SUPPLEMENTARY FIGURES

MALAT1 Expression is Associated with Aggressive Behavior in Indolent B-Cell Neoplasms

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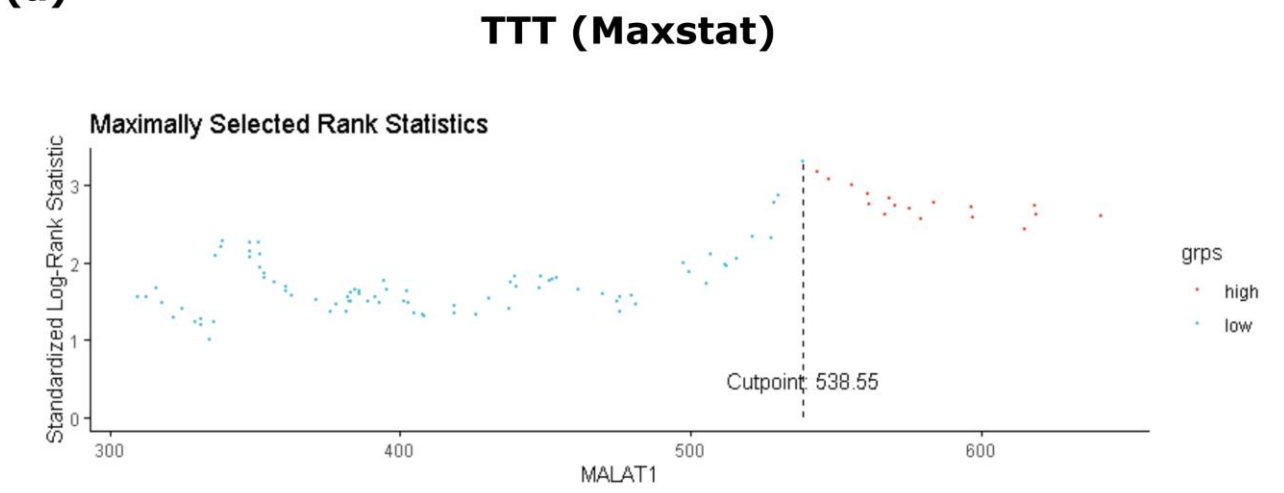
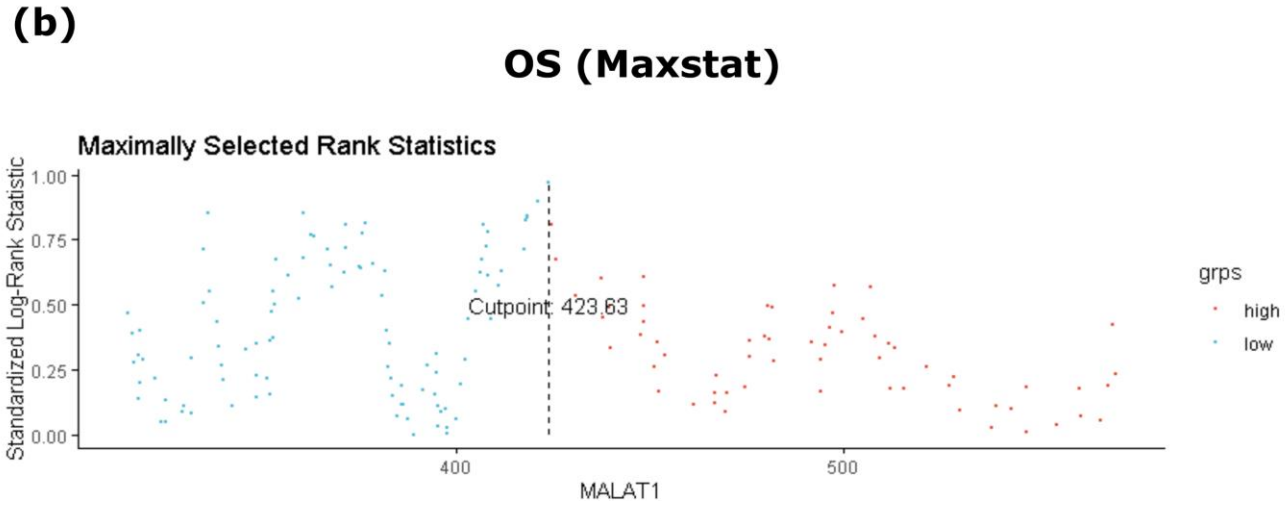
Suppl. Fig 1

(a)

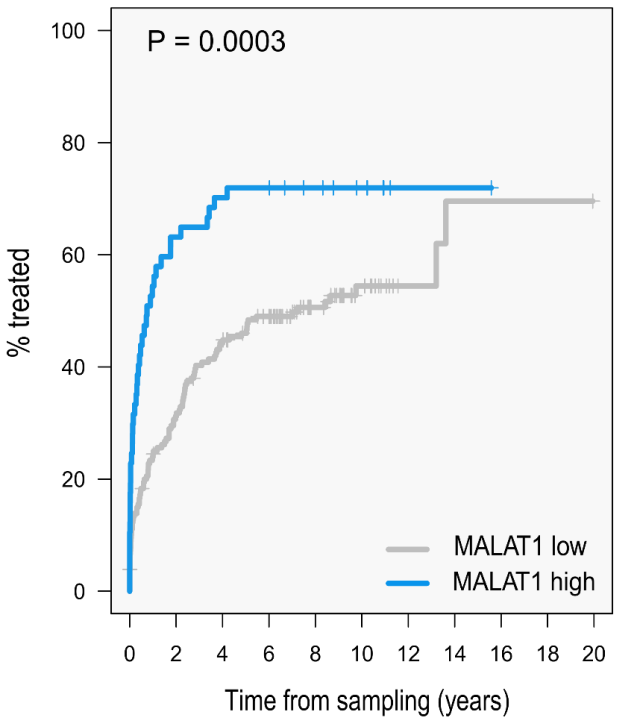


(b)



Suppl. Fig 2

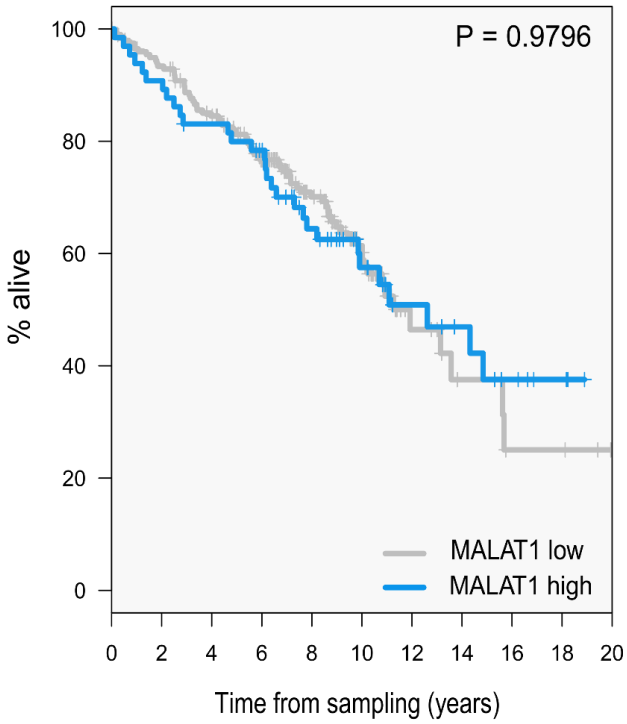
(a)



No. at risk:

MALAT1 low	182	118	84	66	36	17	3	1	1	1	0
MALAT1 high	57	20	15	13	9	6	1	1	0	0	0

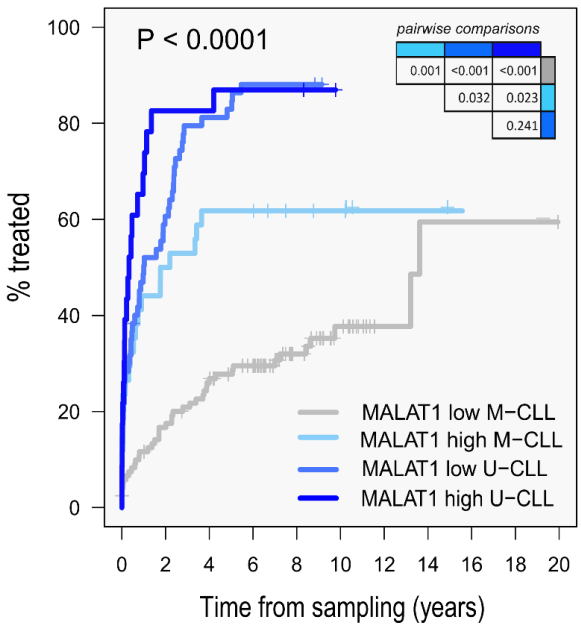
(b)



No. at risk:

MALAT1 low	201	182	160	130	85	51	13	7	3	3	0
MALAT1 high	65	59	53	48	34	23	13	10	6	3	0

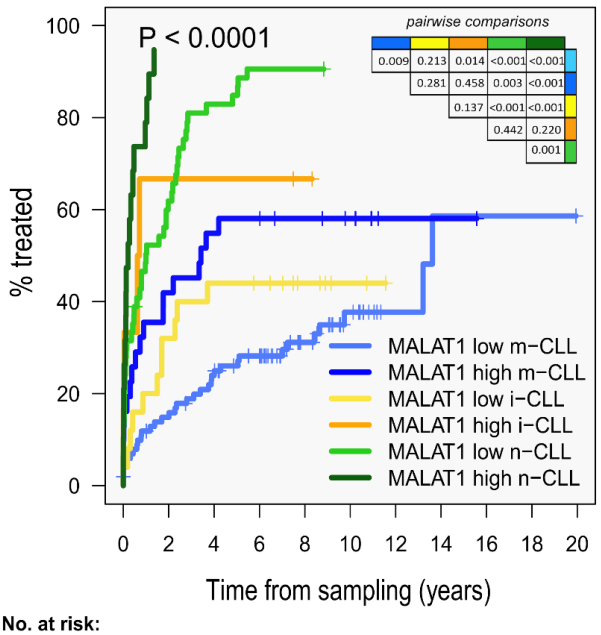
(c)



No. at risk:

MALAT1 low M−CLL	122	98	78	64	34	17	3	1	1	1	0
MALAT1 high M−CLL	34	17	12	11	7	6	1	1	0	0	0
MALAT1 low U−CLL	60	20	6	2	2	0	0	0	0	0	0
MALAT1 high U−CLL	23	3	3	2	2	0	0	0	0	0	0

(d)

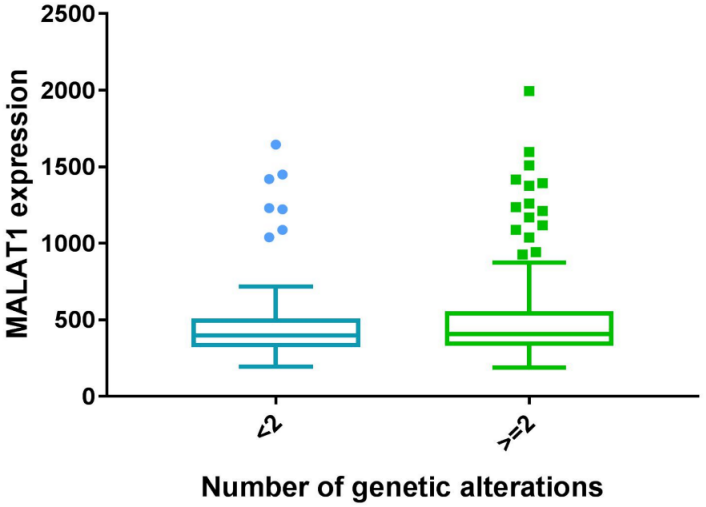


No. at risk:

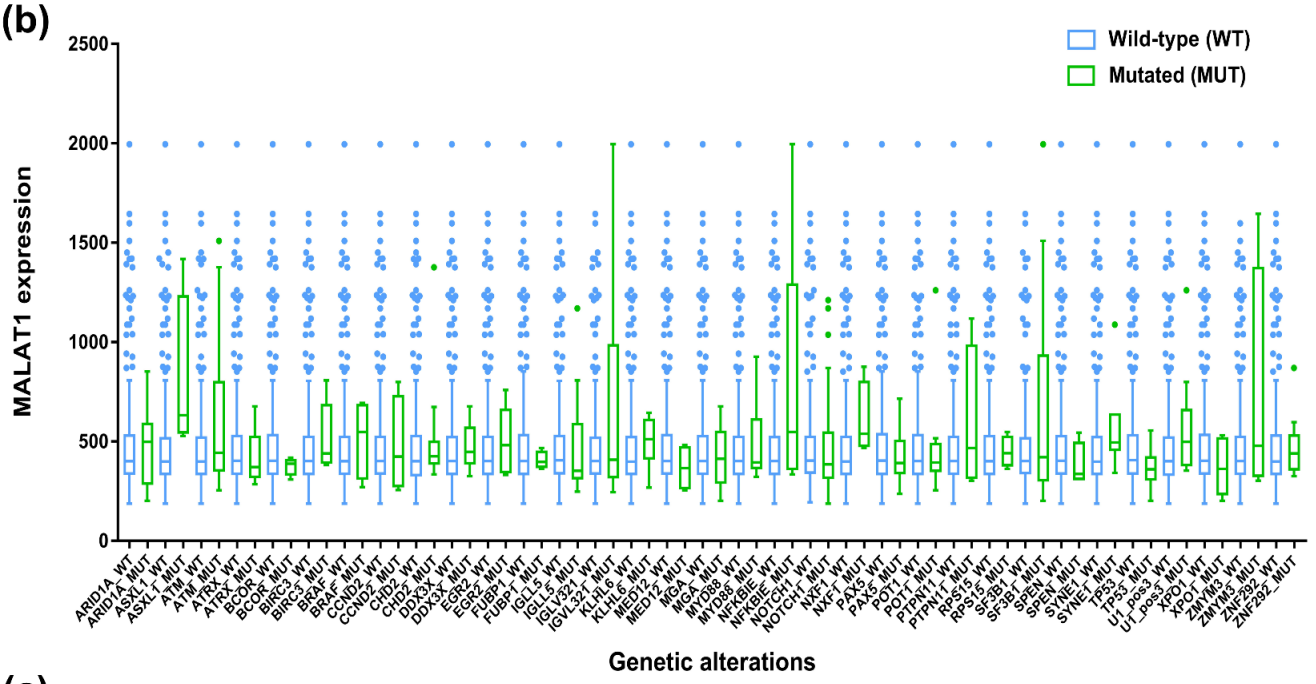
MALAT1 low m−CLL	103	85	68	55	30	15	3	1	1	1	0
MALAT1 high m−CLL	31	18	13	11	8	6	1	1	0	0	0
MALAT1 low i−CLL	25	16	11	10	5	2	0	0	0	0	0
MALAT1 high i−CLL	6	2	2	2	1	0	0	0	0	0	0
MALAT1 low n−CLL	54	17	5	1	1	0	0	0	0	0	0
MALAT1 high n−CLL	19	0	0	0	0	0	0	0	0	0	0

Suppl. Fig 3

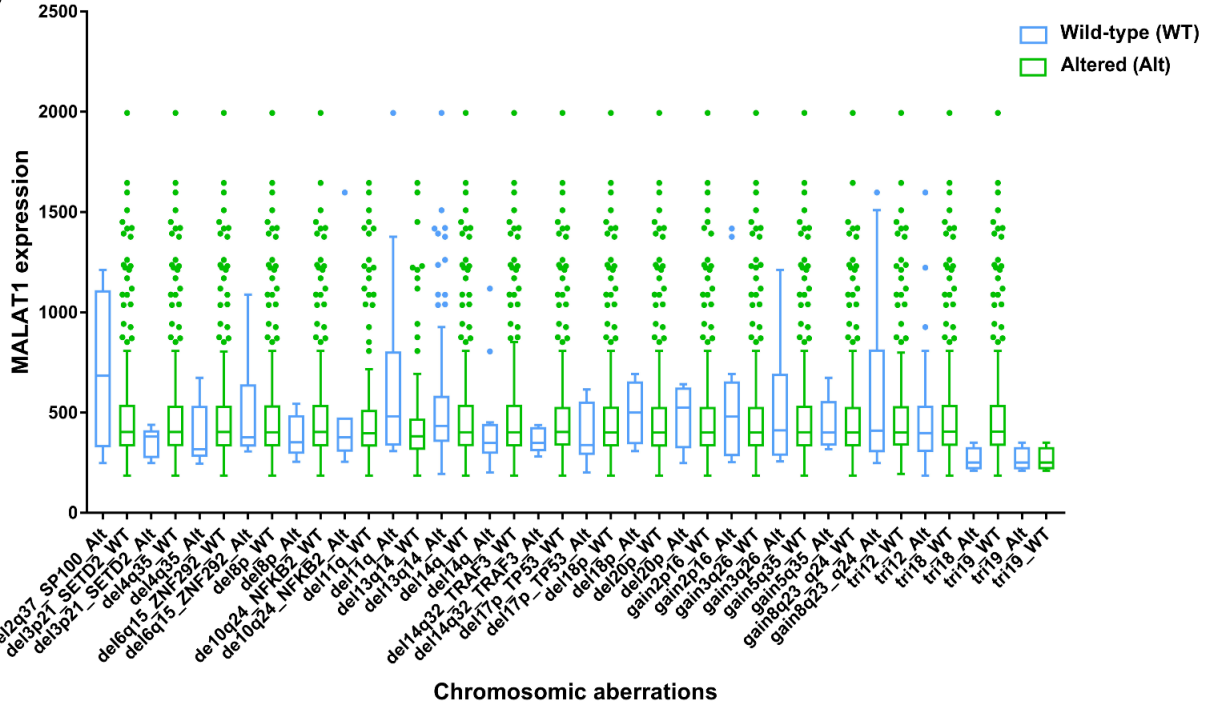
(a)



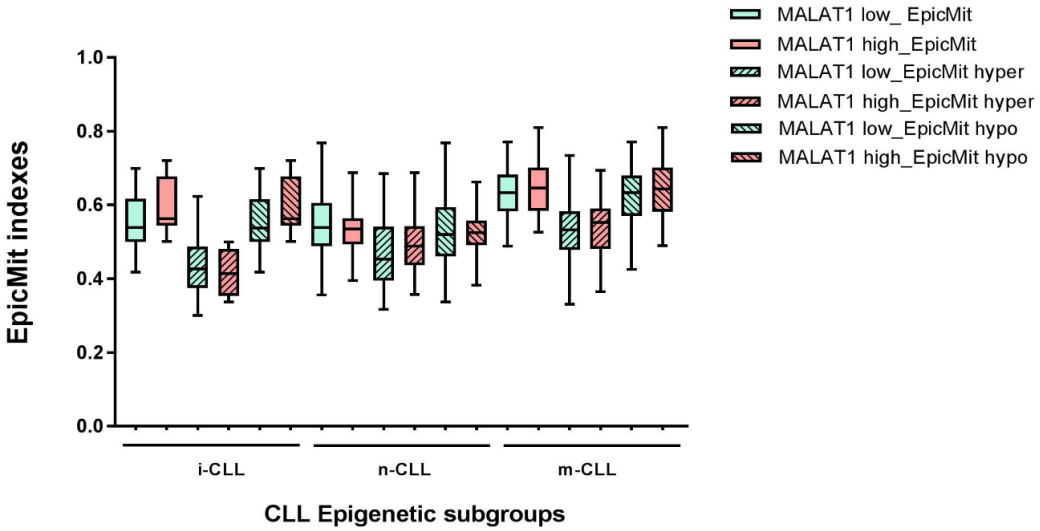
(b)



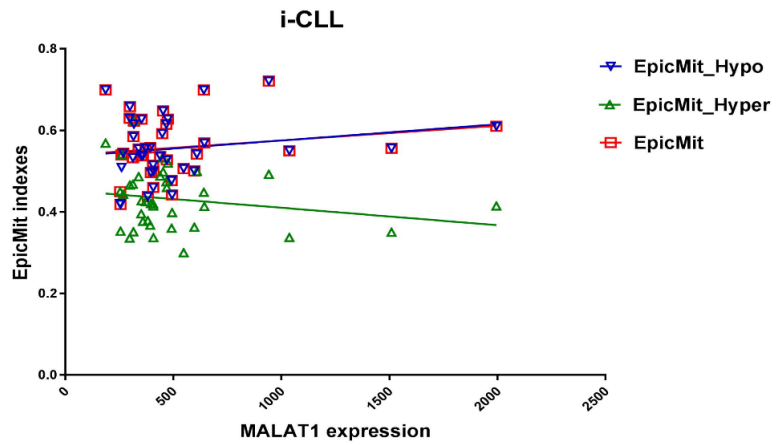
(c)

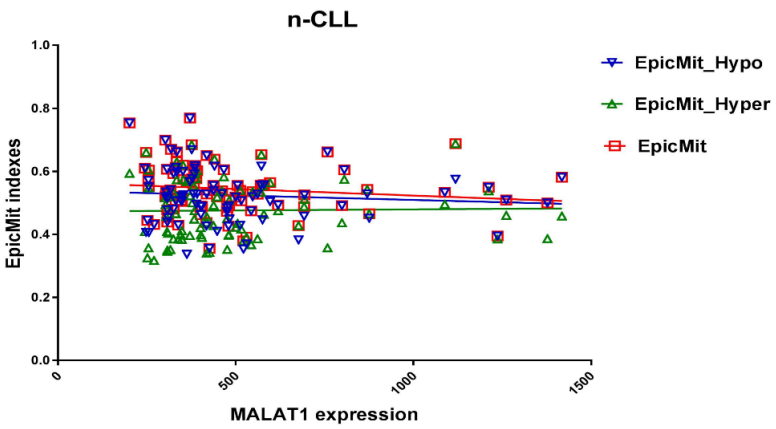


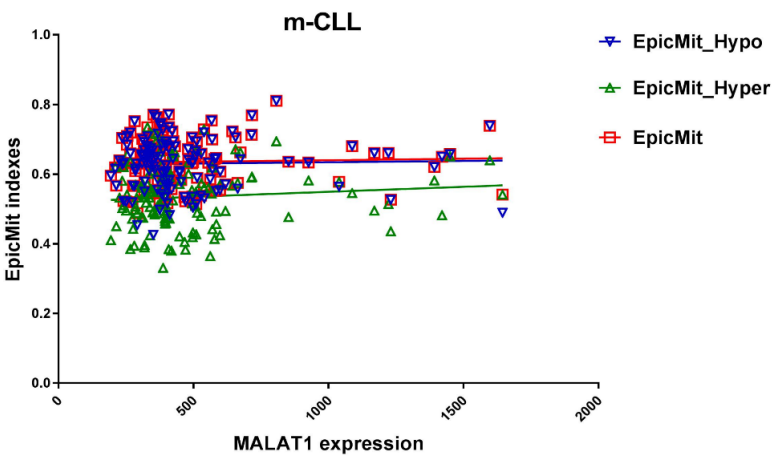
(a)


MALAT1 low_ EpicMit
MALAT1 high_EpicMit
MALAT1 low_EpicMit hyper
MALAT1 high_EpicMit hyper
MALAT1 low_EpicMit hypo
MALAT1 high_EpicMit hypo
EpicMit indexes
1.0
0.8
0.6
0.4
0.2
0.0
i-CLL
n-CLL
m-CLL
CLL Epigenetic subgroups

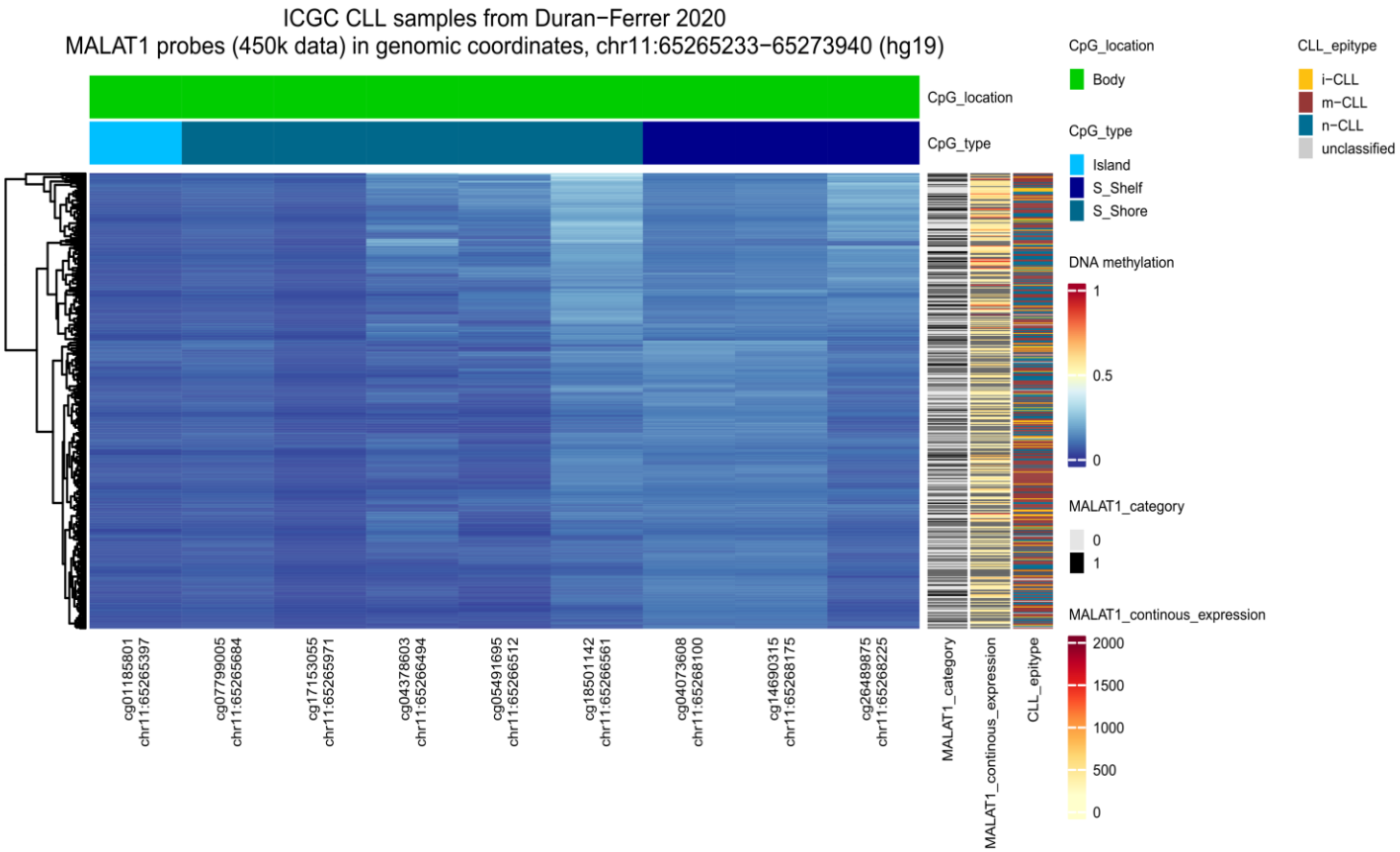
(b)


i-CLL
EpicMit_Hypo
EpicMit_Hyper
EpicMit
EpicMit indexes
0.8
0.6
0.4
0.2
0.0
0
500
1000
1500
2000
2500
MALAT1 expression


n-CLL
EpicMit_Hypo
EpicMit_Hyper
EpicMit
EpicMit indexes
1.0
0.8
0.6
0.4
0.2
0.0
0
500
1000
1500
MALAT1 expression

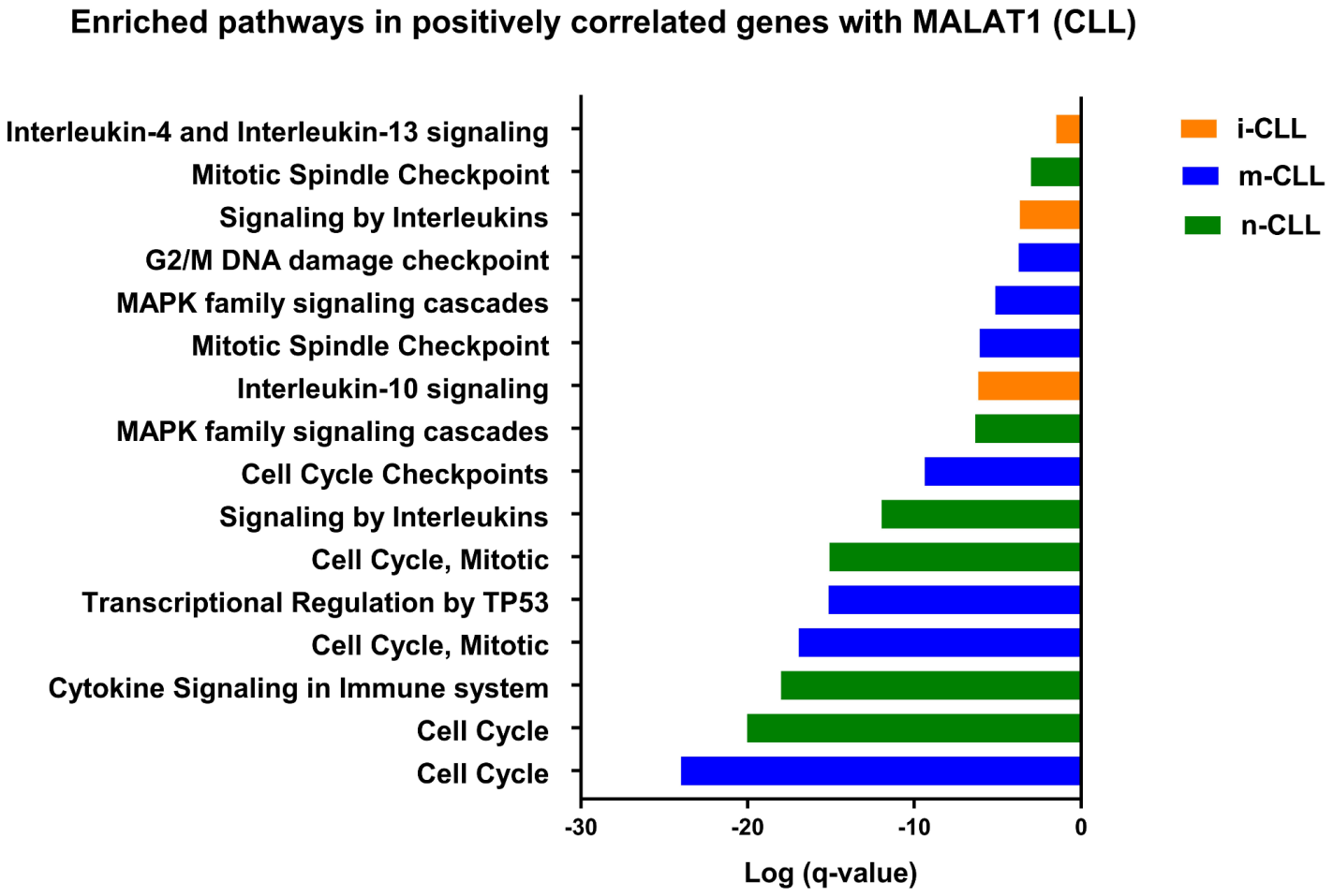

m-CLL
EpicMit_Hypo
EpicMit_Hyper
EpicMit
EpicMit indexes
1.0
0.8
0.6
0.4
0.2
0.0
0
500
1000
1500
2000
MALAT1 expression

Suppl. Fig 5

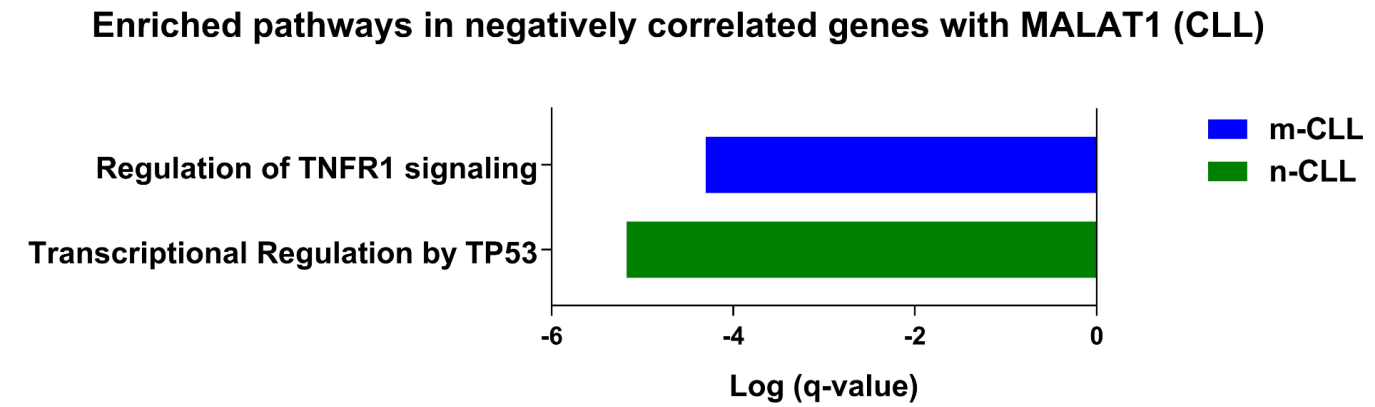

ICGC CLL samples from Duran−Ferrer 2020
MALAT1 probes (450k data) in genomic coordinates, chr11:65265233−65273940 (hg19)
CpG_location
CpG_type
cg01185801 chr11:65265397
cg07799005 chr11:65265684
cg17153055 chr11:65265971
cg04378603 chr11:65266494
cg05491695 chr11:65266512
cg18501142 chr11:65266561
cg04073608 chr11:65268100
cg14690315 chr11:65268175
cg26489875 chr11:65268225
MALAT1_category
MALAT1_continous_expression
CLL_epitype
CpG_location
Body
CpG_type
Island
S_Shelf
S_Shore
DNA methylation
1
0.5
0
MALAT1_category
0
1
MALAT1_continous_expression
2000
1500
1000
500
0
CLL_epitype
i−CLL
m−CLL
n−CLL
unclassified

Suppl. Fig 6

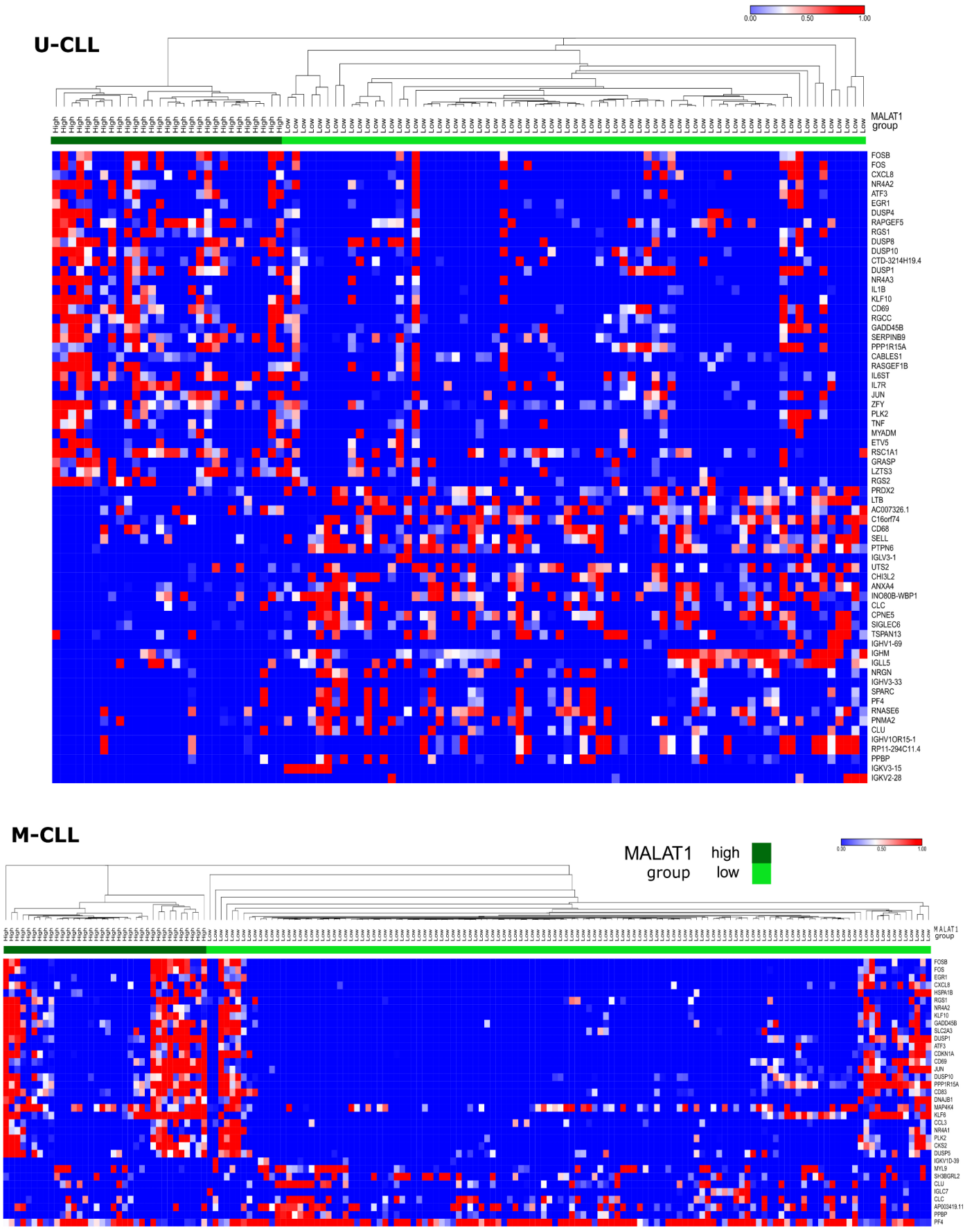
(a)



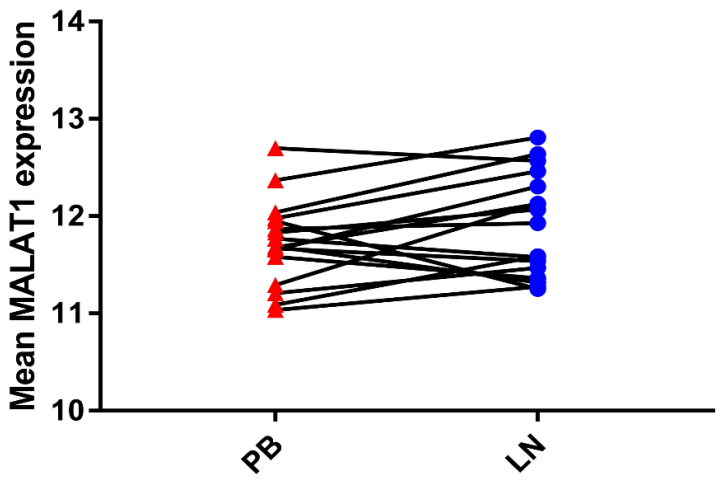
(b)

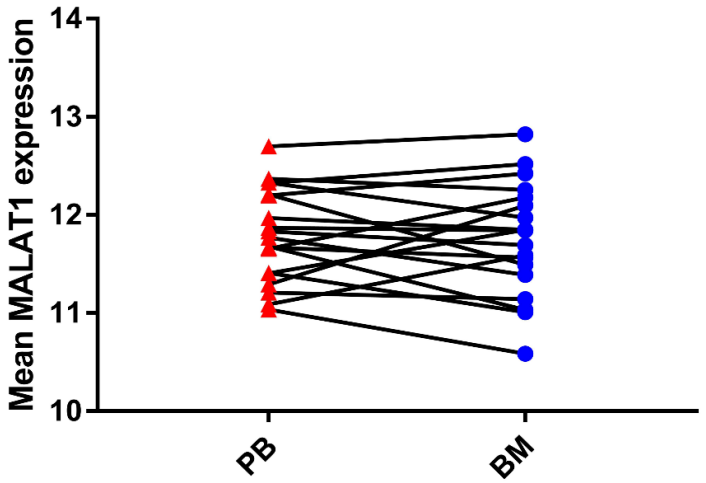


Suppl. Fig 7

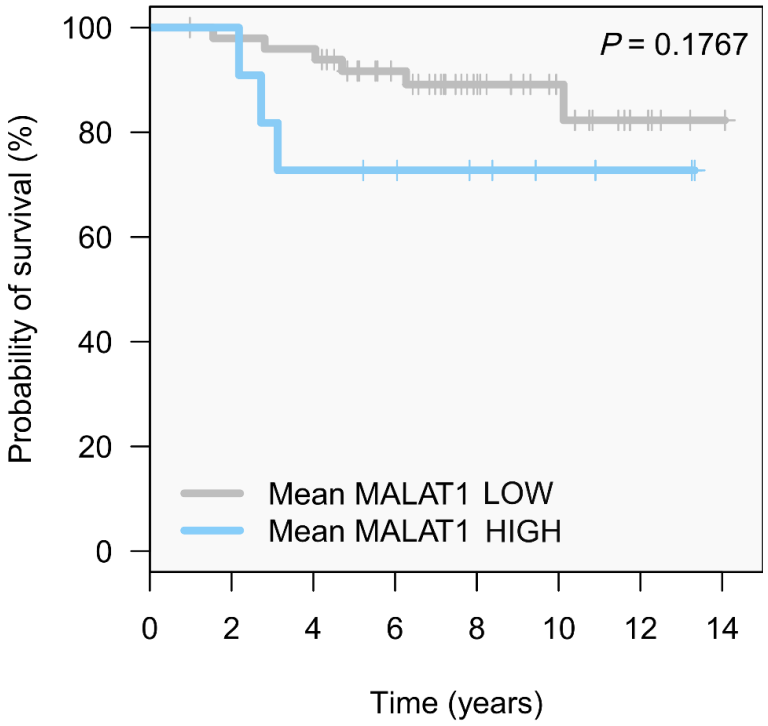

U-CLL
0.00
0.50
1.00
MALAT1 group
FOSB
FOS
CXCL8
NR4A2
ATF3
EGR1
DUSP4
RAPGEF5
RGS1
DUSP8
DUSP10
CTD-3214H19.4
DUSP1
NR4A3
IL1B
KLF10
CD69
RGCC
GADD45B
SERPINB9
PPP1R15A
CABLES1
RASGEF1B
IL6ST
IL7R
JUN
ZFY
PLK2
TNF
MYADM
ETV5
RSC1A1
GRASP
LZTS3
RGS2
PRDX2
LTB
AC007326.1
C16orf74
CD68
SELL
PTPN6
IGLV3-1
UTS2
CHI3L2
ANXA4
INO80B-WBP1
CLC
CPNE5
SIGLEC6
TSPAN13
IGHV1-69
IGHM
IGLL5
NRGN
IGHV3-33
SPARC
PF4
RNASE6
PNMA2
CLU
IGHV1OR15-1
RP11-294C11.4
PPBP
IGKV3-15
IGKV2-28
M-CLL
MALAT1 group
high
low
0.00
0.50
1.00
MALAT1 group
FOSB
FOS
EGR1
CXCL8
HSPA1B
RGS1
NR4A2
KLF10
GADD45B
SLC2A3
DUSP1
ATF3
CDKN1A
CD69
JUN
DUSP10
PPP1R15A
CD83
DNAJB1
MAP4K4
KLF6
CCL3
NR4A1
PLK2
CKS2
DUSP5
IGKV1D-39
MYL9
SH3BGRL2
CLU
IGLC7
CLC
AP002419.11
PPBP
PF4

Suppl. Fig 8


Mean MALAT1 expression
14
13
12
11
10
PB
LN


Mean MALAT1 expression
14
13
12
11
10
PB
BM

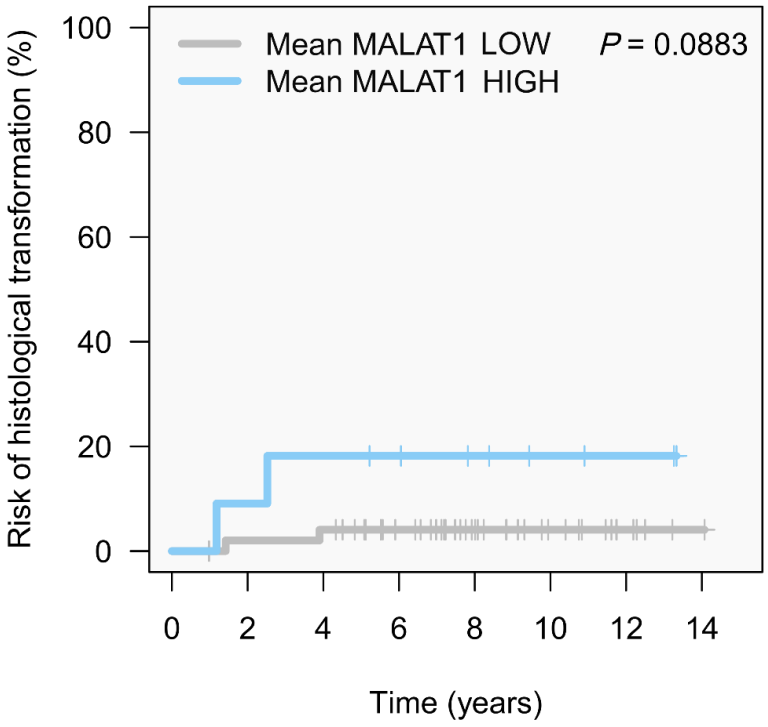
(a)



No. at risk:

Mean MALAT1 LOW	50	48	47	36	23	13	5	1
Mean MALAT1 HIGH	11	11	8	7	5	3	2	0

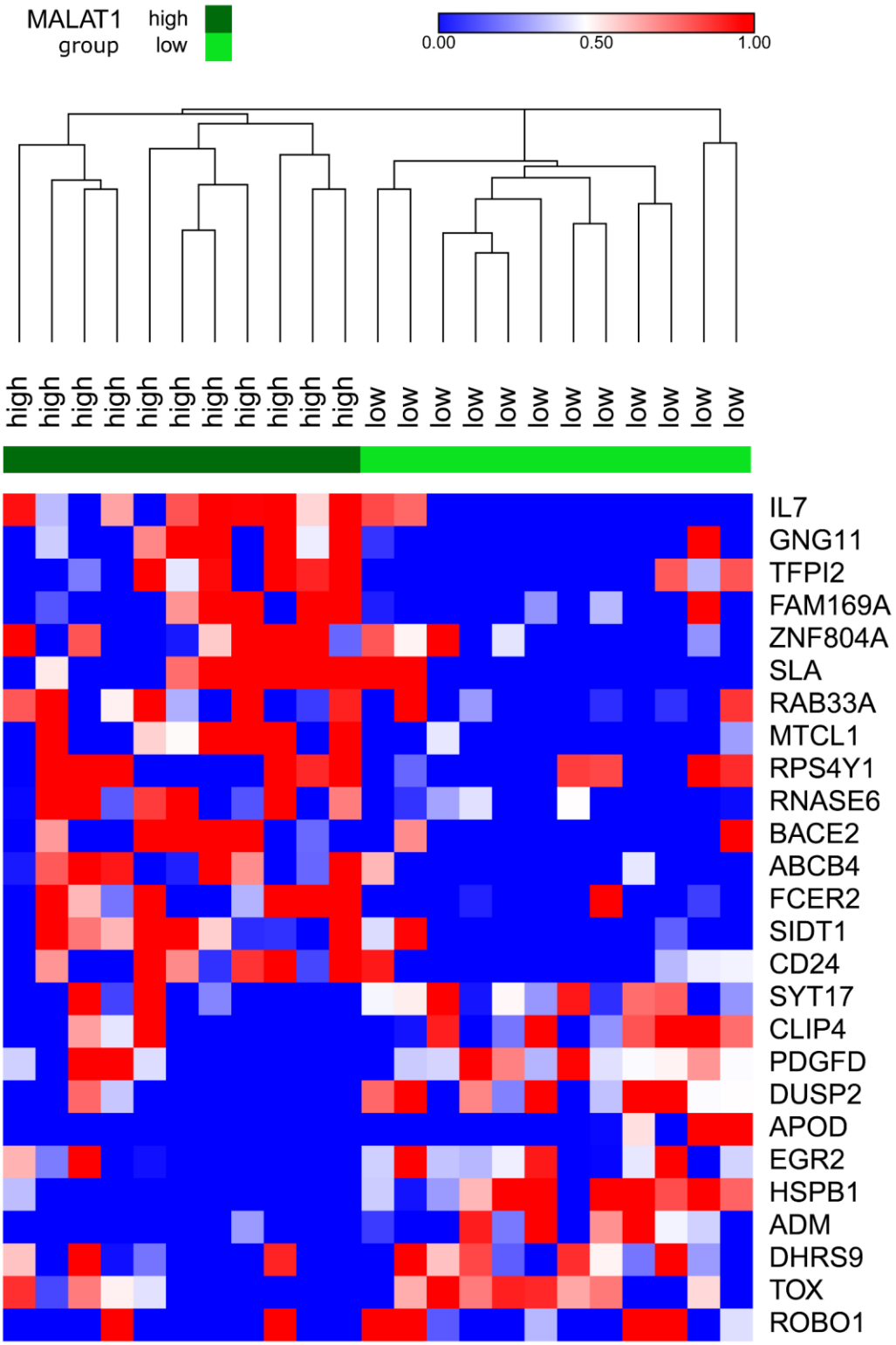
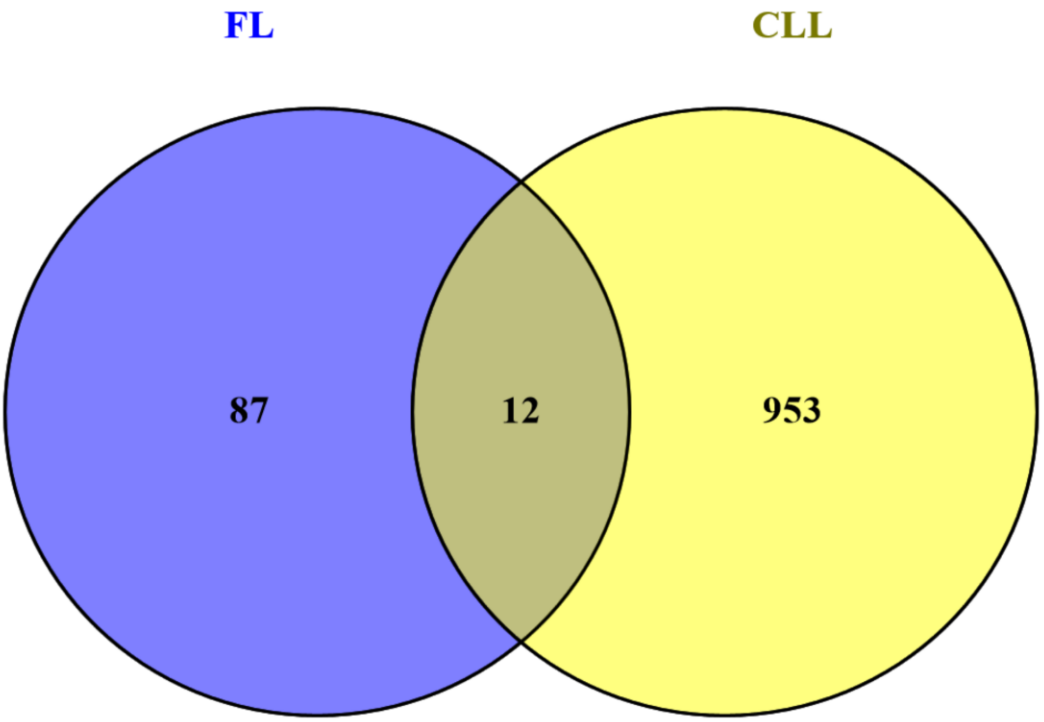
(b)



No. at risk:

Mean MALAT1 LOW	50	47	45	36	23	13	5	1
Mean MALAT1 HIGH	11	10	8	7	5	3	2	0

Suppl. Fig 10


MALAT1 group
high
low
0.00
0.50
1.00
high high high high high high high high high high low low low low low low low low low low low low
IL7
GNG11
TFPI2
FAM169A
ZNF804A
SLA
RAB33A
MTCL1
RPS4Y1
RNASE6
BACE2
ABCB4
FCER2
SIDT1
CD24
SYT17
CLIP4
PDGFD
DUSP2
APOD
EGR2
HSPB1
ADM
DHRS9
TOX
ROBO1

Suppl. Fig 11