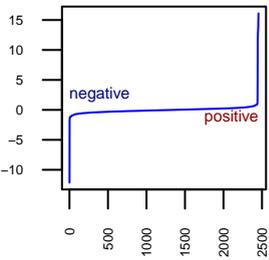


Component # 1 (stability = 0.999)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

GO:MF pos : 0 terms(FDR<0.1)

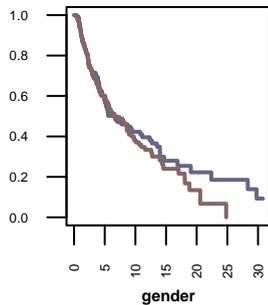
7
negative

14
positive

XIST
FDCSP
PPP1R3C
PAGE2
FRG2DP
HCN1
PDLIM4

DDX3Y
EIF1AY
GYG2P1
KDM5D
NLGN4Y
PRKY
RPS4Y1
TTY15
TXLNGY
USP9Y
UTY
ZFY
DDX43
PEX5L

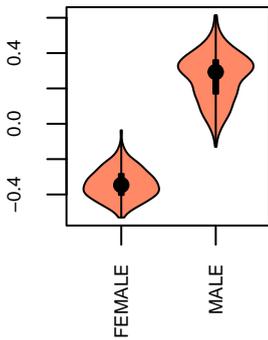
Cox regression:
logtest pv=1.9e-01
LHR=0.28 (CI = -0.14, 0.71)



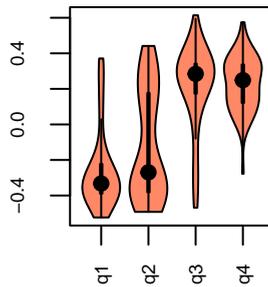
factor
gender
Height
Weight
Year.of.last.contact
Disease.Free.Status.at.last.contact
vital_status_at_last_contact
Sample.country
Primary.Melanoma.Tissue.Site
Oncotree.Code
Cancer.Type.Detailed

p.value
2.01e-203
7.13e-32
3.83e-08
7.17e-03
7.92e-03
8.81e-03
9.27e-03
9.66e-03
1.09e-02
1.09e-02

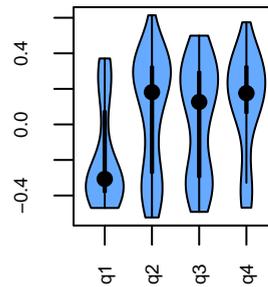
gender
pv=2.0e-203



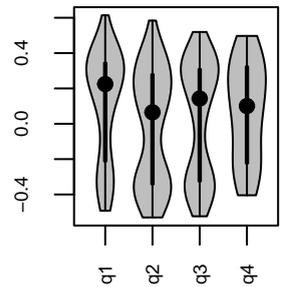
Height
pv=7.1e-32



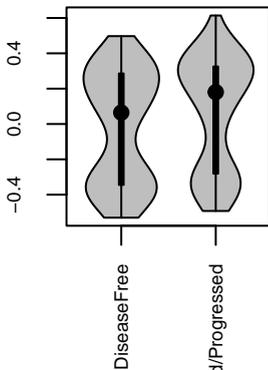
Weight
pv=3.8e-08



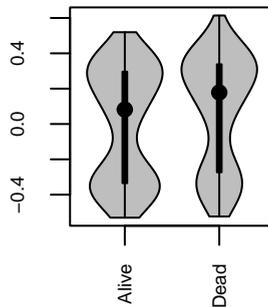
Year.of.last.contact
pv=7.2e-03



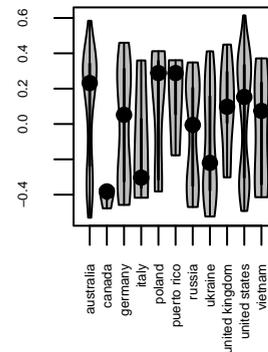
Disease.Free.Status.at.last.contact
pv=7.9e-03



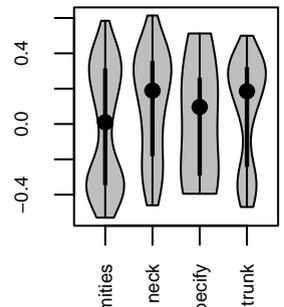
vital_status_at_last_contact
pv=8.8e-03



Sample.country
pv=9.3e-03

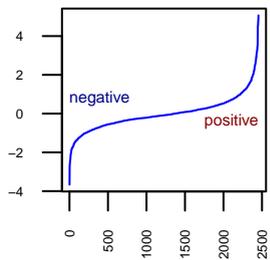


Primary.Melanoma.Tissue.Site
pv=9.7e-03



Component # 2 (stability = 0.927)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 3 terms(FDR<0.1)

Term
pigment biosynthetic process
melanocyte differentiation
melanosome transport

FDR
2.00e-07
9.07e-03
2.10e-02

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 1 terms(FDR<0.1)

Term
melanosome

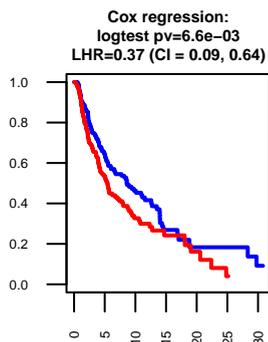
FDR
4.41e-09

GO:MF neg : 0 terms(FDR<0.1)

GO:MF pos : 0 terms(FDR<0.1)

16 negative 78 positive

- EDN3
- ZNF536
- GFRA3
- NPTX2
- HAPLN1
- ST8SIA5
- NEFL
- GRIA2
- KLHDC8A
- FAM135B
- PRIMA1
- CMTM5
- GDNF
- GAP43
- KLK6
- NEFM
- PMEL
- TRPM1
- MLANA
- TYRP1
- TYR
- DCT
- GPR143
- TRIM63
- ABCB5
- SLC45A2
- D4S234E
- LRRN4CL
- MCOLN3
- TUBB4A
- ASB11
- CBX3P7
- CDH3
- TEX41
- MLPH
- SLC6A17
- TSPAN10
- GAPDHS
- GMPR
- ABCC2
- SLC24A5
- CDH1
- FAM69C
- IRF4
- CA14
- EPHA5
- ACCSL
- BIRC7
- LDB3
- ESRP1
- CHST9
- CRTAC1
- HPGD
- KIT
- LGI3
- MME
- GYG2
- ST8SIA6
- PRKG2
- KCNJ13
- STK32A
- SFTPC
- CAPN3
- KLHL38
- HRK
- PRDM7
- POU3F3
- PKNOX2
- SULT1C2
- DMKN
- PPARGC1A
- IRX6
- NRG3
- WDR63
- SLC6A15
- SOX6
- GDF15
- PROM1
- QPCT
- VEPH1
- S100A1
- GALNTL6
- IP6K3
- PRAME
- BCHE
- BCAN
- KCNN2
- SLC5A10
- PCDH7
- NMRK2
- RTN4RL1
- IL12RB2
- ALDH3B2
- PRTG



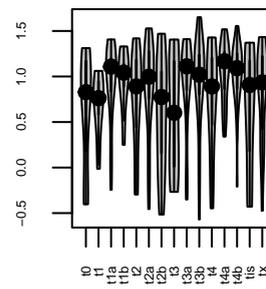
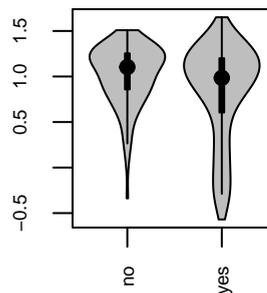
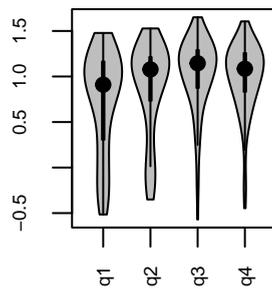
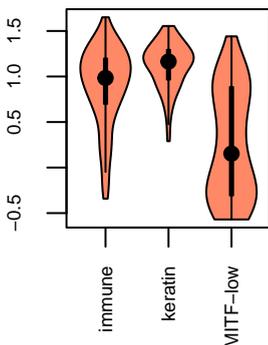
factor	p.value
RNASEQ.CLUSTER_CONSENHIER	2.61e-29
Breslow.Depth	1.24e-04
New.tumor.event.after.initial.treatment	4.78e-04
Cancer.stage.T	7.42e-04
Prospective.Tissue.Collection	8.26e-04
Retropective.Tissue.Collection	8.26e-04
ajcc_pathologic_tumor_stage	1.57e-03
Radiation.therapie	2.97e-03
Did.patient.start.adjuvant.postoperative.radiotherapy.	3.06e-03
initial_pathologic_dx_year	3.08e-03

RNASEQ.CLUSTER_CONSENHIER
pv=2.6e-29

Breslow.Depth
pv=1.2e-04

New.tumor.event.after.initial.treatment
pv=4.8e-04

Cancer.stage.T
pv=7.4e-04

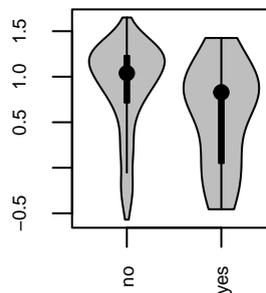
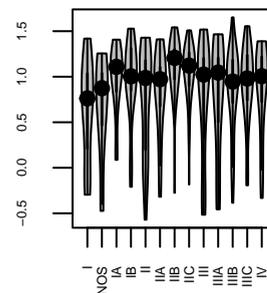
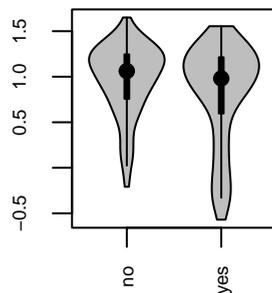
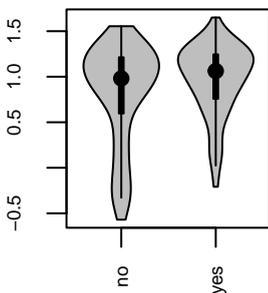


Prospective.Tissue.Collection
pv=8.3e-04

Retropective.Tissue.Collection
pv=8.3e-04

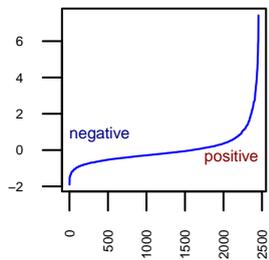
ajcc_pathologic_tumor_stage
pv=1.6e-03

Radiation.therapie
pv=3.0e-03



Component # 3 (stability = 0.968)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 8 terms(FDR<0.1)

Term	FDR
keratinocyte differentiation	4.49e-17
intermediate filament organization	6.68e-08
defense response to bacterium	1.97e-07
peptide cross-linking	1.17e-05
antimicrobial humoral response	1.43e-04
negative regulation of endopeptidase act...	4.29e-03
epidermis development	1.50e-02
innate immune response	1.55e-02

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 8 terms(FDR<0.1)

Term	FDR
cornified envelope	7.15e-21
extracellular exosome	4.90e-13
intermediate filament cytoskeleton	1.01e-09
cytosol	3.18e-04
desmosome	2.16e-03
IgG immunoglobulin complex	4.41e-03
immunoglobulin complex, circulating	8.33e-03
extracellular space	8.33e-03

GO:MF neg : 0 terms(FDR<0.1)

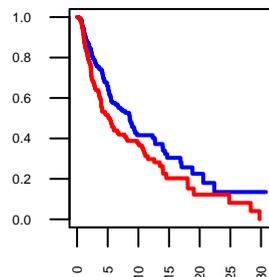
GO:MF pos : 5 terms(FDR<0.1)

Term	FDR
structural constituent of skin epidermis	1.17e-07
serine-type endopeptidase inhibitor acti...	1.33e-03
serine-type endopeptidase activity	2.40e-03
immunoglobulin receptor binding	9.75e-03
calcium-dependent protein binding	1.72e-02

2 negative 153 positive

- ALB
- PMP2
- CALML3
- CEACAM6
- CRNN
- DSC3
- DSG3
- FGFBP1
- IVL
- KRT13
- KRT14
- KRT16
- KRT4
- KRT5
- KRT6A
- KRT6B
- KRT6C
- LY6D
- PI3
- S100A7
- SERPINB3
- SERPINB5
- SPRR1A
- SPRR1B
- SPRR2A
- SPRR2D
- SPRR2E
- SPRR3
- TRIM29
- CEACAM5
- SERPINB13
- SFN
- KRT17
- TGM3
- MUC21
- KRT78
- A2ML1
- SLPI
- FAM83A
- S100A14
- CLCA4
- DSG1
- BPIFB1
- LCN2
- SPRR2G
- KRT19
- TMPRSS4
- KLK11
- SERPINB4
- TMPRSS11D
- SBSN
- CLCA2
- PKP1
- KLK10
- RAB25
- CALML5
- KLK7
- RHCG
- SPRR2F
- GBP6
- C10orf99
- SCEL
- COL17A1
- MIR205HG
- KRT15
- TMPRSS11E
- KLK13
- FAM83C
- KRTDAP
- S100A8
- KLK12
- SPRR2B
- TACSTD2
- MAL2
- C2orf54
- CXCL17
- AGR2
- GRHL2
- PDZK11P1
- ANXA8
- SLC6A14
- EVPL
- EHF
- GGT6

Cox regression:
logtest pv=2.3e-06
LHR=0.66 (CI = 0.41, 0.91)



- factor
- Sample.Type
- Tumor.tissue.site
- Tumor.location.site
- Cancer.Type.Detailed
- Oncotree.Code
- RNASEQ.CLUSTER_CONSENHIER
- Sample.country
- New.tumor.event.after.initial.treatment
- ICD.10.TopLevel
- Breslow.Depth

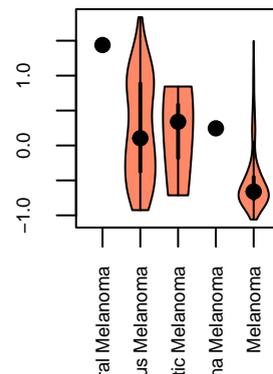
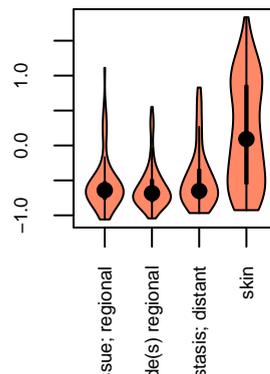
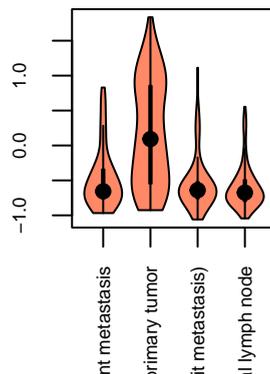
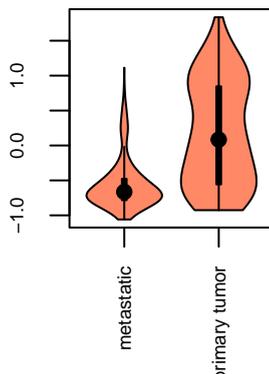
- p.value
- 1.30e-37
- 6.13e-37
- 8.93e-37
- 2.98e-29
- 2.98e-29
- 1.08e-25
- 1.02e-22
- 1.13e-18
- 1.82e-16
- 1.38e-13

Sample.Type
pv=1.3e-37

Tumor.tissue.site
pv=6.1e-37

Tumor.location.site
pv=8.9e-37

Cancer.Type.Detailed
pv=3.0e-29

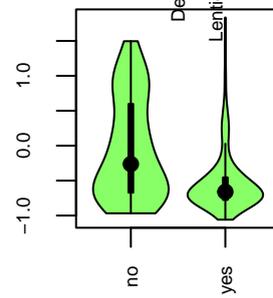
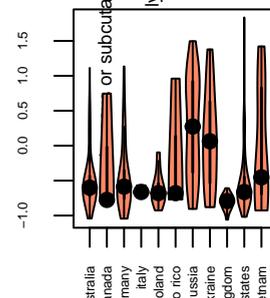
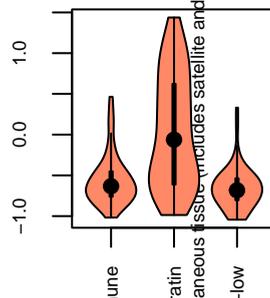
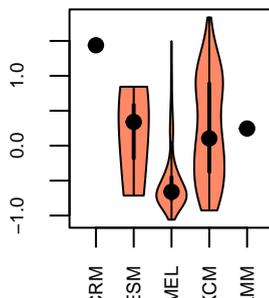


Oncotree.Code
pv=3.0e-29

RNASEQ.CLUSTER_CONSENHIER
pv=1.1e-25

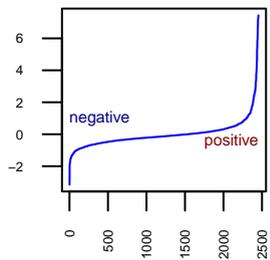
Sample.country
pv=1.0e-22

New.tumor.event.after.initial.treatment
pv=1.0e-07



Component # 4 (stability = 0.985)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 1 terms(FDR<0.1)

Term
negative regulation of transcription by ...

FDR
6.49e-02

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

GO:MF pos : 1 terms(FDR<0.1)

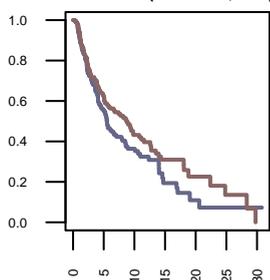
Term
histone deacetylase binding

FDR
1.25e-03

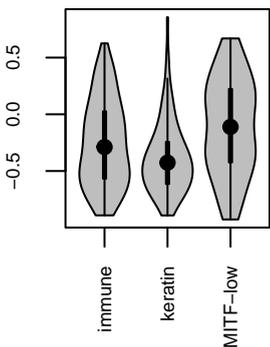
16 negative 125 positive

- SOX1
- FAM19A5
- BAI1
- KNDC1
- KIF1A
- ADARB2
- TMEM179
- CRTAC1
- DMRT2
- OLFM1
- HUNK
- BCHE
- GPR27
- SOX8
- FIBCD1
- P2RY12
- AACSP1
- BAGE2
- CSAG1
- CSAG3
- CSMD1
- CT55
- CTAG2
- DSCR8
- FAM133A
- GABRA3
- GABRG2
- GAGE1
- MAGEA1
- MAGEA10
- MAGEA11
- MAGEA12
- MAGEA3
- MAGEA4
- MAGEA6
- MAGEB1
- MAGEB2
- MAGEC1
- MAGEC2
- MKRN9P
- MUC15
- NAA11
- PAGE1
- PAGE2
- PAGE5
- PASD1
- TUBA3C
- ZNF812
- SLC30A8
- VCX
- VCX3A
- GAGE2A
- ZNF560
- GTSE1
- POU6F2
- NLRP11
- FAR2P1
- MAGEB16
- MAT1A
- OVAL
- MORC1
- MYT1L
- CASC9
- MAEL
- PAGE2B
- ACTBP8
- NLRP4
- FLJ36000
- SLC5A12
- FRG2DP
- SSX1
- CLEC2L
- FOXR2
- SLCO1A2
- SAGE1
- XAGE3
- ASB4
- KLK2
- CTCF
- CT45A10
- PAEP
- KLF14
- WDR72
- HBE1
- STK31
- KC6
- HTR2C
- CDH12
- IL13RA2
- CDH18
- ANGPT1
- PNMA5
- C5orf17
- GPR158
- LIN28B
- GCSAML
- TSPEAR
- CT45A1

Cox regression:
logtest pv=6.5e-02
LHR=-0.34 (CI = -0.71, 0.03)



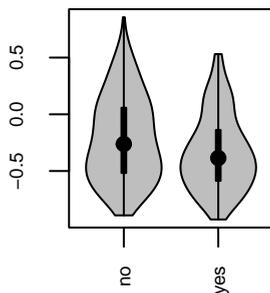
RNASEQ.CLUSTER_CONSENHIER
pv=4.4e-05



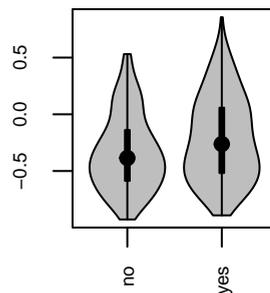
factor
RNASEQ.CLUSTER_CONSENHIER
Prospective.Tissue.Collection
Retropective.Tissue.Collection
MUTATIONSUBTYPES
Days.to.third.new.tumor.event.after.initial.treatment
Days.to.first.new.tumor.event.after.initial.treatment
third.prominent.montif
Cancer.Type.Detailed
Oncotree.Code
last_contact_days_to

p.value
4.45e-05
3.83e-04
3.83e-04
1.11e-03
2.83e-03
2.86e-03
4.99e-03
5.13e-03
5.13e-03
5.49e-03

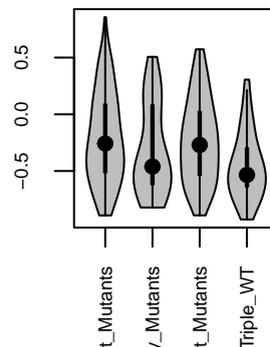
Prospective.Tissue.Collection
pv=3.8e-04



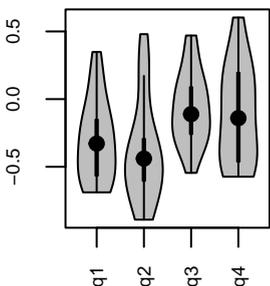
Retropective.Tissue.Collection
pv=3.8e-04



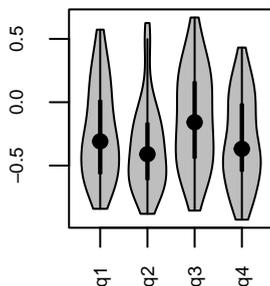
MUTATIONSUBTYPES
pv=1.1e-03



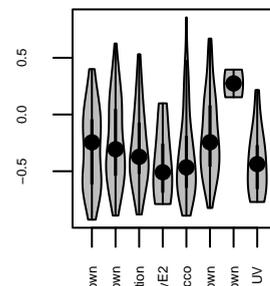
Days.to.third.new.tumor.event.after.initial.tre.
pv=2.8e-03



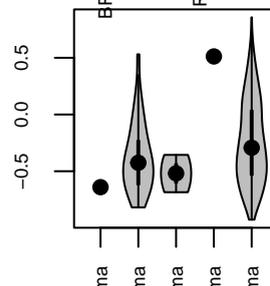
Days.to.first.new.tumor.event.after.initial.tre.
pv=2.9e-03



third.prominent.montif
pv=5.0e-03

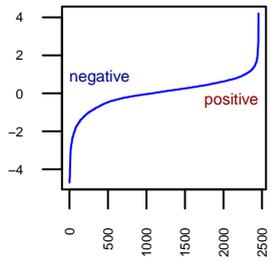


Cancer.Type.Detailed
pv=5.1e-03



Component # 5 (stability = 0.829)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

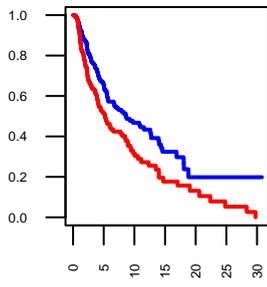
GO:MF pos : 0 terms(FDR<0.1)

65 negative **10 positive**

- ITIH6
- OLIG1
- NELL1
- CPN1
- SFRP1
- OLIG2
- ITGA10
- RLBP1
- GJB1
- TRIM51CP
- TRIM51
- SHISA2
- LOXL4
- CNTNAP3
- CNTNAP3B
- MUC7
- APOD
- MRGPRX4
- EWSAT1
- PRSS33
- EYA1
- CA6
- EDN3
- CHL1
- WNK4
- FREM2
- ALDH1A3
- EYA4
- MIA
- SOX8
- COL9A1
- RAB17
- FAM84B
- SLC24A5
- RXRG
- ROPN1
- PRKG2
- HAPLN1
- TSPAN7
- S100B
- SERPINA5
- MMP16
- VGFB
- FAM19A5
- GABRR1
- GPR37
- S100A1
- MPPED2
- ID4
- SERPINA3
- TESC
- MPZ
- C1QTNF3
- HRK
- UNC80
- CDH19
- CHRM3
- NRG3
- PLCB4
- PPP1R9A
- TYR
- RIPK4
- DNASE2B
- GAPDHS
- NAT8L

- TYRP1
- IP6K3
- FOXD1
- PITX2
- DKK1
- FGF5
- NOV
- KCNG1
- ASPA
- CXCL5

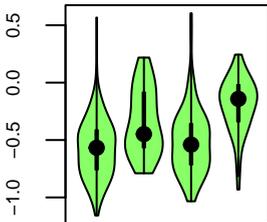
Cox regression:
logtest pv=1.0e-04
LHR=0.90 (CI = 0.45, 1.35)



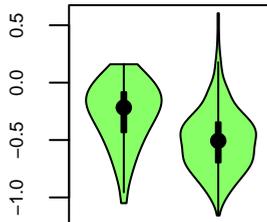
- factor
- MUTATIONSUBTYPES
 - UV.signature
 - RNASEQ.CLUSTER_CONSENHIER
 - age_at_initial_pathologic_diagnosis
 - birth_days_to_initial_diagnosis
 - BRAFV600.
 - Year.of.Birth
 - third.prominent.motif
 - most.prominent.motif
 - age.at.last.contact

- p.value
- 9.34e-16
 - 1.54e-11
 - 9.38e-10
 - 6.46e-07
 - 6.70e-07
 - 4.11e-06
 - 5.23e-06
 - 8.46e-06
 - 1.12e-05
 - 7.78e-05

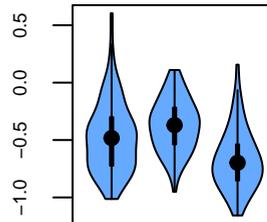
MUTATIONSUBTYPES
pv=9.3e-16



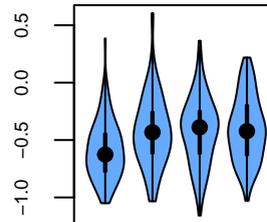
UV.signature
pv=1.5e-11



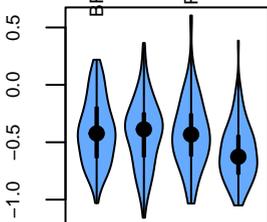
RNASEQ.CLUSTER_CONSENHIER
pv=9.4e-10



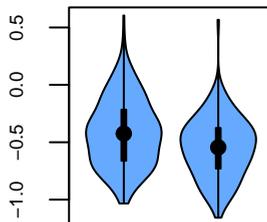
age_at_initial_pathologic_diagnosis
pv=6.5e-07



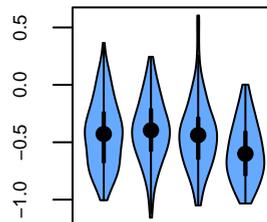
birth_days_to_initial_diagnosis
pv=6.7e-07



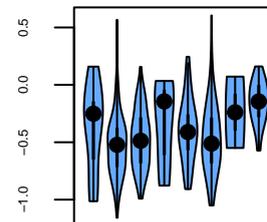
BRAFV600.
pv=4.1e-06



Year.of.Birth
pv=5.2e-06

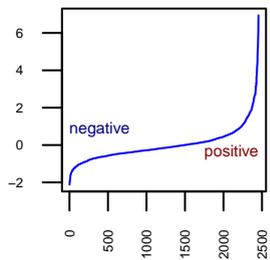


third.prominent.motif
pv=8.5e-06



Component # 6 (stability = 0.983)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 1 terms(FDR<0.1)

Term: extracellular matrix organization
FDR: 5.82e-05

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 2 terms(FDR<0.1)

Term: extracellular matrix, extracellular region
FDR: 3.92e-12, 6.86e-06

GO:MF neg : 0 terms(FDR<0.1)

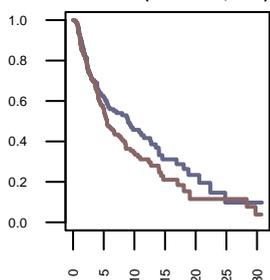
GO:MF pos : 1 terms(FDR<0.1)

Term: extracellular matrix structural constitu...
FDR: 3.28e-08

6 negative, 127 positive

- MMP12
- SHISA3
- FDCSP
- CR2
- LRP2
- KCNQ1
- CILP
- COL10A1
- COL11A1
- COMP
- EPYC
- ITGBL1
- LRRC15
- MFAP5
- MMP13
- OGN
- OMD
- PI16
- PLA2G2A
- SFRP2
- SFRP4
- WISP2
- WNT2
- ADIPOQ
- ASPN
- CXCL14
- SPON1
- HTRA3
- DPT
- FNDC1
- CCL11
- FIBIN
- FABP4
- XPNPEP2
- ELN
- WBSR17
- PRG4
- WT1
- AGTR1
- FMO1
- SYNDIG1
- MXRA5Y
- KCND2
- PTPRD
- PRND
- CPA3
- TPSAB1
- MMP3
- COL8A1
- TPSB2
- ACKR1
- STMN2
- ST6GAL2
- NRK
- RBP4
- SCARA5
- TUSC5
- CD300LG
- MFAP4
- MEG3
- HAS1
- PLIN4
- THBS4
- GDF10
- PAX1
- SELE
- PLIN1
- F2RL2
- C3
- CTSG
- IBSP
- ACTC1
- MMP7
- POSTN
- SLITRK4
- PTGFR
- PTN
- PENK
- IL20RA
- MEOX2
- TWIST2
- ABI3BP
- MMP2
- CES1
- DIO2
- FGF10
- ISM1
- KLK4

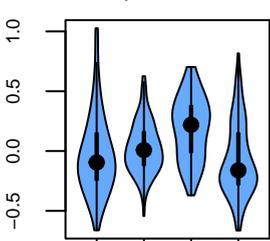
Cox regression:
logtest pv=8.7e-02
LHR=0.35 (CI = -0.05, 0.75)



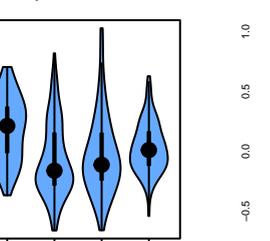
- factor
- Tumor.tissue.site
 - Tumor.location.site
 - ICD.10.TopLevel
 - tumor_status_at_last_contact
 - RNASEQ.CLUSTER_CONSENHIER
 - vital_status_at_last_contact
 - ajcc_pathologic_tumor_stage
 - Disease.Free.Status.at.last.contact
 - Cancer.stage.T
 - Normal.control.type

- p.value
- 4.75e-10
 - 5.99e-10
 - 4.56e-06
 - 7.03e-04
 - 1.88e-03
 - 4.14e-03
 - 1.23e-02
 - 1.58e-02
 - 1.84e-02
 - 1.95e-02

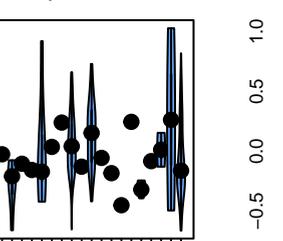
Tumor.tissue.site
pv=4.7e-10



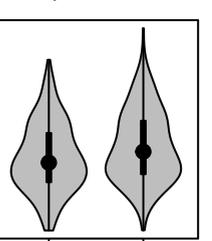
Tumor.location.site
pv=6.0e-10



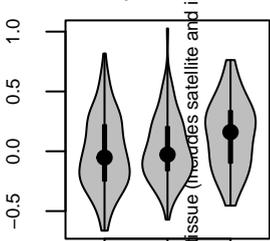
ICD.10.TopLevel
pv=4.6e-06



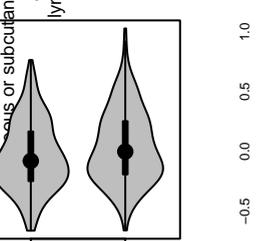
tumor_status_at_last_contact
pv=7.0e-04



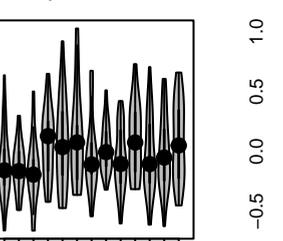
RNASEQ.CLUSTER_CONSENHIER
pv=1.9e-03



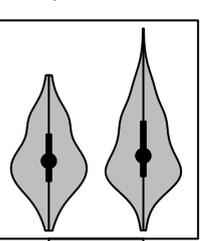
vital_status_at_last_contact
pv=4.1e-03



ajcc_pathologic_tumor_stage
pv=1.2e-02

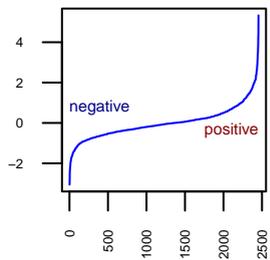


Disease.Free.Status.at.last.contact
pv=1.6e-02



Component # 7 (stability = 0.790)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

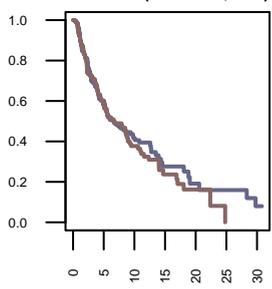
GO:MF neg : 0 terms(FDR<0.1)

GO:MF pos : 0 terms(FDR<0.1)

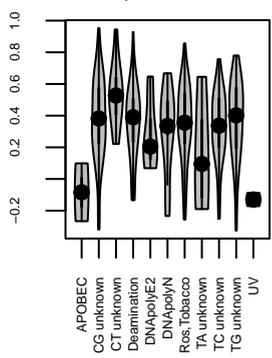
15 negative **77 positive**

- TMEM163
- PRKG2
- RTN4RL1
- ZIC2
- ASB11
- SLC6A17
- EDN3
- OGDHL
- SNED1
- ANO4
- CYP24A1
- HAP1
- MT1M
- IFNLR1
- MNX1
- PMP2
- FRG2DP
- FABP7
- INSC
- CMTM5
- TYRP1
- ZNF536
- MPZ
- TCN1
- MLIP
- SLC5A4
- DCT
- GRIK2
- CLDN1
- UGT8
- ABCB5
- PRDM7
- CNDP1
- MEGF10
- COL19A1
- HCCAT5
- NLGN1
- RDH8
- MDGA2
- UGT2B7
- BCAN
- LRAT
- SOX2
- ATP6V0A4
- KCNJ13
- ANGPTL7
- CA8
- SLC35F1
- KCNN2
- GRIK3
- ADAM23
- VEPH1
- GPR126
- LRRTM2
- MRGPRX3
- TTR
- FLRT3
- PMEL
- RGR
- POU3F2
- ATP10B
- SERPINA5
- PLP1
- SEMA3B
- TMEM171
- FREM2
- IGSF11
- PTPRZ1
- FSTL5
- POPDC3
- SLC7A4
- SOSTDC1
- CA14
- ITGB8
- B3GALT2
- SLITRK2
- UG0898H09
- ENTHD1
- ASPA
- MOXD1
- NOV
- SLITRK6
- DLGAP1
- S100B
- APOD
- SLAMF9
- PKLR
- MUC7
- FCRLA
- WISP2
- SORCS1
- KCNJ10

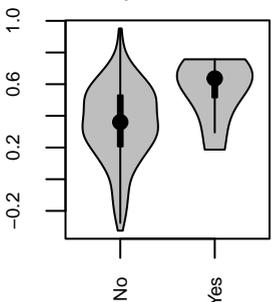
Cox regression:
logtest pv=3.4e-01
LHR=0.27 (CI = -0.29, 0.82)



fifth.prominent.motiv
pv=1.3e-03

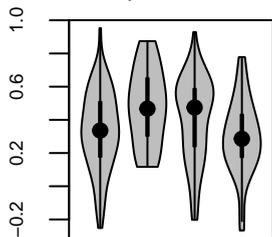


NRASG12.13.
pv=2.1e-02

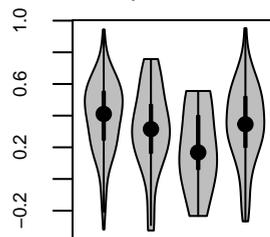


- | factor | p.value |
|---|----------|
| fifth.prominent.motiv | 1.30e-03 |
| MUTATIONSUBTYPES | 3.52e-03 |
| Primary.Melanoma.Tissue.Site | 7.97e-03 |
| age.at.last.contact | 1.34e-02 |
| NRASG12.13. | 2.08e-02 |
| Malignant.neoplasm.mitotic.count.rate | 2.10e-02 |
| Days.to.first.new.tumor.event.after.initial.treatment | 2.70e-02 |
| most.prominent.motif | 3.08e-02 |
| second.prominent.motif | 3.86e-02 |
| New.tumor.event.after.initial.treatment | 5.02e-02 |

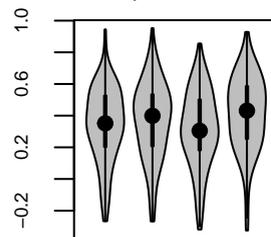
MUTATIONSUBTYPES
pv=3.5e-03



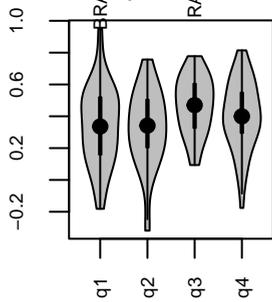
Primary.Melanoma.Tissue.Site
pv=8.0e-03



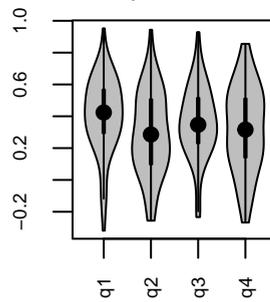
age.at.last.contact
pv=1.3e-02



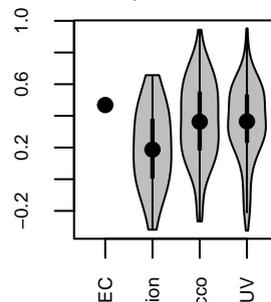
Malignant.neoplasm.mitotic.count.rate
pv=2.1e-02



Days.to.first.new.tumor.event.after.initial.treatment
pv=2.7e-02

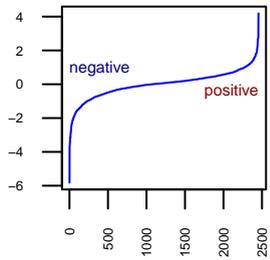


most.prominent.motif
pv=3.1e-02



Component # 8 (stability = 0.805)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

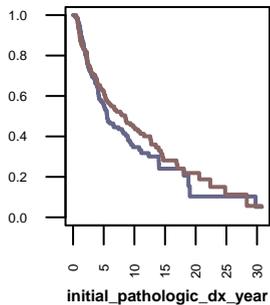
GO:MF pos : 0 terms(FDR<0.1)

66 negative **22 positive**

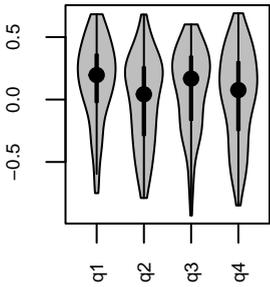
- PAEP
- SLC38A8
- VEGFA
- ATP6V0D2
- MAPK4
- RDH8
- DNER
- UCN2
- CLDN14
- CFAP61
- CTCF
- OCA2
- SLC5A4
- SLC7A4
- CA8
- ROBO2
- SLAMF9
- SLC16A6
- FAM163A
- VEPH1
- EPHA4
- ENTHD1
- PCSK9
- PNLIPRP3
- NMRK2
- PRDM7
- RIPK4
- HES2
- POU3F1
- SPACA3
- MCF2
- OR2C3
- DLGAP1
- GADL1
- MMP8
- FSTL5
- FAM132B
- LAMA1
- EYA4
- LONRF2
- CXADR
- RFPL2
- KLK6
- ADCY2
- ONECUT2
- PMEL
- CNDP1
- NALCN
- CHGB
- CYP11A1
- L1CAM
- PCLO
- SYT5
- CDH7
- CPSF1P1
- TMEM56
- NECAB2
- POPDC3
- TMEM246
- GABRA5
- TM4SF19
- LUZP4
- MCTP2
- OGDHL
- TCN1
- PTPRU

- ASB11
- CHRM1
- ANGPTL7
- SCRG1
- SOX9
- HHATL
- POU3F3
- LRP2
- CRTAC1
- BANCR
- NELL1
- LRRTM4
- SOX2
- KCNIP1
- CA8
- GRIK3
- PCDH7
- B4GALNT4
- KCNJ13
- UG0898H09
- COL24A1
- MAP2
- HPSE2

Cox regression:
logtest pv=3.3e-02
LHR=-0.44 (CI = -0.83, -0.04)



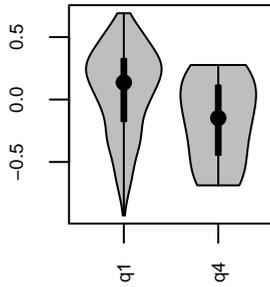
initial_pathologic_dx_year
pv=1.5e-03



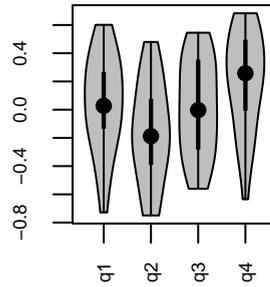
- factor
- initial_pathologic_dx_year
 - TP53.stopgain
 - Days.to.third.new.tumor.event.after.initial.treatment
 - RNASEQ.CLUSTER_CONSENHIER
 - Days.to.first.new.tumor.event.after.initial.treatment
 - ARID2.splice.acceptor
 - ajcc_pathologic_tumor_stage
 - fifth.prominent.motiv
 - days_to_death_after_initial_diagnosis
 - CDKN2A.splice.acceptor

- p.value
- 1.53e-03
 - 4.84e-03
 - 7.34e-03
 - 9.48e-03
 - 2.27e-02
 - 2.85e-02
 - 4.49e-02
 - 8.26e-02
 - 8.51e-02
 - 1.00e-01

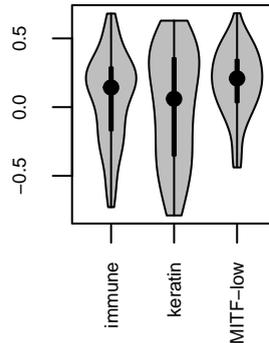
TP53.stopgain
pv=4.8e-03



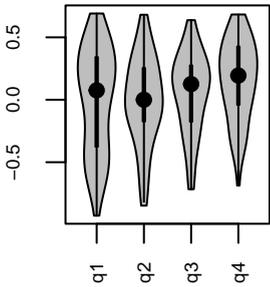
ays.to.third.new.tumor.event.after.initial.tre
pv=7.3e-03



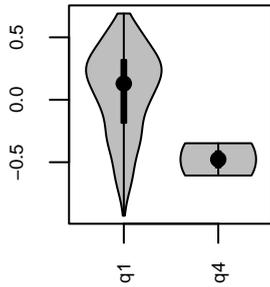
RNASEQ.CLUSTER_CONSENHIER
pv=9.5e-03



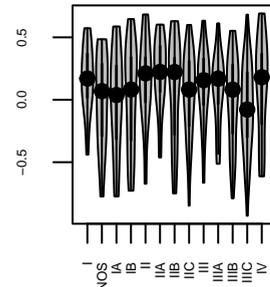
ays.to.first.new.tumor.event.after.initial.tre
pv=2.3e-02



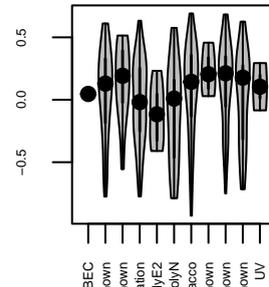
ARID2.splice.acceptor
pv=2.9e-02



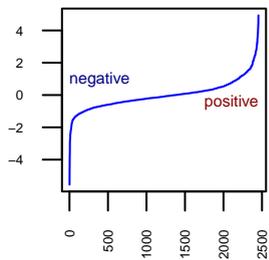
ajcc_pathologic_tumor_stage
pv=4.5e-02



fifth.prominent.motiv
pv=8.3e-02



Metagene
(involvement of features)



Component # 9 (stability = 0.945)

GO:BP neg : 7 terms(FDR<0.1)

Term	FDR
phagocytosis, engulfment	4.25e-12
phagocytosis, recognition	4.25e-12
complement activation, classical pathway	2.39e-10
positive regulation of B cell activation	2.86e-10
B cell receptor signaling pathway	3.82e-09
defense response to bacterium	1.05e-07
innate immune response	1.23e-04

GO:BP pos : 4 terms(FDR<0.1)

Term	FDR
skin development	3.34e-17
regulation of water loss via skin	1.10e-03
epidermis development	3.18e-02
ceramide metabolic process	5.97e-02

GO:CC neg : 6 terms(FDR<0.1)

Term	FDR
immunoglobulin complex, circulating	9.60e-11
IgG immunoglobulin complex	4.07e-10
blood microparticle	3.92e-08
extracellular exosome	4.16e-06
external side of plasma membrane	1.92e-05
secretory IgA immunoglobulin complex	7.51e-02

GO:CC pos : 4 terms(FDR<0.1)

Term	FDR
cornified envelope	2.35e-08
keratin filament	2.25e-02
cytosol	3.92e-02
epidermal lamellar body	8.82e-02

GO:MF neg : 2 terms(FDR<0.1)

Term	FDR
immunoglobulin receptor binding	2.46e-13
antigen binding	2.87e-10

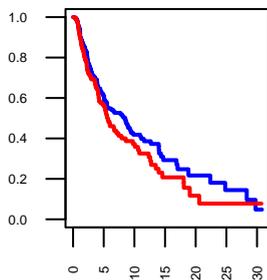
GO:MF pos : 1 terms(FDR<0.1)

Term	FDR
calcium-dependent phospholipase A2 activ...	3.28e-02

19 negative **77 positive**

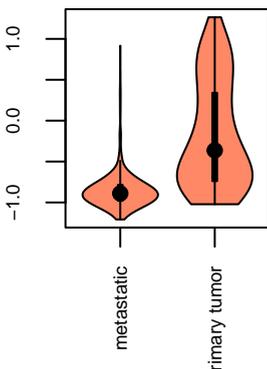
- KRT4
- KRT13
- BPIFB1
- SPRR3
- MUC21
- CRNN
- STATH
- KRT19
- PIGR
- IGHG1
- IGHG3
- IGKC
- IGHG4
- DMBT1
- IL13RA2
- IGLC3
- IGLL5
- IGHGP
- IGLC2
- LOR
- KRT1
- CASP14
- FLG2
- LCE1C
- KRT2
- KPRP
- LCE1B
- LCE2B
- LCE1A
- DSC1
- LCE1F
- LCE2C
- C1orf68
- PSAPL1
- LCE6A
- HAL
- LCE2D
- WFDC12
- CALML5
- ARG1
- LCE3E
- CDSN
- WFDC5
- KRTDAP
- PLA2G4D
- ACER1
- LY6G6C
- LCE1D
- KLK5
- LGALS7
- ASPRV1
- BPIFC
- LCE3D
- CARD18
- KRT77
- AADACL2
- UNC93A
- MUCL1
- IGFL1
- PLA2G2F
- LGALS7B
- S100A7A
- KLK9
- SERPINA12
- SPTSSB
- SERPINB12
- PGLYRP4
- GLB1L3
- SDR9C7
- IRX4
- ALOX12B
- SPRR4
- CYP4F22
- SLURP1
- DSG1
- CHP2
- KLK8
- CIDEA
- SLC15A1
- ALOXE3
- CAPNS2
- TCERG1L
- FAM25A
- KRT75
- KLK7
- POU2F3
- GJB6
- PGLYRP3
- ABCA12
- PLA2G4F
- S100A7
- PLA2G3
- TP53AIP1
- CST6
- SLC6A11
- IRX2

Cox regression:
logtest pv=1.5e-04
LHR=0.64 (CI = 0.34, 0.94)

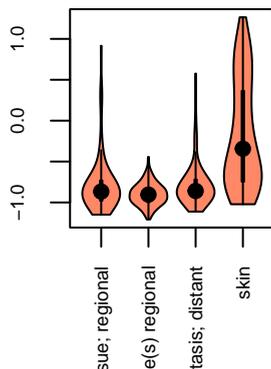


factor	p.value
Sample.Type	1.34e-49
Tumor.location.site	1.10e-48
Tumor.tissue.site	3.14e-48
Oncotree.Code	5.55e-34
Cancer.Type.Detailed	5.55e-34
Sample.country	1.92e-31
RNASEQ.CLUSTER_CONSENHIER	3.24e-27
New.tumor.event.after.initial.treatment	7.61e-20
ICD.10.TopLevel	1.56e-17
initial_pathologic_dx_year	8.61e-15

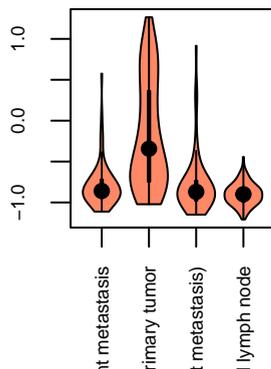
Sample.Type
pv=1.3e-49



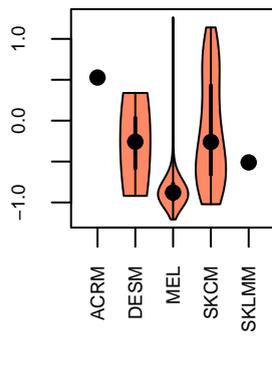
Tumor.location.site
pv=1.1e-48



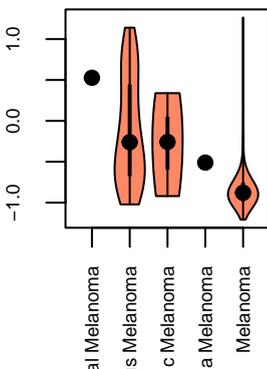
Tumor.tissue.site
pv=3.1e-48



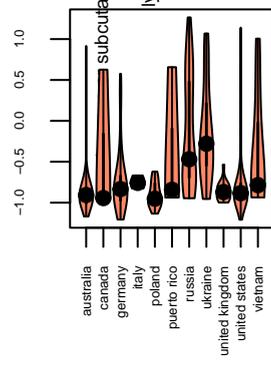
Oncotree.Code
pv=5.6e-34



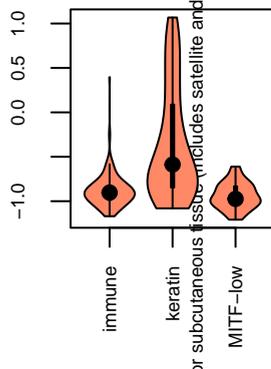
Cancer.Type.Detailed
pv=5.6e-34



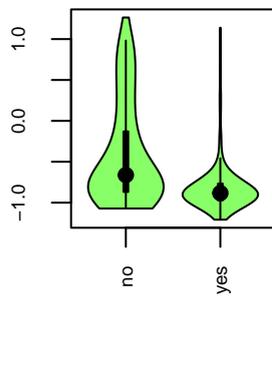
Sample.country
pv=1.9e-31



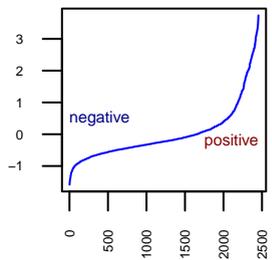
RNASEQ.CLUSTER_CONSENHIER
pv=3.2e-27



New.tumor.event.after.initial.treatment
pv=7.6e-20



Metagene
(involvement of features)



0 negative **234 positive**

- CXCL9
- IFNG
- IGHG1
- IGKC
- PLA2G2D
- CD8A
- GBP5
- CXCL13
- IGHG3
- LAG3
- CXCL10
- IDO1
- CD8B
- NKG7
- PDCD1
- CXCR2P1
- UBD
- IGHGP
- OR211P
- IGLC2
- FASLG
- IGLC3
- MZB1
- IGHM
- IGJ
- GZMH
- GZMK
- IGLL5
- CXCL11
- GZMA
- JAKMIP1
- LGALS17A
- SIRPG
- PRF1
- TIGIT
- CCL5
- IGHG2
- ZBED2
- ANKRD22
- TRGC2
- GBP1P1
- SH2D1A
- CD2
- CXCR6
- CXCR3
- TNFRSF9
- IKZF3
- GPR171
- THEMIS
- CD3D
- GZMB
- KLRD1
- SLAMF6
- TRAT1
- GBP4
- CCR5
- TRBC2
- CD3G
- IGHG4
- CD3E
- FCRL3
- FAM26F
- TRBV28
- CRTAM
- CD7
- GBP1
- TNIP3
- SLA2
- ADAMDEC1
- TBX21
- UBASH3A
- ZBP1
- TRAC
- CTSW
- FCRL5
- LCK
- CD38
- CD27
- P2RY10
- LAX1
- DTHD1
- TLR8

Component # 10 (stability = 0.927)

GO:BP neg : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

GO:BP pos : 42 terms(FDR<0.1)

Term	FDR
immune response-regulating cell surface ...	4.77e-28
adaptive immune response	4.77e-28
innate immune response	9.86e-24
positive regulation of lymphocyte activa...	5.97e-23
B cell activation	1.15e-20
T cell activation	4.14e-12
phagocytosis, engulfment	3.54e-11
response to virus	9.19e-11
humoral immune response mediated by circ...	4.56e-10
positive regulation of cytokine producti...	2.48e-09
response to bacterium	5.38e-09
immune response	2.47e-08
inflammatory response	3.52e-08
lymphocyte mediated immunity	1.84e-07
phagocytosis, recognition	2.48e-07
cytokine-mediated signaling pathway	2.62e-07
positive regulation of defense response	1.24e-06
T cell selection	1.43e-06
lymphocyte differentiation	2.11e-06
positive regulation of response to exter...	2.62e-06

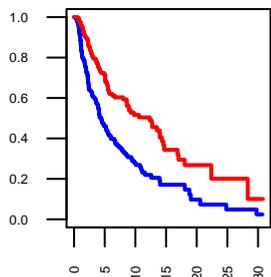
GO:CC pos : 8 terms(FDR<0.1)

Term	FDR
external side of plasma membrane	9.80e-29
T cell receptor complex	2.16e-12
immunoglobulin complex	9.15e-09
immunological synapse	8.57e-08
cytolytic granule	3.53e-03
blood microparticle	8.98e-03
membrane raft	1.68e-02
tertiary granule membrane	3.43e-02

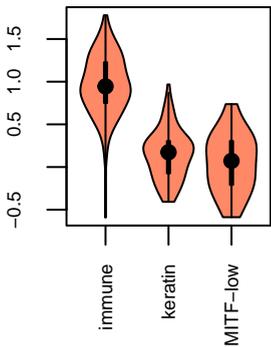
GO:MF pos : 13 terms(FDR<0.1)

Term	FDR
antigen binding	5.13e-14
immunoglobulin receptor binding	8.42e-11
C-C chemokine receptor activity	1.23e-03
C-C chemokine binding	3.75e-03
tumor necrosis factor receptor binding	5.75e-03
chemokine activity	7.53e-03
CCR chemokine receptor binding	2.51e-02
MHC protein binding	2.51e-02
purinergic nucleotide receptor activity	2.51e-02
MHC protein complex binding	3.17e-02

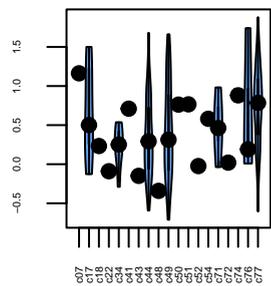
Cox regression:
logtest pv=2.2e-07
LHR=-0.63 (CI = -0.87, -0.39)



RNASEQ.CLUSTER_CONSENHIER
pv=3.6e-72

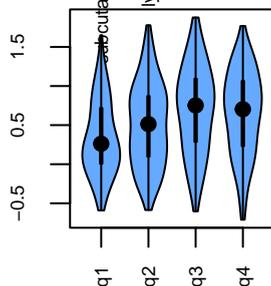
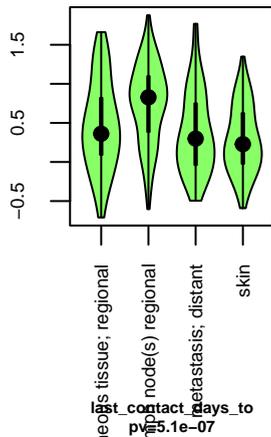


ICD.10.TopLevel
pv=1.3e-08

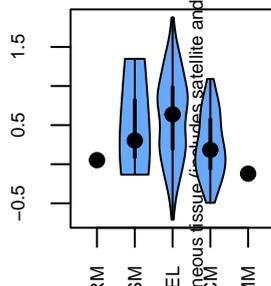
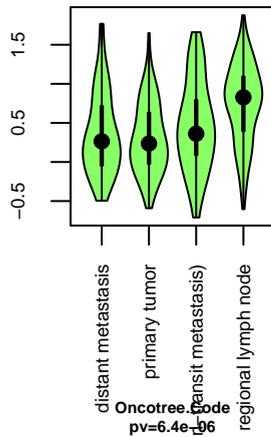


factor	p.value
RNASEQ.CLUSTER_CONSENHIER	3.57e-72
Tumor.location.site	1.59e-14
Tumor.tissue.site	4.92e-14
Sample.Type	8.45e-09
ICD.10.TopLevel	1.26e-08
last_contact_days_to	5.13e-07
Oncotree.Code	6.41e-06
Cancer.Type.Detailed	6.41e-06
vital_status_at_last_contact	2.24e-05
tumor_status_at_last_contact	3.04e-05

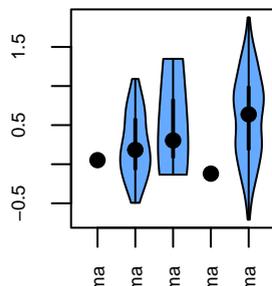
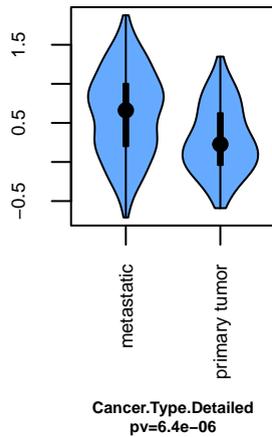
Tumor.location.site
pv=1.6e-14



Tumor.tissue.site
pv=4.9e-14

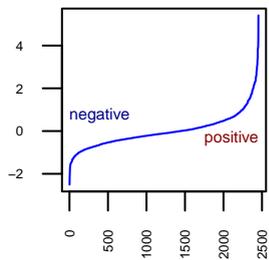


Sample.Type
pv=8.4e-09



Component # 11 (stability = 0.959)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 10 terms(FDR<0.1)

Term	FDR
B cell activation	1.62e-18
B cell receptor signaling pathway	2.77e-17
humoral immune response mediated by circ...	1.37e-13
phagocytosis, engulfment	2.08e-11
phagocytosis, recognition	3.05e-10
positive regulation of lymphocyte activa...	3.34e-09
response to bacterium	9.00e-07
innate immune response	8.95e-05
regulation of dendritic cell apoptotic p...	4.88e-02
immune response	5.15e-02

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 4 terms(FDR<0.1)

Term	FDR
immunoglobulin complex	2.06e-12
cell surface	5.39e-11
blood microparticle	4.25e-07
integral component of plasma membrane	7.11e-02

GO:MF neg : 0 terms(FDR<0.1)

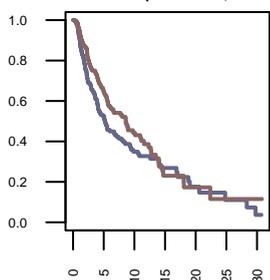
GO:MF pos : 6 terms(FDR<0.1)

Term	FDR
immunoglobulin receptor binding	2.87e-13
antigen binding	7.29e-12
lipopeptide binding	6.30e-03
immunoglobulin binding	2.26e-02
endogenous lipid antigen binding	5.82e-02
exogenous lipid antigen binding	5.82e-02

4 negative 90 positive

- MMP13
- COL11A1
- SALL1
- COL22A1
- CCL21
- CR2
- ADH1B
- FCER2
- PAX5
- C7
- CCL19
- IGHD
- MS4A1
- FCAMR
- IGHE
- NPY1R
- TCL1A
- SHISA3
- BLK
- CNR2
- CD19
- VPREB3
- CAPN6
- FCRL1
- CXCR5
- FAM129C
- BANK1
- ART4
- DNASE1L3
- IGHA1
- CD79A
- SERPINA9
- NPHS1
- TNFRSF13B
- CLU
- CLEC17A
- CXCL14
- IGHA2
- PH16
- KIAA0125
- HP
- ACKR1
- SPIB
- CLEC4M
- MMRN1
- LTF
- SELP
- PTPRT
- VIPR1
- FCRL2
- IGHM
- SLC22A3
- XKR4
- FABP4
- TBC1D27
- CHRD1
- HMCN2
- FCRL5
- AICDA
- CD24
- FDCSP
- MFAP4
- NTS
- POU2AF1
- TSPAN8
- HTR3A
- TREML2
- IGLC7
- LBP
- IGLL5
- TLR10
- PLCXD3
- NPY5R
- CD1C
- PLD5
- CCR7
- ELN
- CP
- IGHG2
- IGHG4
- KLHL14
- GYLTL1B
- PNOC
- LTB
- STAP1
- MEOX1

Cox regression:
logtest pv=2.2e-02
LHR=-0.47 (CI = -0.89, -0.06)



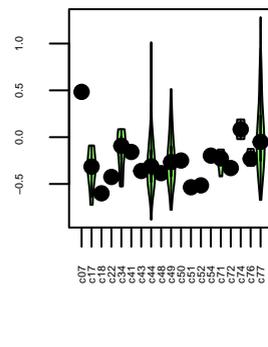
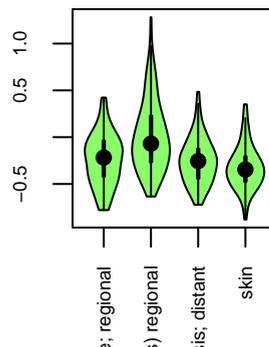
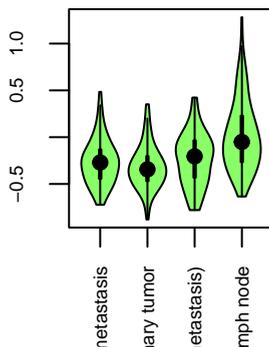
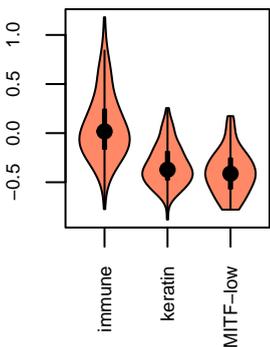
factor	p.value
RNASEQ.CLUSTER_CONSENHIER	4.08e-32
Tumor.tissue.site	3.24e-20
Tumor.location.site	9.26e-20
ICD.10.TopLevel	8.76e-13
Sample.Type	1.94e-09
second.prominent.motif	1.72e-05
Oncotree.Code	4.88e-05
Cancer.Type.Detailed	4.88e-05
Breslow.Depth	9.16e-05
New.tumor.event.after.initial.treatment	4.62e-04

RNASEQ.CLUSTER_CONSENHIER
pv=4.1e-32

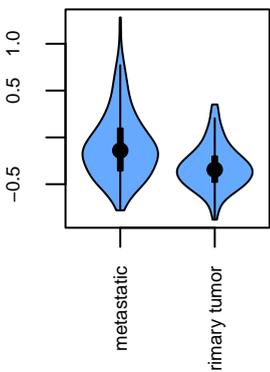
Tumor.tissue.site
pv=3.2e-20

Tumor.location.site
pv=9.3e-20

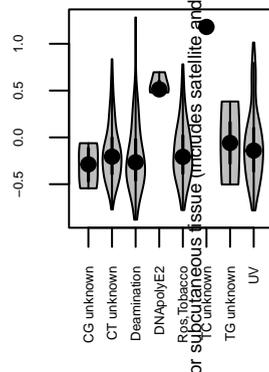
ICD.10.TopLevel
pv=8.8e-13



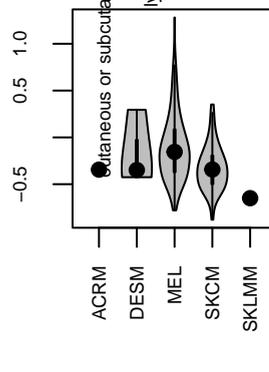
Sample.Type
pv=1.9e-09



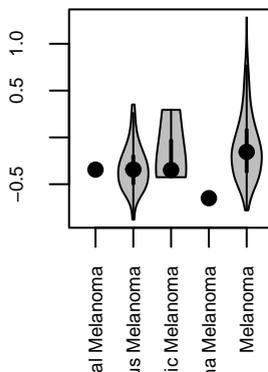
second.prominent.motif
pv=1.7e-05



Oncotree.Code
pv=4.9e-05

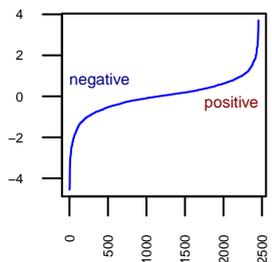


Cancer.Type.Detailed
pv=4.9e-05



Component # 12 (stability = 0.837)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 1 terms(FDR<0.1)

Term
positive regulation of extrinsic apoptot...

FDR
7.35e-02

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 1 terms(FDR<0.1)

Term
collagen type XI trimer

FDR
6.27e-03

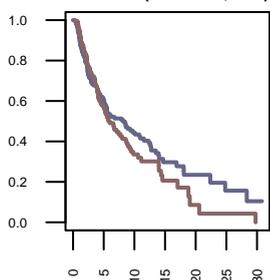
GO:MF neg : 0 terms(FDR<0.1)

GO:MF pos : 0 terms(FDR<0.1)

47 negative **23 positive**

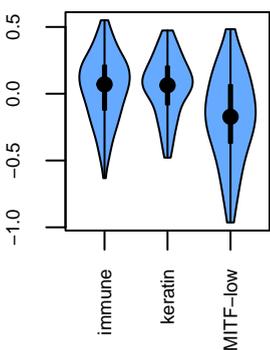
- | | |
|---------|---------|
| HOXB13 | OCA2 |
| RTN4RL1 | FRG2DP |
| TTL6 | COL2A1 |
| LRRTM4 | GRIK2 |
| EYA1 | BMPR1B |
| OLFM3 | IRS4 |
| FREM1 | SUSD5 |
| PKLR | MAL |
| CADPS | SLC6A15 |
| CMTM5 | LPAR3 |
| PRAC2 | TRIM48 |
| VSTM2L | TOX3 |
| BHLHE22 | XAGE2B |
| ETNPPL | OPRD1 |
| KLHL13 | ABCC2 |
| LRRTM1 | SEPT3 |
| ZNF536 | DNAJC6 |
| HOXD13 | IL12RB2 |
| FXYD3 | DPP10 |
| GATA4 | RAMP1 |
| CDH1 | PSG4 |
| HOXA13 | PRUNE2 |
| KCNJ10 | SOX2 |
| CRB1 | |
| HCCAT5 | |
| KLHL14 | |
| TMEM246 | |
| GJB2 | |
| FABP7 | |
| LPPR5 | |
| PMP2 | |
| RAB3C | |
| RIMS2 | |
| MYO5B | |
| NELL1 | |
| HOXB9 | |
| KCNG3 | |
| LHX1 | |
| ASB4 | |
| CHST9 | |
| TEKT5 | |
| HOXC10 | |
| PRIMA1 | |
| RDH12 | |
| LGALS12 | |
| HTR2B | |
| COL25A1 | |

Cox regression:
logtest pv=3.5e-01
LHR=0.25 (CI = -0.27, 0.77)

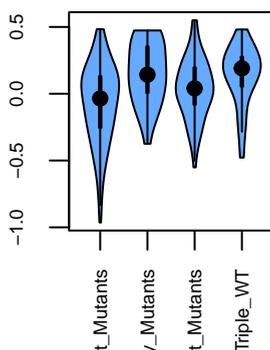


- | factor | p.value |
|-------------------------------------|----------|
| RNASEQ.CLUSTER_CONSENHIER | 1.98e-08 |
| MUTATIONSUBTYPES | 3.18e-07 |
| age_at_initial_pathologic_diagnosis | 6.55e-05 |
| birth_days_to_initial_diagnosis | 6.58e-05 |
| BRAFV600. | 1.26e-04 |
| NF1GainLossFrameshift | 6.52e-04 |
| Year.of.Birth | 1.44e-03 |
| PTEN.stopgain | 1.61e-03 |
| NF1.stopgain | 1.82e-03 |
| TP53.stopgain | 2.28e-03 |

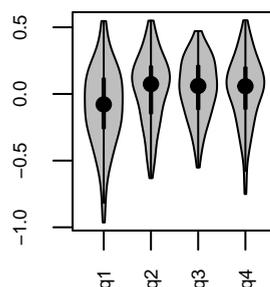
RNASEQ.CLUSTER_CONSENHIER
pv=2.0e-08



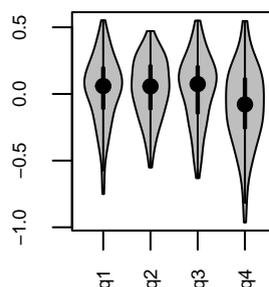
MUTATIONSUBTYPES
pv=3.2e-07



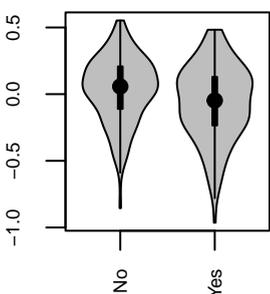
age_at_initial_pathologic_diagnosis
pv=6.5e-05



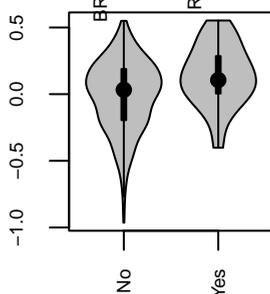
birth_days_to_initial_diagnosis
pv=6.6e-05



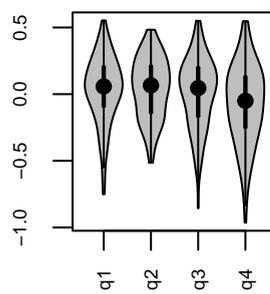
BRAFV600.
pv=1.3e-04



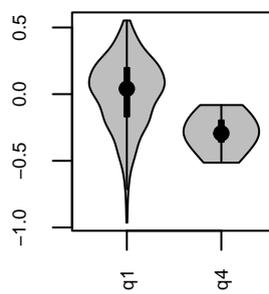
NF1GainLossFrameshift
pv=6.5e-04



Year.of.Birth
pv=1.4e-03

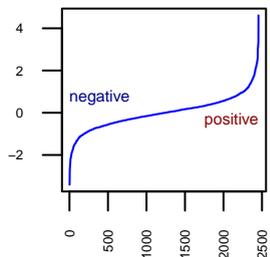


PTEN.stopgain
pv=1.6e-03



Component # 14 (stability = 0.752)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

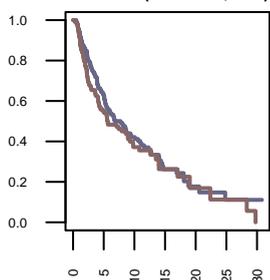
GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

GO:MF pos : 0 terms(FDR<0.1)

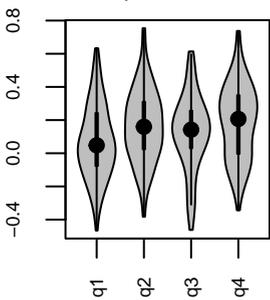
- | | |
|--------------------|--------------------|
| 12 negative | 27 positive |
| HTN1 | MMP8 |
| MRGPRX3 | FXYD3 |
| SOSTDC1 | UCN2 |
| EYA1 | ADCY2 |
| PI15 | KRT27 |
| MLIP | SCUBE2 |
| ABCA8 | ACSBG1 |
| RBM20 | MPZ |
| DSP | CMTM5 |
| MET | HRH2 |
| DSG2 | ST8SIA2 |
| POU3F3 | ANO4 |
| | CHRNA1 |
| | SFRP5 |
| | BRSK2 |
| | TEKT5 |
| | TMEM163 |
| | PLEKHA6 |
| | C2orf70 |
| | NPPC |
| | L1CAM |
| | NGFR |
| | SLC28A3 |
| | AMPH |
| | CAMK2A |
| | FXYD7 |
| | COL20A1 |

Cox regression:
logtest pv=4.1e-01
LHR=0.25 (CI = -0.35, 0.85)

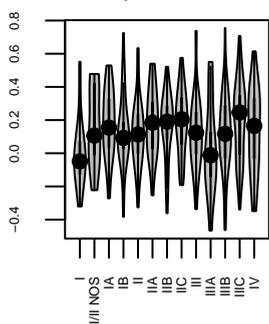


- | factor | p.value |
|--|----------|
| initial_pathologic_dx_year | 1.59e-04 |
| ajcc_pathologic_tumor_stage | 7.12e-03 |
| ICD.10.TopLevel | 9.91e-03 |
| ARID2.stopgain | 1.07e-02 |
| most.prominent.motif | 1.15e-02 |
| Postoperative.Radio.Therapie | 1.22e-02 |
| Adjuvant.Postoperative.Pharmaceutical.Therapy.Administered.Indicator | 1.33e-02 |
| Sample.Type | 1.94e-02 |
| Cancer.Type.Detailed | 2.21e-02 |
| Oncotree.Code | 2.21e-02 |

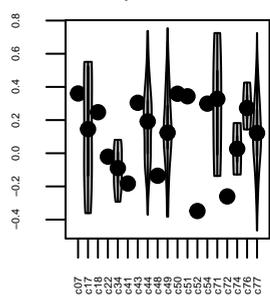
initial_pathologic_dx_year
pv=1.6e-04



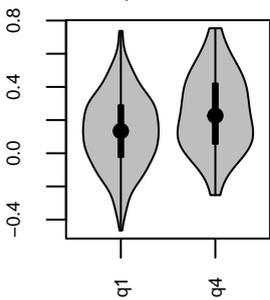
ajcc_pathologic_tumor_stage
pv=7.1e-03



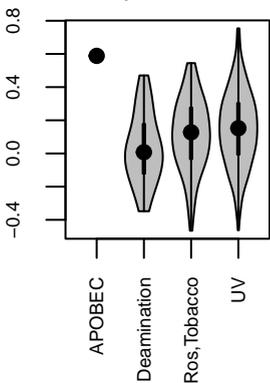
ICD.10.TopLevel
pv=9.9e-03



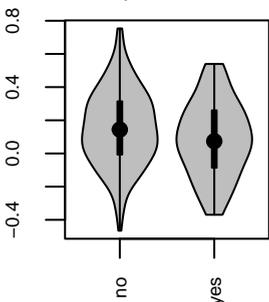
ARID2.stopgain
pv=1.1e-02



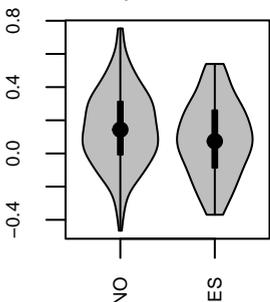
most.prominent.motif
pv=1.2e-02



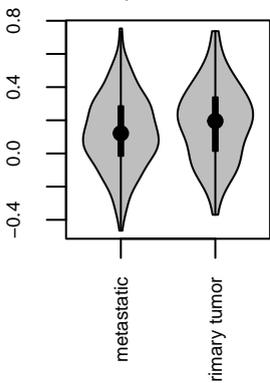
Postoperative.Radio.Therapie
pv=1.2e-02



stoperative.Pharmaceutical.Therapy.Admi
pv=1.3e-02



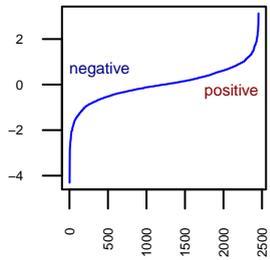
Sample.Type
pv=1.9e-02



Component # 15 (stability = 0.776)

Metagene

(involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

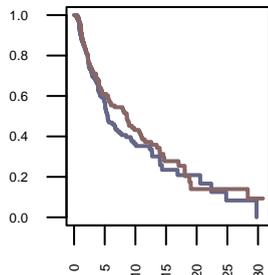
GO:MF pos : 0 terms(FDR<0.1)

18
negative

11
positive

- | | |
|---------|----------|
| LIN28A | RASEF |
| LIN28B | TCN1 |
| TRIM71 | CCNO |
| COL20A1 | ITGB8 |
| IGDCC3 | NRCAM |
| INSC | ST8SIA6 |
| FAM178B | FDCSP |
| HIF3A | TRPM8 |
| RCOR2 | PPP1R14C |
| COL2A1 | FABP7 |
| ATP2B3 | MAOB |
| NEFH | |
| MDF1 | |
| CAMKV | |
| CTCF | |
| MSI1 | |
| COL11A2 | |
| NKAIN4 | |

Cox regression:
logtest pv=1.5e-02
LHR=-0.61 (CI = -1.09, -0.13)



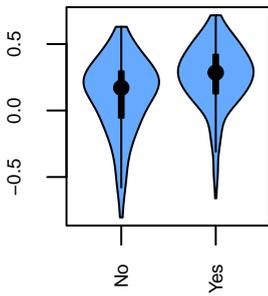
factor

- UV.signature
- most.prominent.motif
- MUTATIONSUBTYPES
- BRAFV600.
- Tumor.location.site
- Tumor.tissue.site
- NRASQ61.
- Days.to.second.new.tumor.event.after.initial.treatment
- Sample.Type
- fourth.prominent.motiv

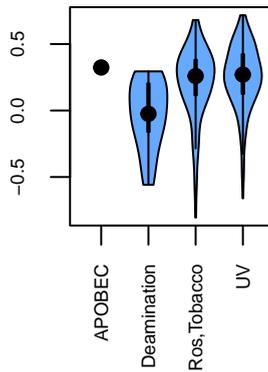
p.value

- 1.44e-06
- 7.64e-06
- 2.17e-05
- 3.64e-05
- 1.93e-04
- 3.14e-04
- 5.12e-04
- 8.65e-04
- 1.27e-03
- 4.31e-03

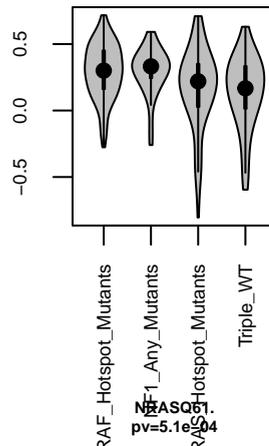
UV.signature
pv=1.4e-06



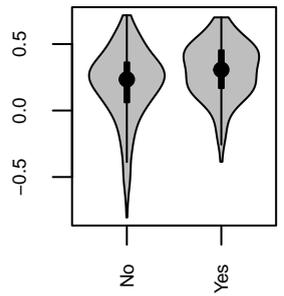
most.prominent.motif
pv=7.6e-06



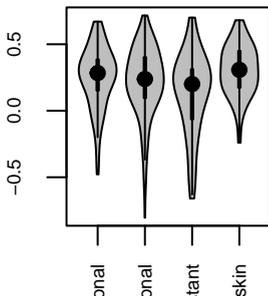
MUTATIONSUBTYPES
pv=2.2e-05



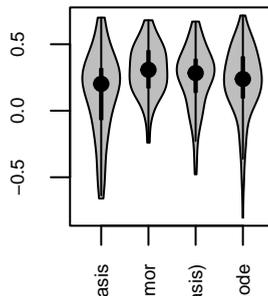
BRAFV600.
pv=3.6e-05



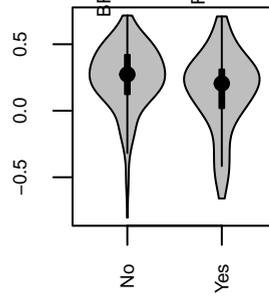
Tumor.location.site
pv=1.9e-04



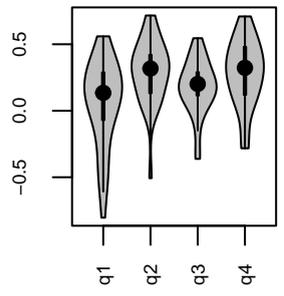
Tumor.tissue.site
pv=3.1e-04



Days.to.second.new.tumor.event.after.initial.treatment
pv=5.1e-04

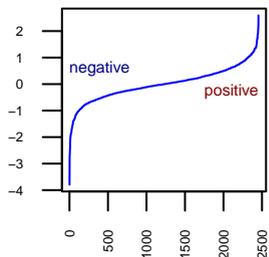


Sample.Type
pv=8.6e-04



Component # 16 (stability = 0.686)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

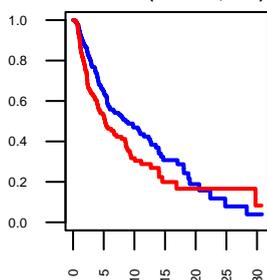
GO:MF pos : 1 terms(FDR<0.1)

Term miRNA binding FDR 4.11e-03

17 negative 9 positive

- HHATL
- SHISA2
- UGT2B7
- CRABP1
- DNAH9
- LINGO2
- MAT1A
- DKK1
- CRYAB
- NDST3
- AGT
- CBLN2
- HOGA1
- TMEFF2
- TF
- COL20A1
- TRPM8
- CNTN4
- CAMK2A
- COBL
- CHI3L2
- ENTHD1
- IP6K3
- MAG
- PPARGC1A
- CDH15

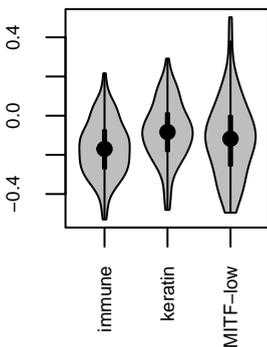
Cox regression:
logtest pv=3.1e-03
LHR=1.19 (CI = 0.41, 1.97)



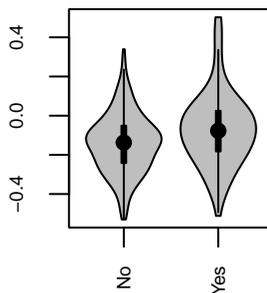
- factor
- RNASEQ.CLUSTER_CONSENHIER
 - NRASQ61.
 - Primary.Neoplasm.Melanome.Diagnosis
 - ICD.10.TopLevel
 - birth_days_to_initial_diagnosis
 - age_at_initial_pathologic_diagnosis
 - ARID1A.splice.donor
 - Oncotree.Code
 - Cancer.Type.Detailed
 - MUTATIONSUBTYPES

- p.value
- 9.84e-05
 - 1.06e-04
 - 2.42e-03
 - 3.61e-03
 - 3.62e-03
 - 3.92e-03
 - 4.60e-03
 - 9.61e-03
 - 9.61e-03
 - 1.39e-02

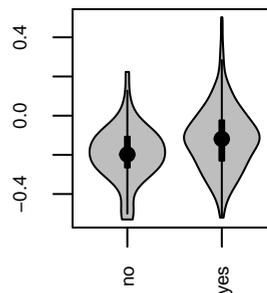
RNASEQ.CLUSTER_CONSENHIER
pv=9.8e-05



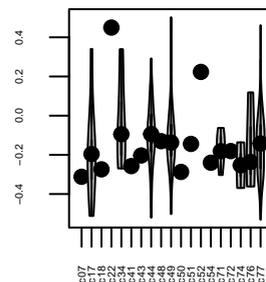
NRASQ61.
pv=1.1e-04



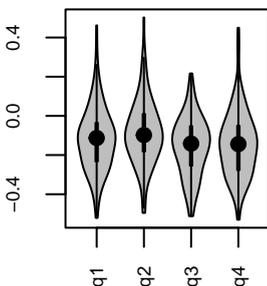
Primary.Neoplasm.Melanome.Diagnosis
pv=2.4e-03



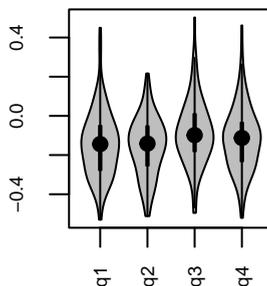
ICD.10.TopLevel
pv=3.6e-03



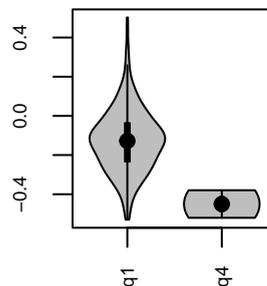
birth_days_to_initial_diagnosis
pv=3.6e-03



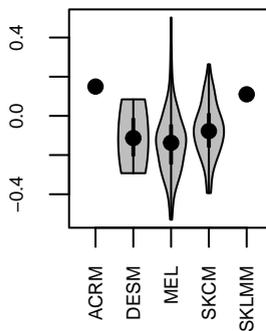
age_at_initial_pathologic_diagnosis
pv=3.9e-03



ARID1A.splice.donor
pv=4.6e-03

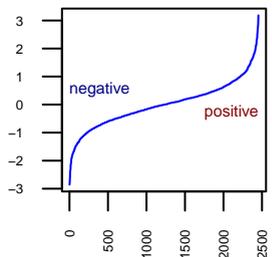


Oncotree.Code
pv=9.6e-03



Component # 17 (stability = 0.816)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

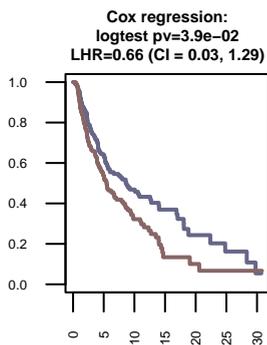
GO:MF pos : 1 terms(FDR<0.1)

Term
olfactory receptor activity

FDR
3.28e-02

5 negative 12 positive

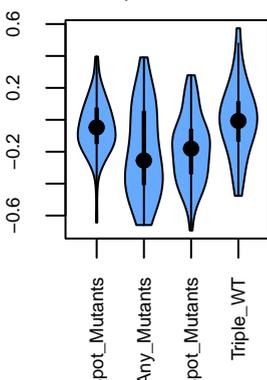
- DMRTA1
- HMG2
- MME
- WDR17
- HHATL
- ARX
- PKHD1
- OCA2
- GABRG3
- BMP7
- HOXB13
- LRP2
- GFRA3
- KIT
- OR7C1
- SOX1
- CDK15



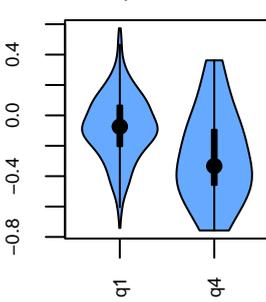
- factor
- MUTATIONSUBTYPES
 - ARID2.stopgain
 - NRASQ61.
 - Prospective.Tissue.Collection
 - Retropective.Tissue.Collection
 - UV.signature
 - TP53.stopgain
 - Sample.country
 - RNASEQ.CLUSTER_CONSENHIER
 - last_contact_days_to

- p.value
- 6.46e-09
 - 5.47e-06
 - 8.28e-06
 - 1.03e-05
 - 1.03e-05
 - 1.97e-05
 - 4.59e-05
 - 1.41e-04
 - 2.23e-04
 - 5.99e-04

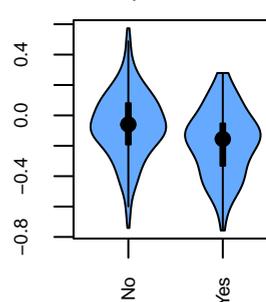
MUTATIONSUBTYPES
pv=6.5e-09



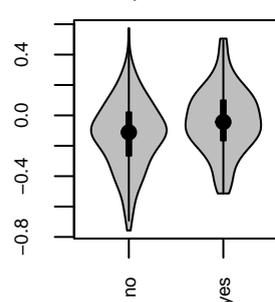
ARID2.stopgain
pv=5.5e-06



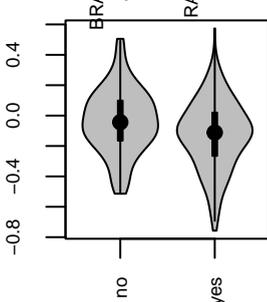
NRASQ61.
pv=8.3e-06



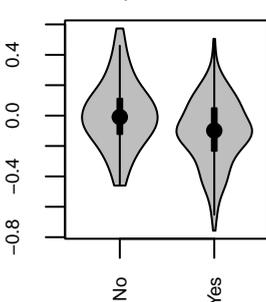
Prospective.Tissue.Collection
pv=1.0e-05



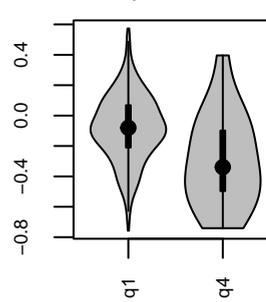
Retropective.Tissue.Collection
pv=1.0e-05



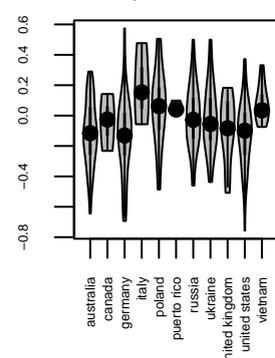
UV.signature
pv=2.0e-05



TP53.stopgain
pv=4.6e-05

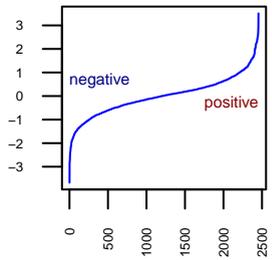


Sample.country
pv=1.4e-04



Component # 18 (stability = 0.822)

Metagene (involvement of features)



GO:BP neg : 0 terms(FDR<0.1)

GO:BP pos : 0 terms(FDR<0.1)

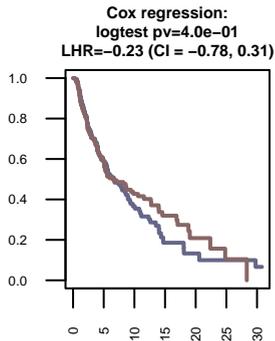
GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

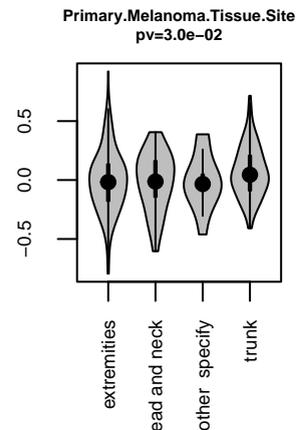
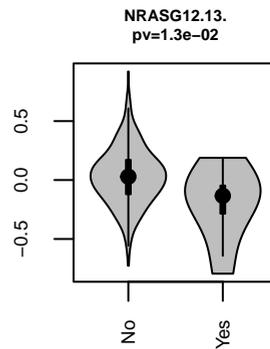
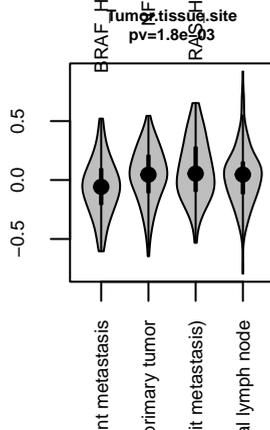
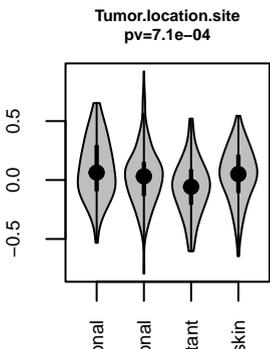
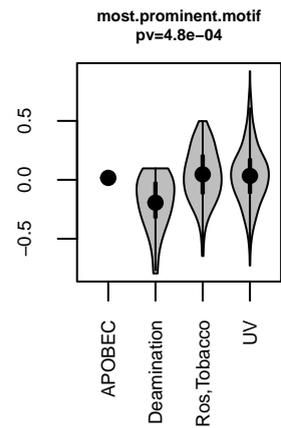
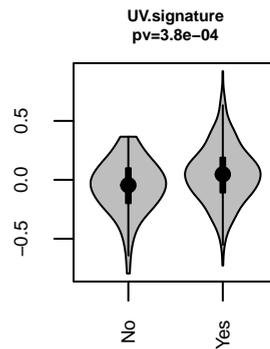
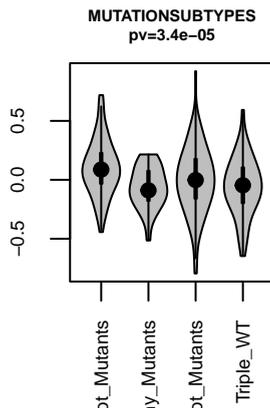
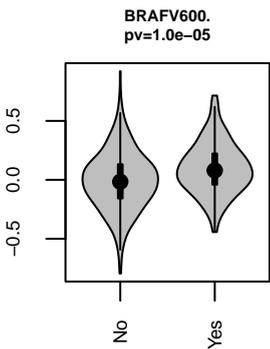
GO:MF pos : 0 terms(FDR<0.1)

- 5 negative**
- ILDR2
- BEX1
- ENPP5
- RIMS4
- MAGEA4
- 4 positive**
- CXCL5
- MMP1
- SERPINB2
- TRIM48



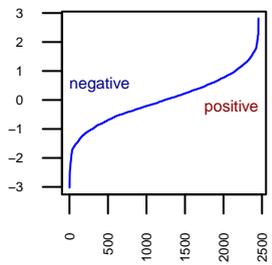
- factor**
- BRAFV600. 1.04e-05
- MUTATIONSUBTYPES 3.39e-05
- UV.signature 3.85e-04
- most.prominent.motif 4.82e-04
- Tumor.location.site 7.07e-04
- Tumor.tissue.site 1.80e-03
- NRASG12.13. 1.29e-02
- Primary.Melanoma.Tissue.Site 2.96e-02
- TP53.stopgain 3.31e-02
- BMI 3.51e-02

- p.value**
- 1.04e-05
- 3.39e-05
- 3.85e-04
- 4.82e-04
- 7.07e-04
- 1.80e-03
- 1.29e-02
- 2.96e-02
- 3.31e-02
- 3.51e-02



Component # 19 (stability = 0.864)

Metagene (involvement of features)



0 negative 0 positive

GO:BP neg : 0 terms(FDR<0.1)

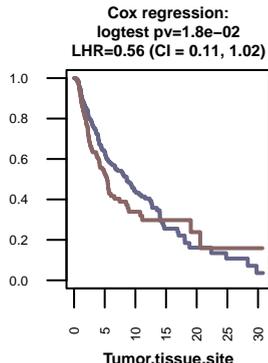
GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

GO:MF pos : 0 terms(FDR<0.1)

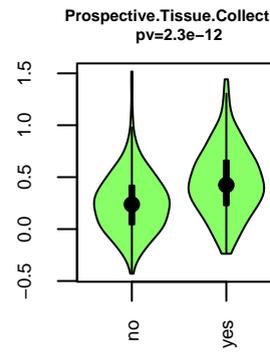
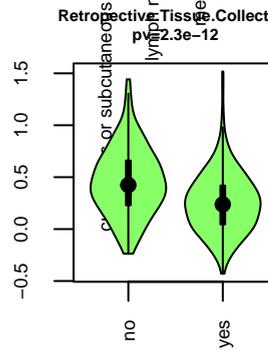
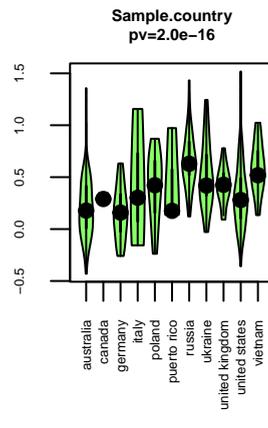
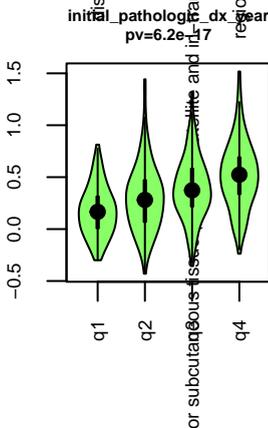
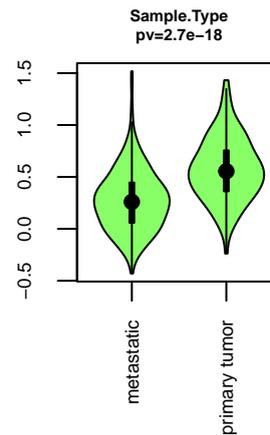
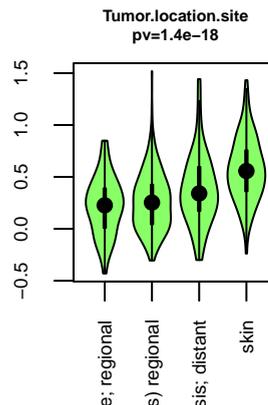
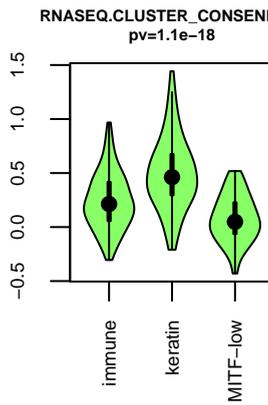
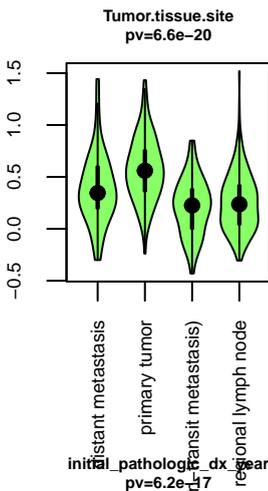


factor

- Tumor.tissue.site
- RNASEQ.CLUSTER_CONSENHIER
- Tumor.location.site
- Sample.Type
- initial_pathologic_dx_year
- Sample.country
- Retropective.Tissue.Collection
- Prospective.Tissue.Collection
- last_contact_days_to
- Cancer.Type.Detailed

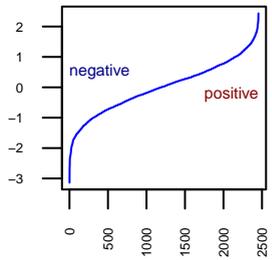
p.value

- 6.58e-20
- 1.14e-18
- 1.38e-18
- 2.68e-18
- 6.19e-17
- 1.96e-16
- 2.28e-12
- 2.28e-12
- 4.38e-11
- 1.91e-10



Component # 20 (stability = 0.903)

Metagene (involvement of features)



0 negative 0 positive

GO:BP neg : 0 terms(FDR<0.1)

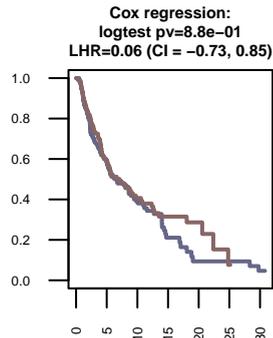
GO:BP pos : 0 terms(FDR<0.1)

GO:CC neg : 0 terms(FDR<0.1)

GO:CC pos : 0 terms(FDR<0.1)

GO:MF neg : 0 terms(FDR<0.1)

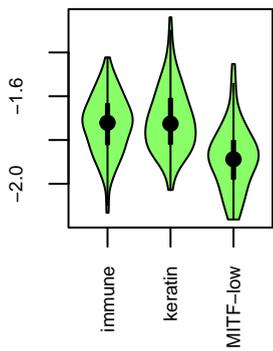
GO:MF pos : 0 terms(FDR<0.1)



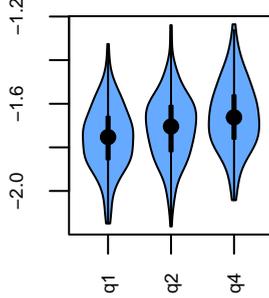
factor
RNASEQ.CLUSTER_CONSENHIER
Year.Form.Completion
most.prominent.motif
second.prominent.motif
BRAFV600.
third.prominent.montif
initial_pathologic_dx_year
birth_days_to_initial_diagnosis
age_at_initial_pathologic_diagnosis
fifth.prominent.motif

p.value
1.26e-13
3.01e-07
1.07e-04
1.62e-04
1.16e-03
1.17e-03
4.15e-03
5.90e-03
7.10e-03
1.17e-02

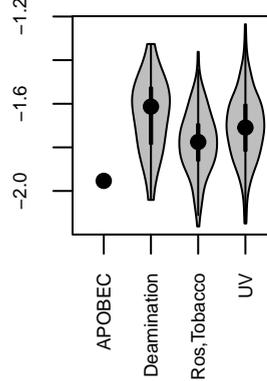
RNASEQ.CLUSTER_CONSENHIER
pv=1.3e-13



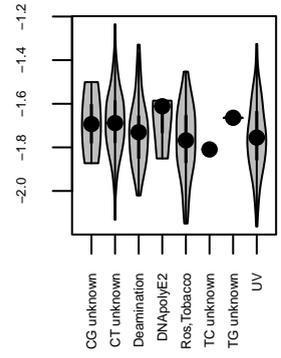
Year.Form.Completion
pv=3.0e-07



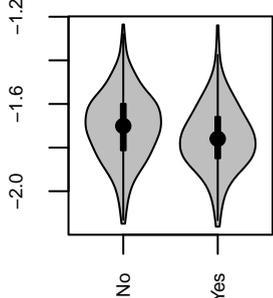
most.prominent.motif
pv=1.1e-04



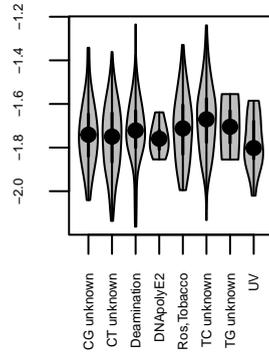
second.prominent.motif
pv=1.6e-04



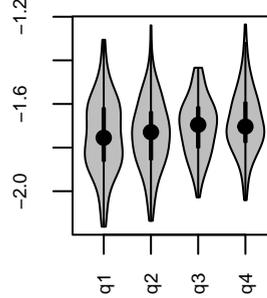
BRAFV600.
pv=1.2e-03



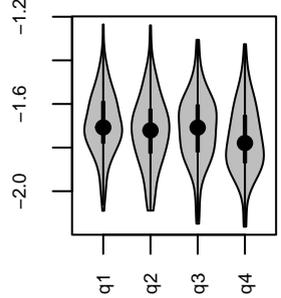
third.prominent.montif
pv=1.2e-03



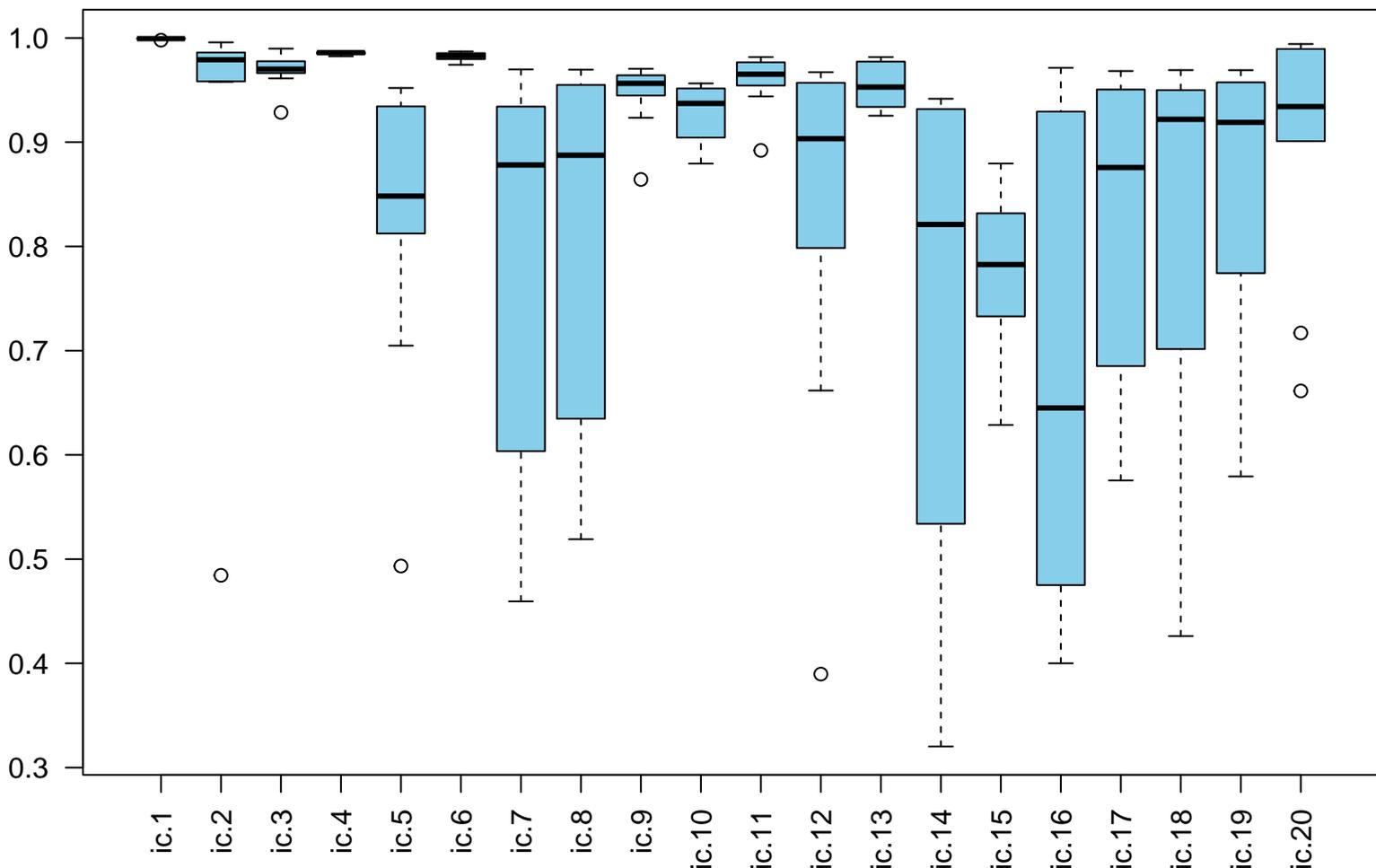
initial_pathologic_dx_year
pv=4.2e-03



birth_days_to_initial_diagnosis
pv=5.9e-03



Stability (10 runs)



**Distribution of mean R2
among rows of M-matrix**

