mutation	0.442
FOXA1	NE-Liver	Amplification and/or Mutation	0.289
MYC	Adeno-Classic	Amplification and/or Mutation	0.584
MYC	Adeno-Immune	Amplification and/or Mutation	0.687
MYC	NE-Classic	Amplification and/or Mutation	0.698
MYC	NE-Liver	Amplification and/or Mutation	0.711
PTEN	Adeno-Classic	Biallelic Loss and/or Mutation	0.426
PTEN	Adeno-Immune	Biallelic Loss and/or Mutation	0.216
PTEN	NE-Classic	Biallelic Loss and/or Mutation	0.209
PTEN	NE-Liver	Biallelic Loss and/or Mutation	0.395
RB1	Adeno-Classic	Biallelic Loss and/or Mutation	0.066
RB1	Adeno-Immune	Biallelic Loss and/or Mutation	0.099
RB1	NE-Classic	Biallelic Loss and/or Mutation	0.628
RB1	NE-Liver	Biallelic Loss and/or Mutation	0.263
TP53	Adeno-Classic	Biallelic Loss and/or Mutation	0.350
TP53	Adeno-Immune	Biallelic Loss and/or Mutation	0.242
TP53	NE-Classic	Biallelic Loss and/or Mutation	0.429
TP53	NE-Liver	Biallelic Loss and/or Mutation	0.368
APC	Adeno-Classic	Mutation Only	0.010
APC	Adeno-Immune	Mutation Only	0.052
APC	NE-Classic	Mutation Only	0.023
APC	NE-Liver	Mutation Only	0.139
SPOP	Adeno-Classic	Mutation Only	0.010
SPOP	Adeno-Immune	Mutation Only	0.107
SPOP	NE-Classic	Mutation Only	0.000
SPOP	NE-Liver	Mutation Only	0.139

Supplemental Table 3: Proportions for Figure 4.

Subtype	Biopsy Site	Phenotype	Proportion
Adeno-Immune	Liver	Adenocarcinoma	0.083
Adeno-Immune	Lymph Node	Adenocarcinoma	0.296
Adeno-Immune	Lung	Adenocarcinoma	0.059
Adeno-Immune	Bone	Adenocarcinoma	0.391
Adeno-Immune	Primary Site	Adenocarcinoma	0.055
Adeno-Immune	Other	Adenocarcinoma	0.083
Adeno-Immune	Liver	SCNC	0.004
Adeno-Immune	Other	SCNC	0.008
Adeno-Immune	Lung	SCNC	0.008
Adeno-Immune	Lymph Node	SCNC	0.008
Adeno-Immune	Primary Site	SCNC	0.004
NE-Classic	Lymph Node	Adenocarcinoma	0.102
NE-Classic	Other	Adenocarcinoma	0.041
NE-Classic	Liver	Adenocarcinoma	0.061
NE-Classic	Liver	SCNC	0.143
NE-Classic	Lung	SCNC	0.082
NE-Classic	Lymph Node	SCNC	0.286
NE-Classic	Bone	SCNC	0.041
NE-Classic	Other	SCNC	0.184
NE-Classic	Bone	Adenocarcinoma	0.020
NE-Classic	Primary Site	SCNC	0.041
Adeno-Classic	Lymph Node	Adenocarcinoma	0.639
Adeno-Classic	Lung	Adenocarcinoma	0.050
Adeno-Classic	Primary Site	Adenocarcinoma	0.040
Adeno-Classic	Other	Adenocarcinoma	0.094
Adeno-Classic	Liver	Adenocarcinoma	0.035
Adeno-Classic	Bone	Adenocarcinoma	0.129
Adeno-Classic	Other	SCNC	0.005
Adeno-Classic	Lymph Node	SCNC	0.005
Adeno-Classic	Primary Site	SCNC	0.005
NE-Liver	Liver	Adenocarcinoma	0.706
NE-Liver	Liver	SCNC	0.294

Supplemental Table 4: Proportions for Figure 5.