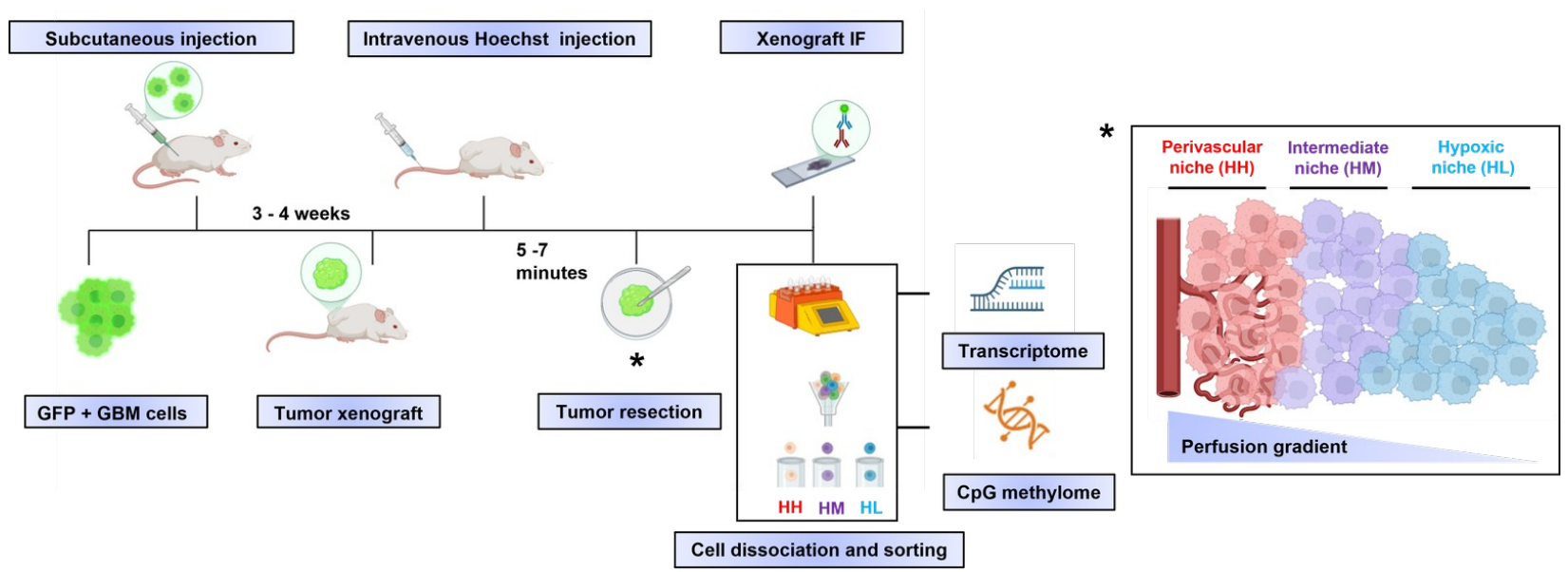
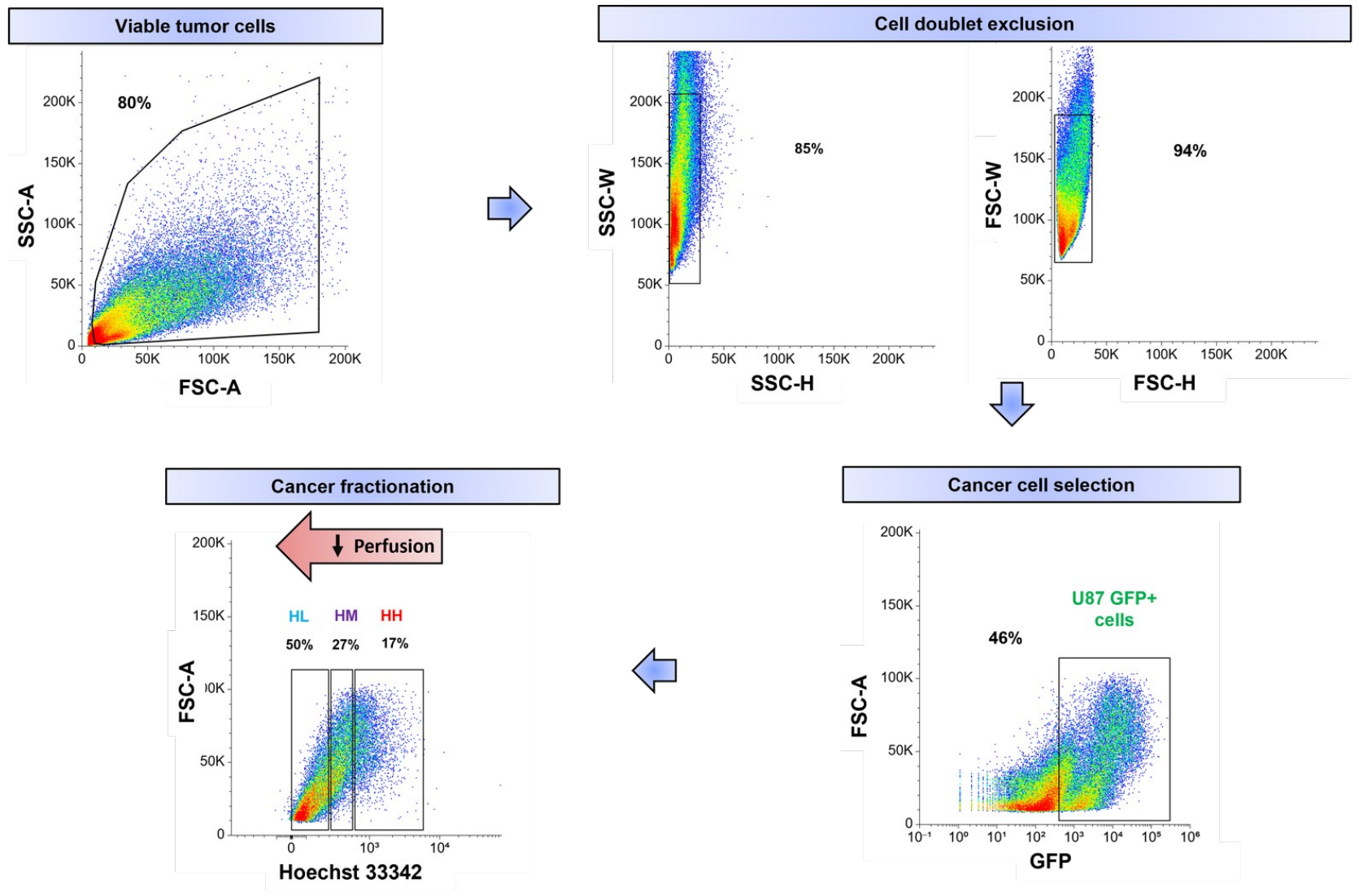


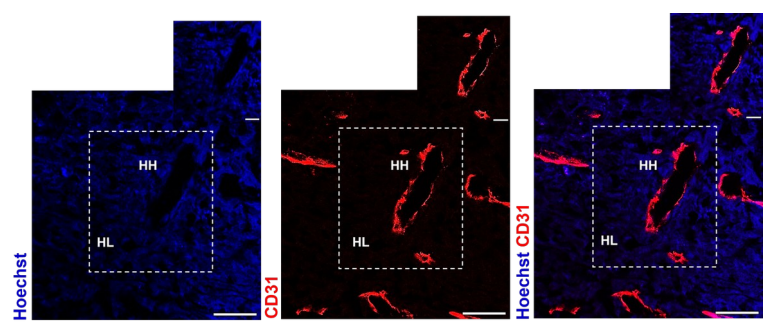
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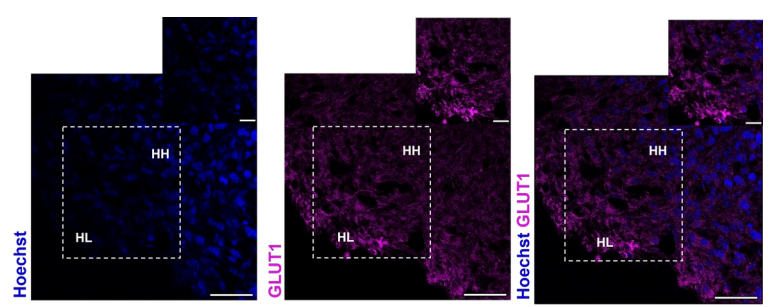
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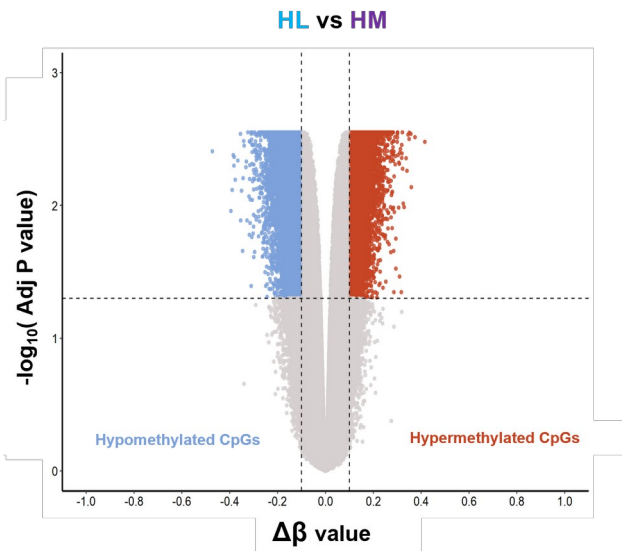
c



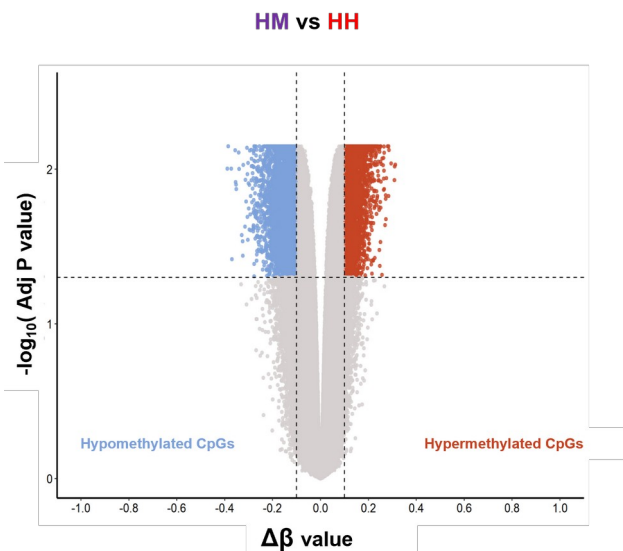
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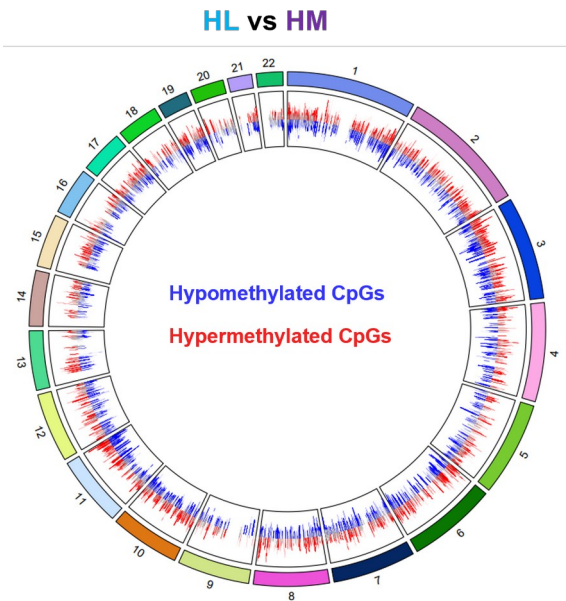
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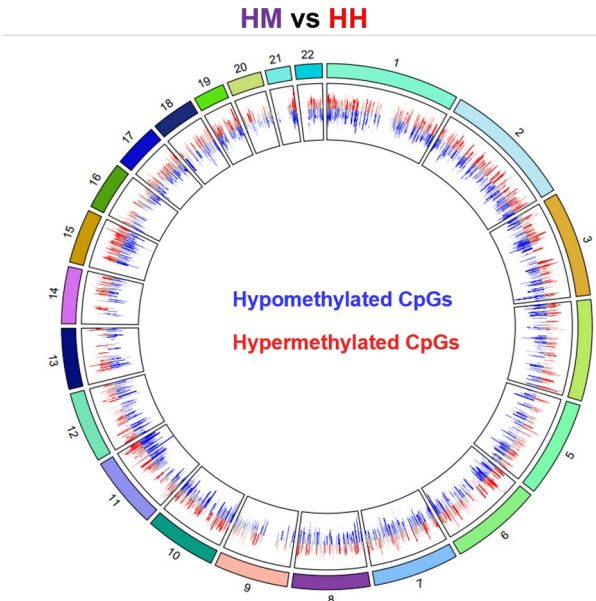
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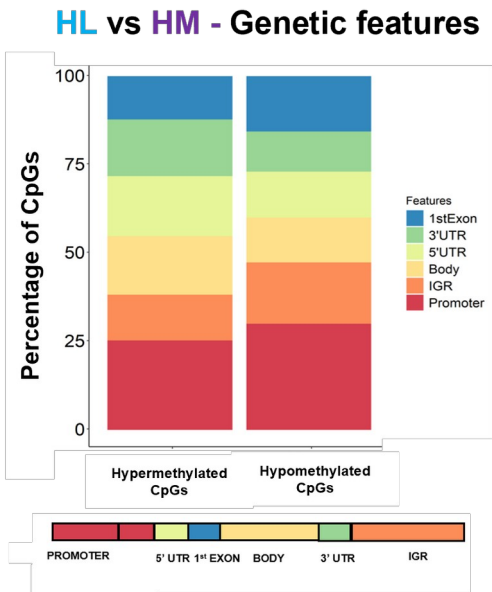
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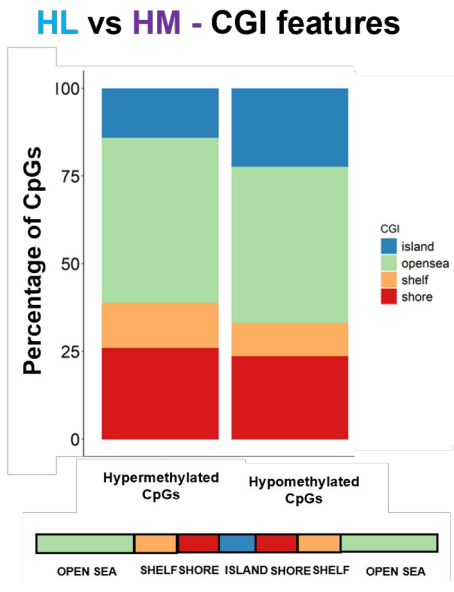
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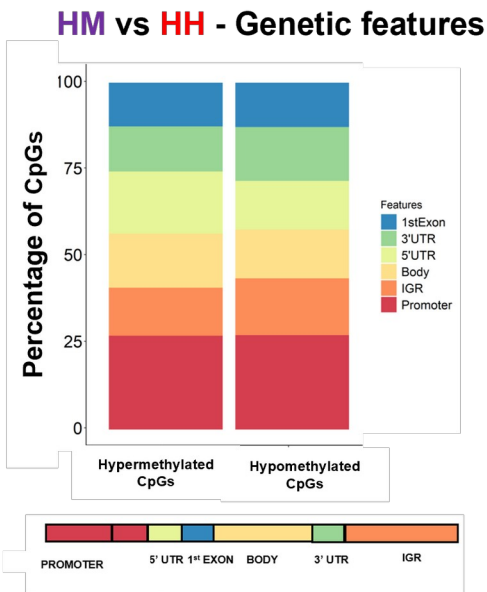
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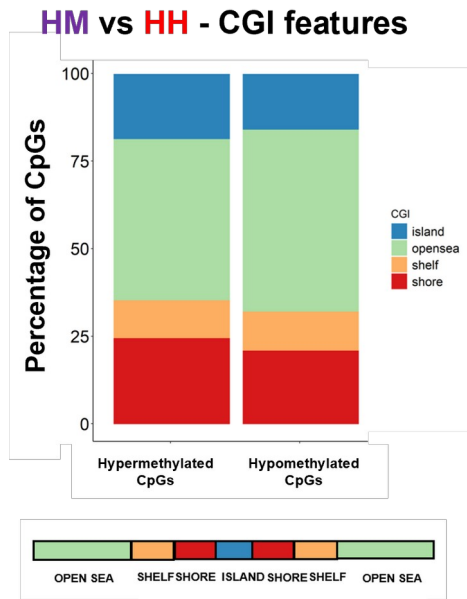
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g

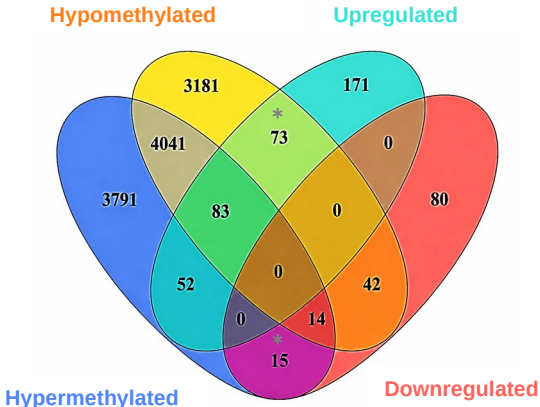


h



a

All Genetic Features without IGR

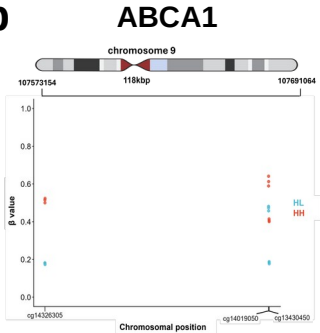


* 73 genes hypomethylated/upregulated
* 15 genes hypermethylated/downregulated

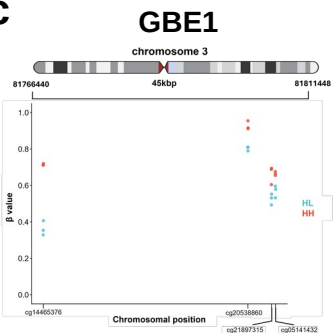
g

ABCA1			
Characteristic	ABCA1 low (193)	ABCA1 high (232)	p value
Mean age at diagnosis	54.3 ± 15.2	59.6 ± 13.8	***
<u>Gender</u>			
Male, 256 (60.2%)	109 (56.5%)	147 (63.4%)	ns
Female, 169 (30.8%)	84 (43.5%)	85 (36.6%)	
<u>G- CIMP</u>			
G- CIMP, 45 (10.6%)	26 (13.5%)	19 (8.2%)	ns
Non- G- CIMP, 380 (89.4%)	167 (86.5%)	213 (91.8%)	
<u>Subtype</u>			
Classical, 142 (33.4%)	76 (39.4%)	66 (28.4%)	***
Proneural, 134 (31.5%)	77 (39.9%)	57 (24.6%)	
Mesenchymal, 149 (35.1%)	40 (20.7%)	109 (47%)	

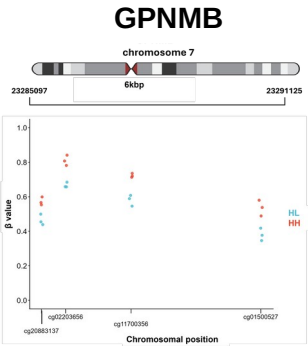
b



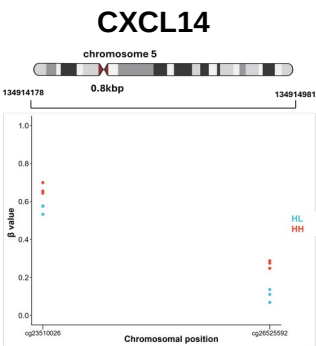
c



d



e



f

Gene	Ensemble ID	Log ₂ FC	CpG ID	Δβ value	Genetic feature	Average Δβ value
ABCA1	ENSG00000165029	1.72	cg14326305	-0.33	Gene body	-0.23
			cg13430450	-0.22	Promoter	
			cg14019050	-0.14	Promoter	
GBE1	ENSG00000114480	1.14	cg14465376	-0.35	Gene body	-0.18
			cg20538860	-0.12	Gene body	
			cg05141432	-0.1	Promoter	
			cg21897315	-0.14	Promoter	
GPNMB	ENSG00000136235	1.42	cg11700356	-0.14	Gene body	-0.14
			cg01500527	-0.16	Gene body	
			cg02203656	-0.14	Promoter	
			cg20883137	-0.11	Promoter	
CXCL14	ENSG00000145824	1.56	cg26525592	-0.17	Promoter	-0.14
			cg23510026	-0.1	Promoter	

h

GBE1			
Characteristic	GBE1 low (204)	GBE1 high (221)	p value
Mean age at diagnosis	54.7 ± 15	59.6 ± 14	***
<u>Gender</u>			
Male, 256 (60.2%)	126 (61.8%)	130 (58.8%)	ns
Female, 169 (30.8%)	78 (38.2%)	91 (41.2%)	
<u>G- CIMP</u>			
G- CIMP, 45 (10.6%)	31 (15.2%)	14 (6.3%)	**
Non- G- CIMP, 380 (89.4%)	173 (84.8%)	207 (93.7%)	
<u>Subtype</u>			
Classical, 142 (33.4%)	75 (36.8%)	67 (30.3%)	***
Proneural, 134 (31.5%)	76 (37.3%)	58 (26.2%)	
Mesenchymal, 149 (35.1%)	53 (26%)	96 (43.4%)	

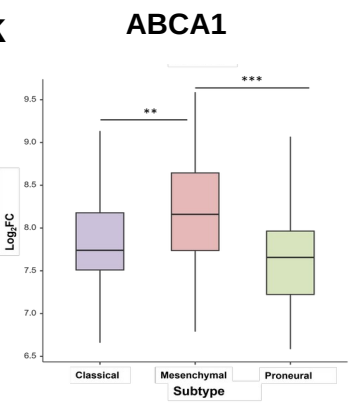
i

GPNMB			
Characteristic	GPNMB low (205)	GPNMB high (220)	p value
Mean age at diagnosis	56.7 ± 15.5	57.7 ± 13.8	ns
<u>Gender</u>			
Male, 256 (60.2%)	112 (54.6%)	144 (65.5%)	*
Female, 169 (30.8%)	93 (45.4%)	76 (34.5%)	
<u>G- CIMP</u>			
G- CIMP, 45 (10.6%)	34 (16.6%)	11 (5%)	***
Non- G- CIMP, 380 (89.4%)	171 (83.4%)	209 (95%)	
<u>Subtype</u>			
Classical, 142 (33.4%)	103 (50.2%)	39 (17.7%)	***
Proneural, 134 (31.5%)	72 (35.1%)	62 (28.2%)	
Mesenchymal, 149 (35.1%)	30 (14.6%)	119 (54.1%)	

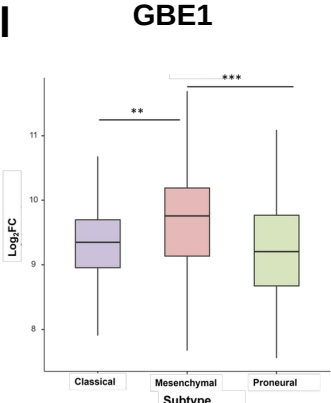
j

CXCL14			
Characteristic	CXCL14 low (214)	CXCL14 high (211)	p value
Mean age at diagnosis	55.2 ± 16.2	59.2 ± 12.7	ns
<u>Gender</u>			
Male, 256 (60.2%)	125 (58.4%)	131 (62.1%)	ns
Female, 169 (30.8%)	89 (41.6%)	80 (37.9%)	
<u>G- CIMP</u>			
G- CIMP, 45 (10.6%)	43 (20.1%)	2 (0.9%)	***
Non- G- CIMP, 380 (89.4%)	171 (79.9%)	209 (99.1%)	
<u>Subtype</u>			
Classical, 142 (33.4%)	61 (28.5%)	81 (38.4%)	***
Proneural, 134 (31.5%)	119 (55.6%)	15 (7.1%)	
Mesenchymal, 149 (35.1%)	34 (15.9%)	115 (54.5%)	

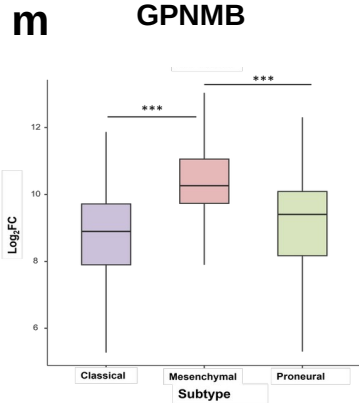
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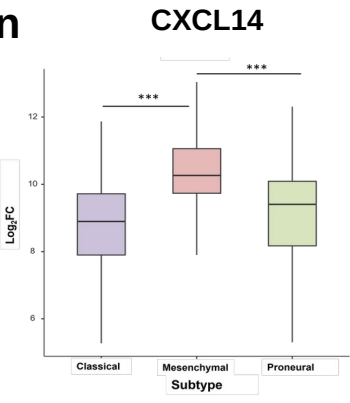
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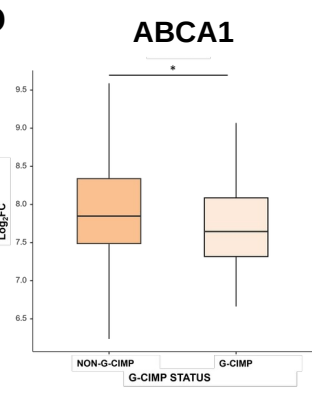
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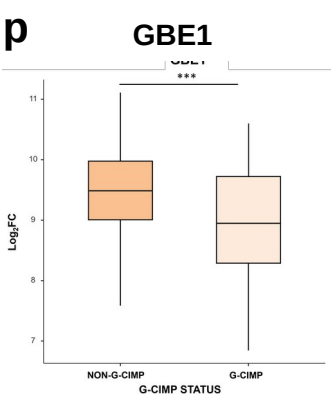
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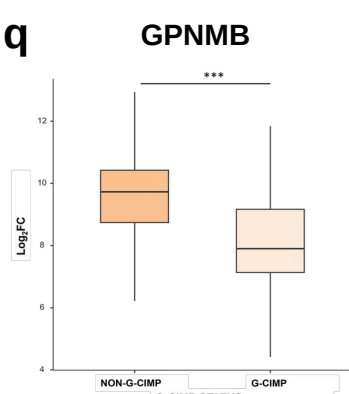
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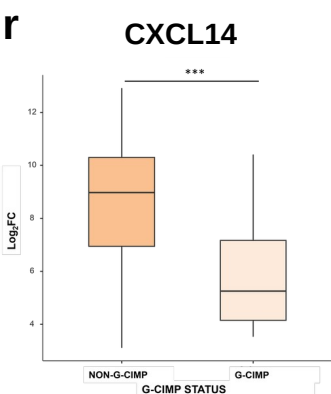
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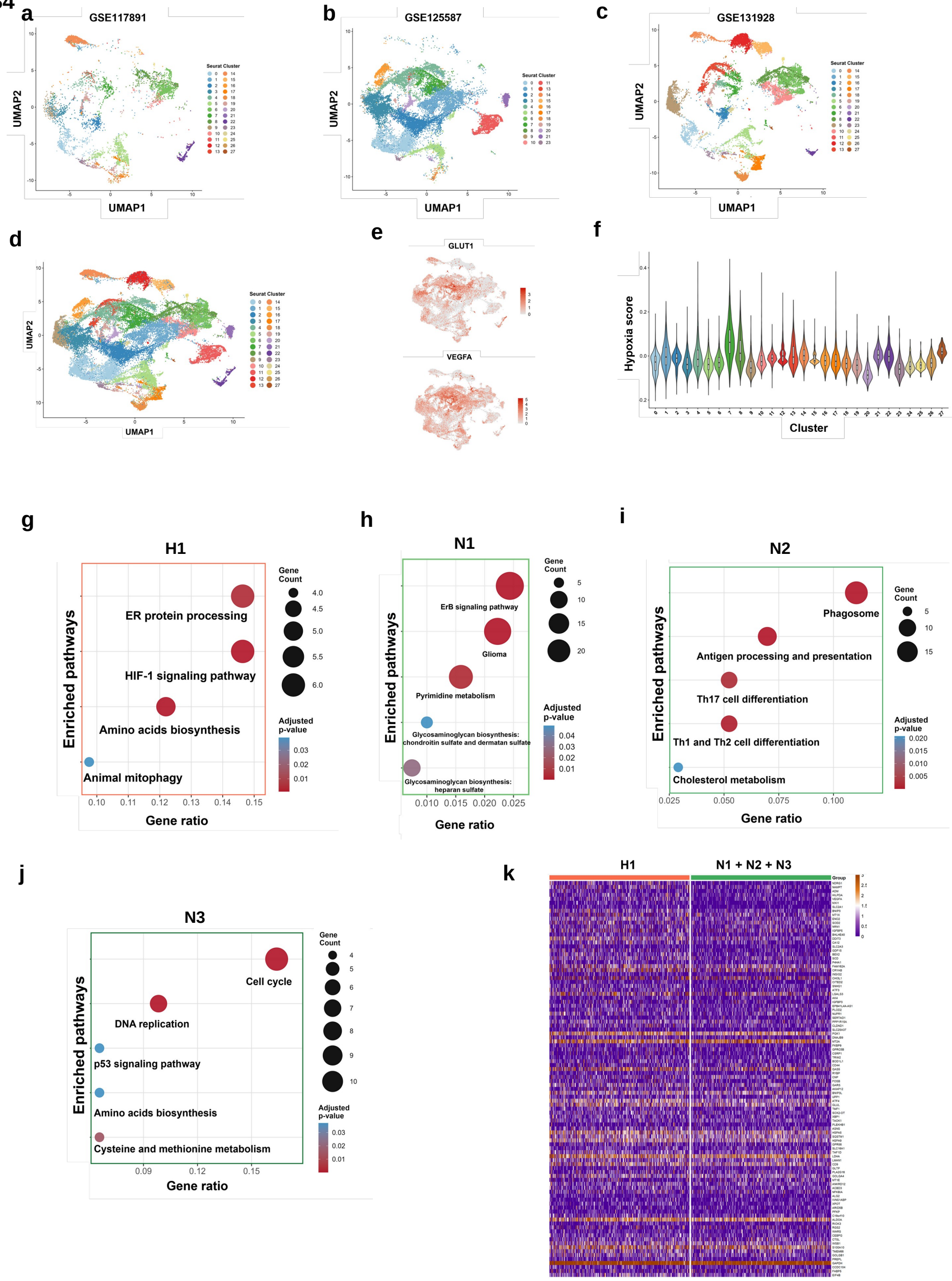
q



r



S4



S5

