

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.34695No detectable trend: [<=60] p = 0.1022 No detectable trend: 16 16 [>60] p = 0.50563 [>60] p = 0.81981 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.14429[All] p = 0.330914 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.92398No detectable trend: [<=60] p = 0.41789No detectable trend: 16 16 [>60] p = 0.49806[>60] p = 0.75205 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.12509[All] p = 0.159554 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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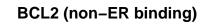
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Age at diagnosis

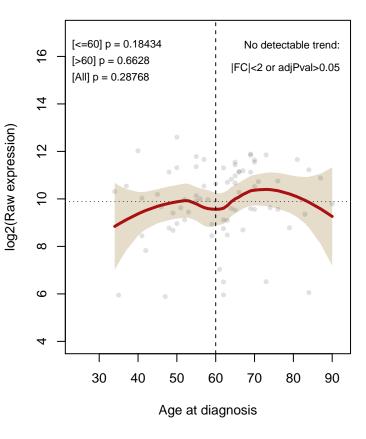
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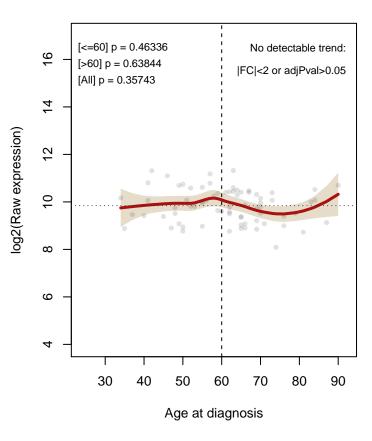
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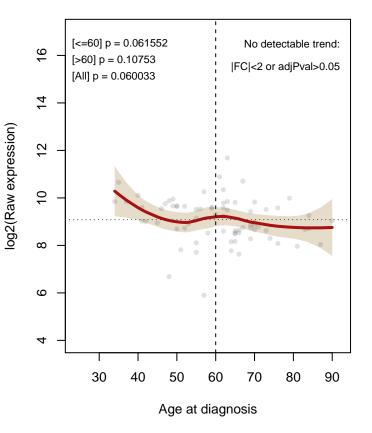
BCL3 (non-ER binding)

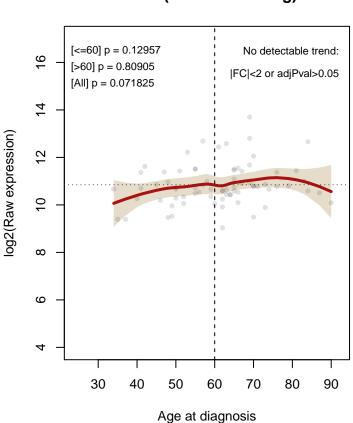




BIRC5 (non-ER binding)

BMI1 (non-ER binding)



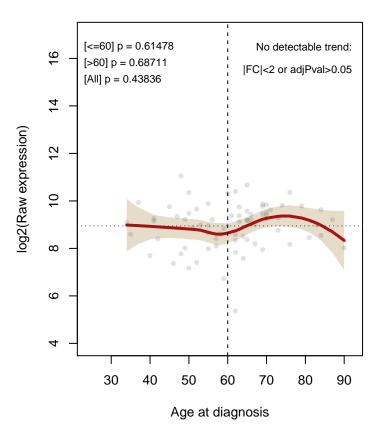


BMX (non-ER binding) [<=60] p = 0.026453 No detectable trend: 16 [>60] p = 0.48212 |FC|<2 or adjPval>0.05 [All] p = 0.844354 log2(Raw expression) 12 10

ω

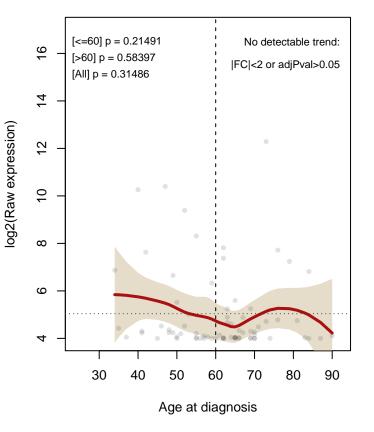
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BRCA1 (non-ER binding)

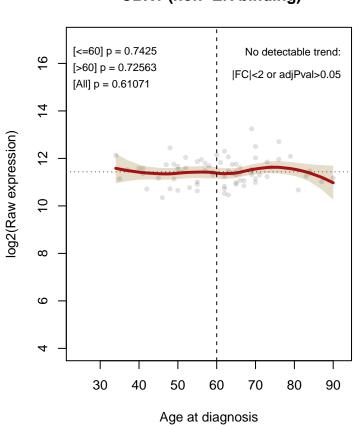


30 40 50 70 80 90 60 Age at diagnosis

CA9 (non-ER binding)



CBX1 (non-ER binding)



CBX2 (non-ER binding) **CBX4** (non-ER binding) [<=60] p = 0.87949No detectable trend: [<=60] p = 0.20433No detectable trend: 16 16 [>60] p = 0.87835 [>60] p = 0.053504 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.033598[All] p = 0.712754 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.48512 No detectable trend: [<=60] p = 0.14808No detectable trend: 16 16 [>60] p = 0.71807 [>60] p = 0.71994 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.94657[AII] p = 0.477064 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

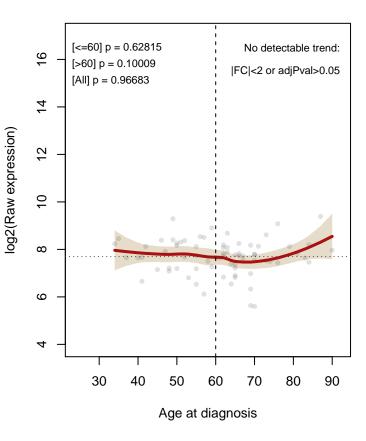
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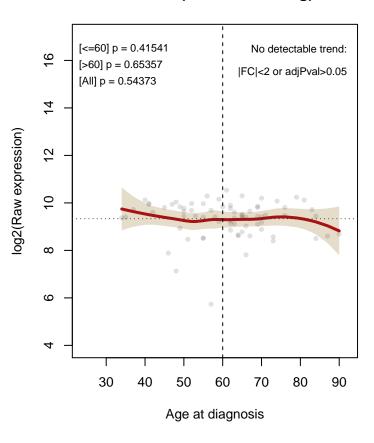
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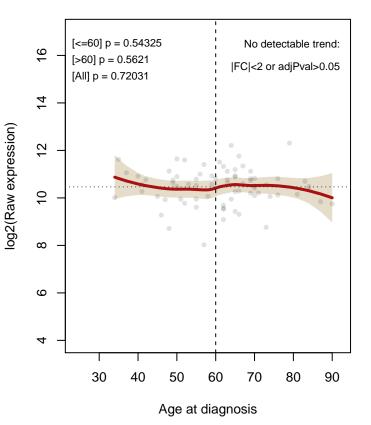
CCNA2 (non-ER binding)

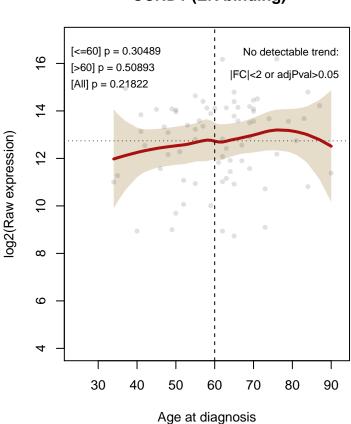


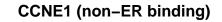


CCNB1 (non-ER binding)

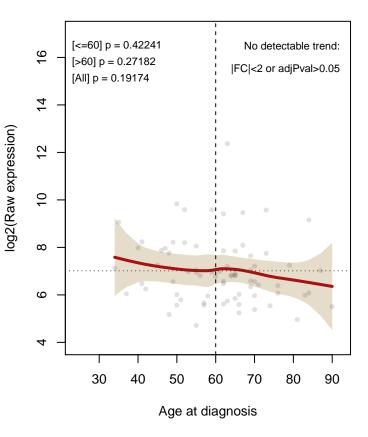
CCND1 (ER binding)

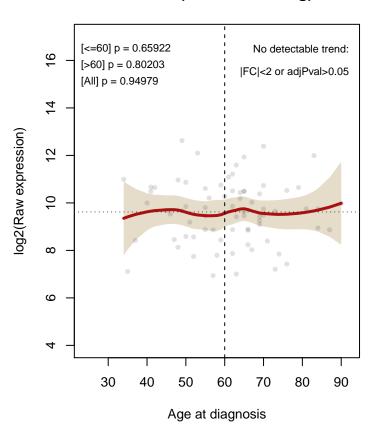






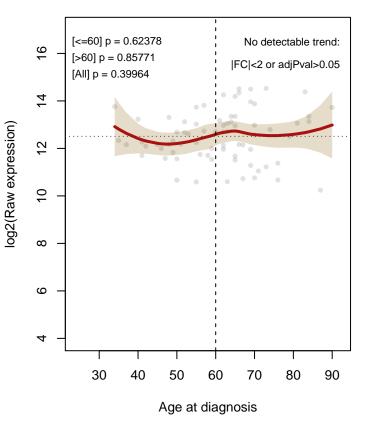
CD163 (non-ER binding)

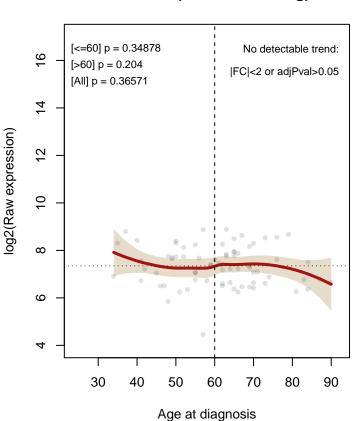


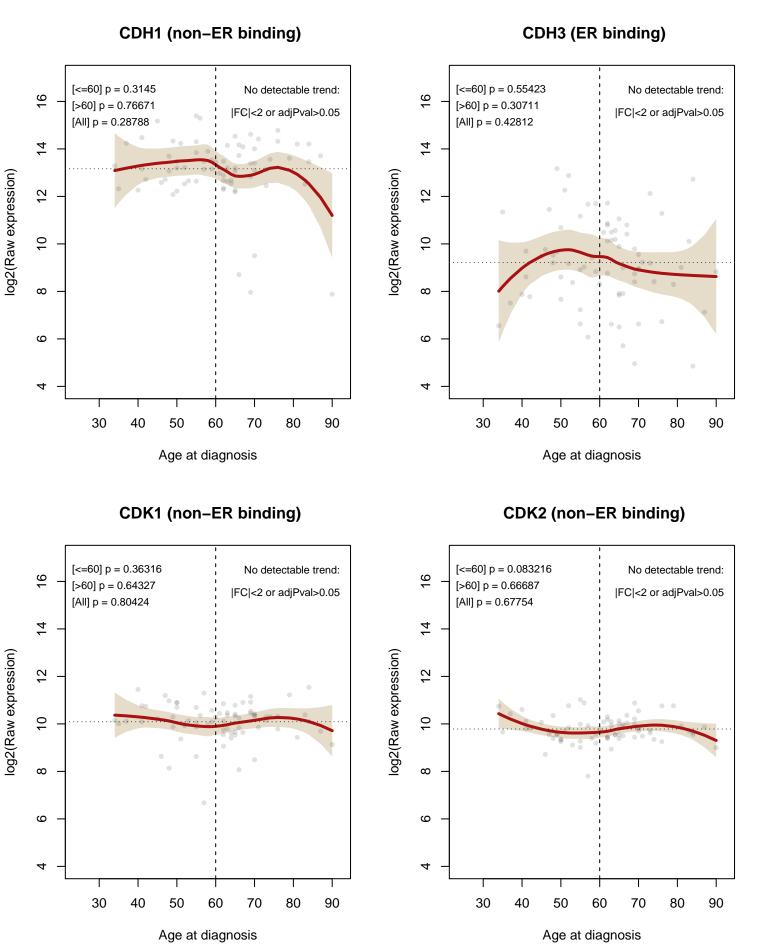


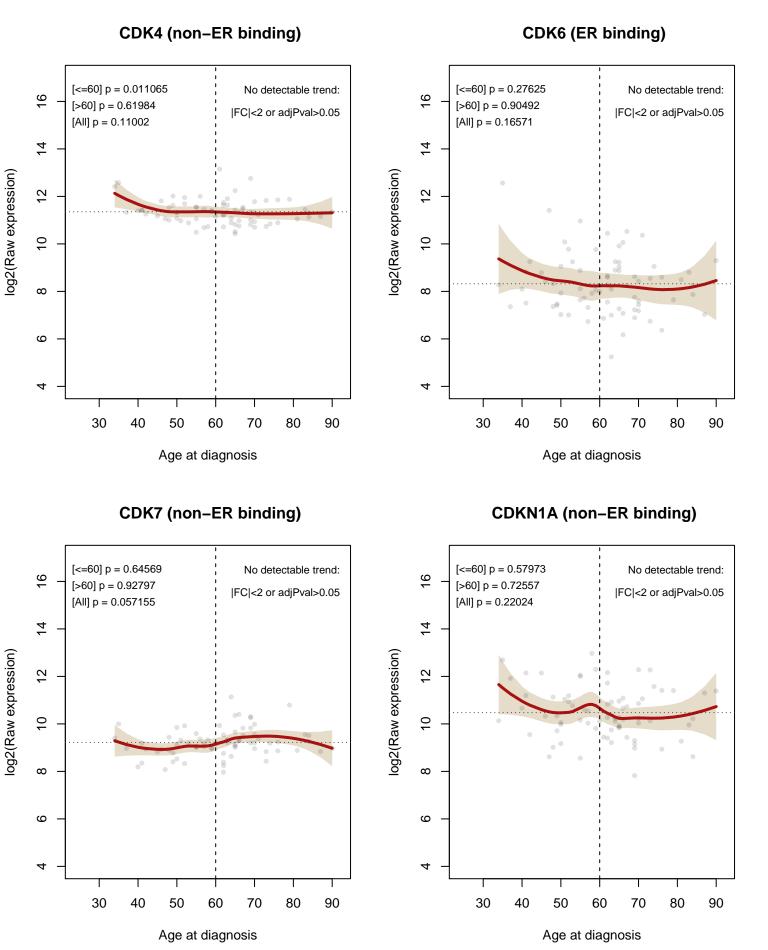
CD44 (non-ER binding)

CDC25C (non-ER binding)



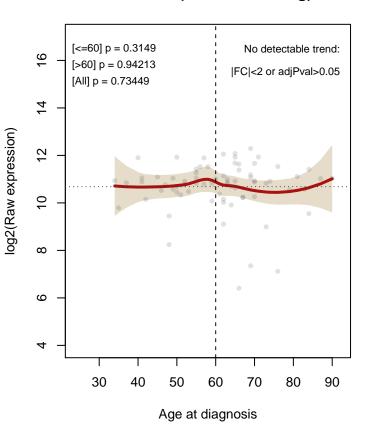


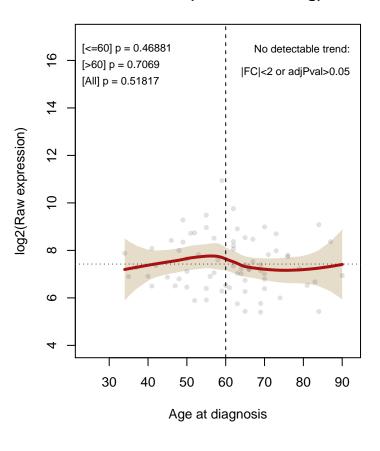




CDKN1B (non-ER binding)

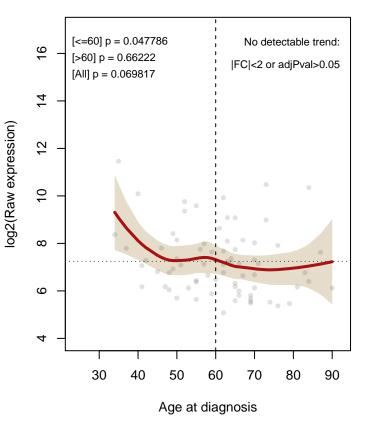
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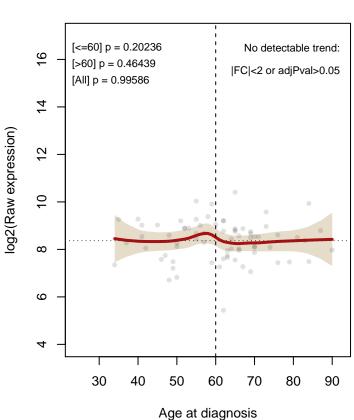




CDKN2A (non-ER binding)

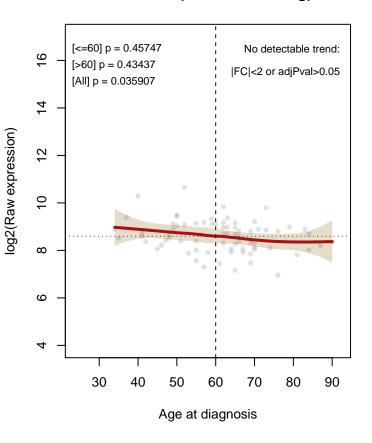
CDKN2B (non-ER binding)

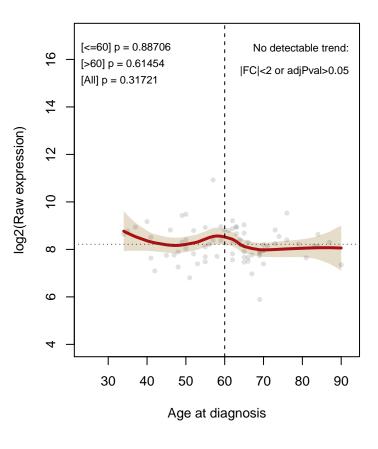




CDKN2C (non-ER binding)

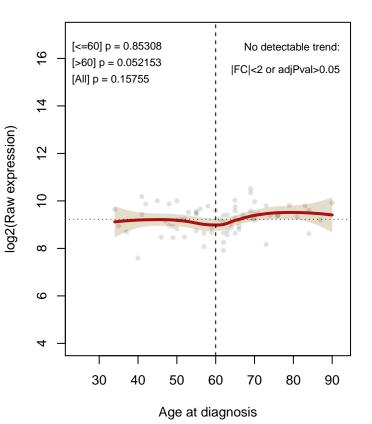
CDKN2D (non-ER binding)

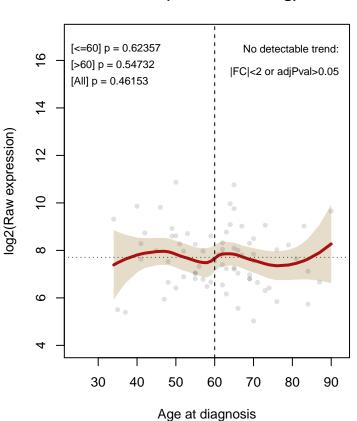




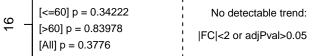
CHUK (non-ER binding)

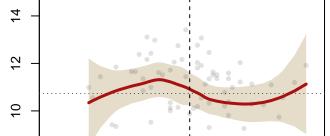
CIITA (non-ER binding)





CLDN3 (non-ER binding)





log2(Raw expression)



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Age at diagnosis

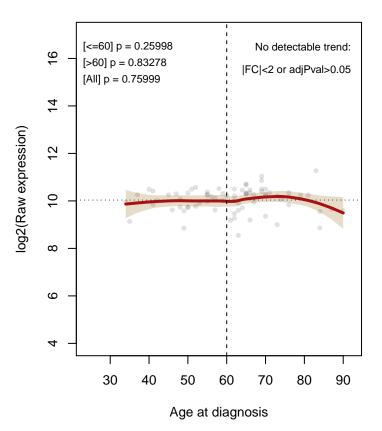
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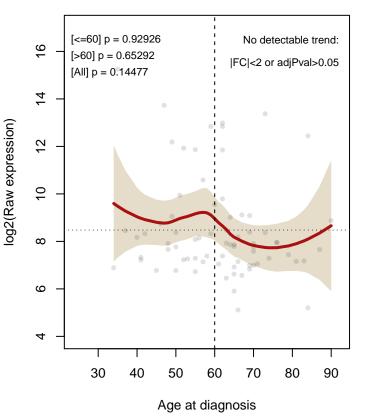
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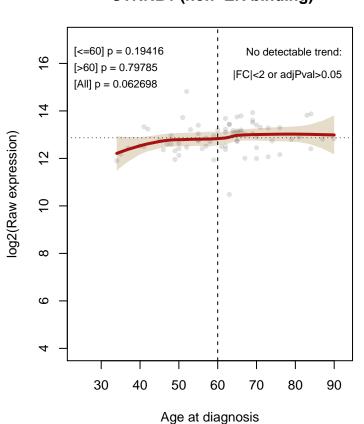
CREB1 (non-ER binding)



CRYAB (non-ER binding)



CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.0030559 No detectable trend: [<=60] p = 0.40413No detectable trend: 16 16 [>60] p = 0.44555 [>60] p = 0.37543 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.4881[All] p = 0.0759724 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.22726No detectable trend: [<=60] p = 0.030639No detectable trend: 16 16 [>60] p = 0.17922 [>60] p = 0.29552 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.070765[All] p = 0.420194 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

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DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.6626No detectable trend: [<=60] p = 0.3139 No detectable trend: 16 16 [>60] p = 0.7662 [>60] p = 0.74577 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.82979[All] p = 0.105674 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis E2F1 (non-ER binding) E2F2 (non-ER binding) [<=60] p = 0.15639No detectable trend: [<=60] p = 0.2077No detectable trend: 16 16 [>60] p = 0.90408 [>60] p = 0.70171 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.36166[All] p = 0.115734 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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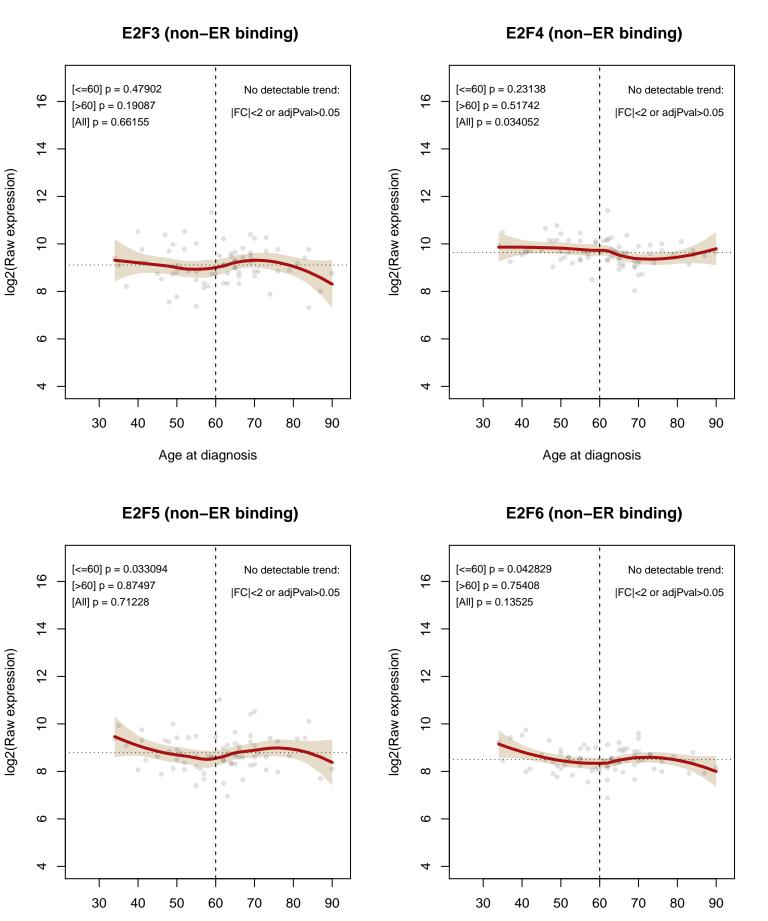
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Age at diagnosis

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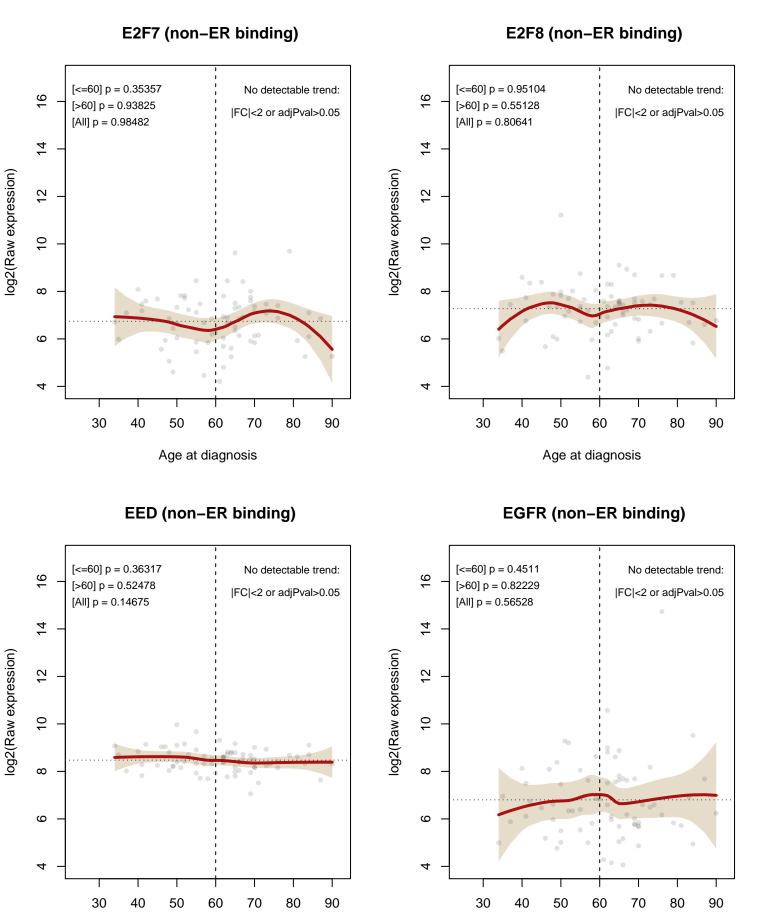
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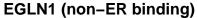
Age at diagnosis

Age at diagnosis

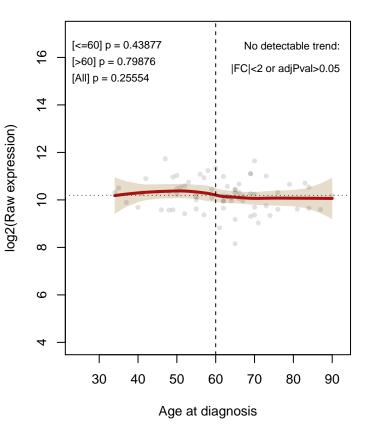


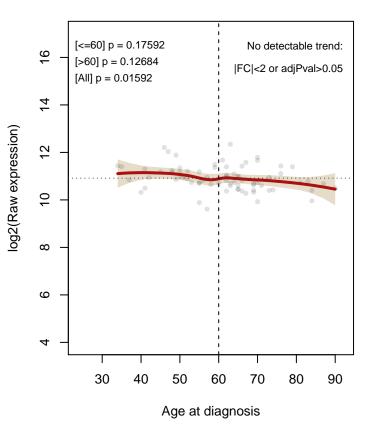
Age at diagnosis

Age at diagnosis



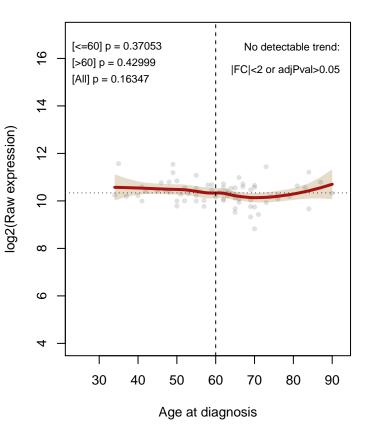
-ER binding) EHMT2 (non–ER binding)

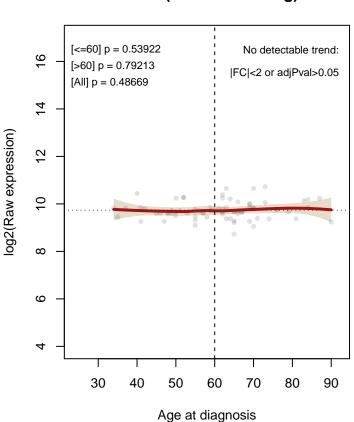


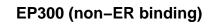


ELAC2 (non-ER binding)

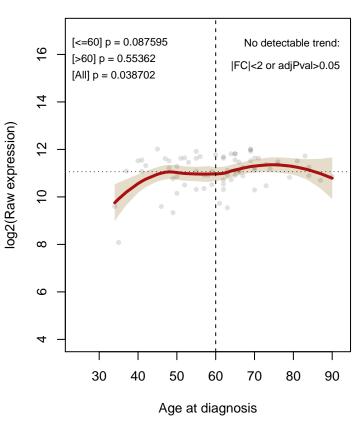
ELK1 (non-ER binding)

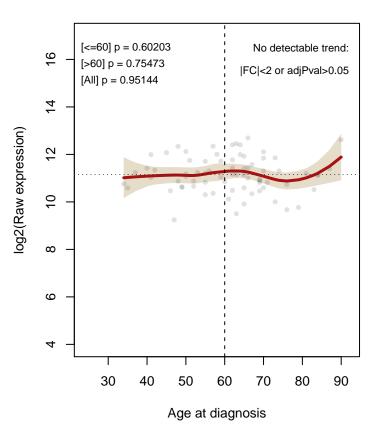






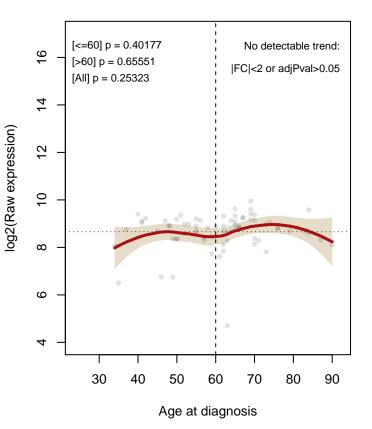
EPAS1 (non-ER binding)

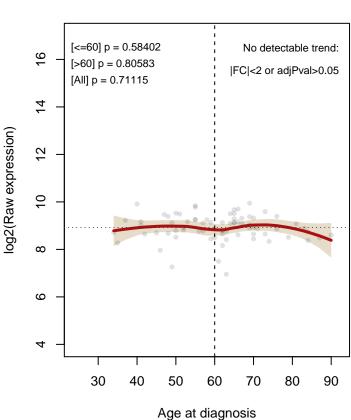




EPC1 (non-ER binding)

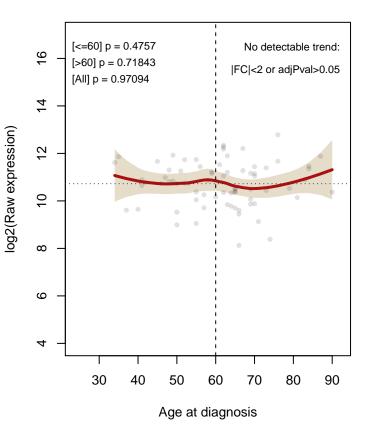
EPC2 (non-ER binding)

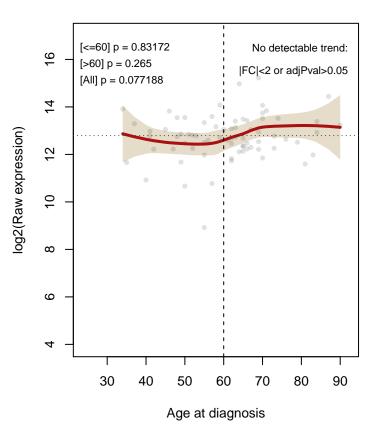






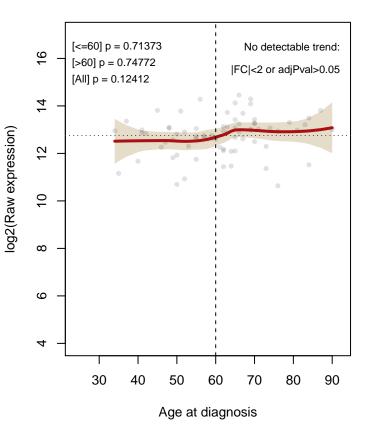
ERBB2 (non-ER binding)

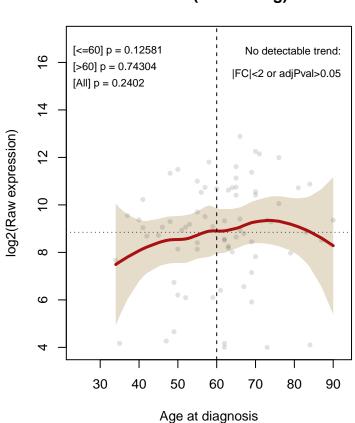


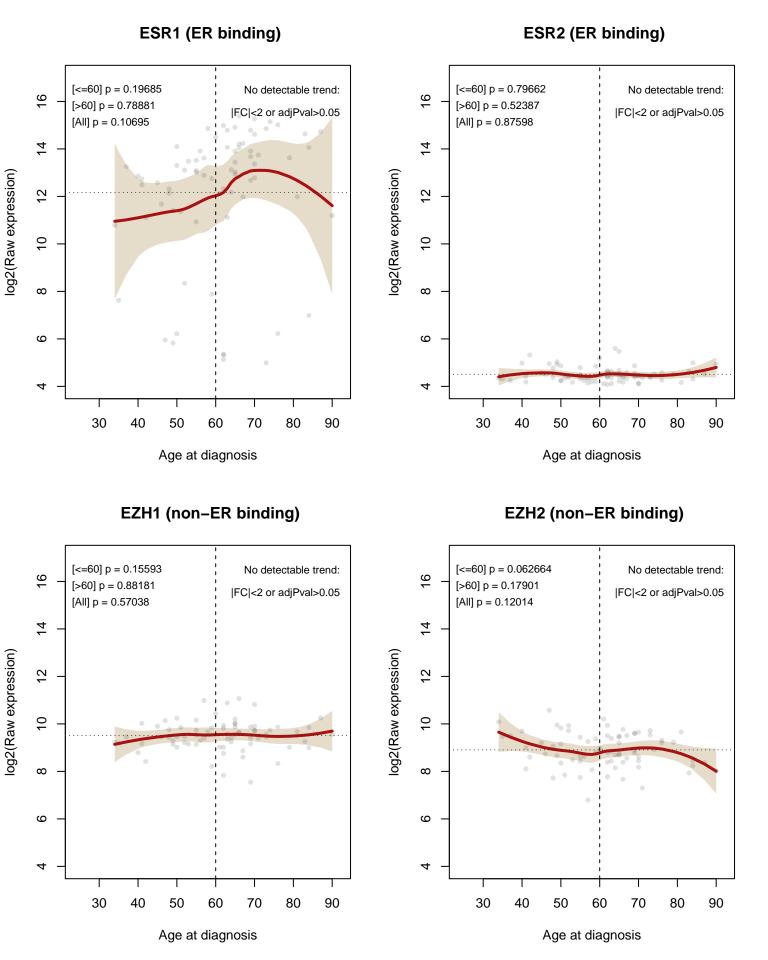


ERBB3 (non-ER binding)

ERBB4 (ER binding)

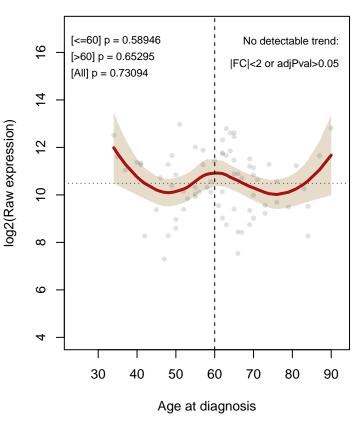


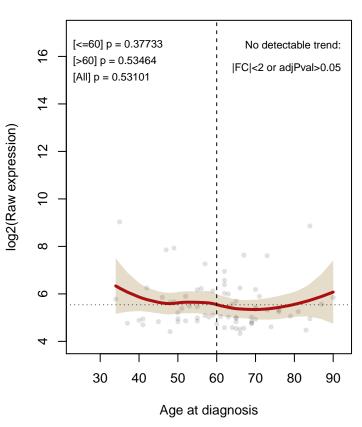






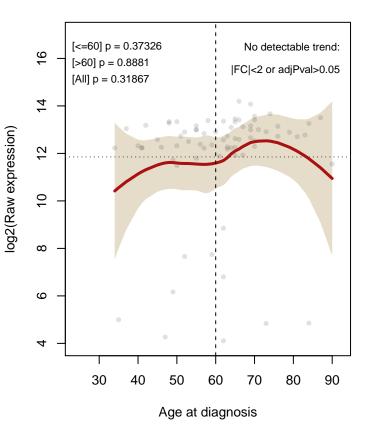
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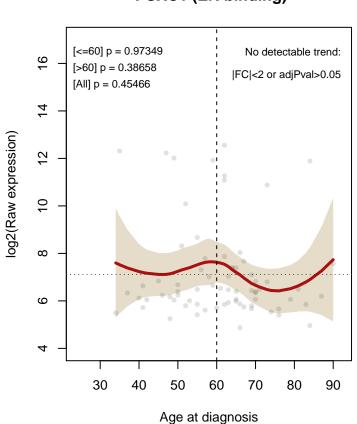


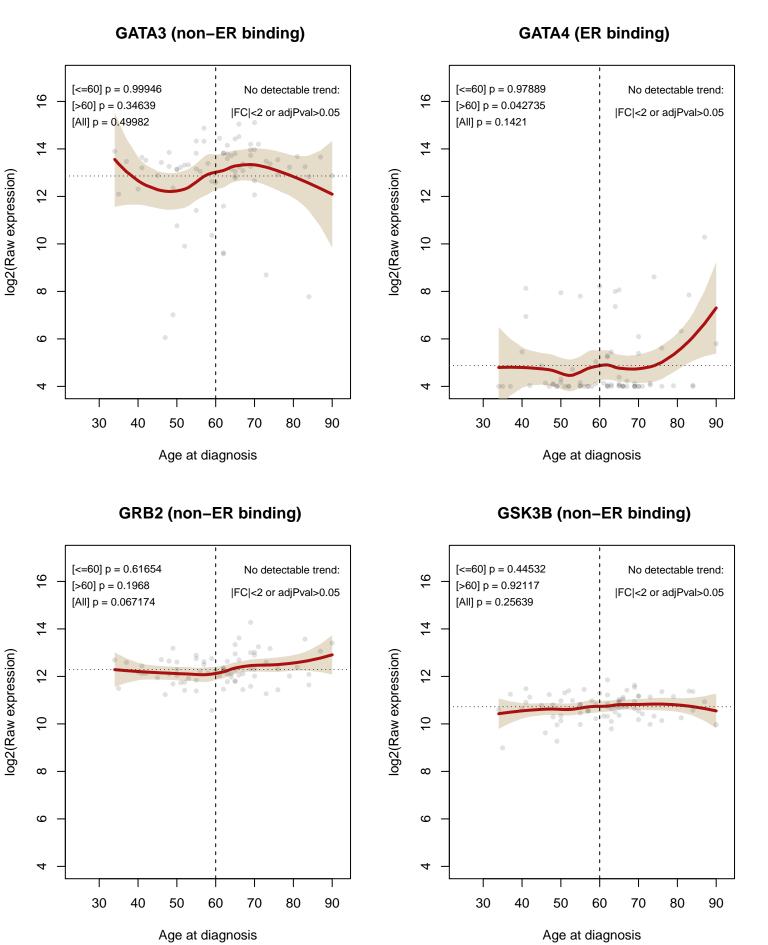


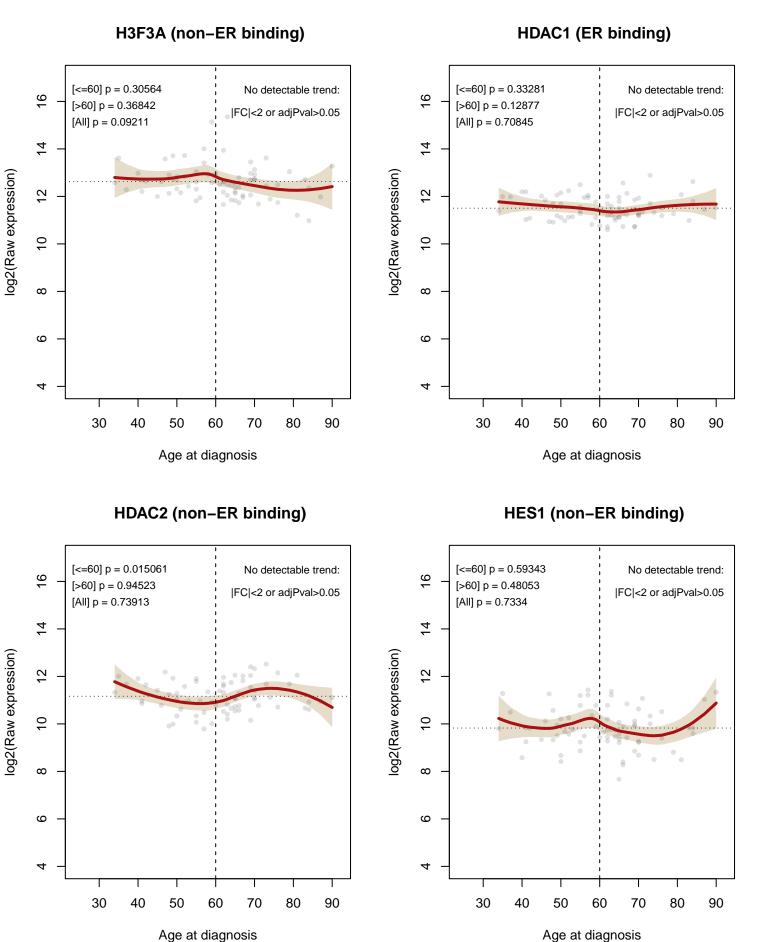
FOXA1 (ER binding)

FOXC1 (ER binding)



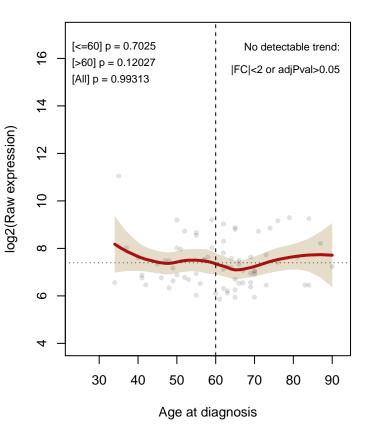


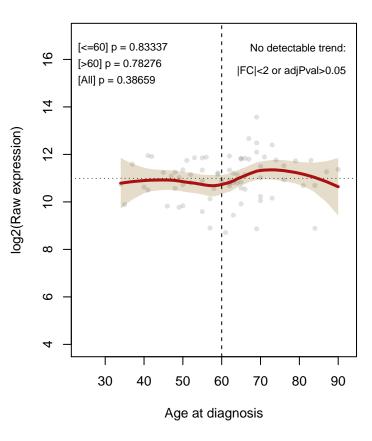






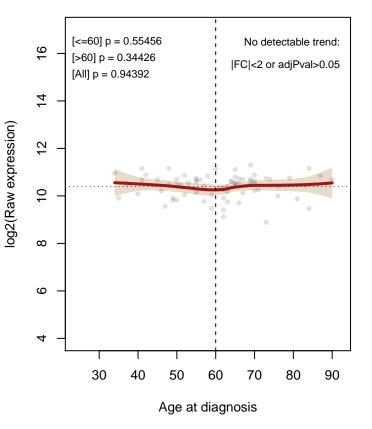
HIF1A (non-ER binding)

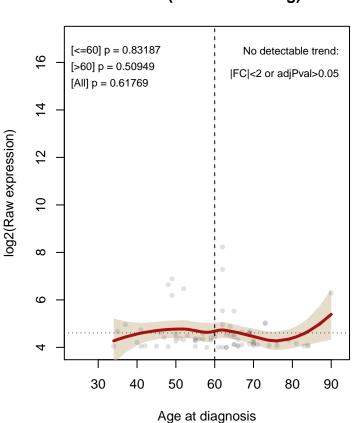




HIF1AN (non-ER binding)

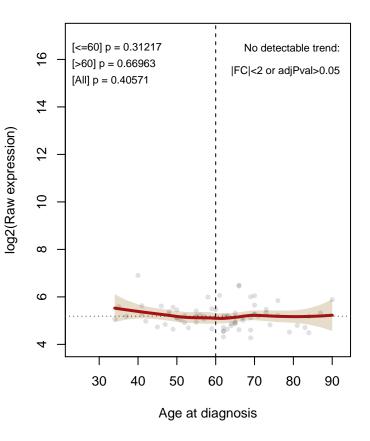
HIF3A (non-ER binding)

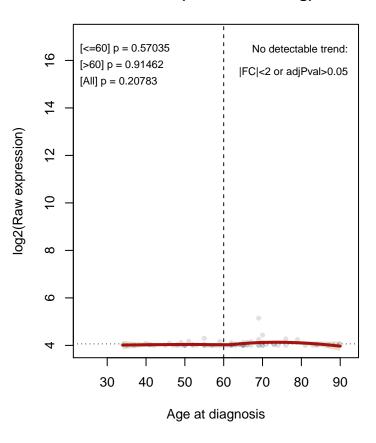




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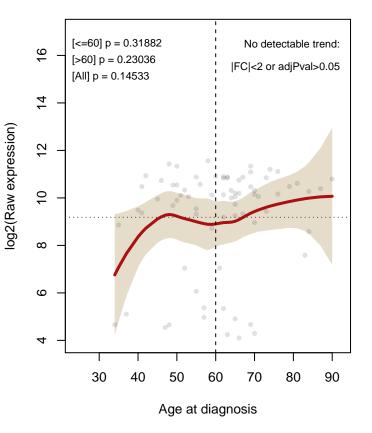
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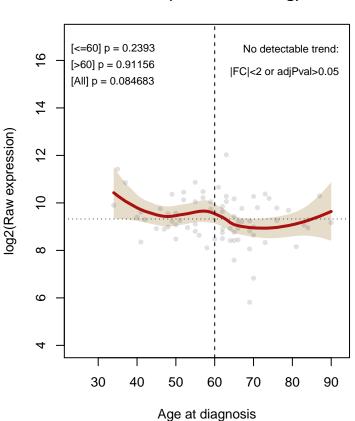


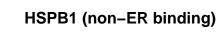


HOXC10 (non-ER binding)

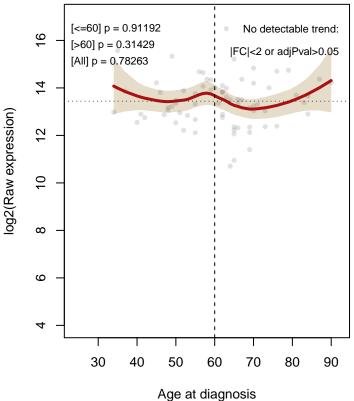
HRAS (non-ER binding)

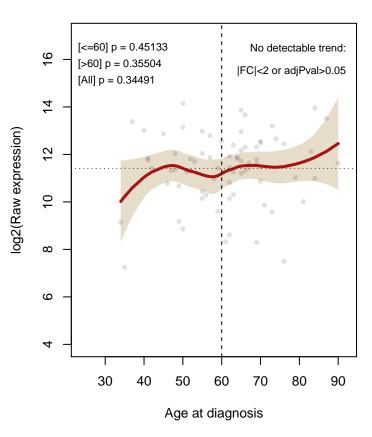






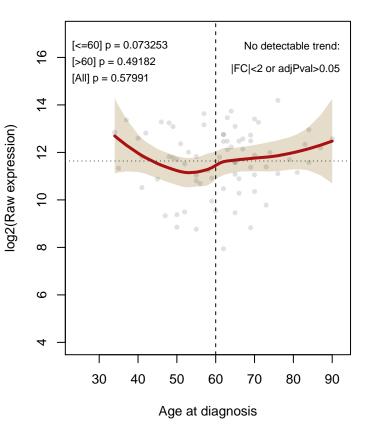
IGF1R (ER binding)

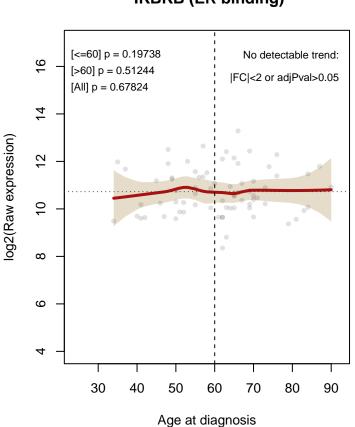




IGFBP2 (non-ER binding)

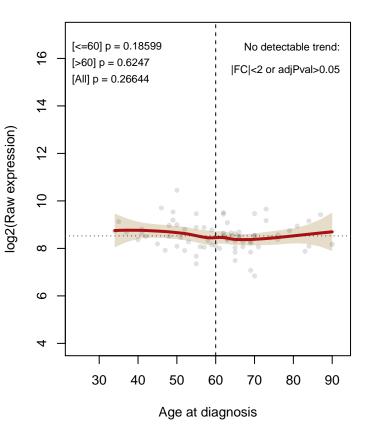
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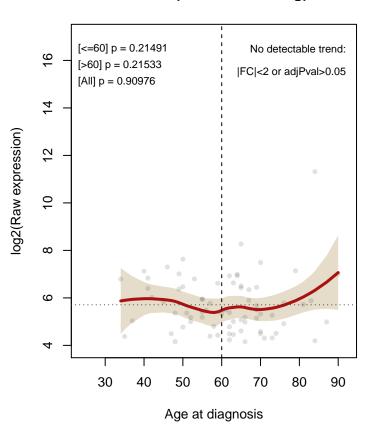






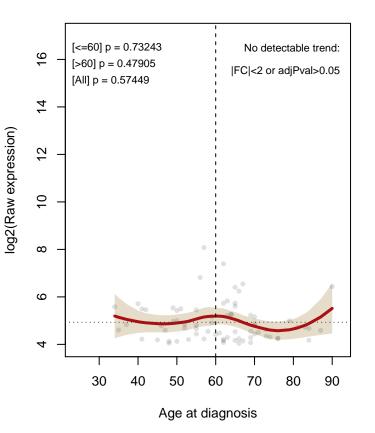
IL2RA (non-ER binding)

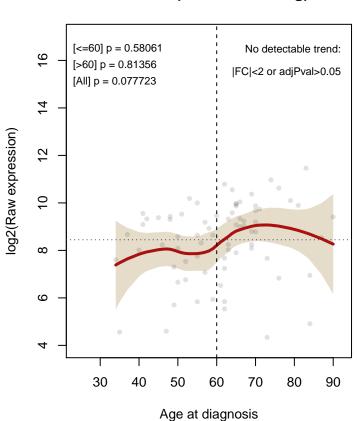


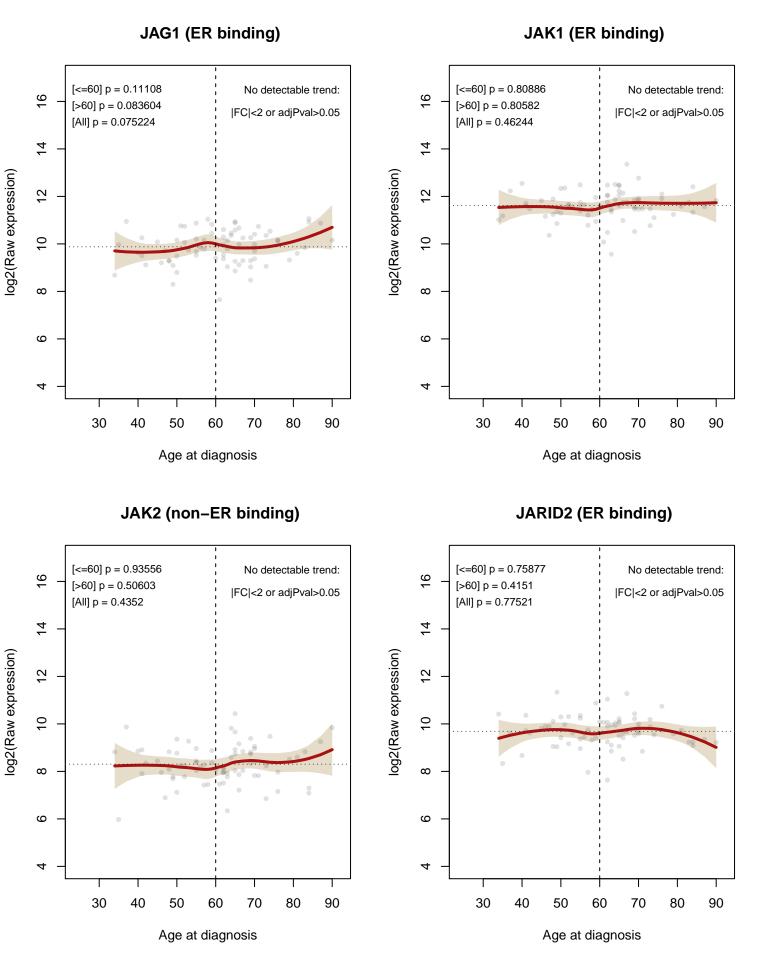


IL6 (non-ER binding)

INPP4B (non-ER binding)

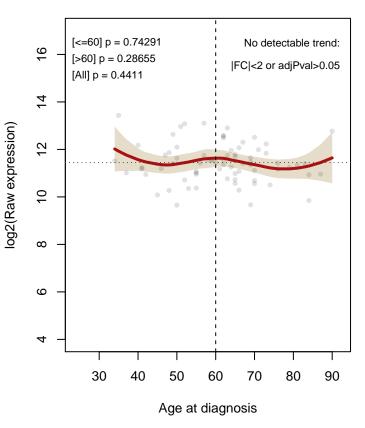


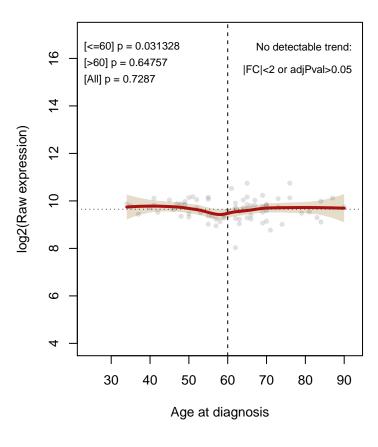






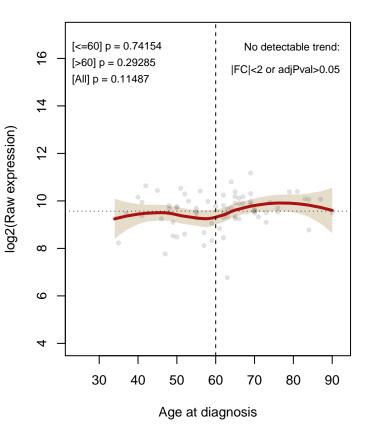
KDM2B (non-ER binding)

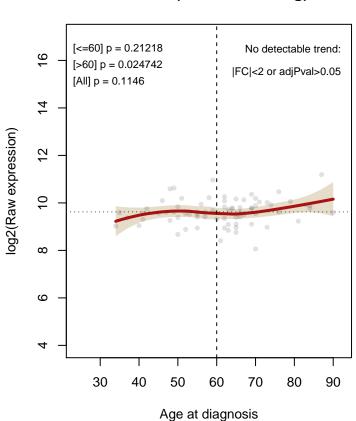




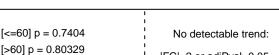
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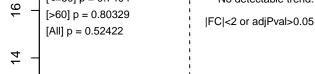
KDM6B (non-ER binding)













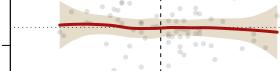
log2(Raw expression)

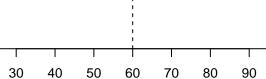
12

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ω

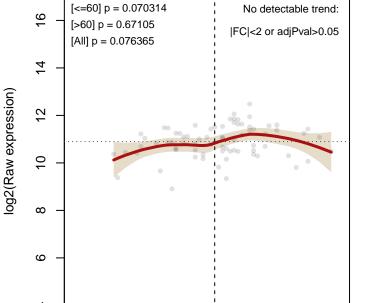
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Age at diagnosis

KMT2C (non-ER binding)



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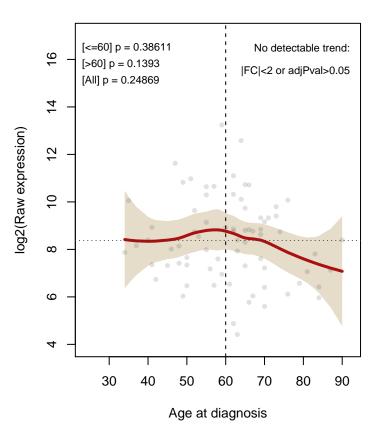
Age at diagnosis

70

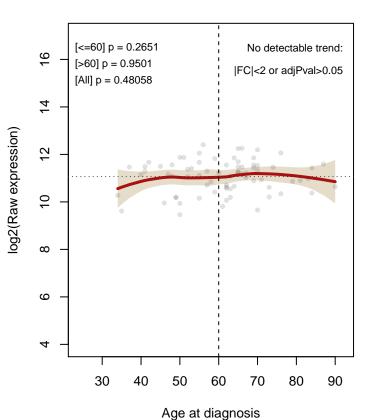
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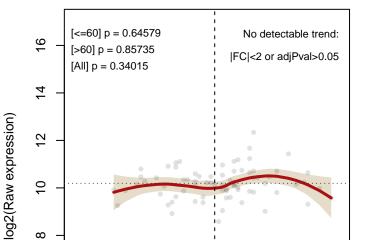
KIT (non-ER binding)



KMT2D (non-ER binding)



KRAS (non-ER binding)



ω

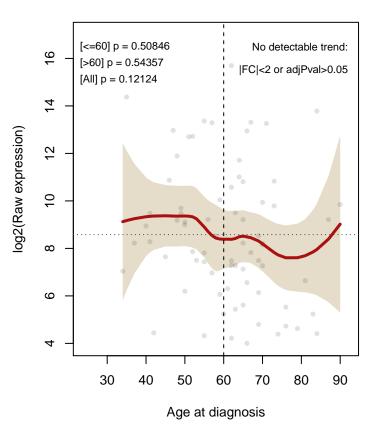
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KRT5 (non-ER binding)



L3MBTL1 (non-ER binding)

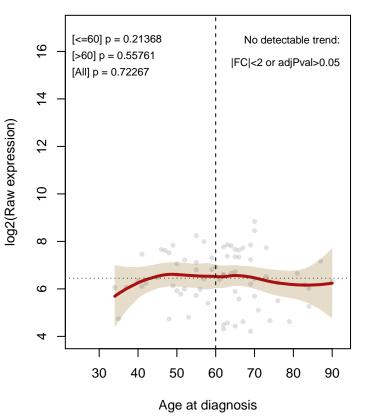
Age at diagnosis

60

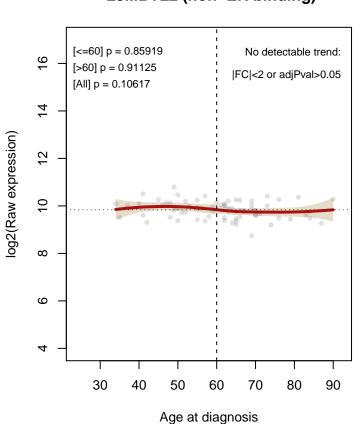
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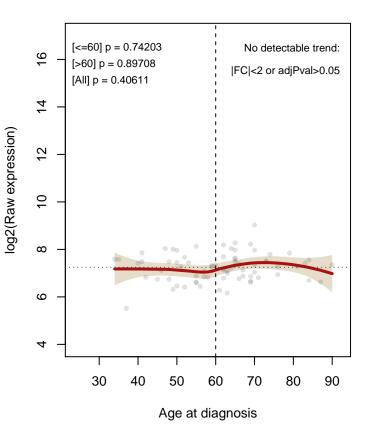


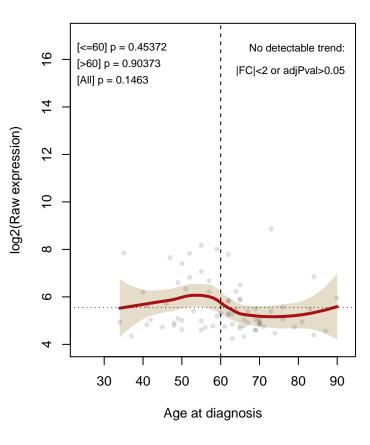
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

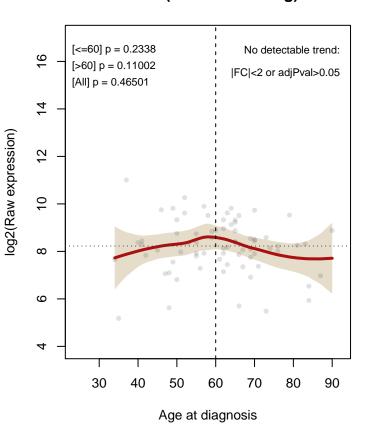
L3MBTL4 (non-ER binding)

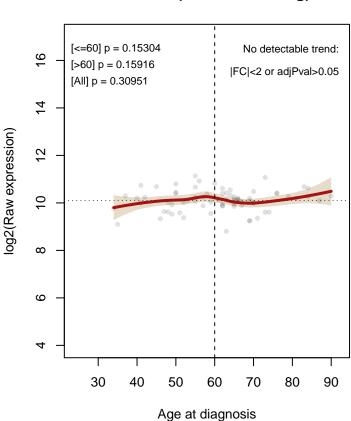




LEF1 (non-ER binding)

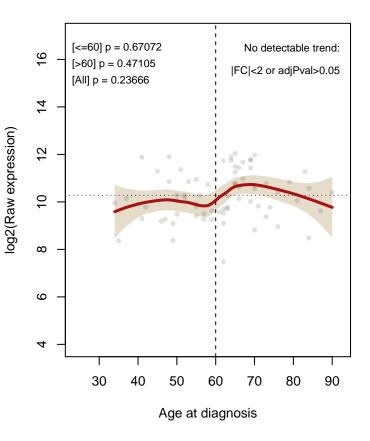
MAP2K1 (non-ER binding)

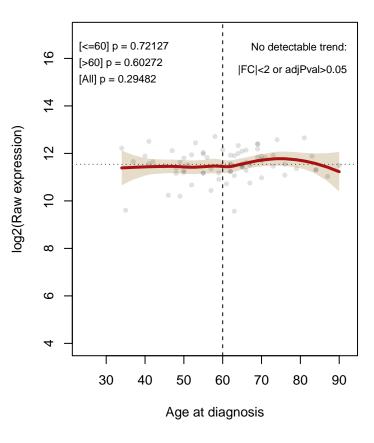






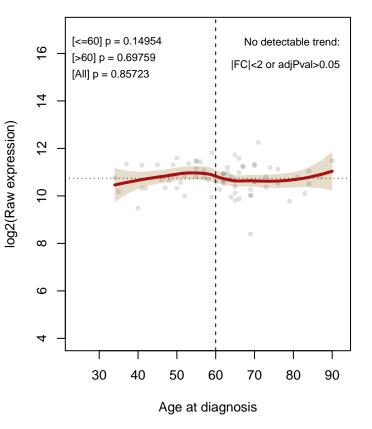
MAPK1 (non-ER binding)

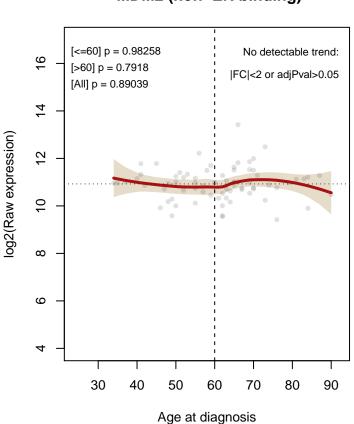


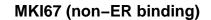


MAPK3 (non-ER binding)

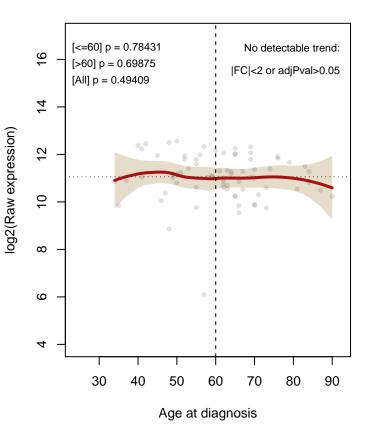
MDM2 (non-ER binding)

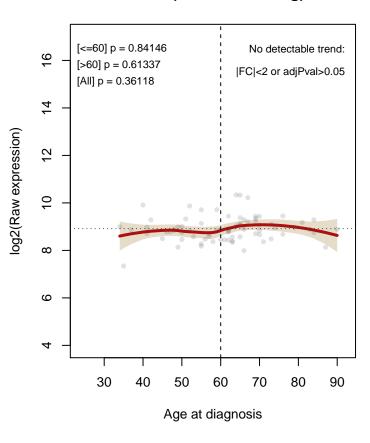






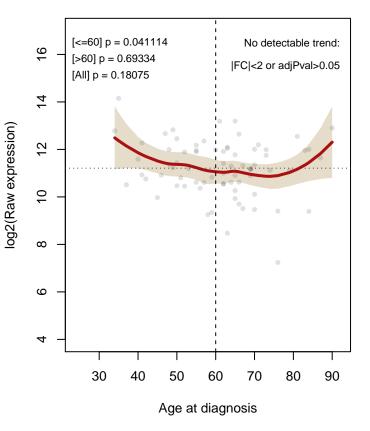
MTF2 (non-ER binding)

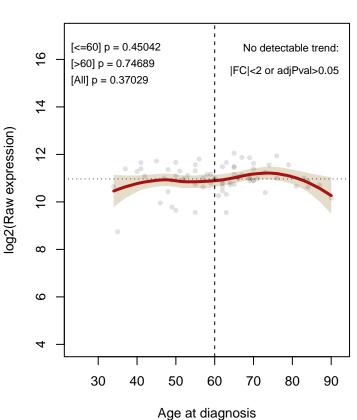


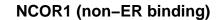


MYC (non-ER binding)

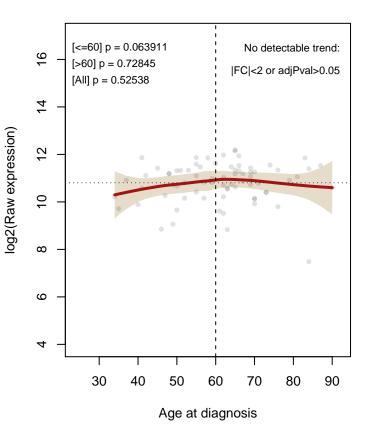
NCOA6 (non-ER binding)

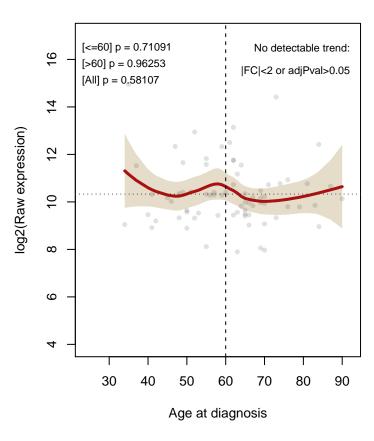






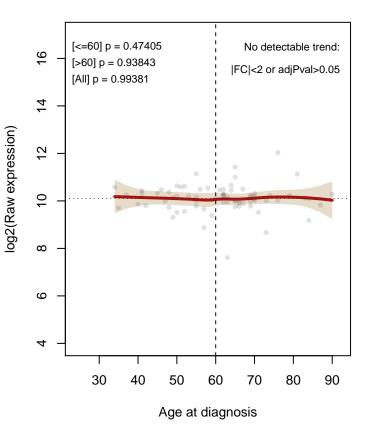
NES (non-ER binding)

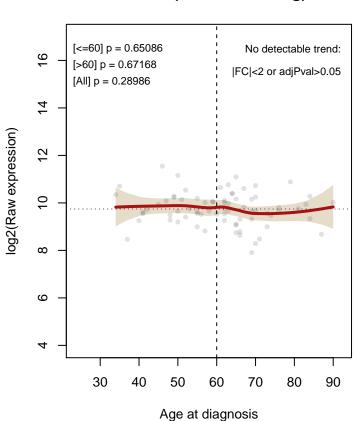




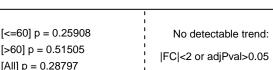
NFKB1 (non-ER binding)

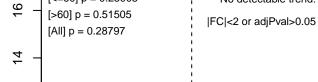
NFKB2 (non-ER binding)

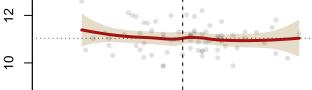




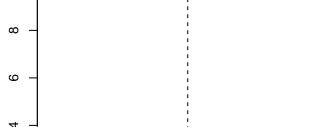
NFKBIA (non-ER binding)







log2(Raw expression)



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Age at diagnosis

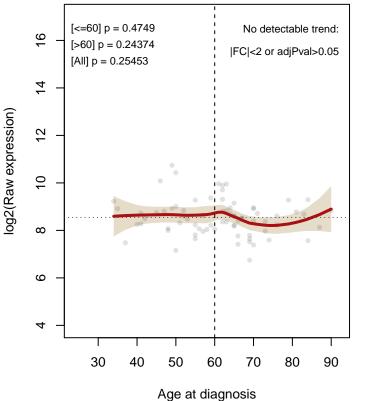
NFKBIE (non-ER binding)

60

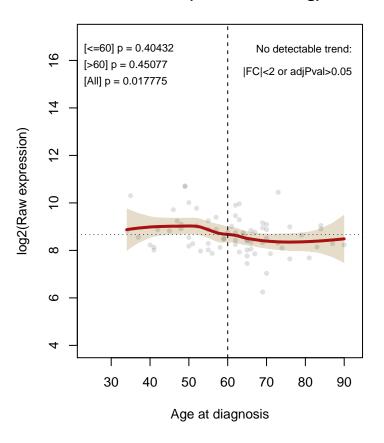
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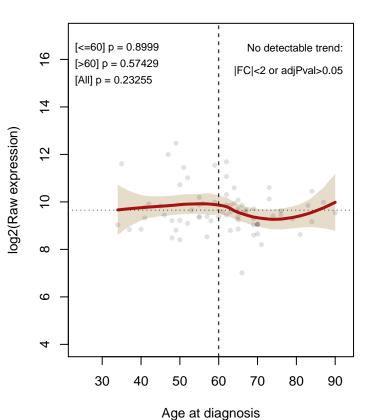
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NFKBIB (non-ER binding)

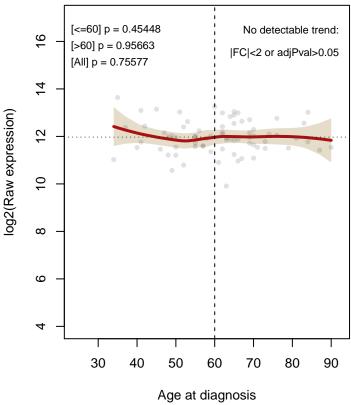


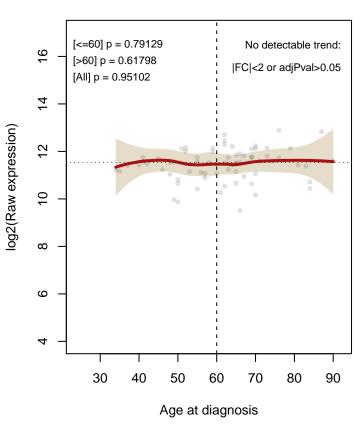
NOTCH1 (non-ER binding)



NOTCH2 (non-ER binding)

NOTCH3 (non-ER binding)



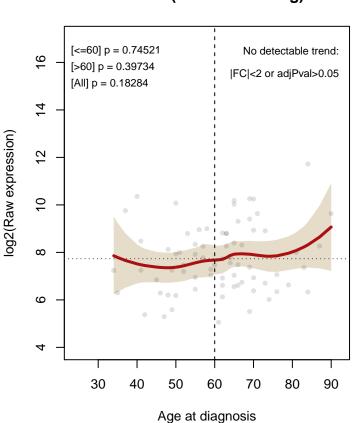


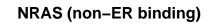
NOTCH4 (non-ER binding)

[<=60] p = 0.037031No detectable trend: 16 [>60] p = 0.44746 |FC|<2 or adjPval>0.05 [AII] p = 0.655984 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

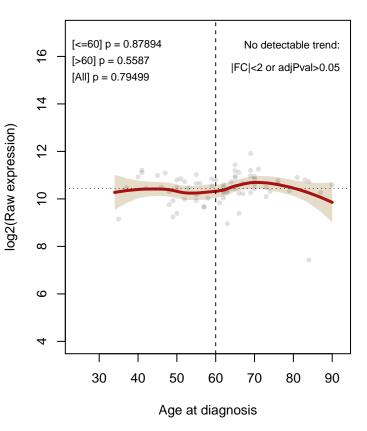
Age at diagnosis

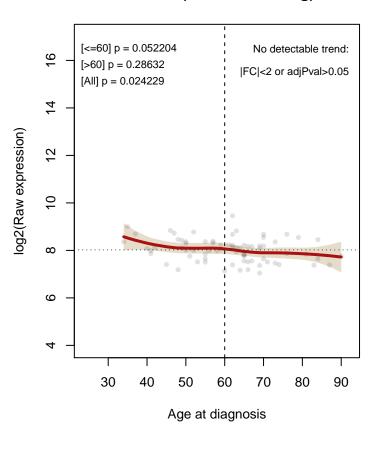
NR4A2 (non-ER binding)





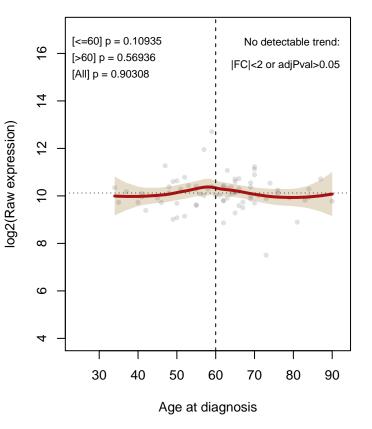
PCGF1 (non-ER binding)

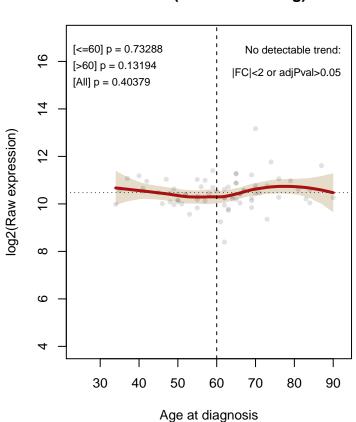




PCGF2 (non-ER binding)

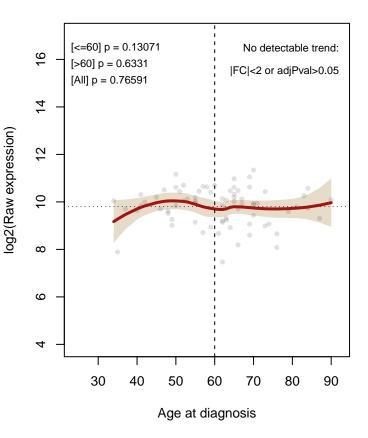
PCGF3 (non-ER binding)

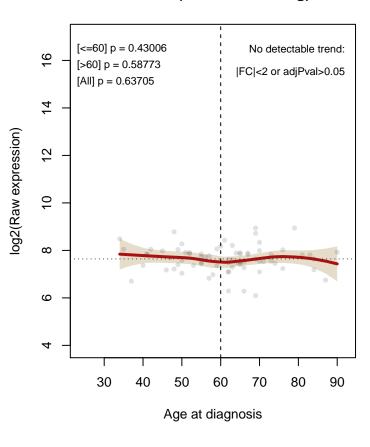






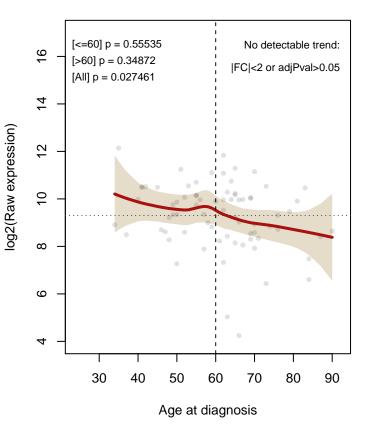
PCGF6 (non-ER binding)

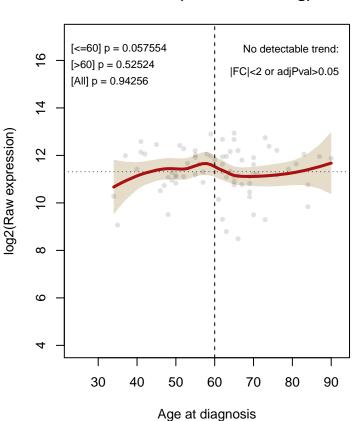




PDGFRA (non-ER binding)

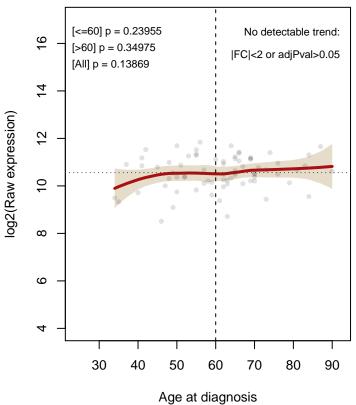
PDGFRB (non-ER binding)

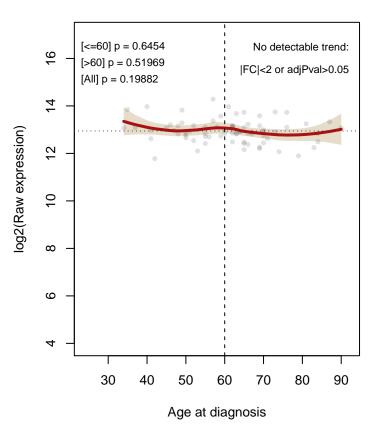






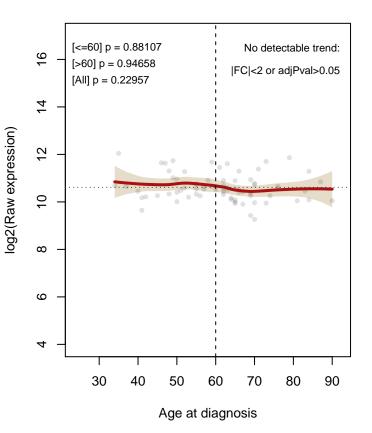
PEBP1 (non-ER binding)

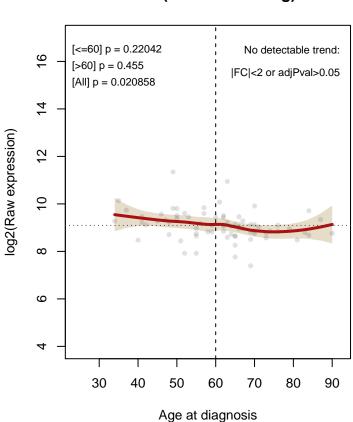


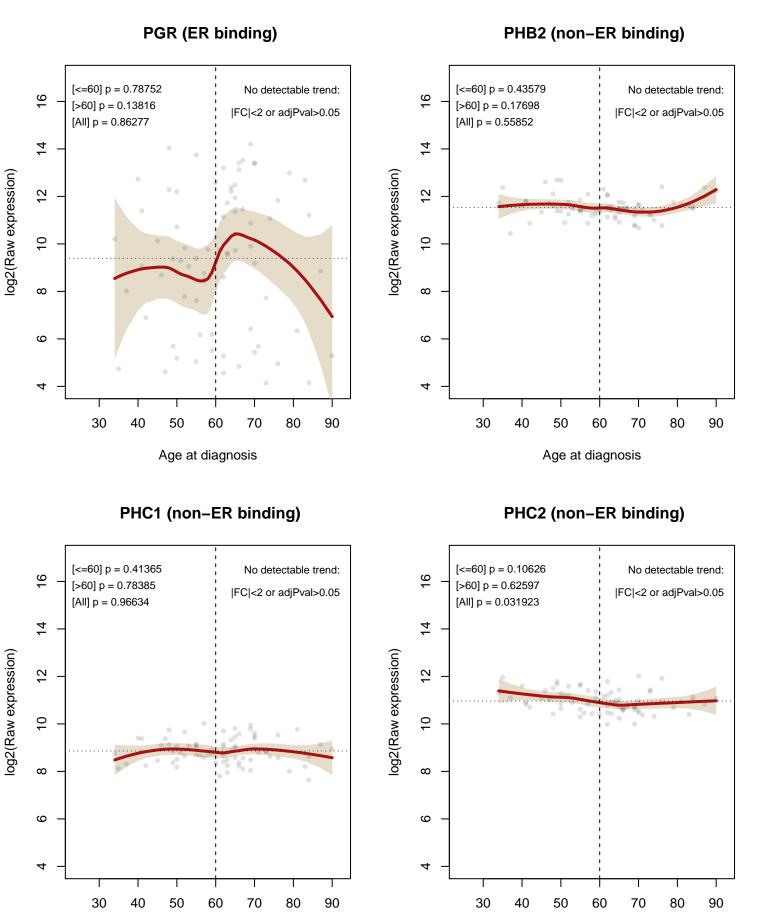


PELP1 (non-ER binding)

PGP (non-ER binding)







Age at diagnosis

Age at diagnosis

PHC3 (non-ER binding) [<=60] p = 0.23617No detectable trend: 16 [>60] p = 0.39553 |FC|<2 or adjPval>0.05 [All] p = 0.0267914 log2(Raw expression) 12 10

ω

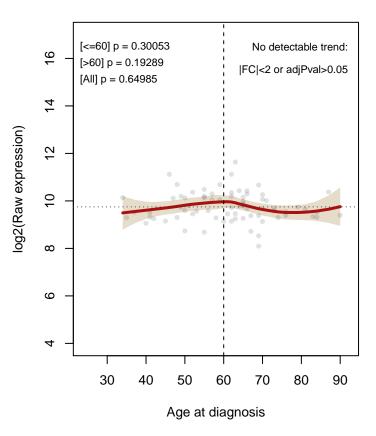
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PHF1 (non-ER binding)



PHF19 (non-ER binding)

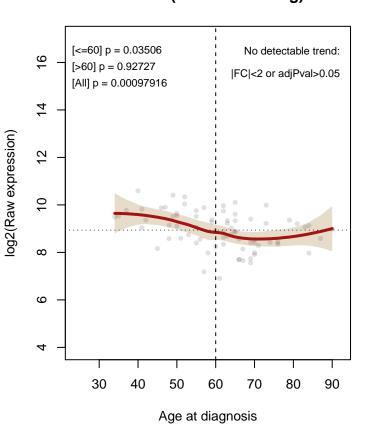
Age at diagnosis

60

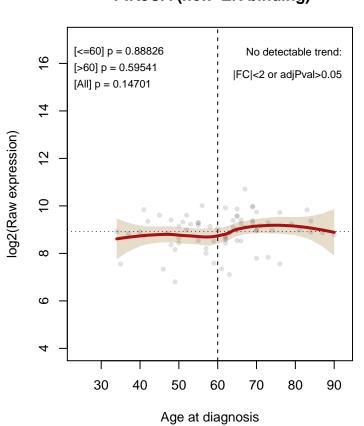
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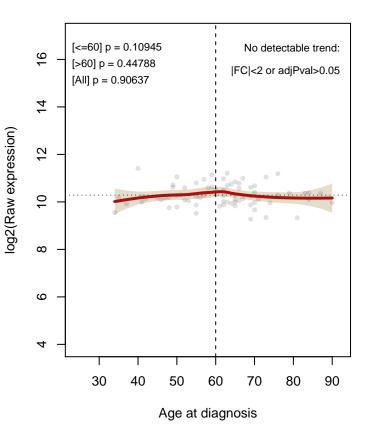


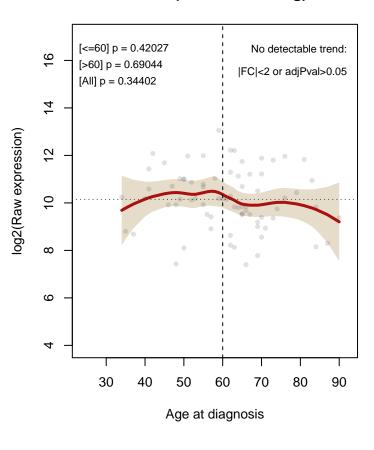
PIK3CA (non-ER binding)





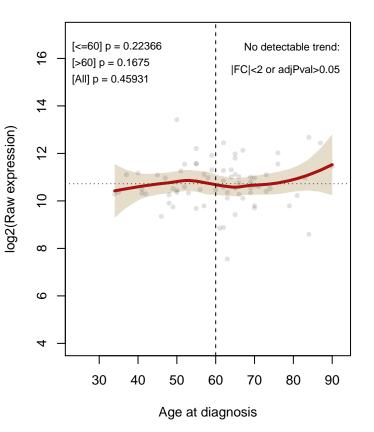
PLAU (non-ER binding)

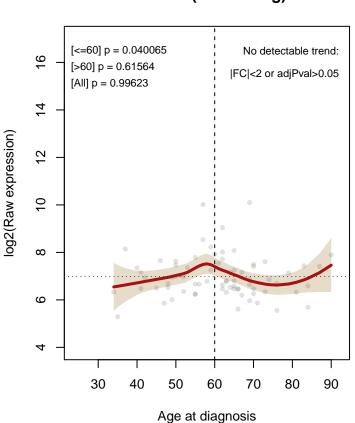




PODXL (non-ER binding)

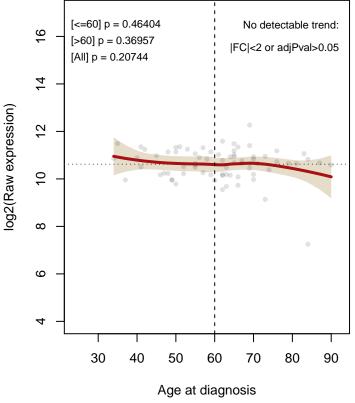
PPARG (ER binding)

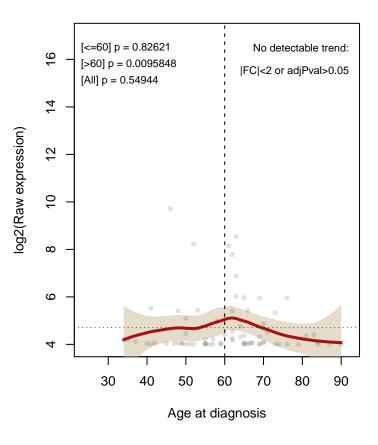






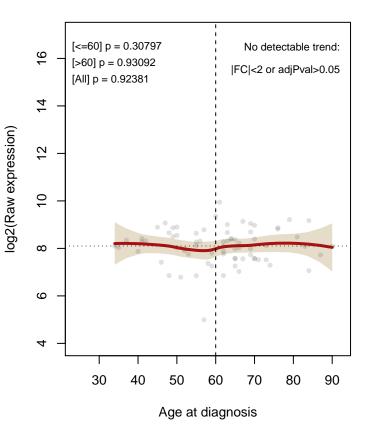
PYDC1 (non-ER binding)

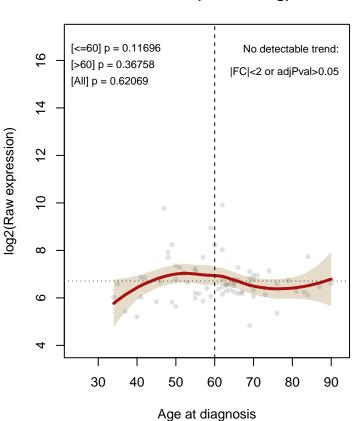




RAD51 (non-ER binding)

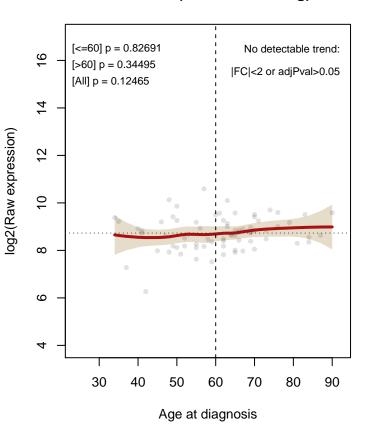
RAD51B (ER binding)

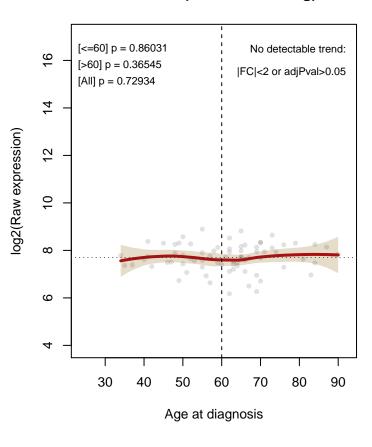




RAD51C (non-ER binding)

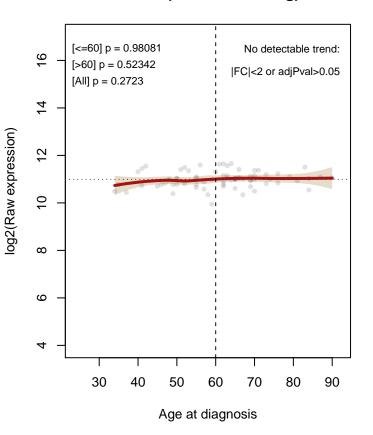
RAD51D (non-ER binding)

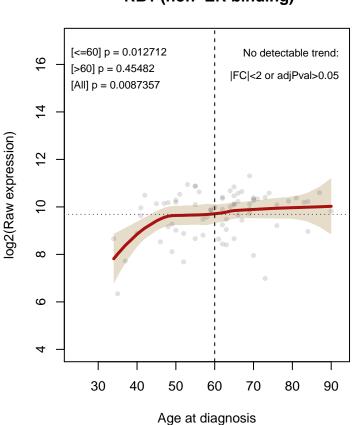




RAF1 (non-ER binding)

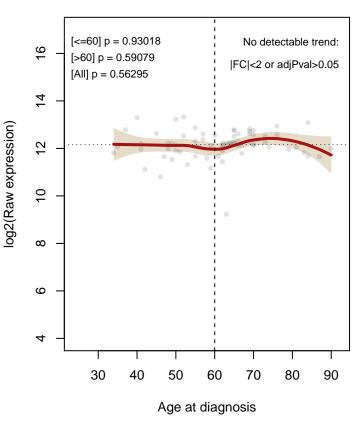
RB1 (non-ER binding)

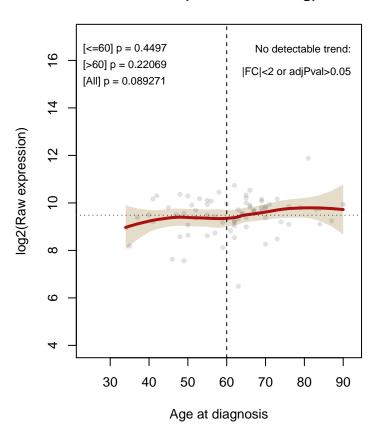






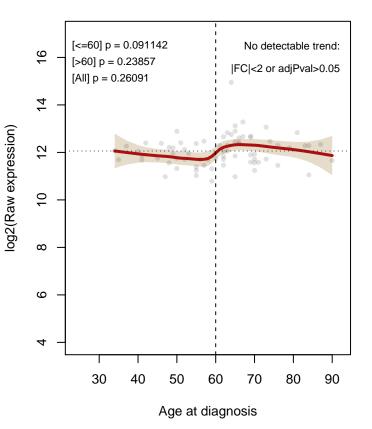
RBBP5 (non-ER binding)

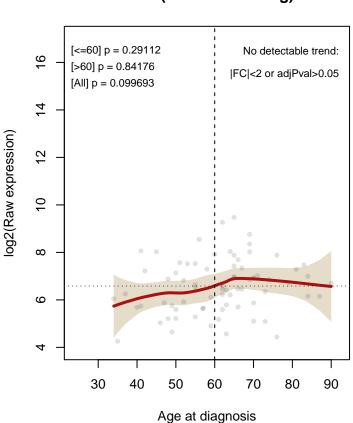


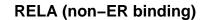


RBBP7 (non-ER binding)

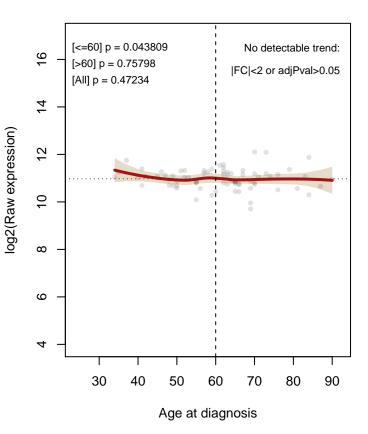
REL (non-ER binding)

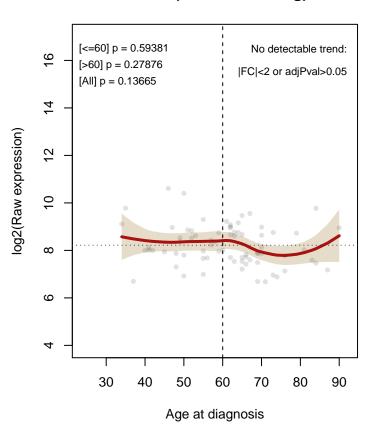






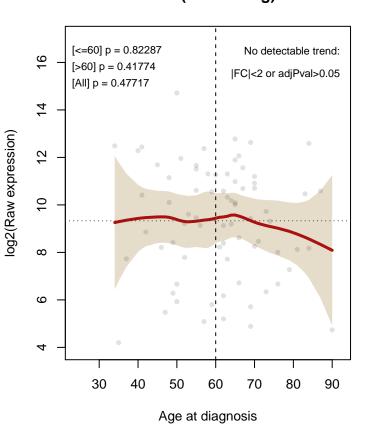
RELB (non-ER binding)

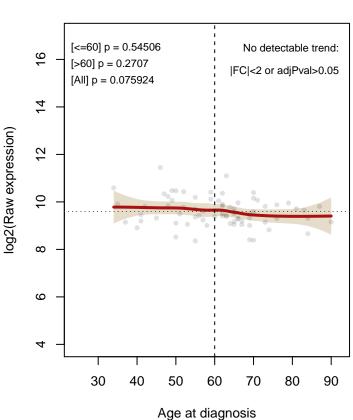




RET (ER binding)

RING1 (non-ER binding)





RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.42008No detectable trend: [<=60] p = 0.91441No detectable trend: 16 16 [>60] p = 0.54956 [>60] p = 0.67537 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.95711[AII] p = 0.798084 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.18928No detectable trend: [<=60] p = 0.0093796 No detectable trend: 16 16 [>60] p = 0.37036 [>60] p = 0.13021 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.030723[AII] p = 0.00018264 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

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Age at diagnosis

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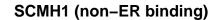
60

Age at diagnosis

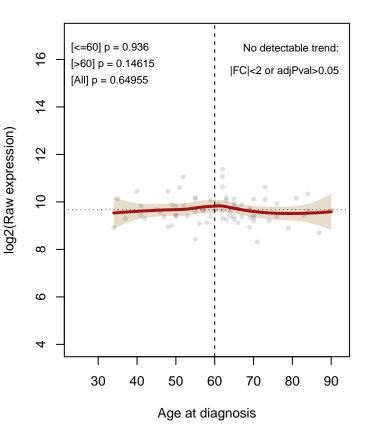
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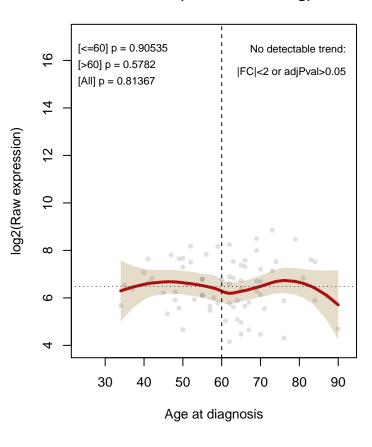
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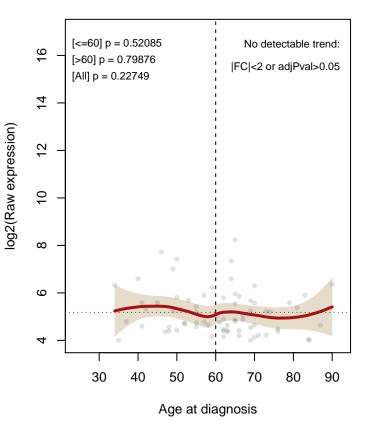
SCML2 (non-ER binding)

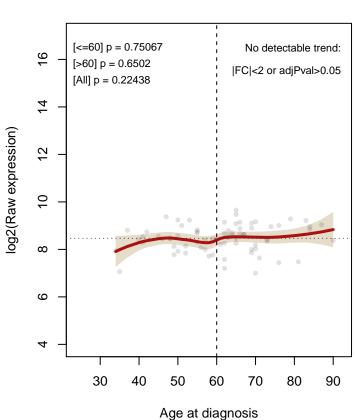




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.54788No detectable trend: [<=60] p = 0.02803No detectable trend: 16 16 [>60] p = 0.73739 [>60] p = 0.90676 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.23645[AII] p = 0.61084 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 SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.20758No detectable trend: [<=60] p = 0.022501No detectable trend: 16 16 [>60] p = 0.29269 [>60] p = 0.85561 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.12965[All] p = 0.0140334 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

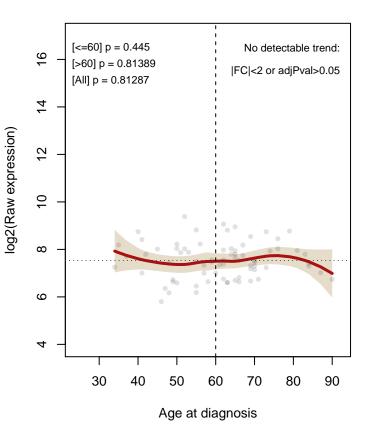
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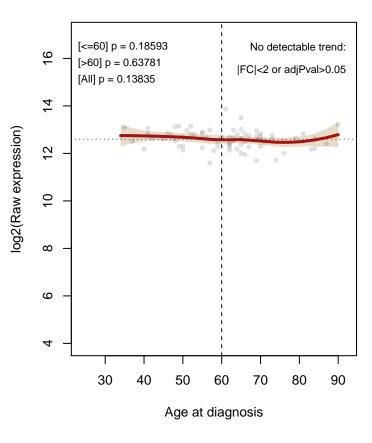
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SKP2 (non-ER binding)

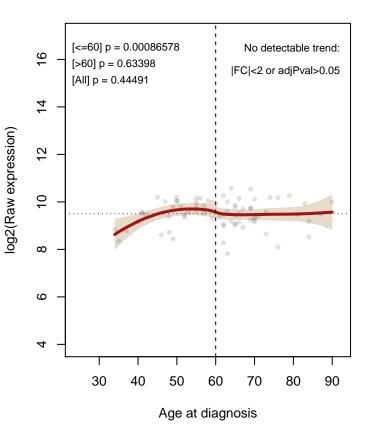
SLC25A3 (non-ER binding)

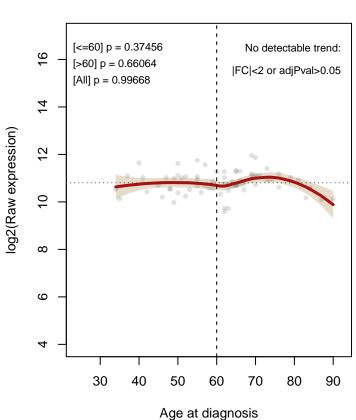


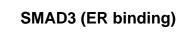


SMAD1 (non-ER binding)

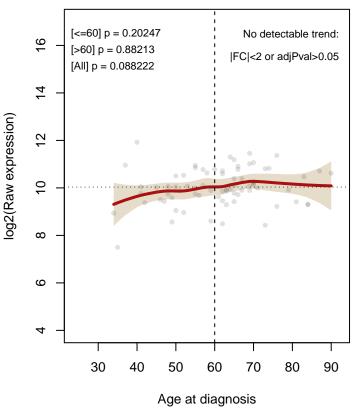
SMAD2 (non-ER binding)

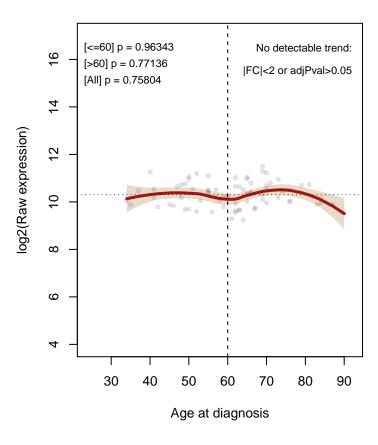






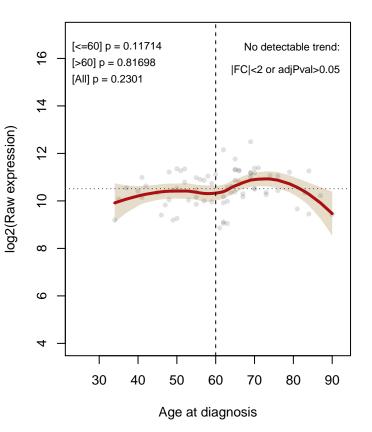
SMAD4 (non-ER binding)

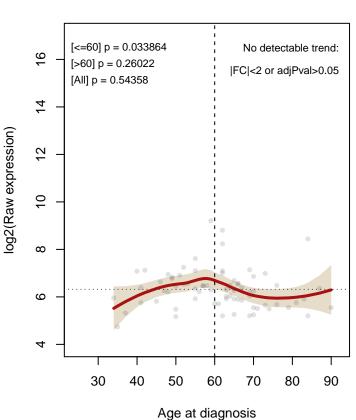


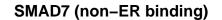


SMAD5 (non-ER binding)

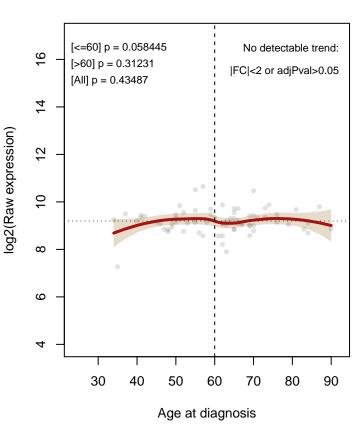
SMAD6 (non-ER binding)

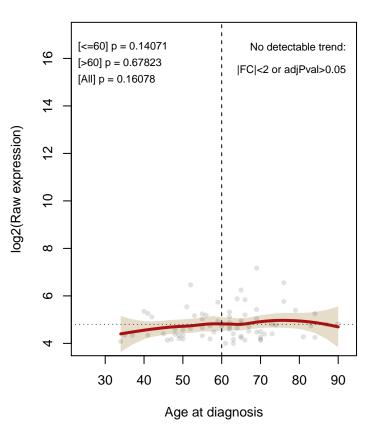






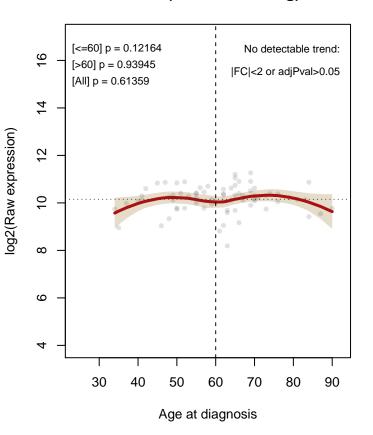
SMAD9 (non-ER binding)

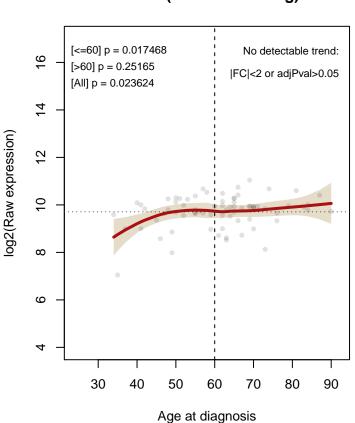


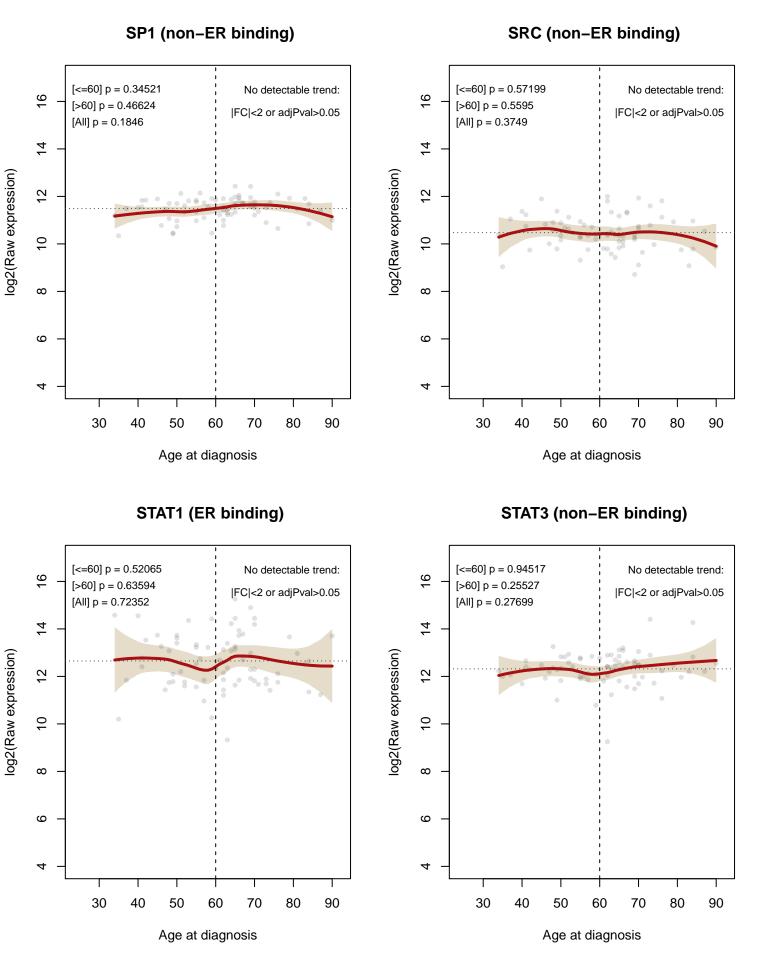


SOS1 (non-ER binding)

SOS2 (non-ER binding)

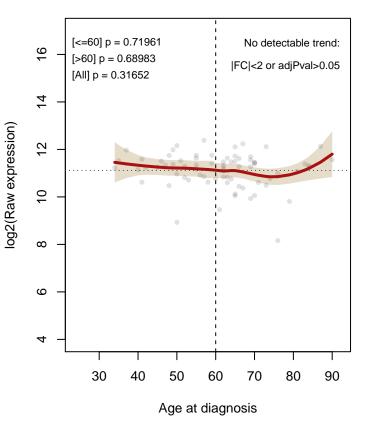


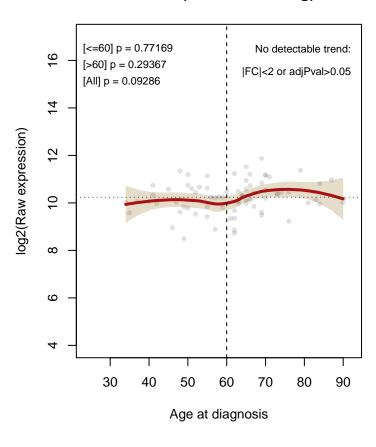






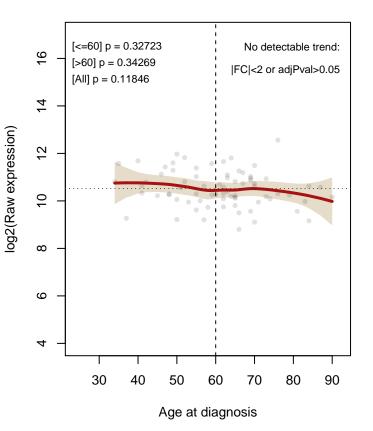
SUZ12 (non-ER binding)

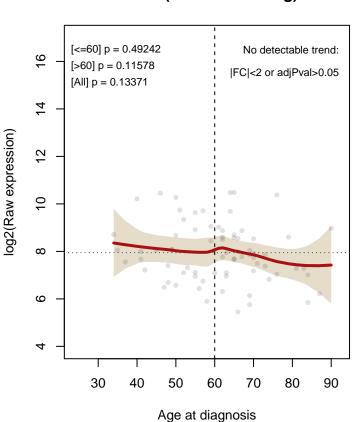




TCF3 (non-ER binding)

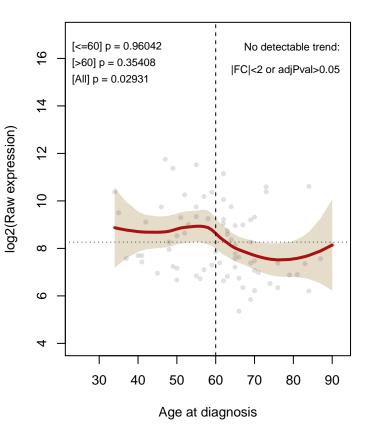
TCF7 (non-ER binding)

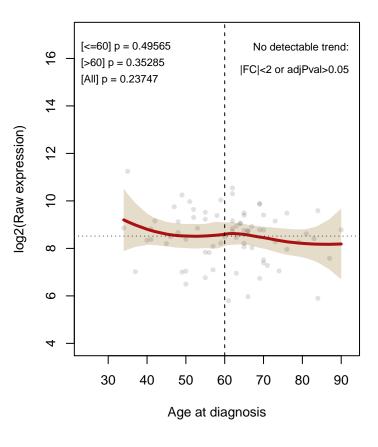






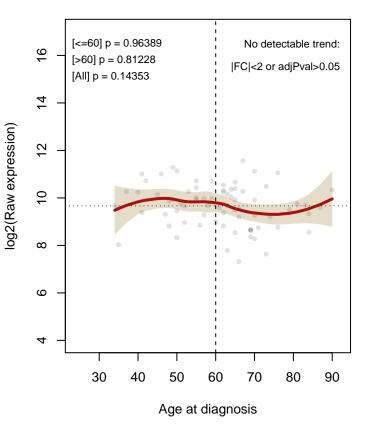
ing) TCF7L2 (non–ER binding)

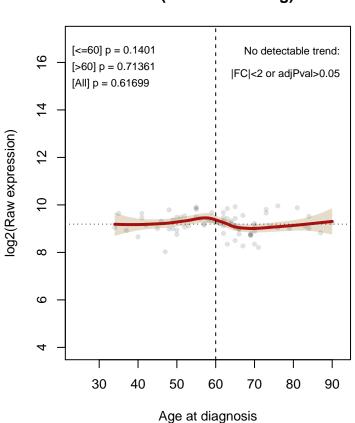


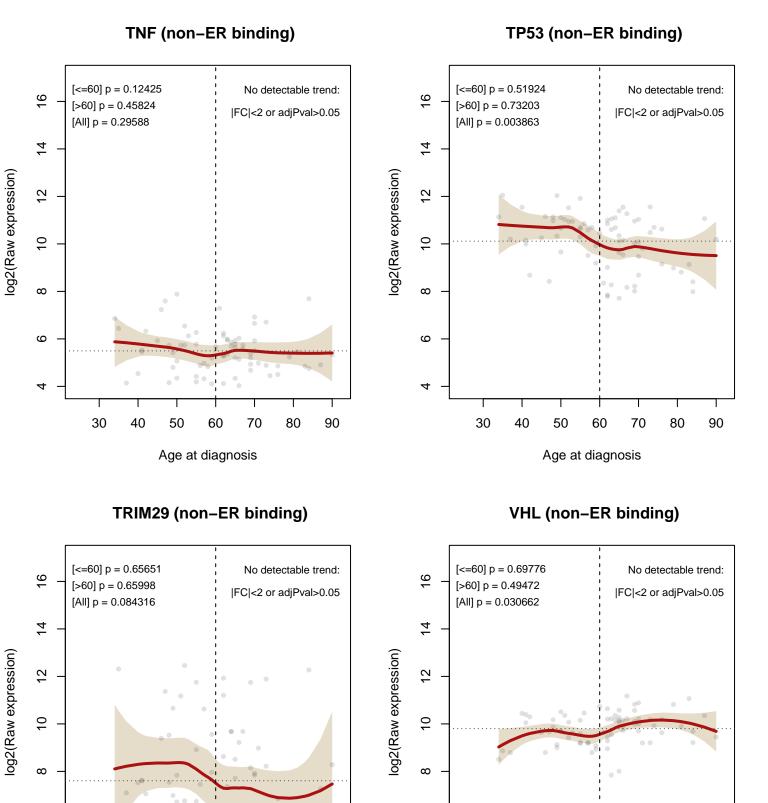


TGFB1 (non-ER binding)

TK2 (non-ER binding)

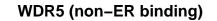




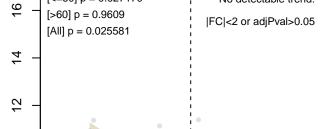


Age at diagnosis

Age at diagnosis



[<=60] p = 0.027179 No detectable trend:



0 -

log2(Raw expression)



50

30

40

WNT1 (non-ER binding)

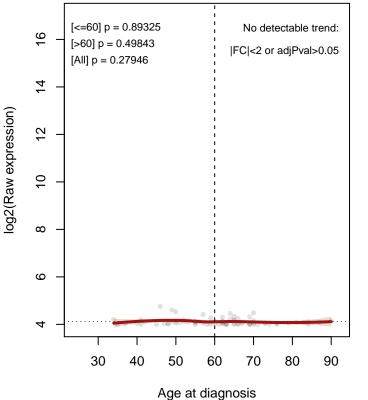
Age at diagnosis

60

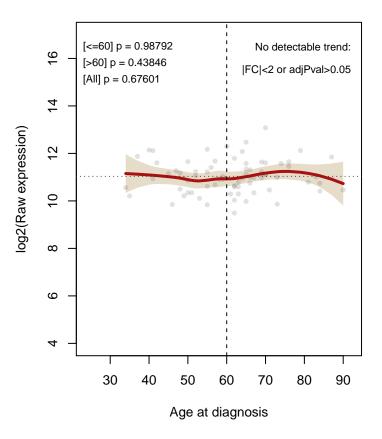
70

80

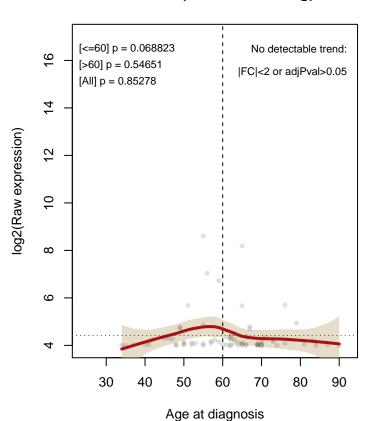
90



WHSC1 (non-ER binding)

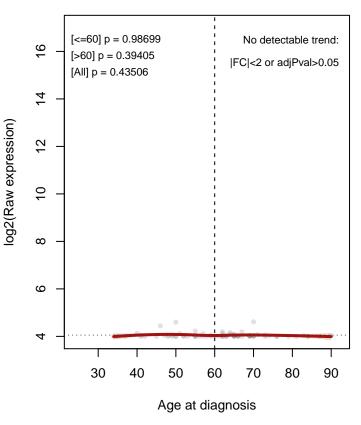


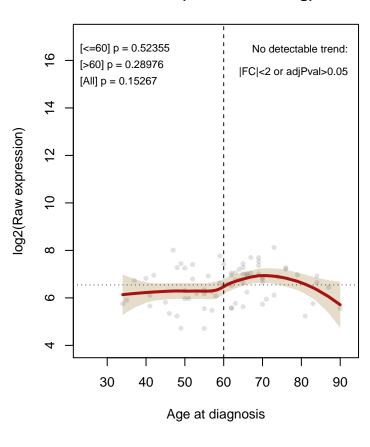
WNT3A (non-ER binding)





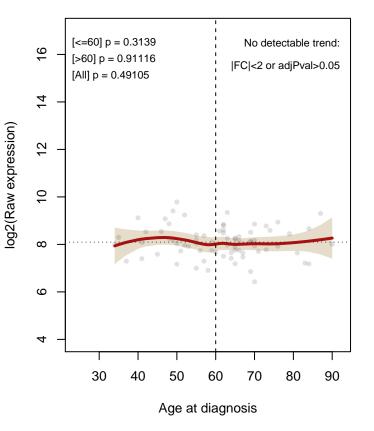
XRCC2 (non-ER binding)

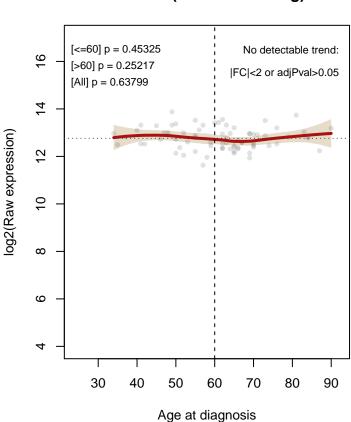




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

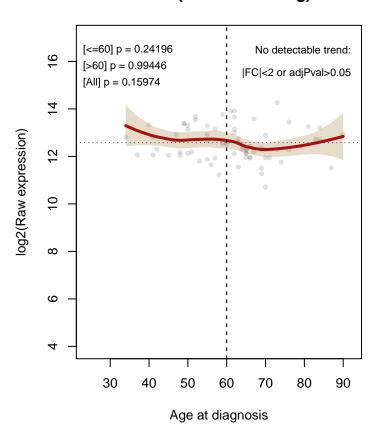




YAF2 (non-ER binding)

[<=60] p = 0.87198No detectable trend: 16 [>60] p = 0.40464 |FC|<2 or adjPval>0.05 [All] p = 0.921334 log2(Raw expression) 12 10 ∞ 9 4 30 40 50 60 70 80 90

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

