AEBP2 (non-ER binding) AKT1 (ER binding) [<=60] p = 0.2458No detectable trend: [<=60] p = 0.6599No detectable trend: 16 16 [>60] p = 0.011364 [>60] p = 0.76996 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.034683[All] p = 0.288014 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **AKT2 (non-ER binding)** AKT3 (non-ER binding) [<=60] p = 0.98925No detectable trend: [<=60] p = 0.41989No detectable trend: 16 16 [>60] p = 0.60709 [>60] p = 0.69641 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.81455[All] p = 0.257634 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞

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Age at diagnosis

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Age at diagnosis

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APC (non-ER binding) AR (ER binding) [<=60] p = 0.72482No detectable trend: [<=60] p = 0.77288No detectable trend: 16 16 [>60] p = 0.0094686 [>60] p = 0.75389|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.99078[All] p = 0.298994 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis ARID1A (non-ER binding) **ARID1B (ER binding)** [<=60] p = 0.50255No detectable trend: [<=60] p = 0.22415No detectable trend: 16 16 [>60] p = 0.078489 [>60] p = 0.76567|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.86461[All] p = 0.417874 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9

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Age at diagnosis

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Age at diagnosis

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ARNT (ER binding) ASH2L (non-ER binding) [<=60] p = 0.67496No detectable trend: [<=60] p = 0.43151No detectable trend: 16 16 [>60] p = 0.28836 [>60] p = 0.27587 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.46379[All] p = 0.256764 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **ASXL1** (non-ER binding) ASXL2 (non-ER binding) [<=60] p = 0.63057No detectable trend: [<=60] p = 0.65744No detectable trend: 16 16 [>60] p = 0.23419 [>60] p = 0.01905 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.5548[All] p = 0.483284 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞ 9 9

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Age at diagnosis

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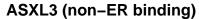
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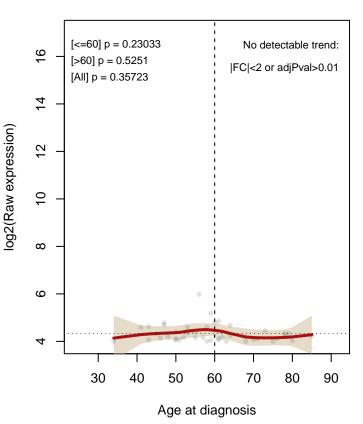
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Age at diagnosis

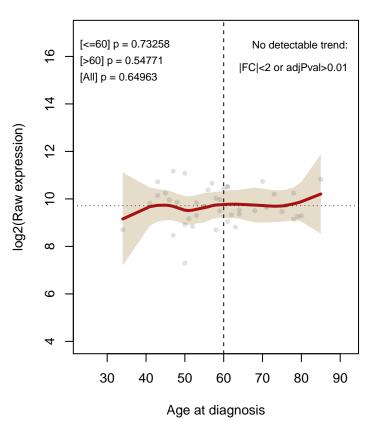
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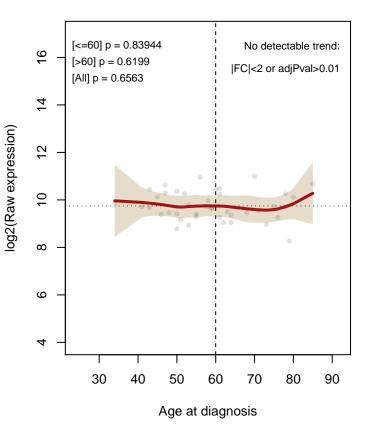




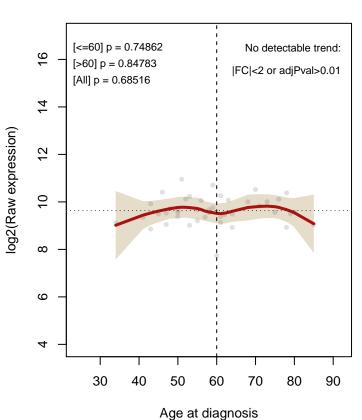
ATM (non-ER binding)



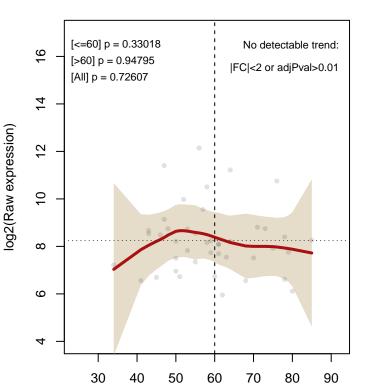
ATR (non-ER binding)



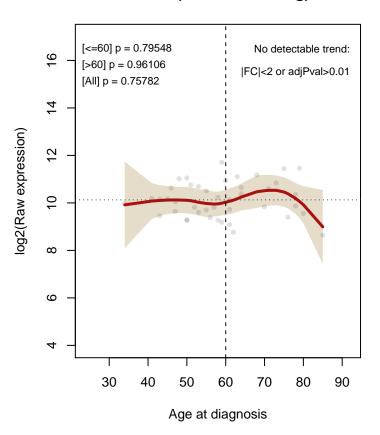
AXIN1 (ER binding)





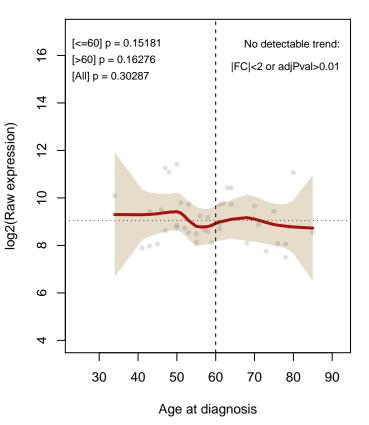


BCL3 (non-ER binding)

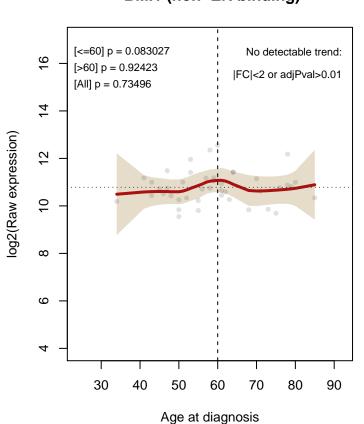


BIRC5 (non-ER binding)

Age at diagnosis

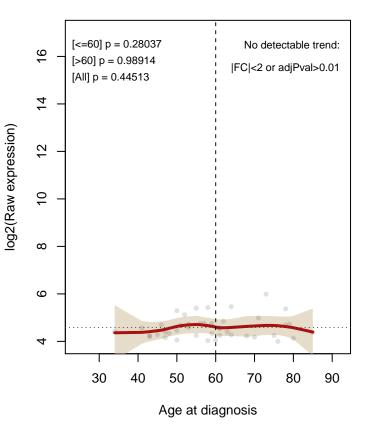


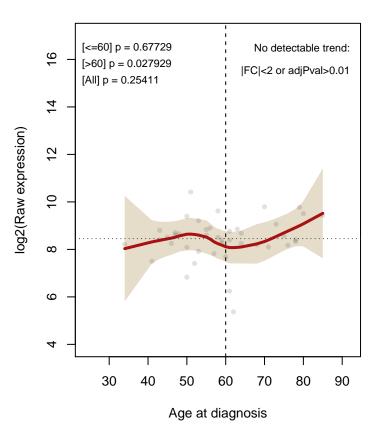
BMI1 (non-ER binding)





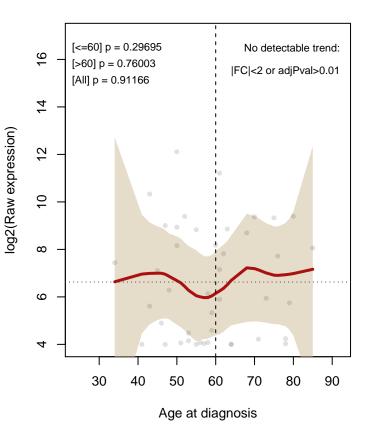
BRCA1 (non-ER binding)

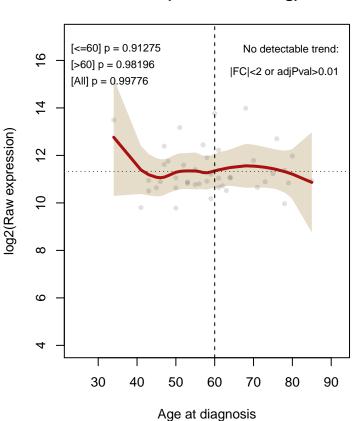


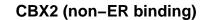


CA9 (non-ER binding)

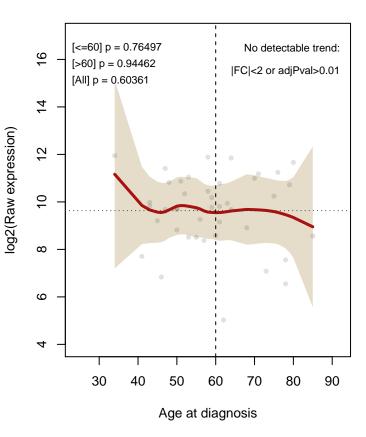
CBX1 (non-ER binding)

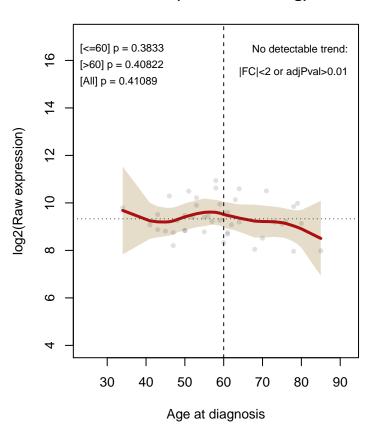






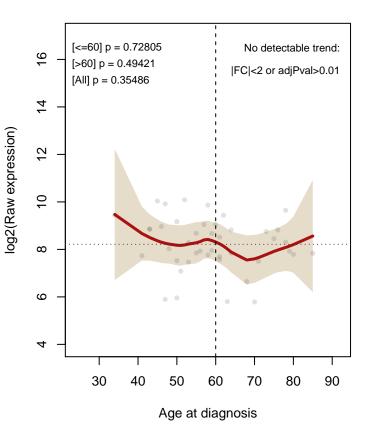
CBX4 (non-ER binding)

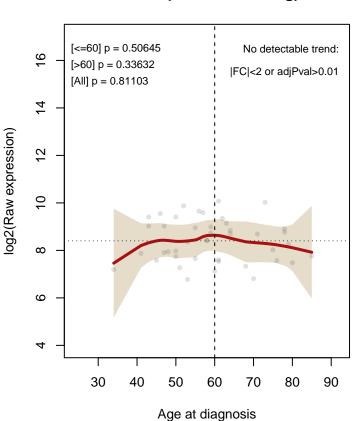




CBX6 (non-ER binding)

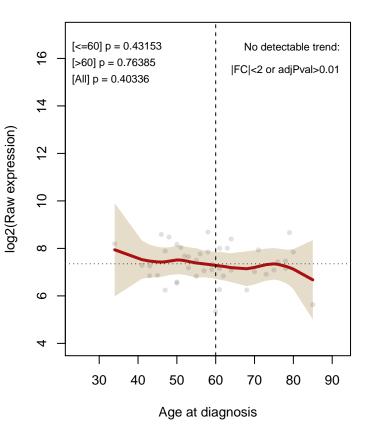
CBX7 (non-ER binding)

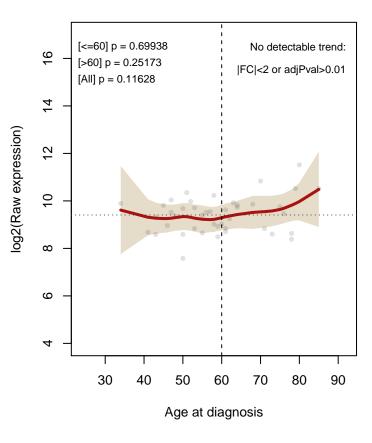




CBX8 (non-ER binding)

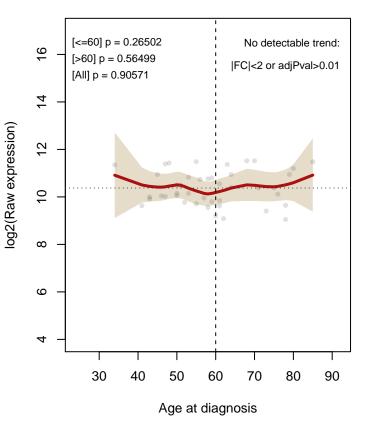
CCNA2 (non-ER binding)

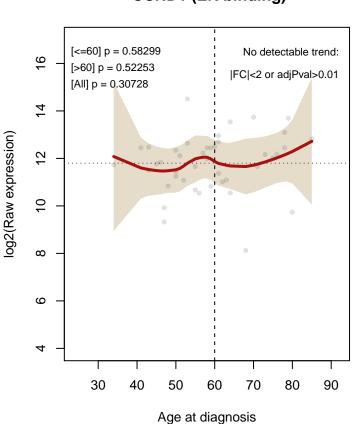




CCNB1 (non-ER binding)

CCND1 (ER binding)





CCNE1 (non-ER binding)

[<=60] p = 0.55365

[>60] p = 0.12297

[All] p = 0.58661

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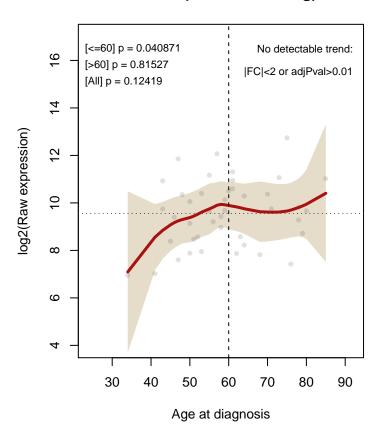
9

log2(Raw expression)

No detectable trend:

|FC|<2 or adjPval>0.01

CD163 (non-ER binding)



CD44 (non-ER binding)

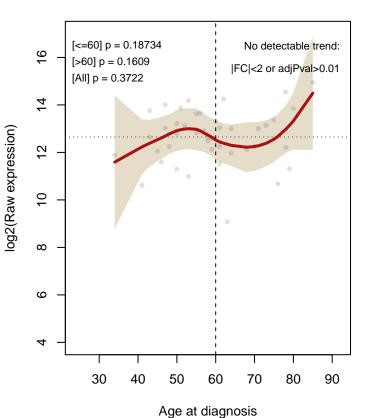
Age at diagnosis

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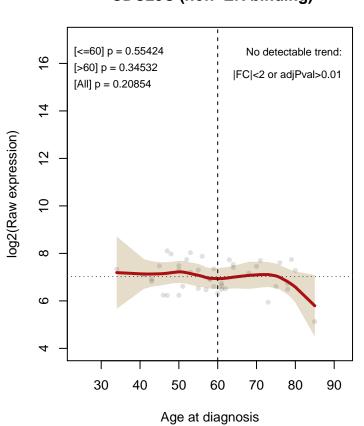
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CDC25C (non-ER binding)



CDH1 (non-ER binding) CDH3 (ER binding) [<=60] p = 0.18408No detectable trend: [<=60] p = 0.37332No detectable trend: 16 16 [>60] p = 0.19701[>60] p = 0.74285 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.45675[All] p = 0.45834 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CDK1 (non-ER binding) CDK2 (non-ER binding) [<=60] p = 0.64682No detectable trend: [<=60] p = 0.44No detectable trend: 16 16 [>60] p = 0.23978 [>60] p = 0.85158 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.72752[All] p = 0.412384 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ∞

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Age at diagnosis

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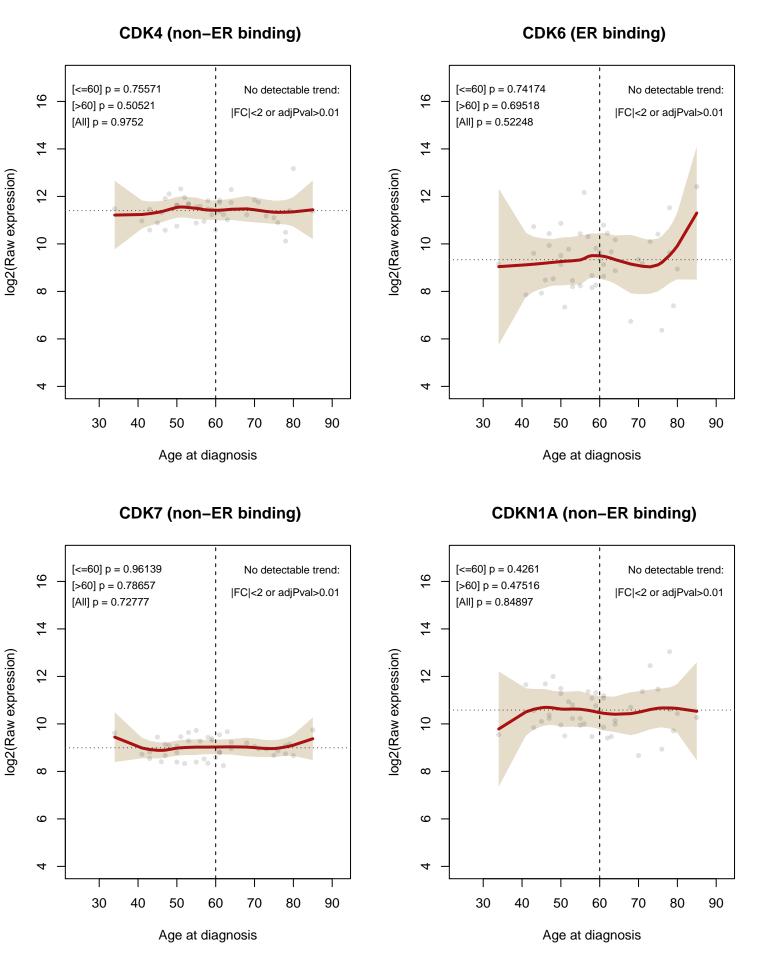
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Age at diagnosis

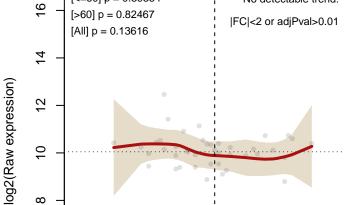
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CDKN1B (non-ER binding)

[<=60] p = 0.39354No detectable trend:



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Age at diagnosis

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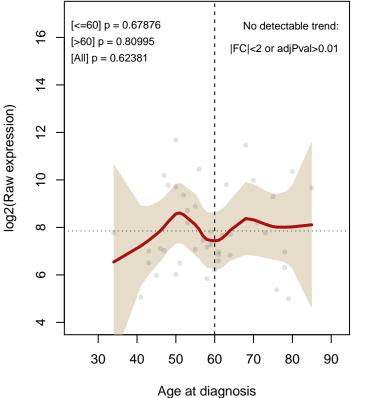
CDKN2A (non-ER binding)

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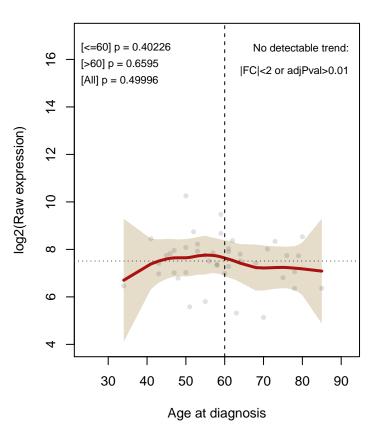
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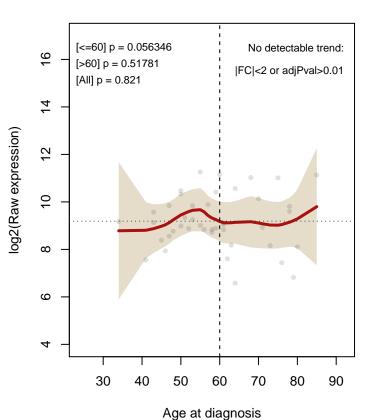
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CDKN1C (non-ER binding)

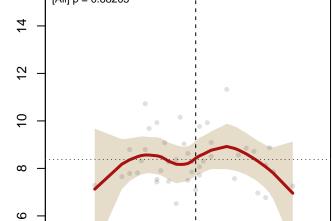


CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

[<=60] p = 0.97496No detectable trend: 16 [>60] p = 0.078976 |FC|<2 or adjPval>0.01 [All] p = 0.68205



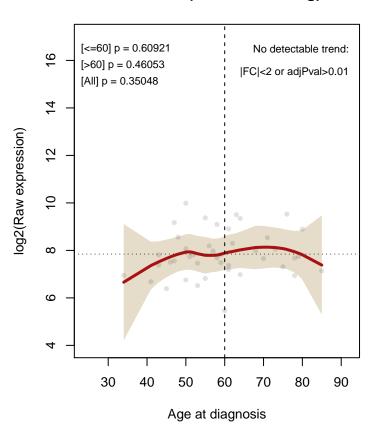
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log2(Raw expression)

CDKN2D (non-ER binding)



CHUK (non-ER binding)

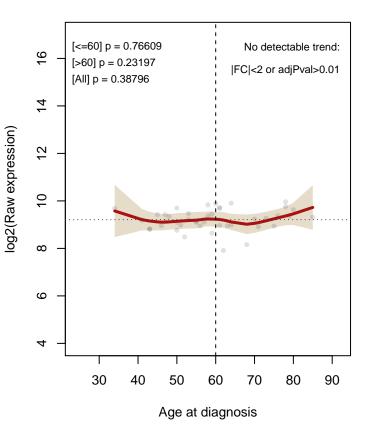
Age at diagnosis

60

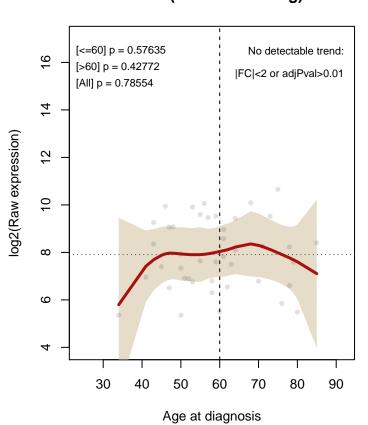
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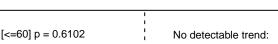
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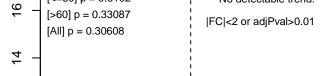


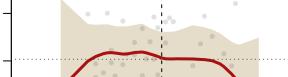
CIITA (non-ER binding)



CLDN3 (non-ER binding)





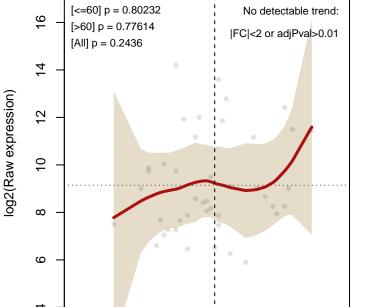


log2(Raw expression)

 ∞

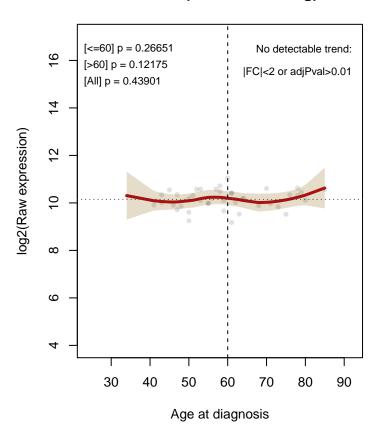
CRYAB (non-ER binding)

Age at diagnosis

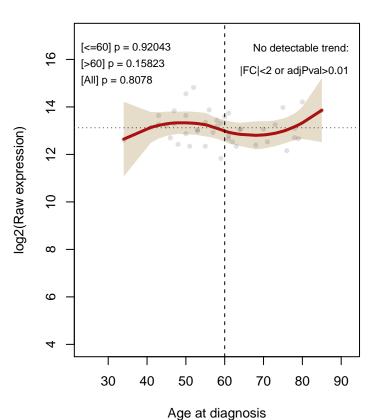


Age at diagnosis

CREB1 (non-ER binding)

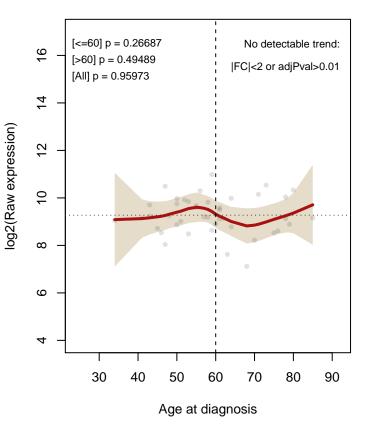


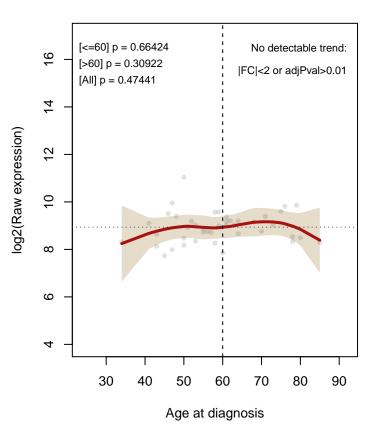
CTNNB1 (non-ER binding)





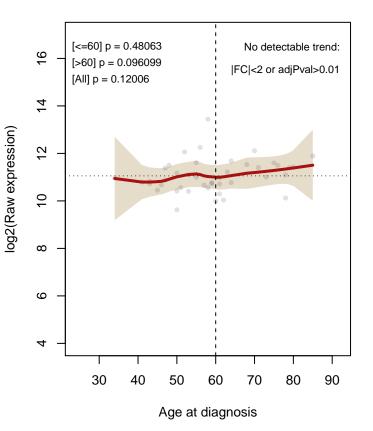
DMAP1 (non-ER binding)

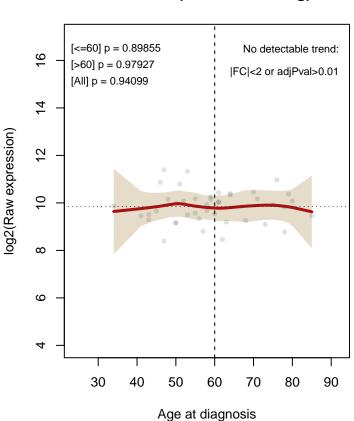




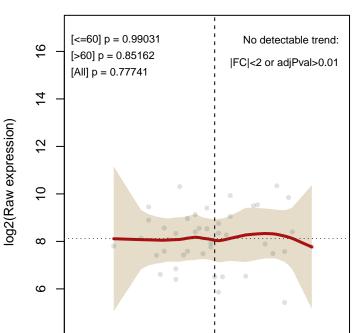
DNMT1 (non-ER binding)

DNMT3A (non-ER binding)

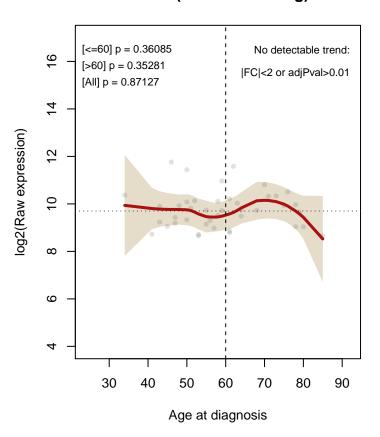






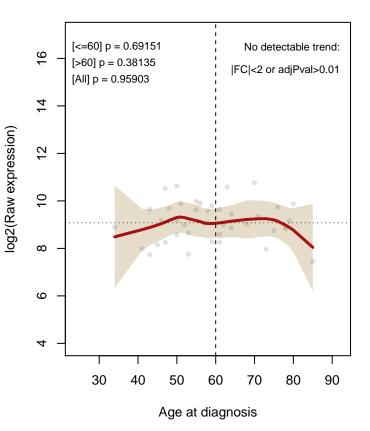


DVL1 (non-ER binding)

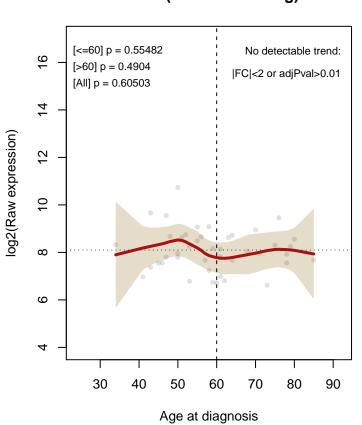


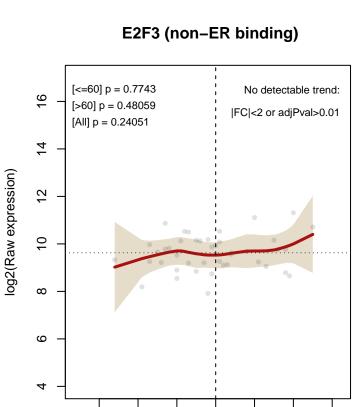
E2F1 (non-ER binding)

Age at diagnosis

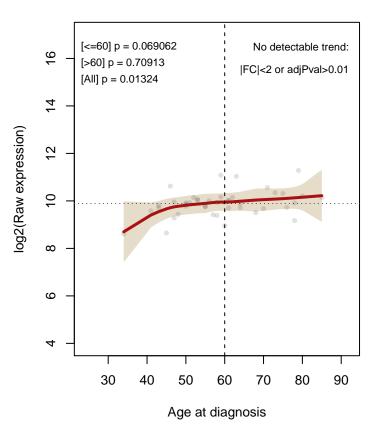


E2F2 (non-ER binding)



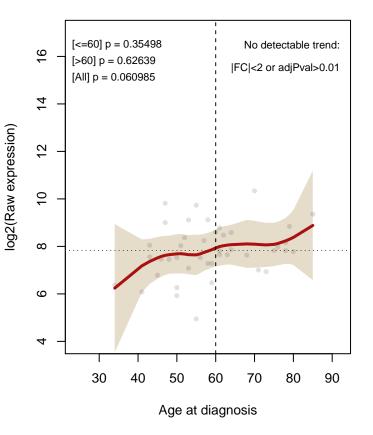


E2F4 (non-ER binding)

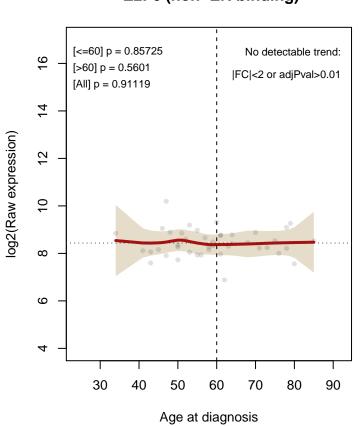


E2F5 (non-ER binding)

Age at diagnosis

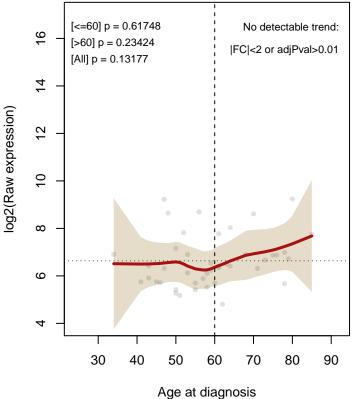


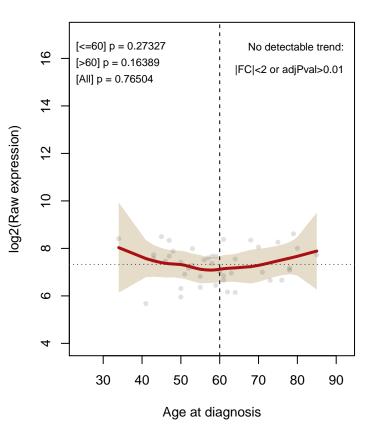
E2F6 (non-ER binding)





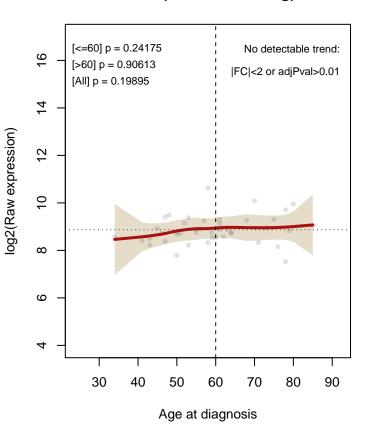
E2F8 (non-ER binding)

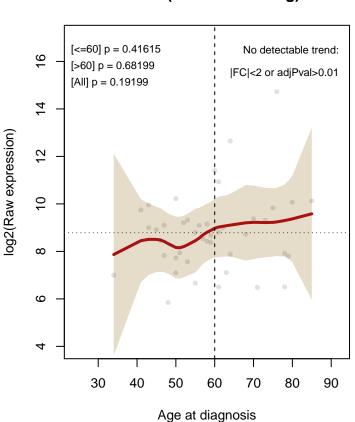


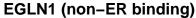


EED (non-ER binding)

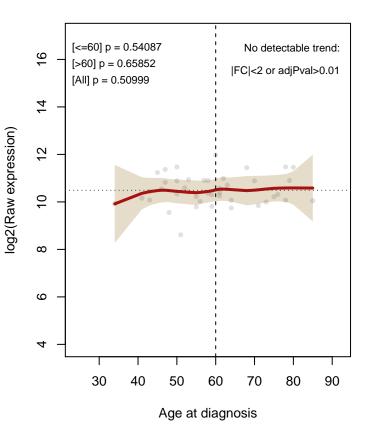
EGFR (non-ER binding)

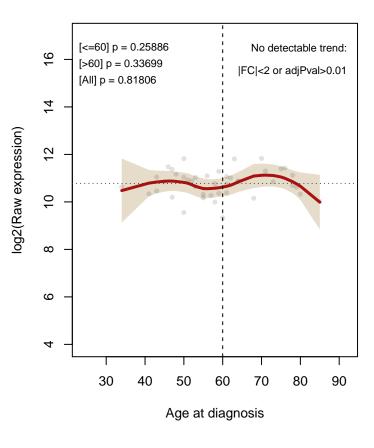






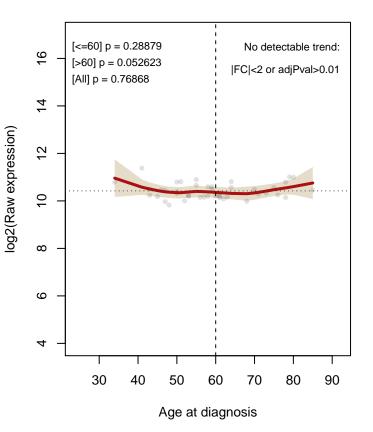
ing) EHMT2 (non–ER binding)

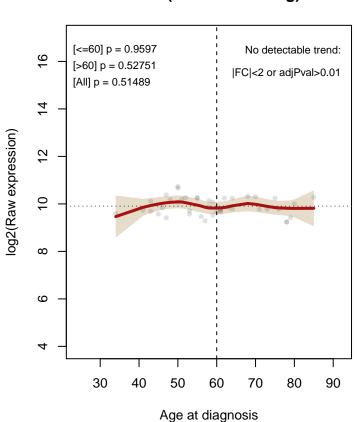


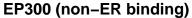


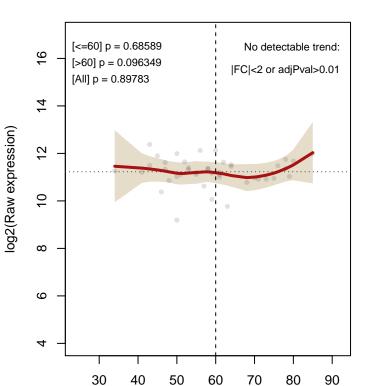
ELAC2 (non-ER binding)

ELK1 (non-ER binding)

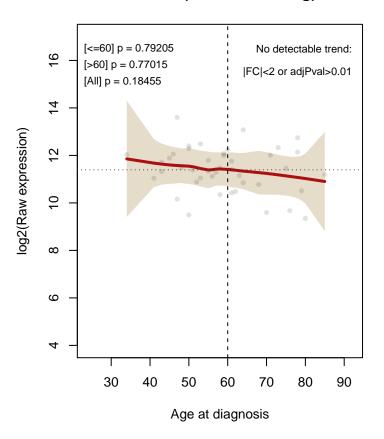






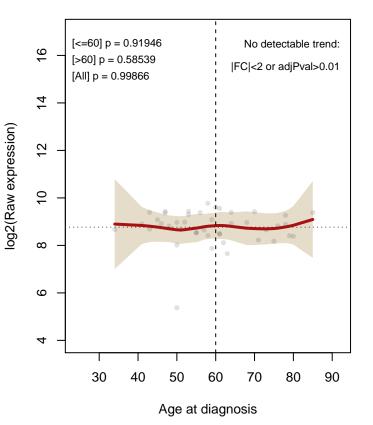


EPAS1 (non-ER binding)

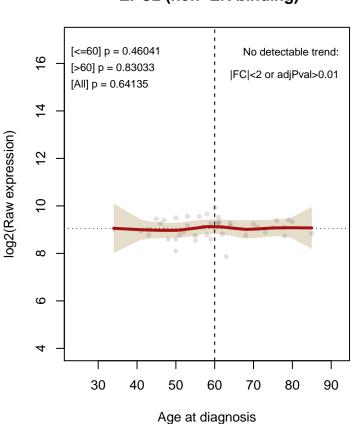


EPC1 (non-ER binding)

Age at diagnosis

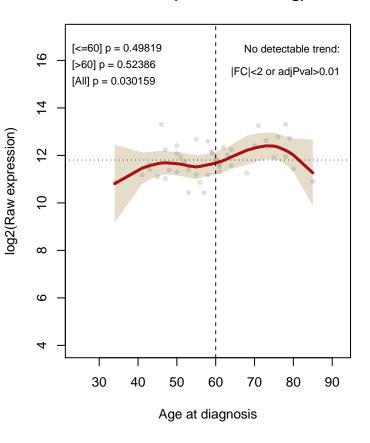


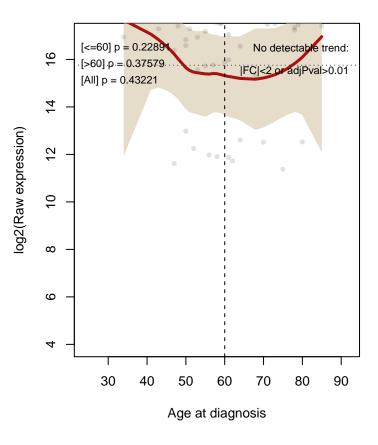
EPC2 (non-ER binding)



EPHB4 (non-ER binding)

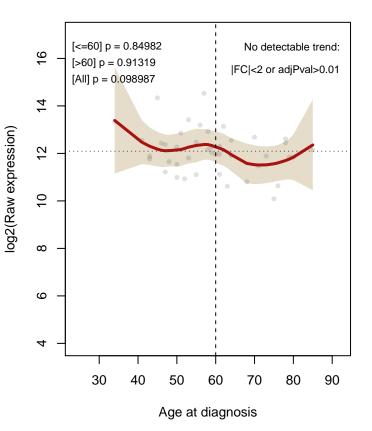
ERBB2 (non-ER binding)

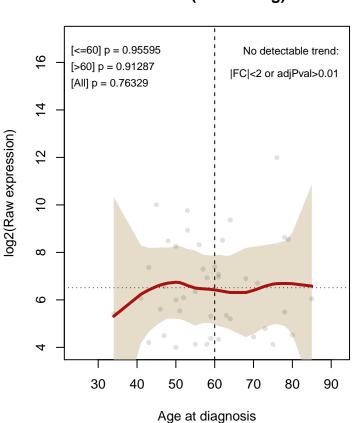


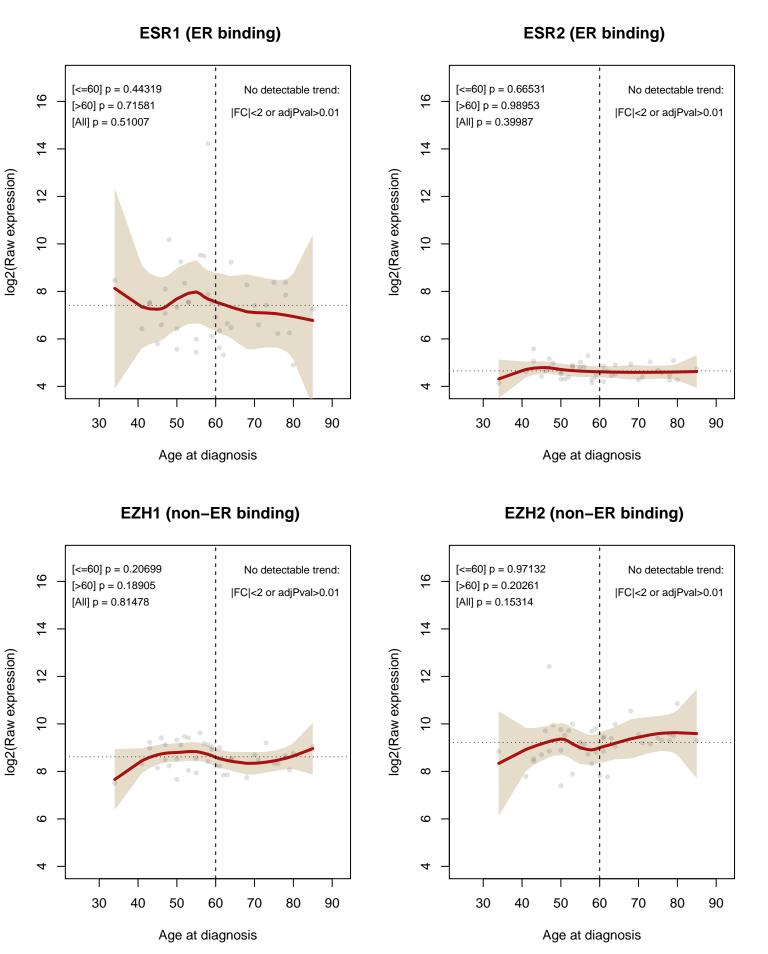


ERBB3 (non-ER binding)

ERBB4 (ER binding)



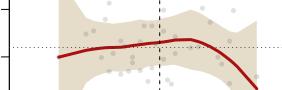


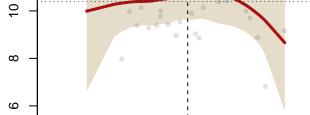




[<=60] p = 0.32355No detectable trend:





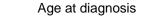


log2(Raw expression)

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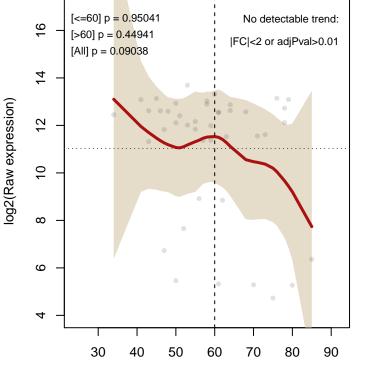
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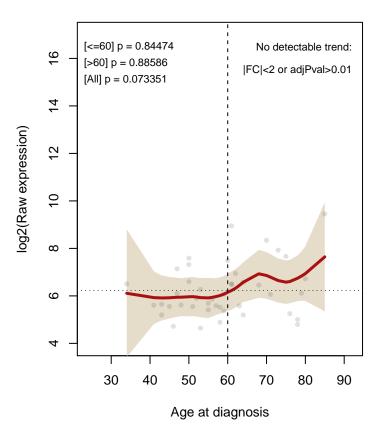
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FOXA1 (ER binding)

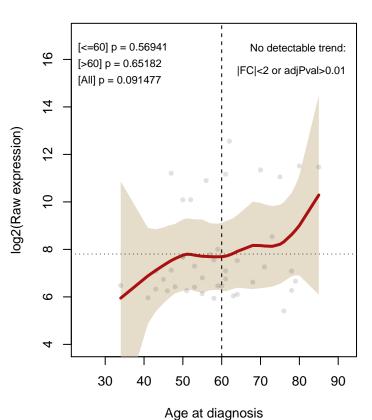


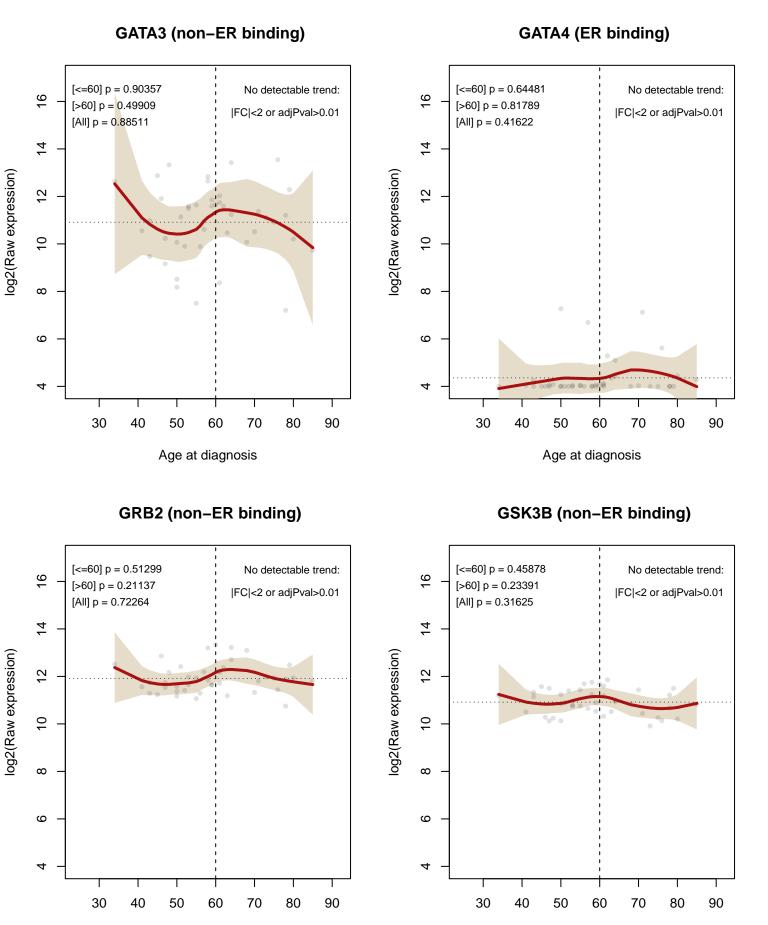
Age at diagnosis

FOSL1 (non-ER binding)



FOXC1 (ER binding)



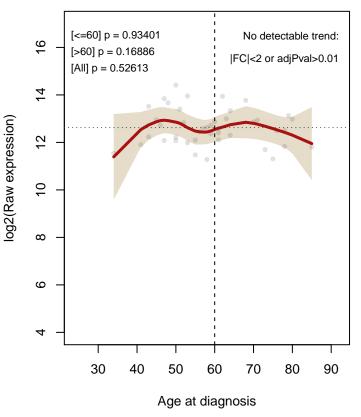


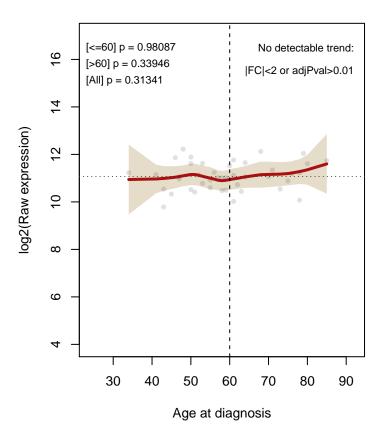
Age at diagnosis

Age at diagnosis



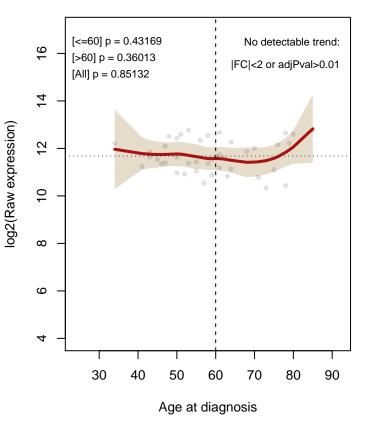
HDAC1 (ER binding)

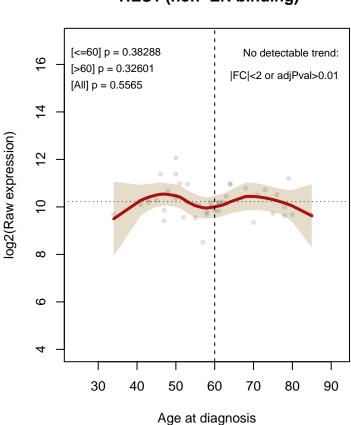




HDAC2 (non-ER binding)

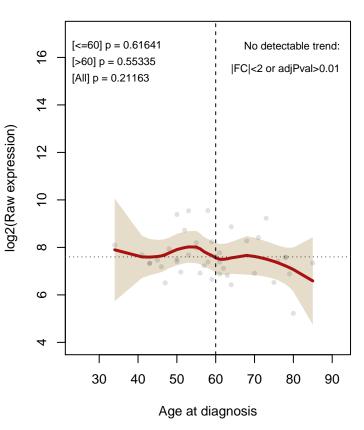
HES1 (non-ER binding)

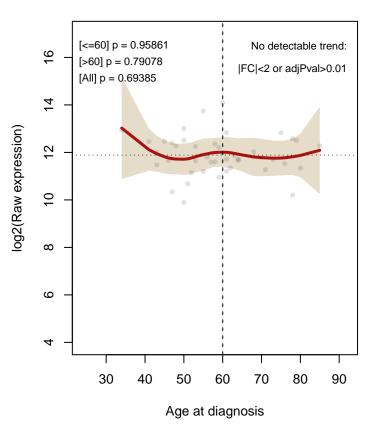




HEY1 (non-ER binding)

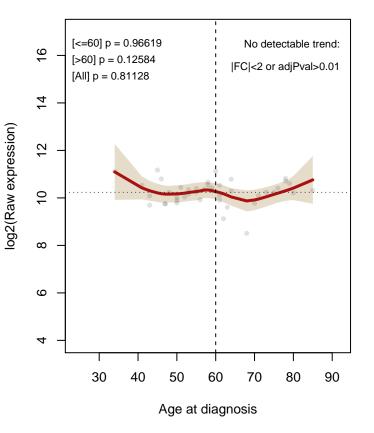
R binding) HIF1A (non-ER binding)

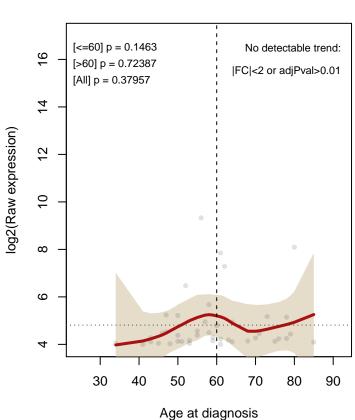




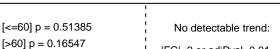
HIF1AN (non-ER binding)

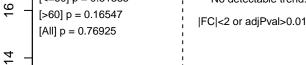
HIF3A (non-ER binding)





HNF1A (non-ER binding)







log2(Raw expression)

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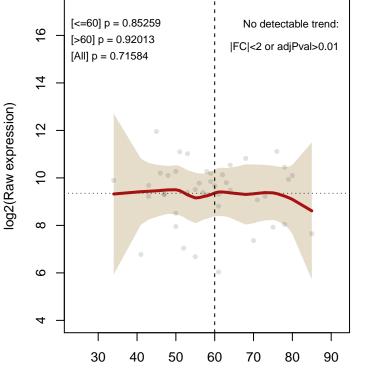
9



30 40 50 60 70 80 90

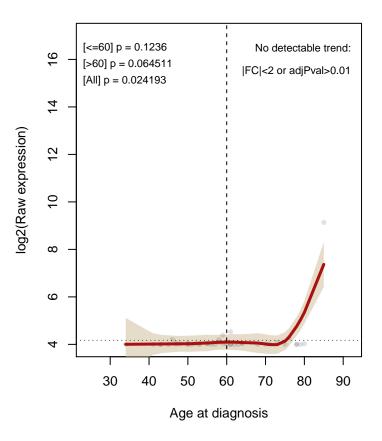
Age at diagnosis

HOXC10 (non-ER binding)

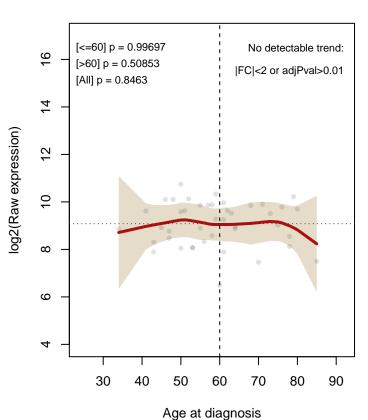


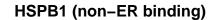
Age at diagnosis

HNF1B (non-ER binding)

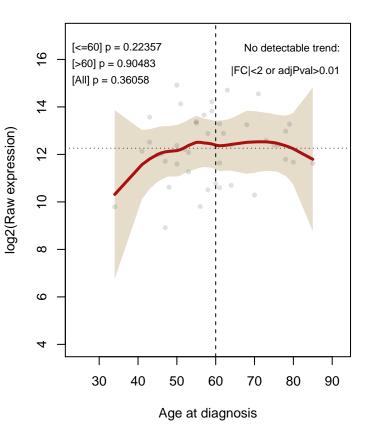


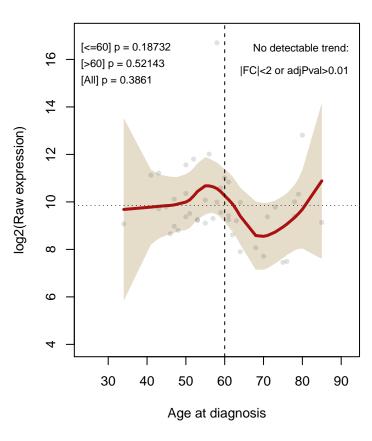
HRAS (non-ER binding)





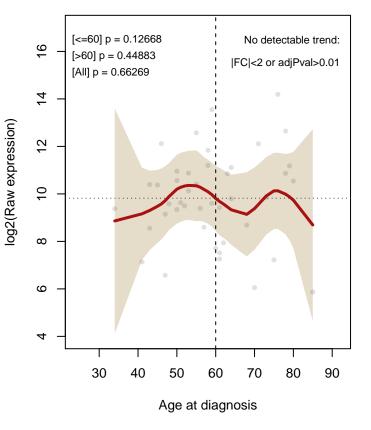
IGF1R (ER binding)

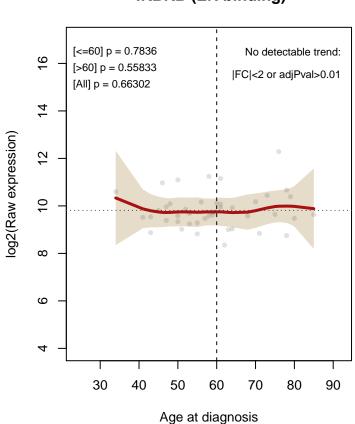




IGFBP2 (non-ER binding)

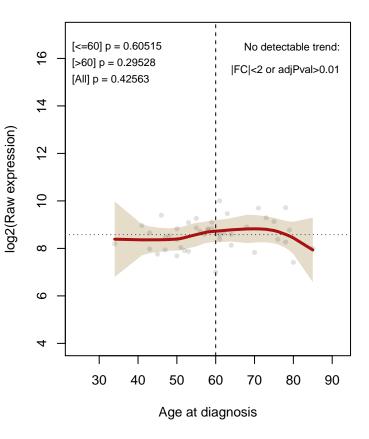
IKBKB (ER binding)

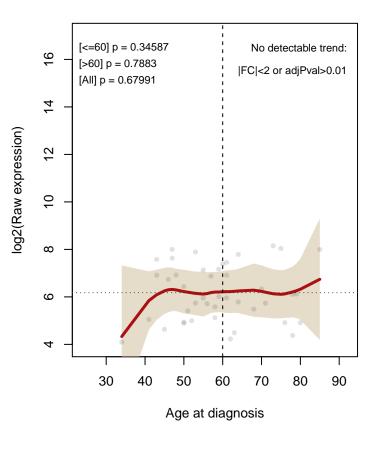






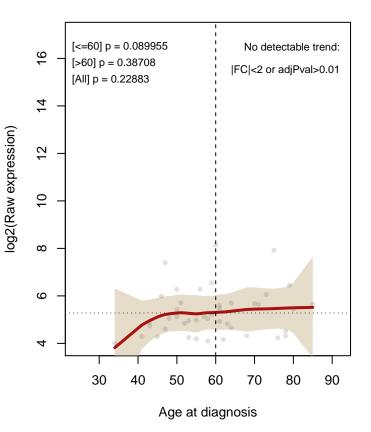
IL2RA (non-ER binding)

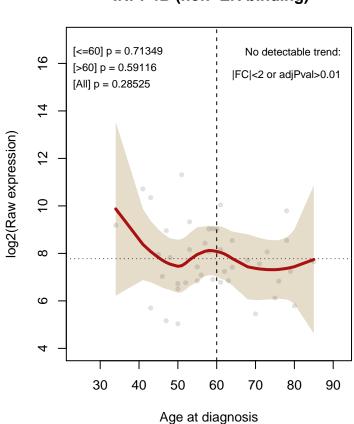


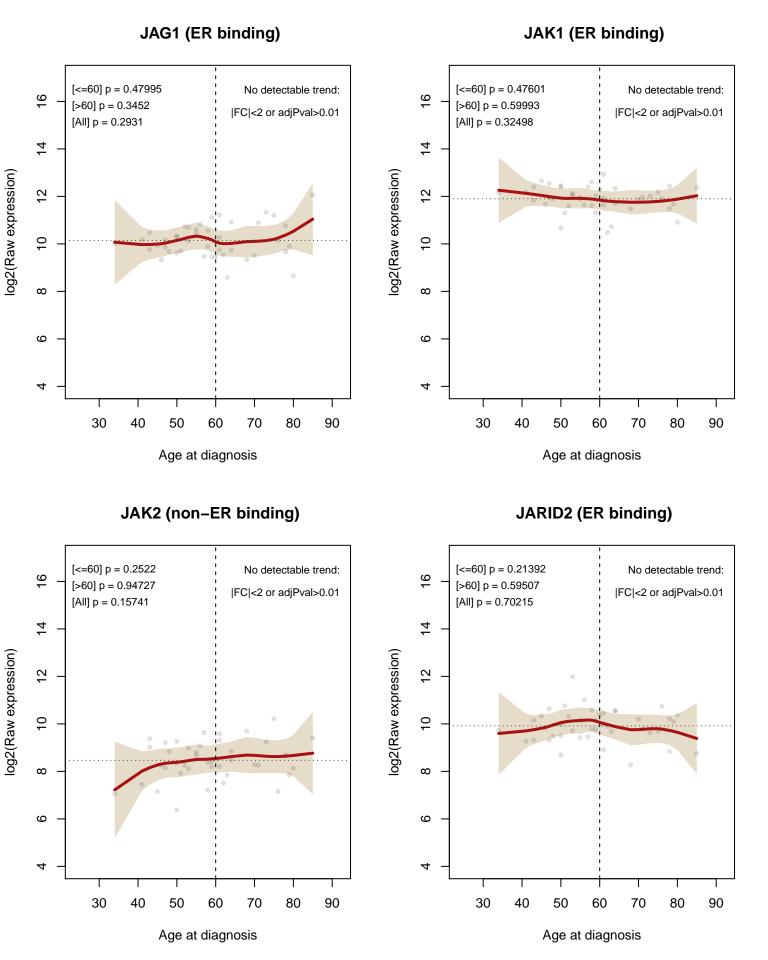


IL6 (non-ER binding)

INPP4B (non-ER binding)

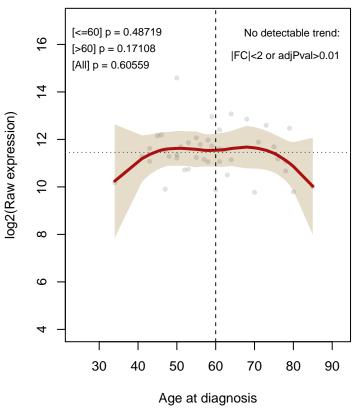


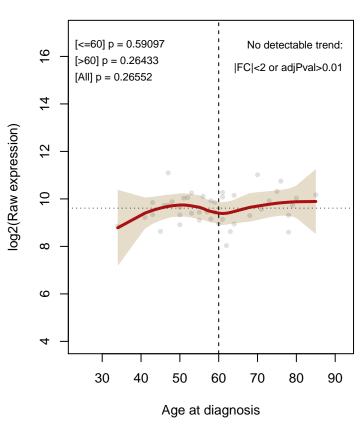




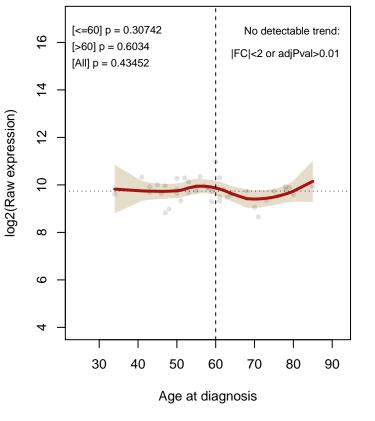
JUN (non-ER binding)

KDM2B (non-ER binding)

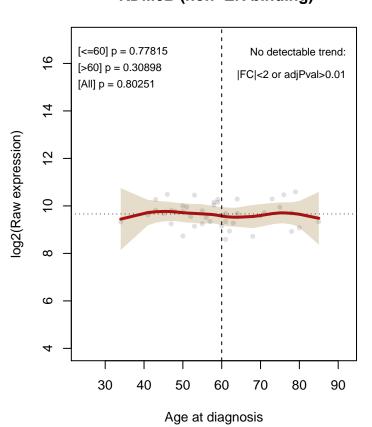




KDM6A (non-ER binding)



KDM6B (non-ER binding)



KIAA0101 (non-ER binding)

No detectable trend:

|FC|<2 or adjPval>0.01

[<=60] p = 0.82587

[>60] p = 0.52625

[All] p = 0.36127

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16

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12

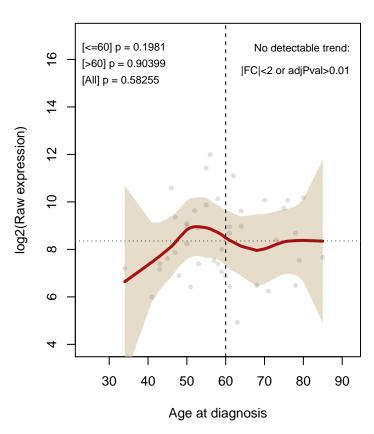
10

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log2(Raw expression)

KIT (non-ER binding)



KMT2C (non-ER binding)

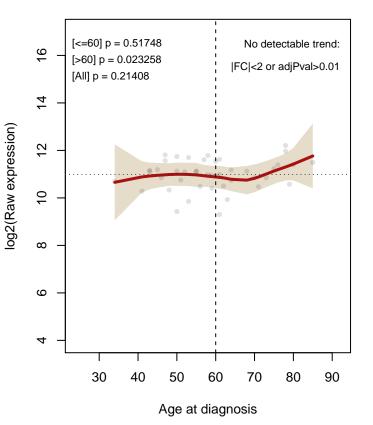
Age at diagnosis

60

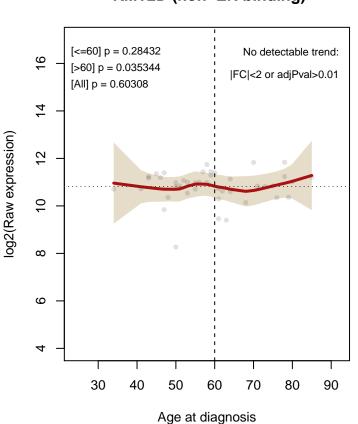
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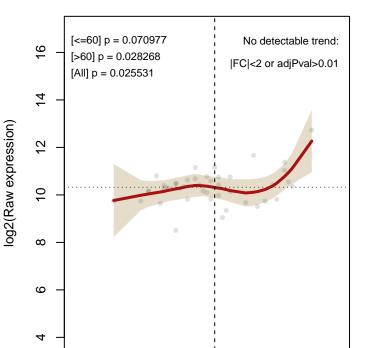
90



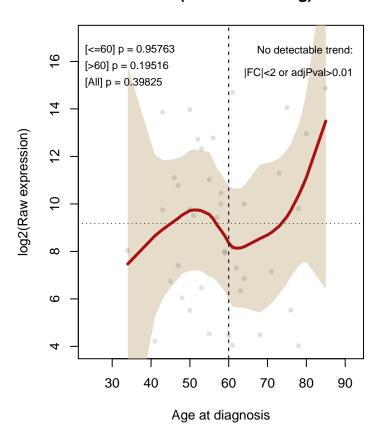
KMT2D (non-ER binding)



KRAS (non-ER binding)



KRT5 (non-ER binding)



L3MBTL1 (non-ER binding)

Age at diagnosis

60

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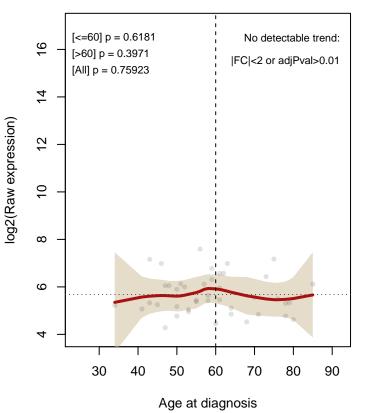
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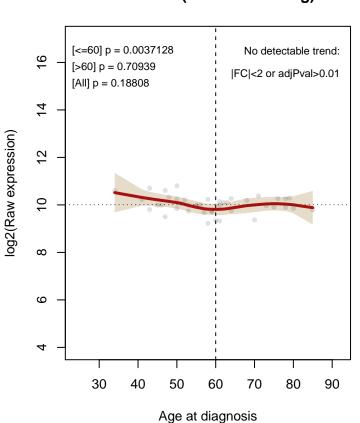
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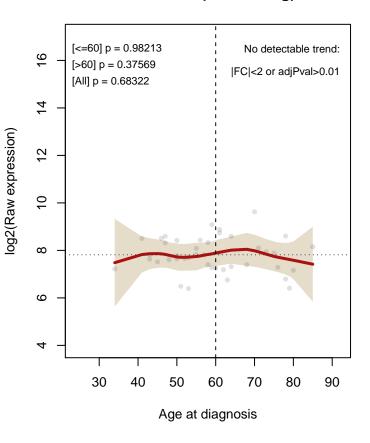


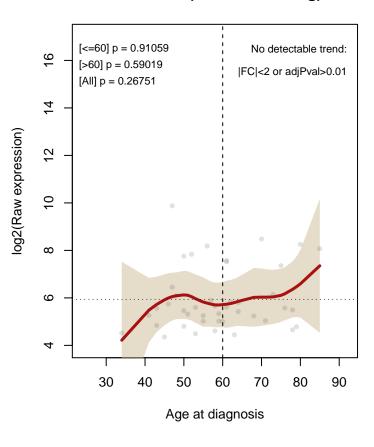
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

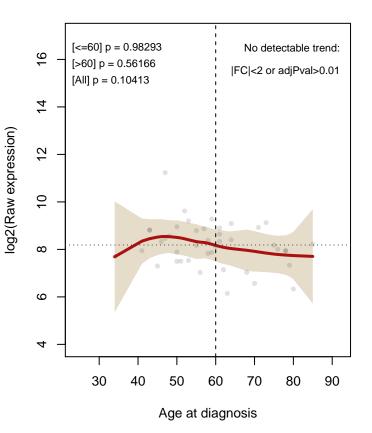
L3MBTL4 (non-ER binding)

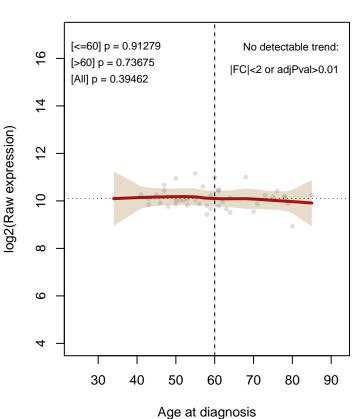




LEF1 (non-ER binding)

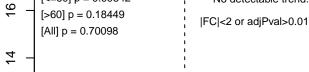
MAP2K1 (non-ER binding)

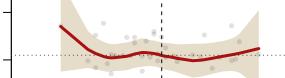




MAP3K1 (non-ER binding)

[<=60] p = 0.99842No detectable trend:





19 ∞

log2(Raw expression)

12

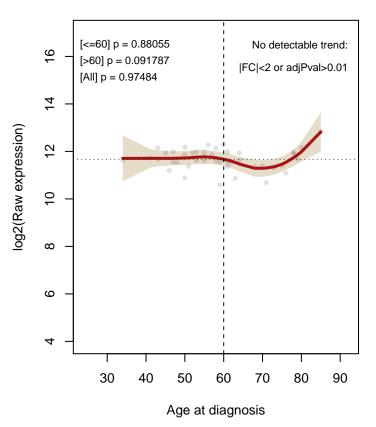
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50 Age at diagnosis

MAPK1 (non-ER binding)



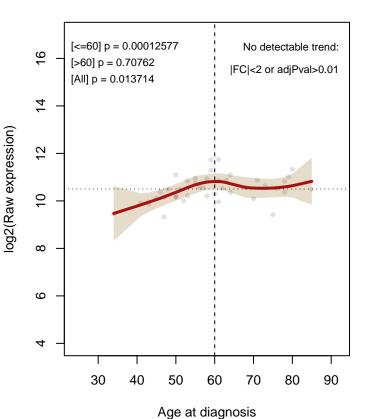
MAPK3 (non-ER binding)

60

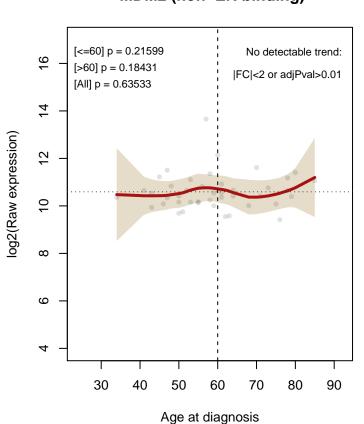
70

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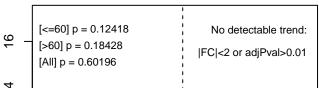
90



MDM2 (non-ER binding)

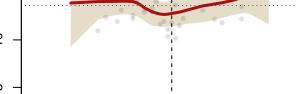








log2(Raw expression)





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Age at diagnosis

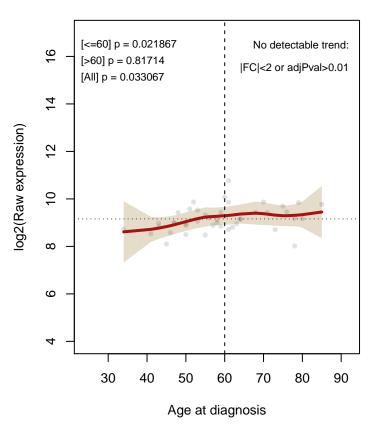
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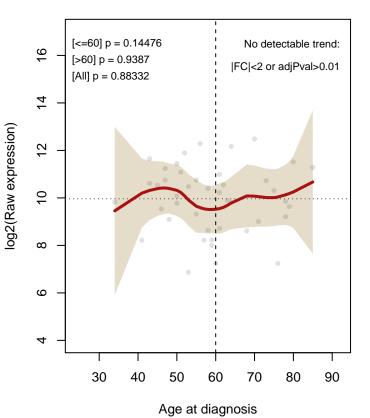
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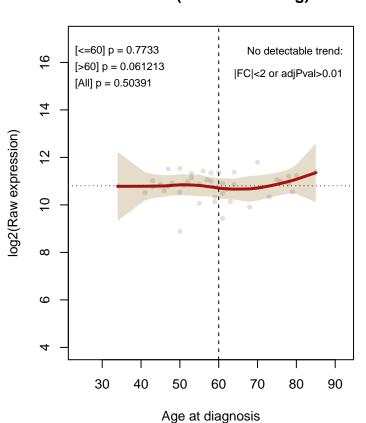
MTF2 (non-ER binding)



MYC (non-ER binding)

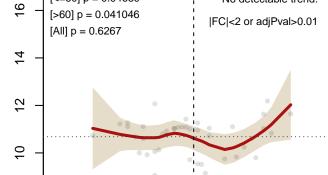


NCOA6 (non-ER binding)



NCOR1 (non-ER binding)

[<=60] p = 0.94689 No detectable trend:



log2(Raw expression)

ω

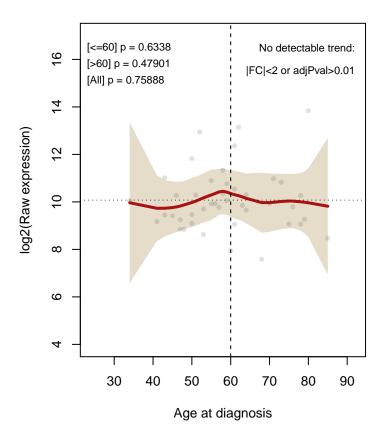
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NES (non-ER binding)



NFKB1 (non-ER binding)

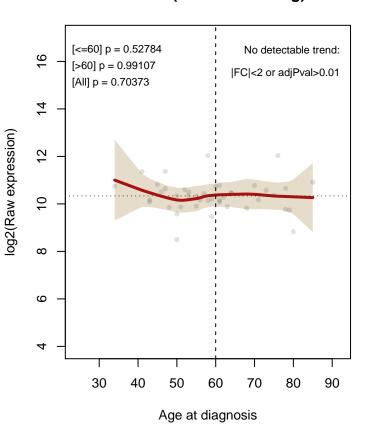
Age at diagnosis

60

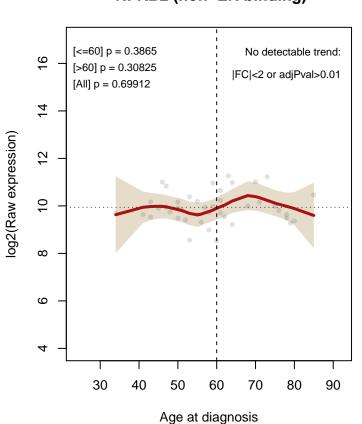
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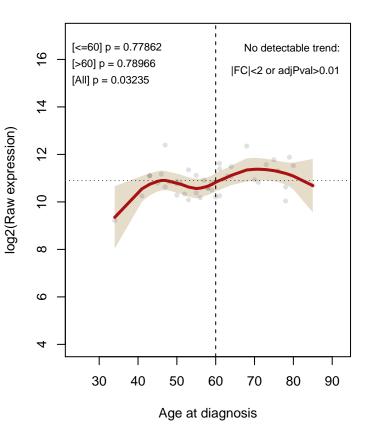


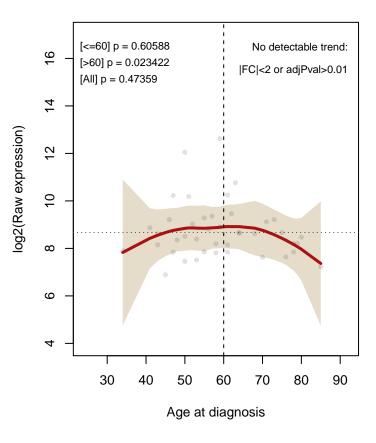
NFKB2 (non-ER binding)



NFKBIA (non-ER binding)

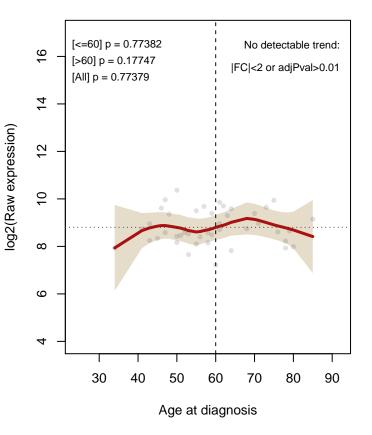
NFKBIB (non-ER binding)

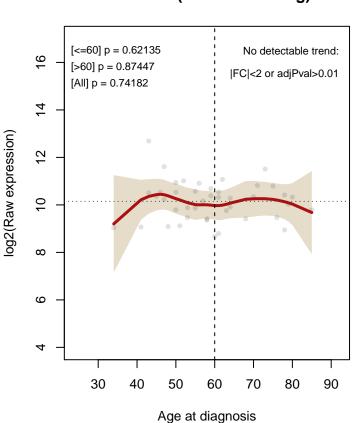




NFKBIE (non-ER binding)

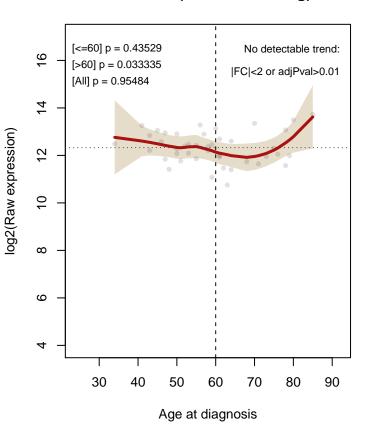
NOTCH1 (non-ER binding)

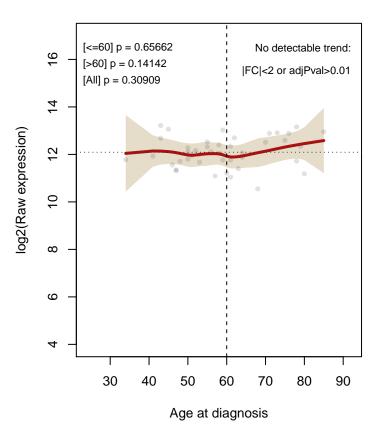




NOTCH2 (non-ER binding)

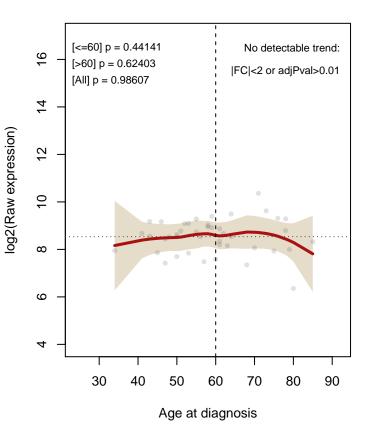
NOTCH3 (non-ER binding)

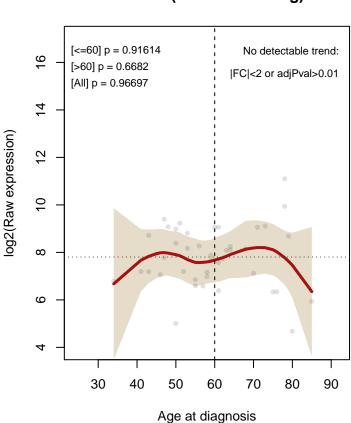




NOTCH4 (non-ER binding)

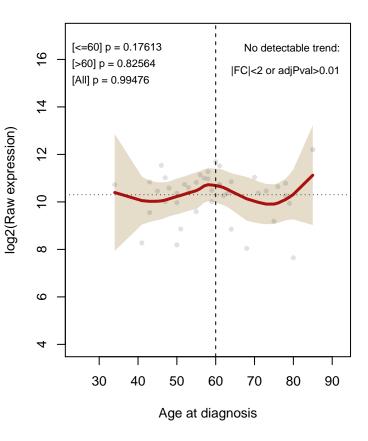
NR4A2 (non-ER binding)

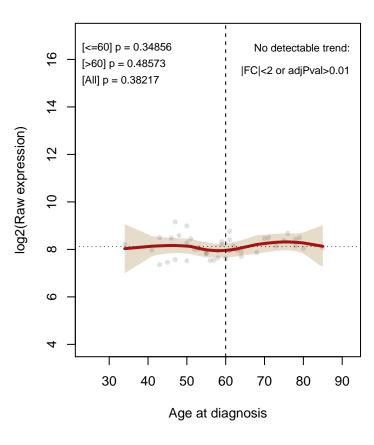




NRAS (non-ER binding)

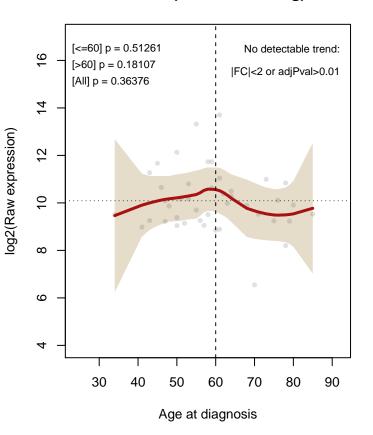
PCGF1 (non-ER binding)

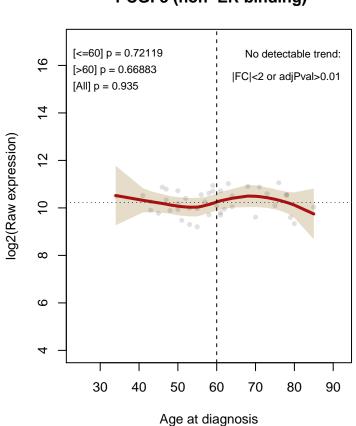




PCGF2 (non-ER binding)

PCGF3 (non-ER binding)

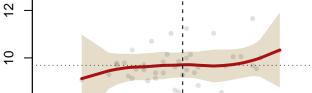




PCGF5 (non-ER binding)

[<=60] p = 0.80107No detectable trend: 16 [>60] p = 0.86874 |FC|<2 or adjPval>0.01 [All] p = 0.24127





log2(Raw expression)

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Age at diagnosis

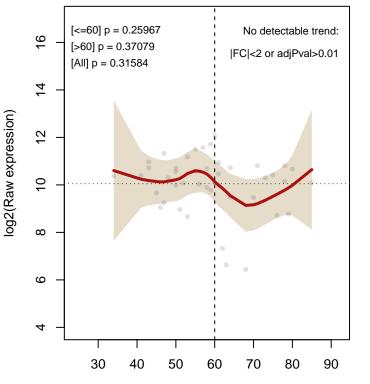
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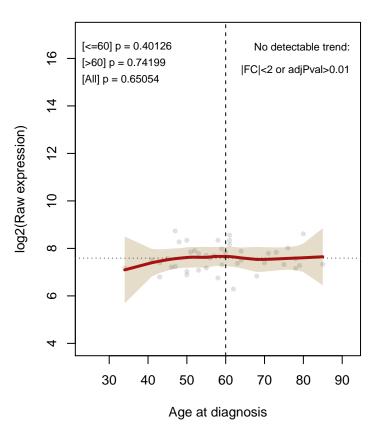
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PDGFRA (non-ER binding)

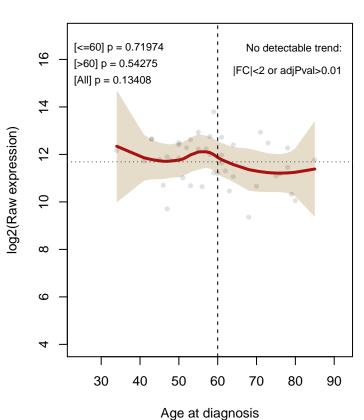


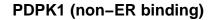
Age at diagnosis

PCGF6 (non-ER binding)

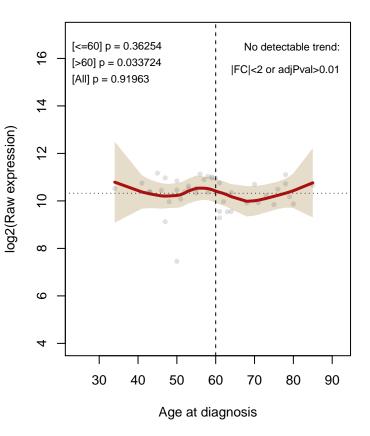


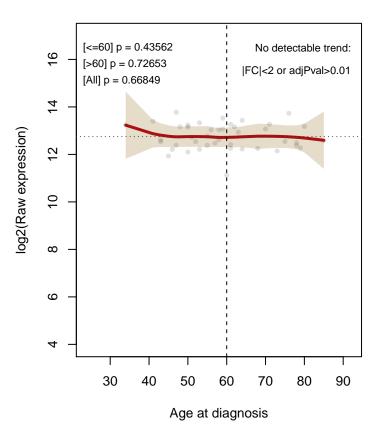
PDGFRB (non-ER binding)





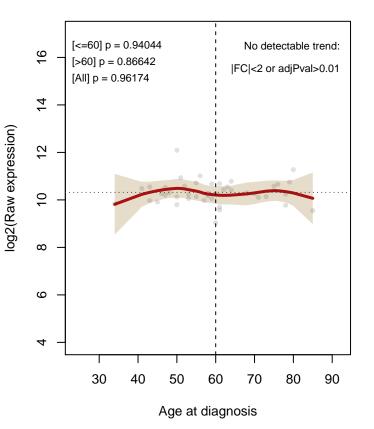
PEBP1 (non-ER binding)

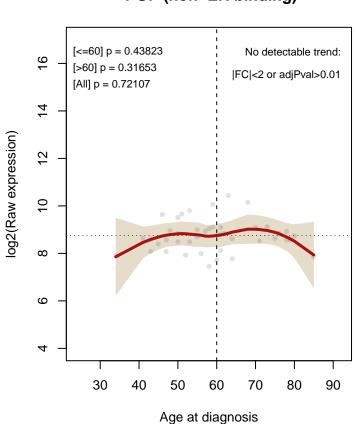


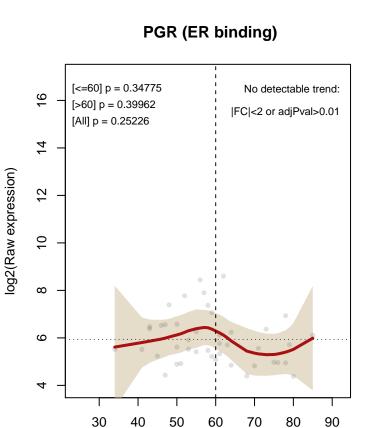


PELP1 (non-ER binding)

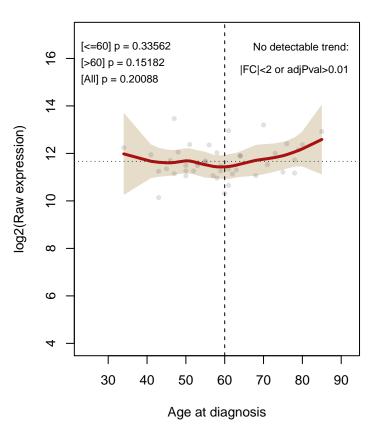
PGP (non-ER binding)





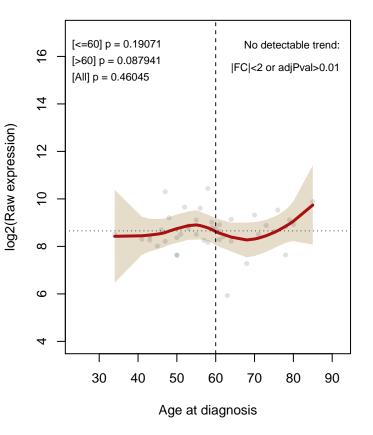


PHB2 (non-ER binding)

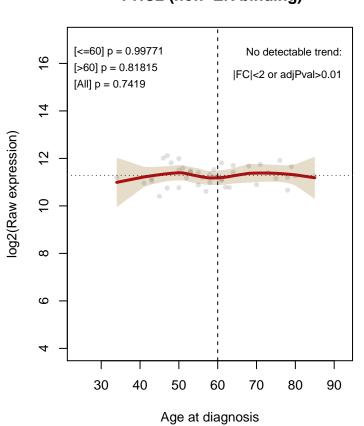


PHC1 (non-ER binding)

Age at diagnosis



PHC2 (non-ER binding)

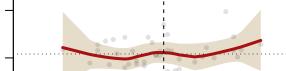








log2(Raw expression)

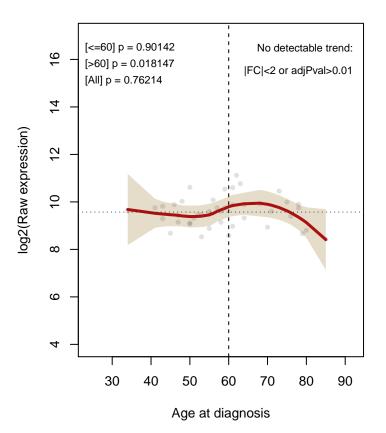




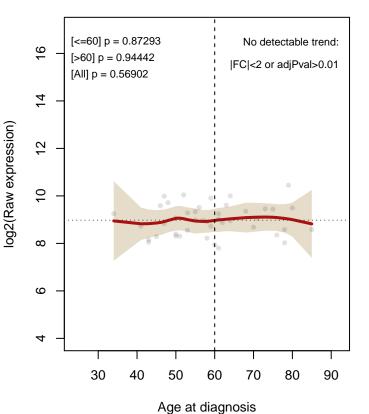


Age at diagnosis

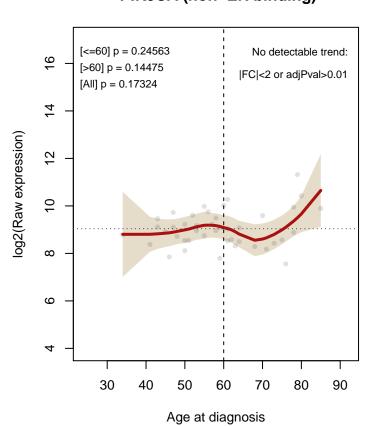
PHF1 (non-ER binding)



PHF19 (non-ER binding)

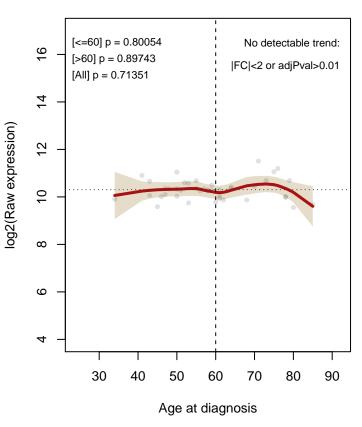


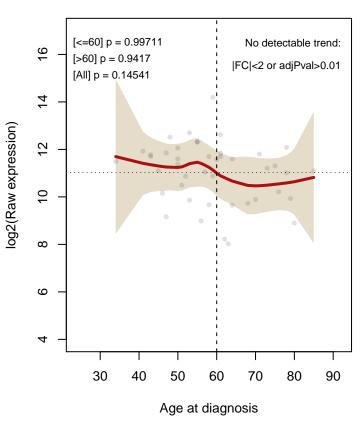
PIK3CA (non-ER binding)



PIP5K1C (non-ER binding)

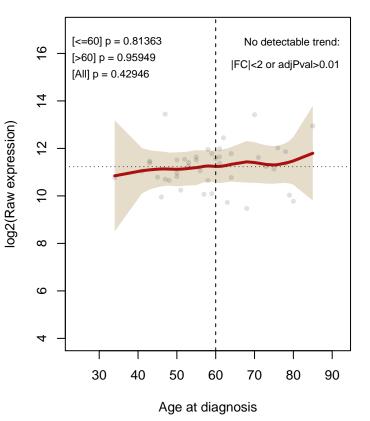
PLAU (non-ER binding)

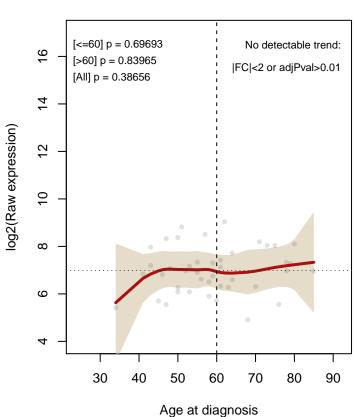




PODXL (non-ER binding)

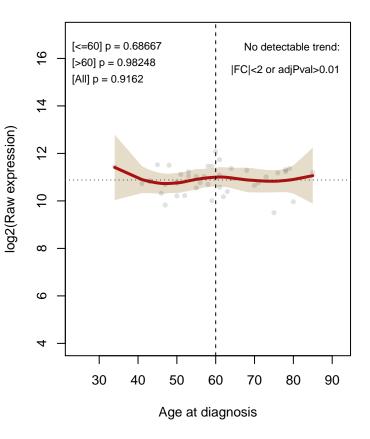
PPARG (ER binding)

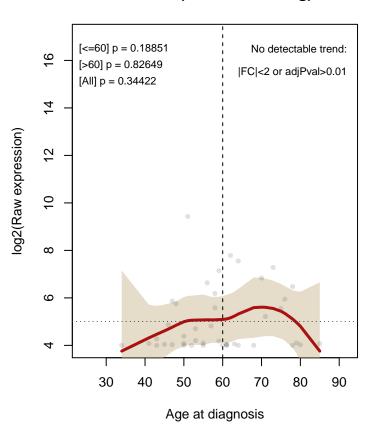






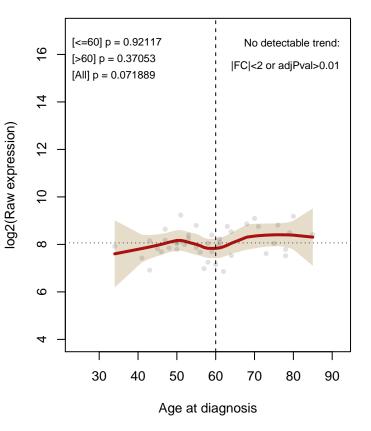
PYDC1 (non-ER binding)

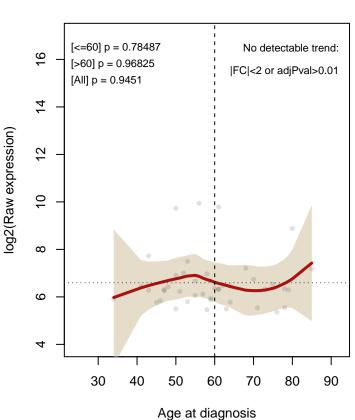




RAD51 (non-ER binding)

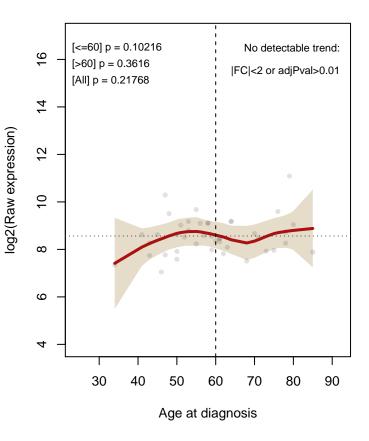
RAD51B (ER binding)

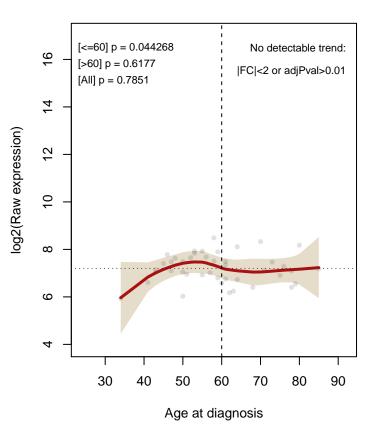




RAD51C (non-ER binding)

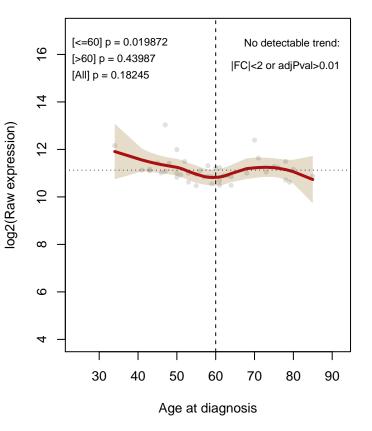
RAD51D (non-ER binding)

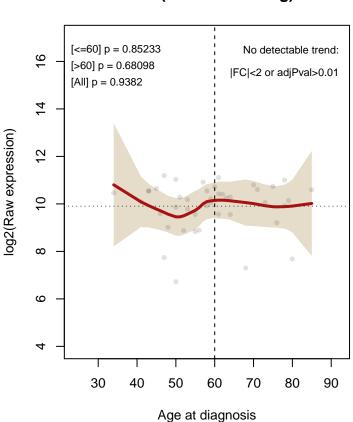


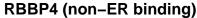


RAF1 (non-ER binding)

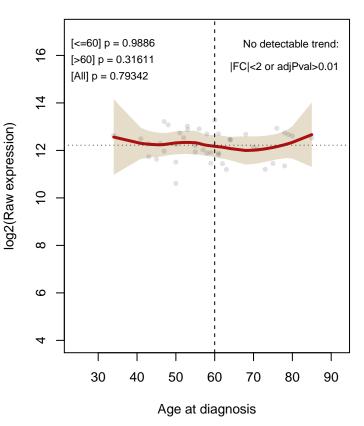
RB1 (non-ER binding)

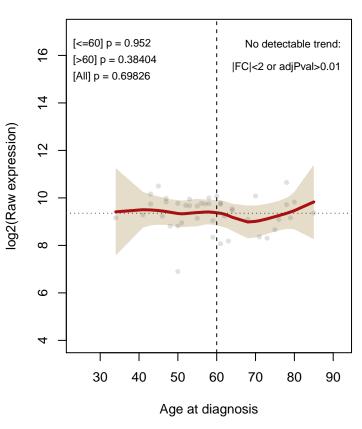






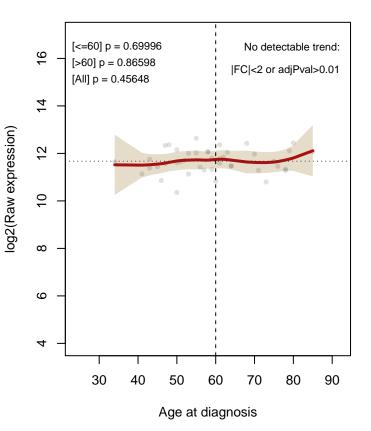
RBBP5 (non-ER binding)

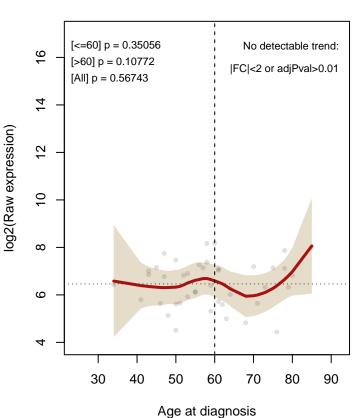




RBBP7 (non-ER binding)

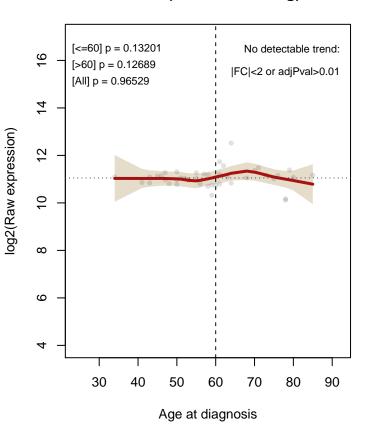
REL (non-ER binding)

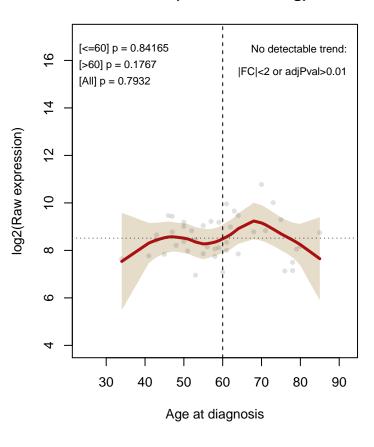




RELA (non-ER binding)

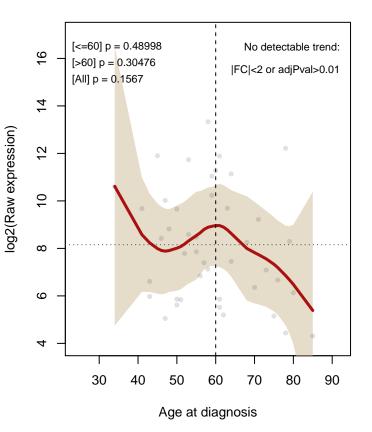
RELB (non-ER binding)

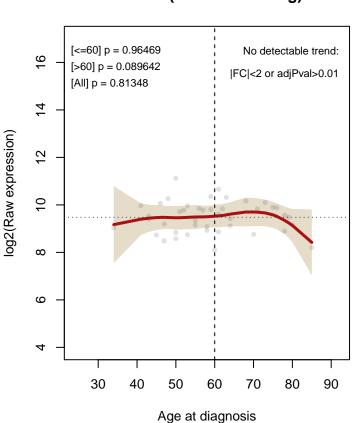


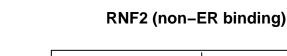


RET (ER binding)

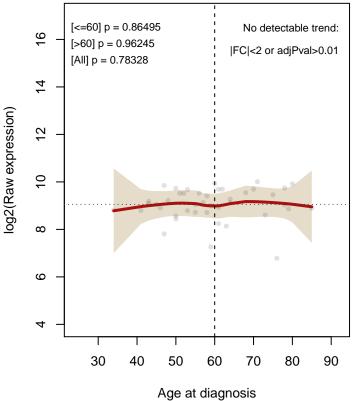
RING1 (non-ER binding)

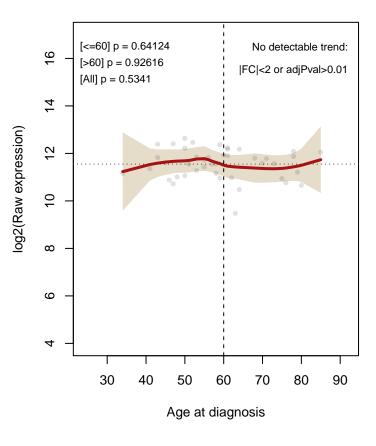






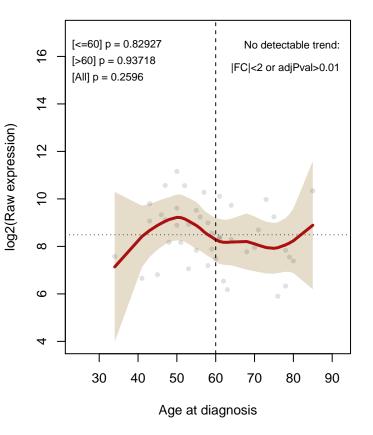


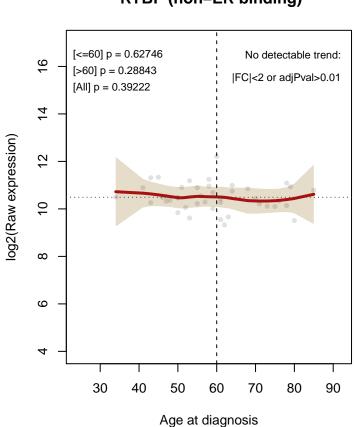




RUNX3 (non-ER binding)

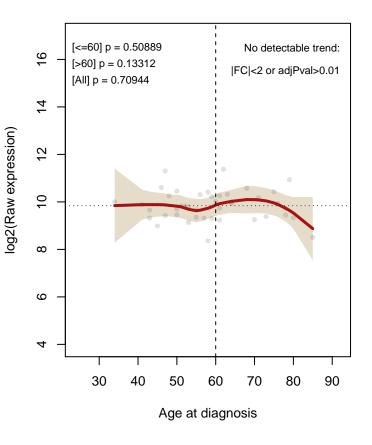
RYBP (non-ER binding)

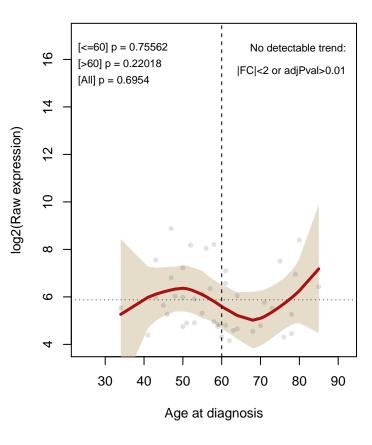




SCMH1 (non-ER binding)

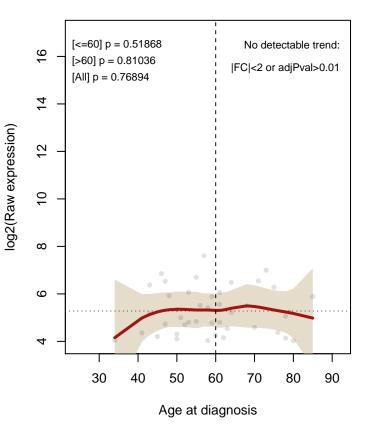
SCML2 (non-ER binding)

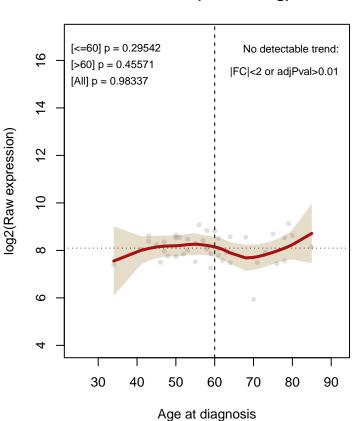




SCML4 (non-ER binding)

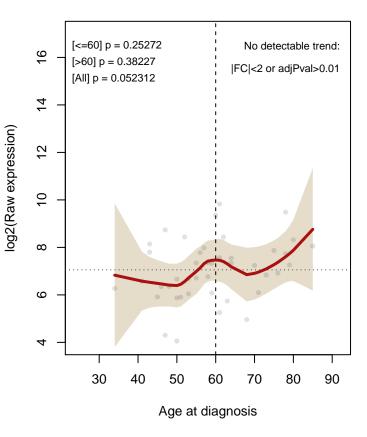
SFMBT1 (ER binding)

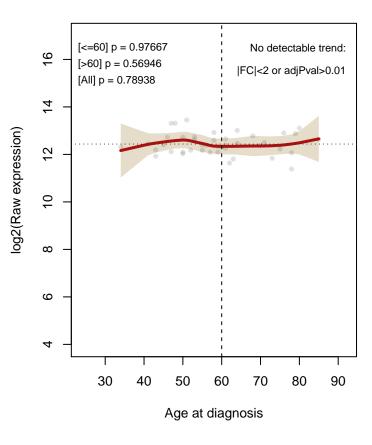






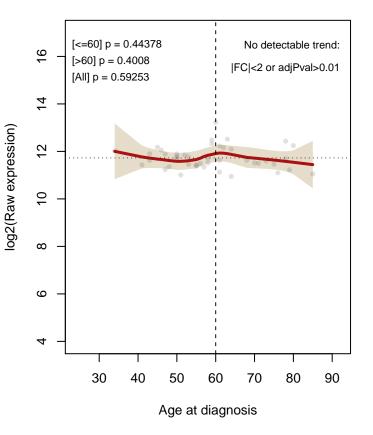
SFPQ (non-ER binding)

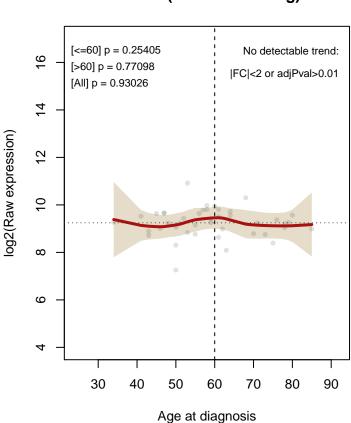




SHC1 (non-ER binding)

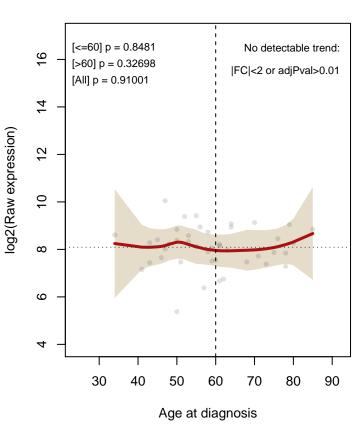
SIRT1 (non-ER binding)

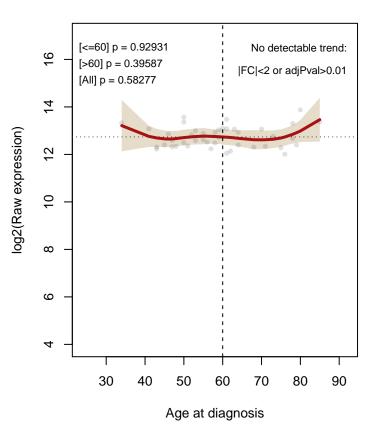




SKP2 (non-ER binding)

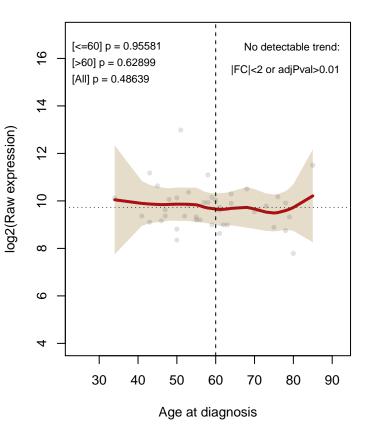
binding) SLC25A3 (non-ER binding)

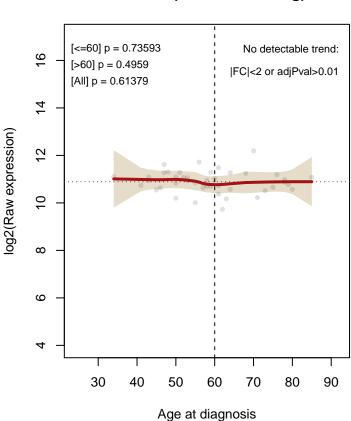




SMAD1 (non-ER binding)

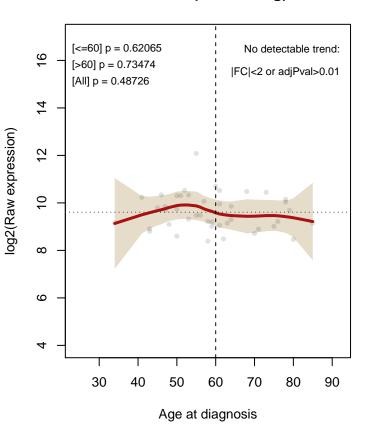
SMAD2 (non-ER binding)

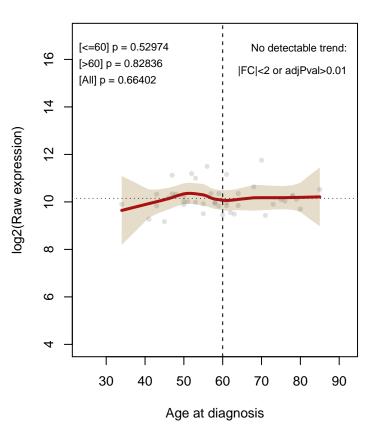




SMAD3 (ER binding)

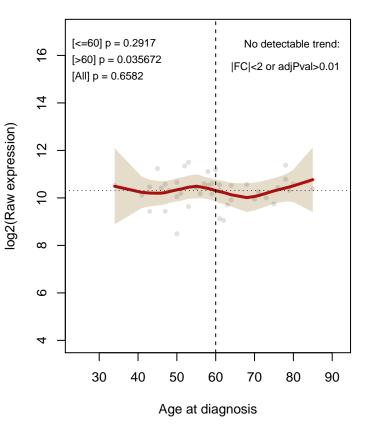
SMAD4 (non-ER binding)

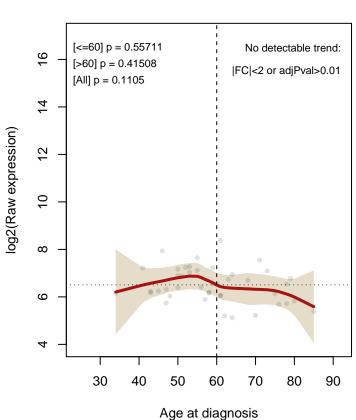




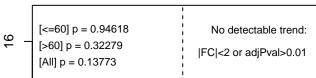
SMAD5 (non-ER binding)

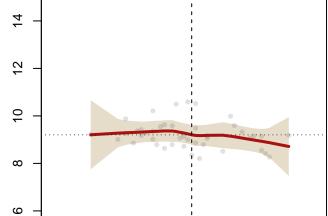
SMAD6 (non-ER binding)





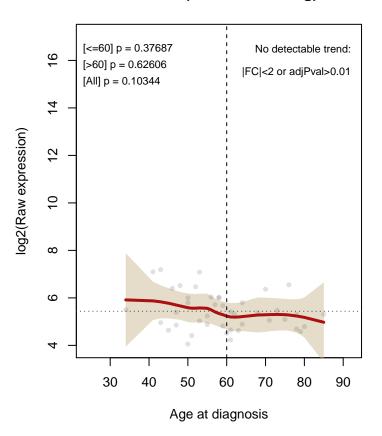
SMAD7 (non-ER binding)





log2(Raw expression)

SMAD9 (non-ER binding)



SOS1 (non-ER binding)

Age at diagnosis

60

70

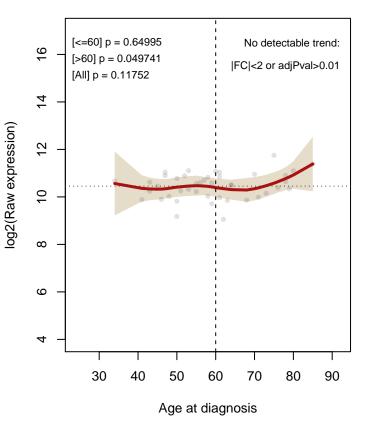
80

90

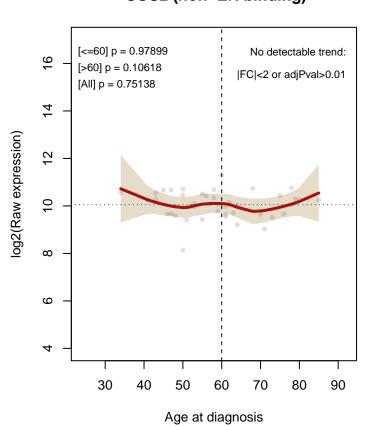
30

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SOS2 (non-ER binding)



SP1 (non-ER binding) SRC (non-ER binding) [<=60] p = 0.81475No detectable trend: [<=60] p = 0.36521No detectable trend: 16 16 [>60] p = 0.21075 [>60] p = 0.73374 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.61157[All] p = 0.477834 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis STAT3 (non-ER binding) STAT1 (ER binding) [<=60] p = 0.11088No detectable trend: [<=60] p = 0.89192No detectable trend: 16 16 [>60] p = 0.77788 [>60] p = 0.11979 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.16242[All] p = 0.995034 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9

30

40

50

60

Age at diagnosis

70

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90

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60

Age at diagnosis

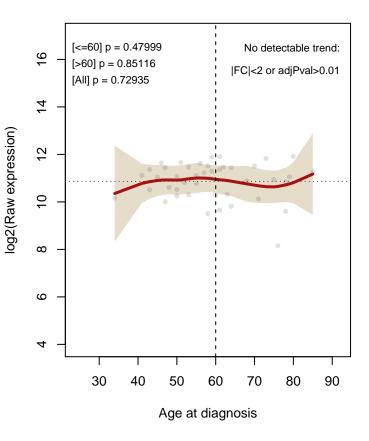
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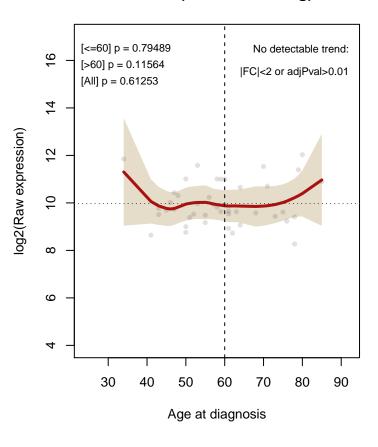
80

90

STAT6 (non-ER binding)

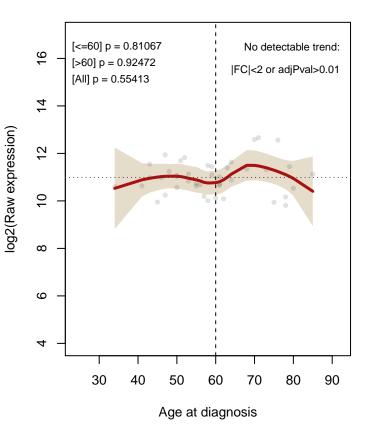
SUZ12 (non-ER binding)

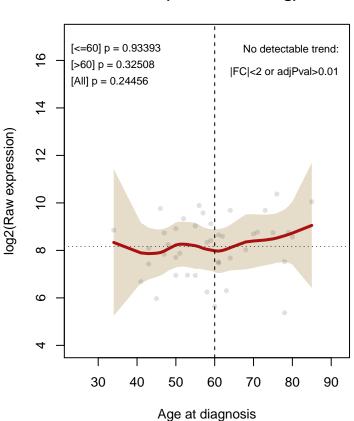




TCF3 (non-ER binding)

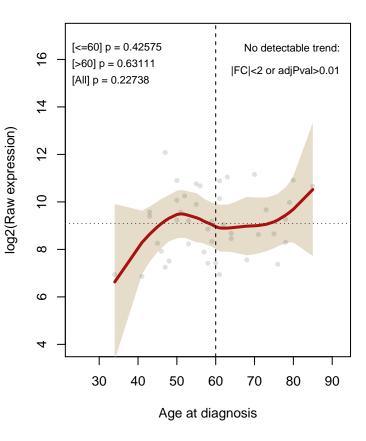
TCF7 (non-ER binding)

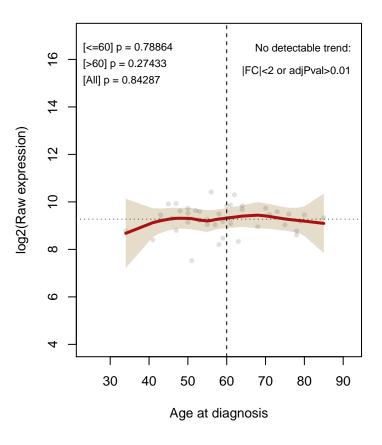






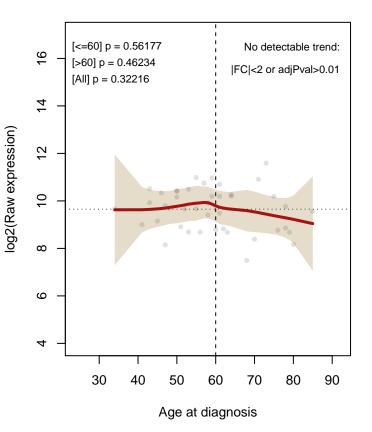
TCF7L2 (non-ER binding)

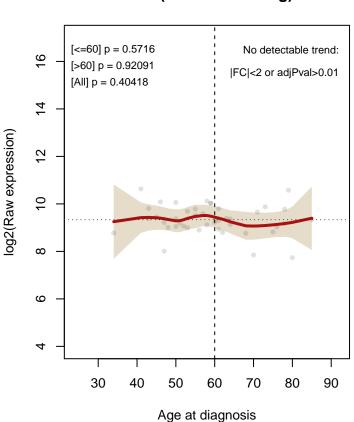


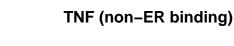


TGFB1 (non-ER binding)

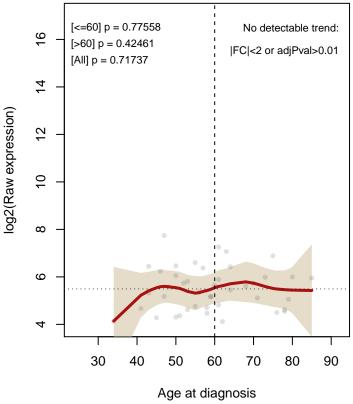
TK2 (non-ER binding)

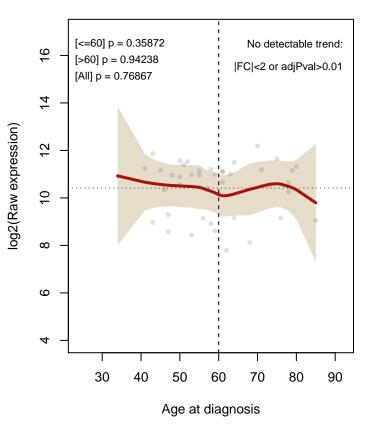






n–ER binding) TP53 (non–ER binding)





TRIM29 (non-ER binding)

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Age at diagnosis

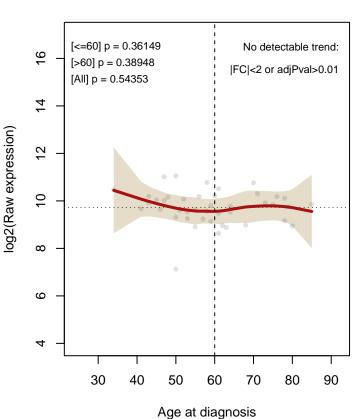
70

80

90

log2(Raw expression)

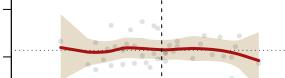
VHL (non-ER binding)



WDR5 (non-ER binding)





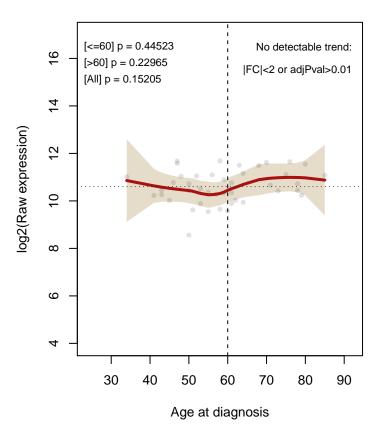


log2(Raw expression)

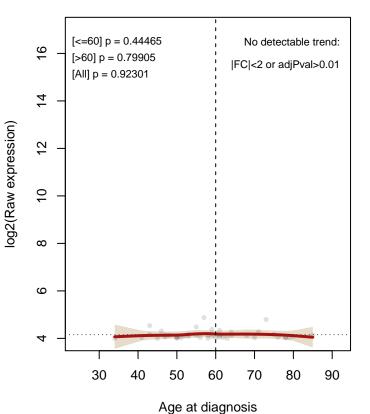


Age at diagnosis

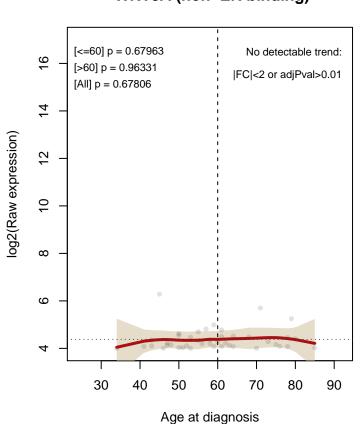
WHSC1 (non-ER binding)



WNT1 (non-ER binding)

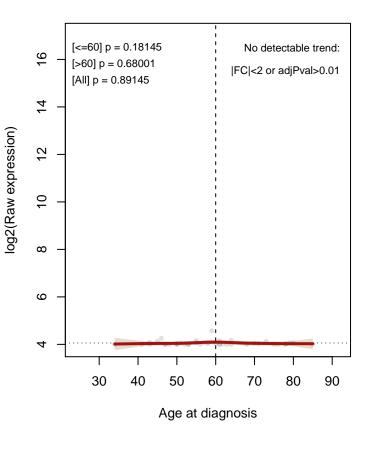


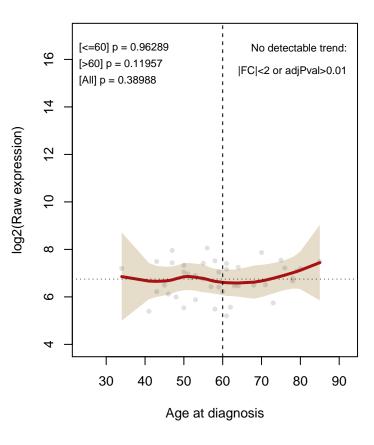
WNT3A (non-ER binding)



WNT7A (non-ER binding)

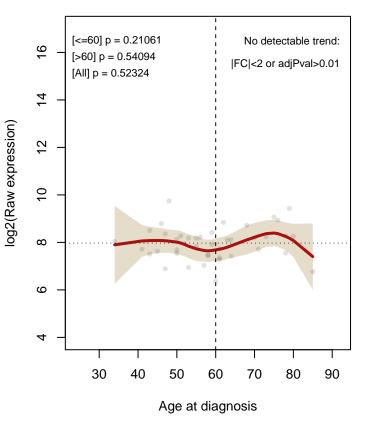
XRCC2 (non-ER binding)

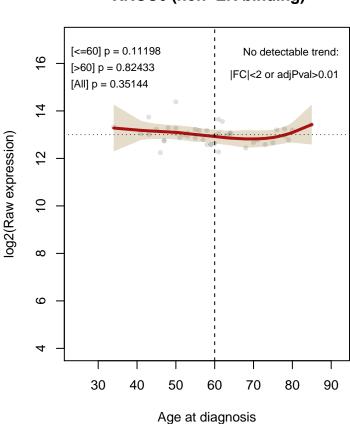




XRCC3 (non-ER binding)

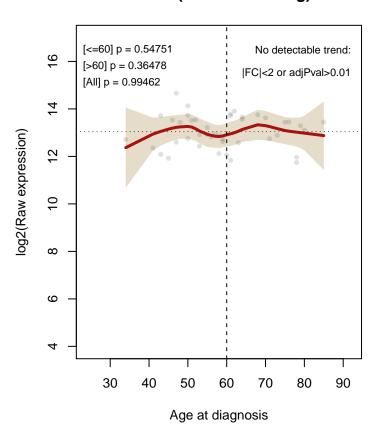
XRCC6 (non-ER binding)





YAF2 (non-ER binding)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

