

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.65451No detectable trend: [<=60] p = 0.80638No detectable trend: 16 16 [>60] p = 0.63189 [>60] p = 0.02709 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.69645[All] p = 0.696874 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 ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.19413No detectable trend: [<=60] p = 0.8312No detectable trend: 16 16 [>60] p = 0.78238 [>60] p = 0.8344|FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.22163[AII] p = 0.996924 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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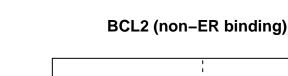
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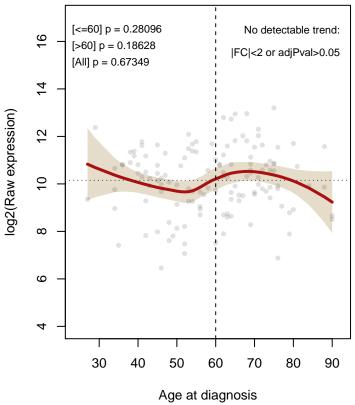
Age at diagnosis

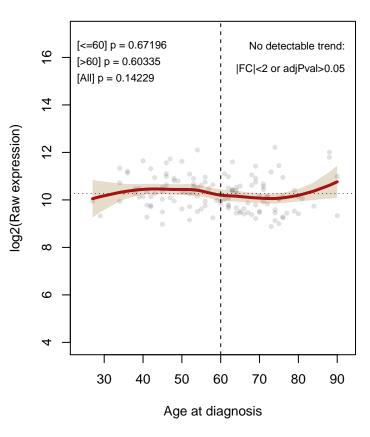
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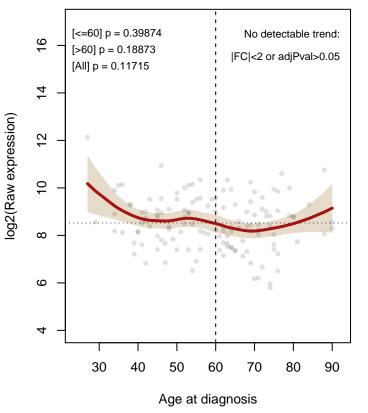


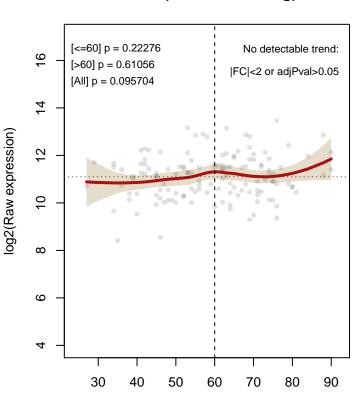




BIRC5 (non-ER binding)

BMI1 (non-ER binding)





Age at diagnosis

BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.68381No detectable trend: [<=60] p = 0.71906No detectable trend: 16 16 [>60] p = 0.019556 [>60] p = 0.054486 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.97195[All] p = 0.114544 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 CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.39206No detectable trend: [<=60] p = 0.55224No detectable trend: 16 16 [>60] p = 0.72163 [>60] p = 0.046372 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.69845[All] p = 0.23624 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

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Age at diagnosis

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Age at diagnosis

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CBX2 (non-ER binding) CBX4 (non-ER binding) [<=60] p = 0.021786 No detectable trend: [<=60] p = 0.20531No detectable trend: 16 16 [>60] p = 0.82602 [>60] p = 0.74559 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.52481[AII] p = 0.00983744 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 CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.11722 No detectable trend: [<=60] p = 0.72604No detectable trend: 16 16 [>60] p = 0.0030478 [>60] p = 0.052939 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.9575[All] p = 0.958264 4 log2(Raw expression) log2(Raw expression) 12 12 19 10

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Age at diagnosis

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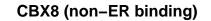
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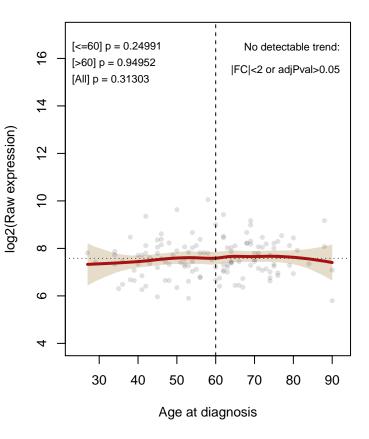
Age at diagnosis

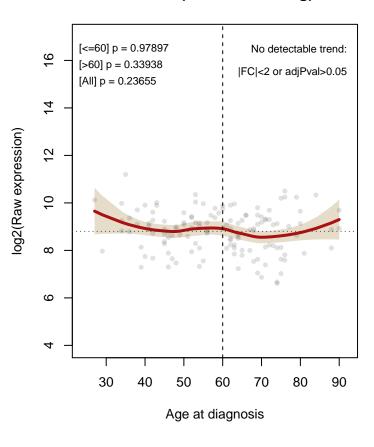
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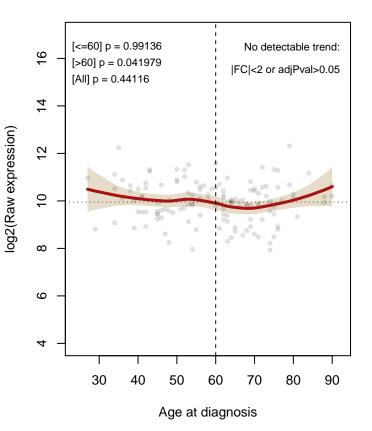
CCNA2 (non-ER binding)

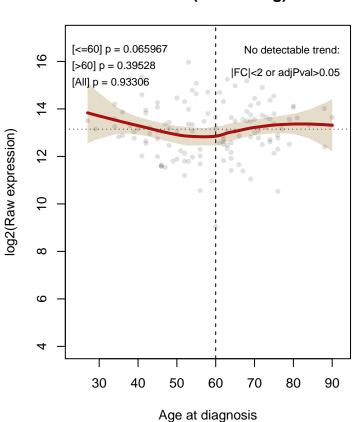


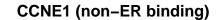


CCNB1 (non-ER binding)

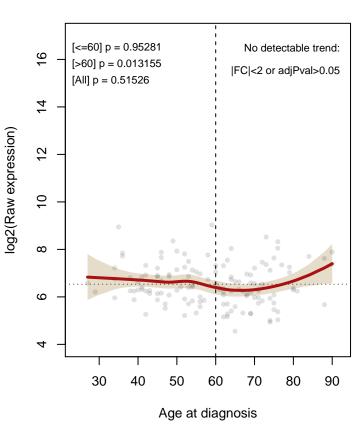
CCND1 (ER binding)

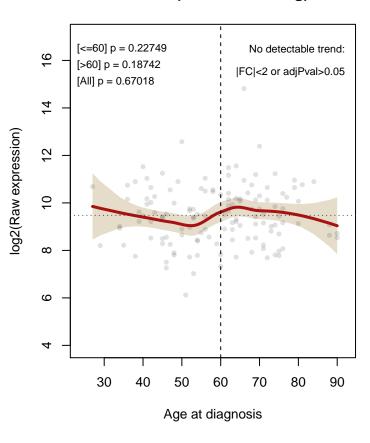






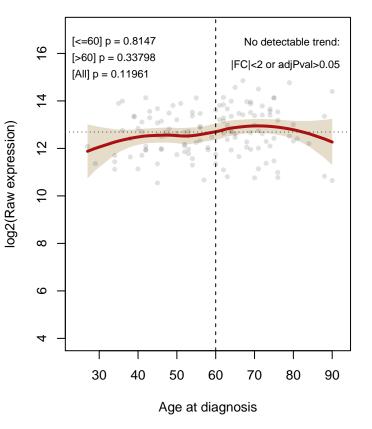
CD163 (non-ER binding)

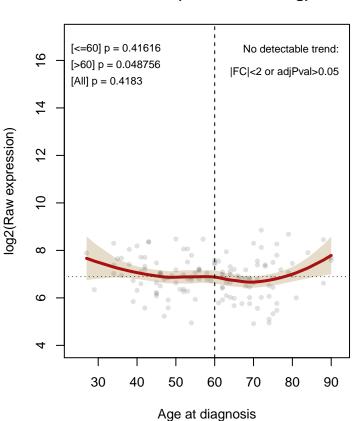


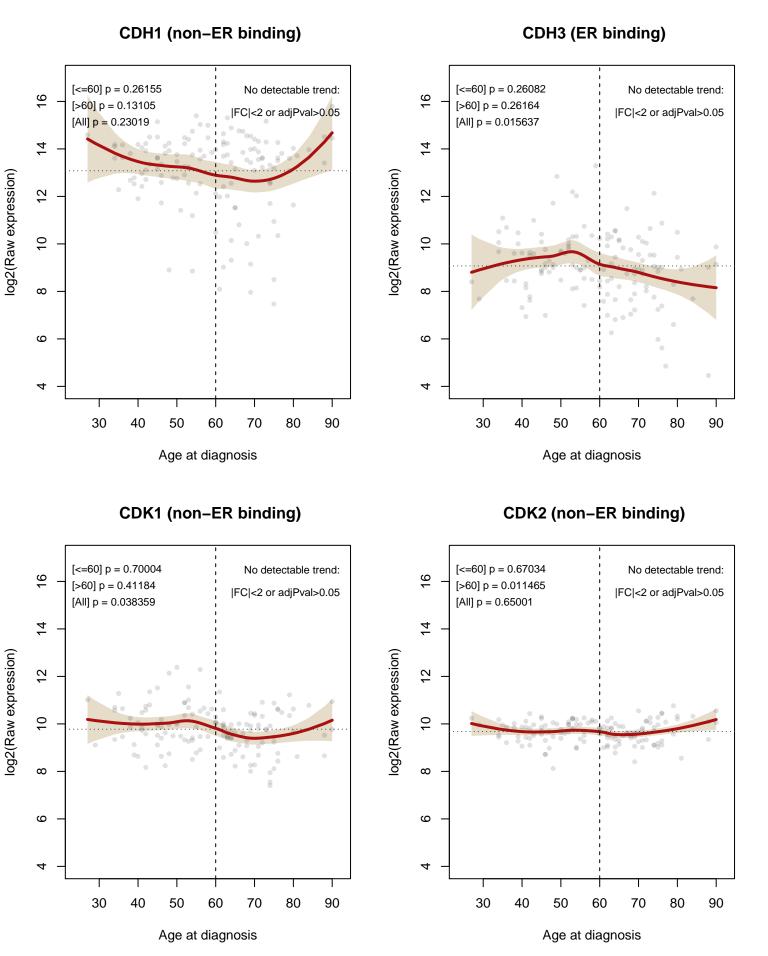


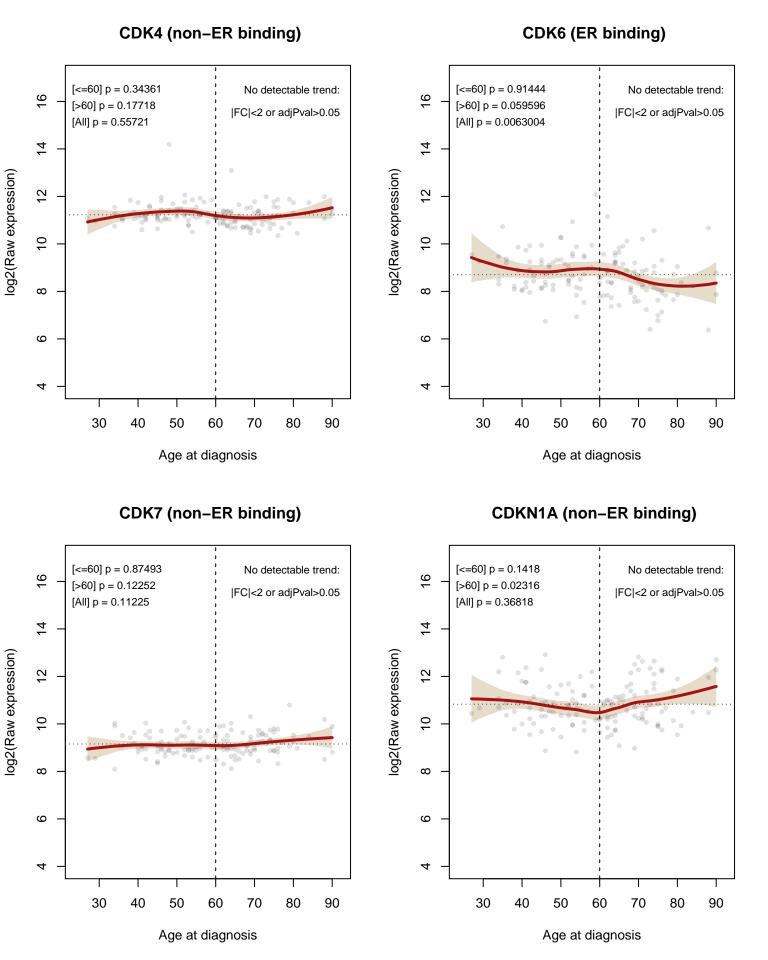
CD44 (non-ER binding)

CDC25C (non-ER binding)



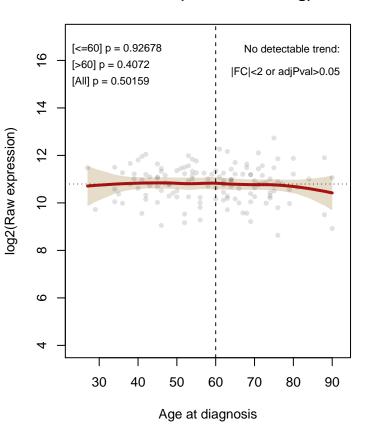


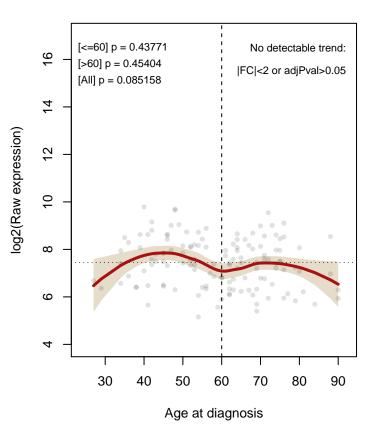




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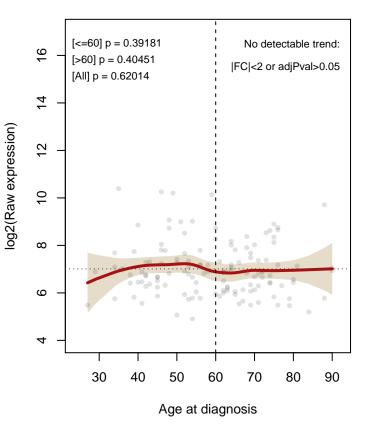
CDKN1C (non-ER binding)

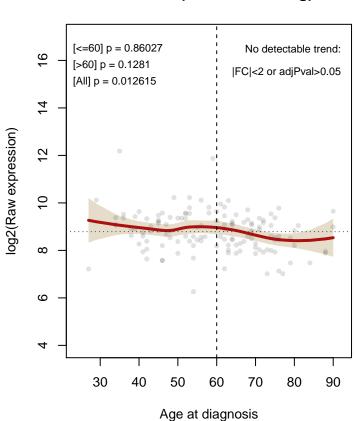


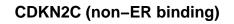


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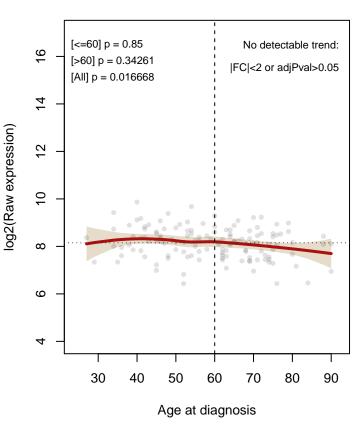
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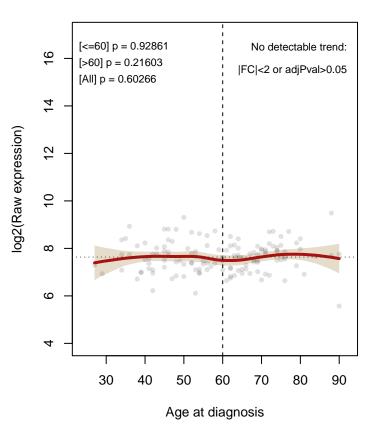






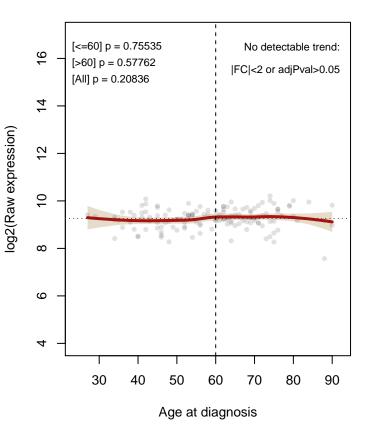
CDKN2D (non-ER binding)

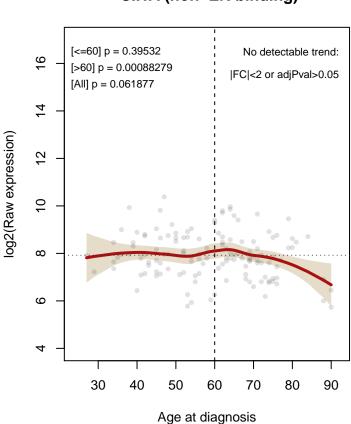




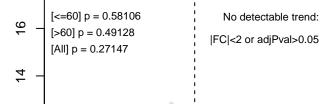
CHUK (non-ER binding)

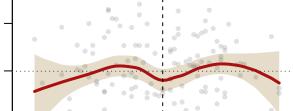
CIITA (non-ER binding)

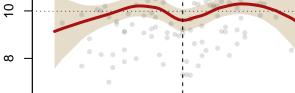




CLDN3 (non-ER binding)







log2(Raw expression)

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Age at diagnosis

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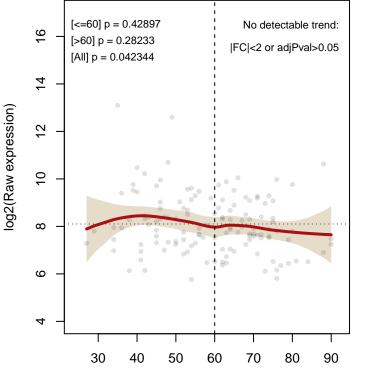
CRYAB (non-ER binding)

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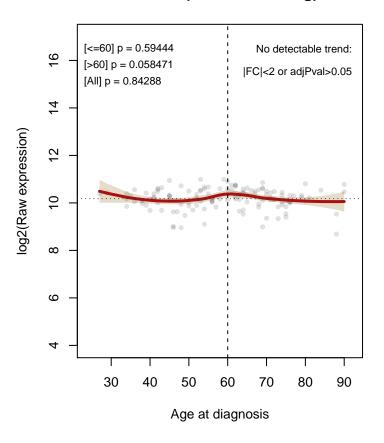
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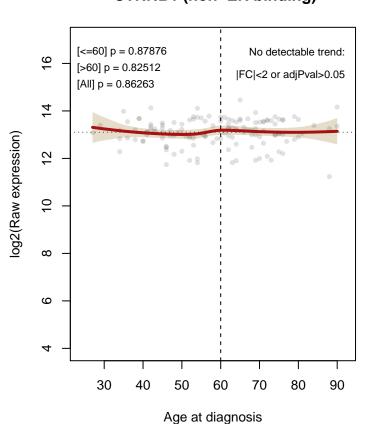


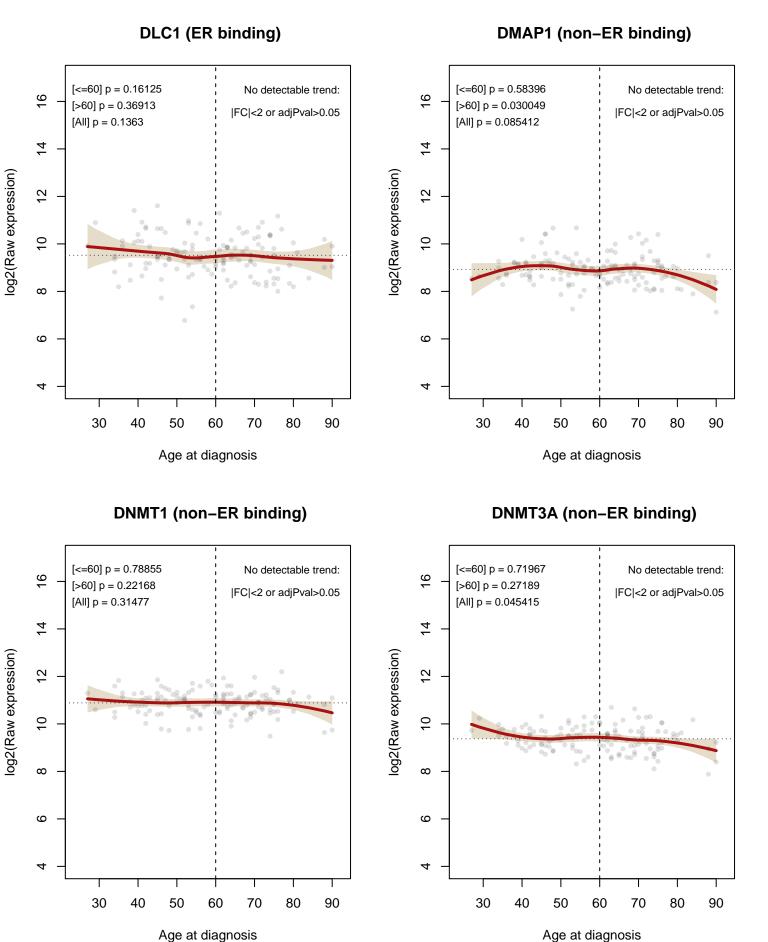
Age at diagnosis

CREB1 (non-ER binding)



CTNNB1 (non-ER binding)





DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.087892 No detectable trend: [<=60] p = 0.58797No detectable trend: 16 16 [>60] p = 0.85113 [>60] p = 0.094779 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.56761[All] p = 0.0673174 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 E2F1 (non-ER binding) E2F2 (non-ER binding) [<=60] p = 0.31059No detectable trend: [<=60] p = 0.31079No detectable trend: 16 16 [>60] p = 0.21918 [>60] p = 0.41214 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.030424[All] p = 0.355284 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω

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Age at diagnosis

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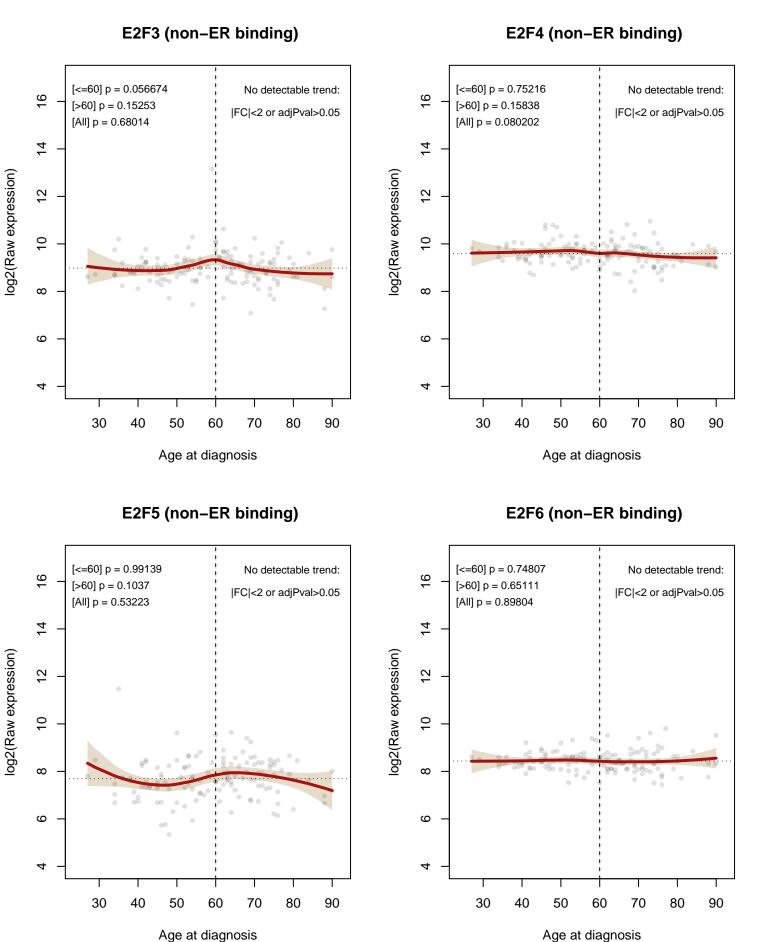
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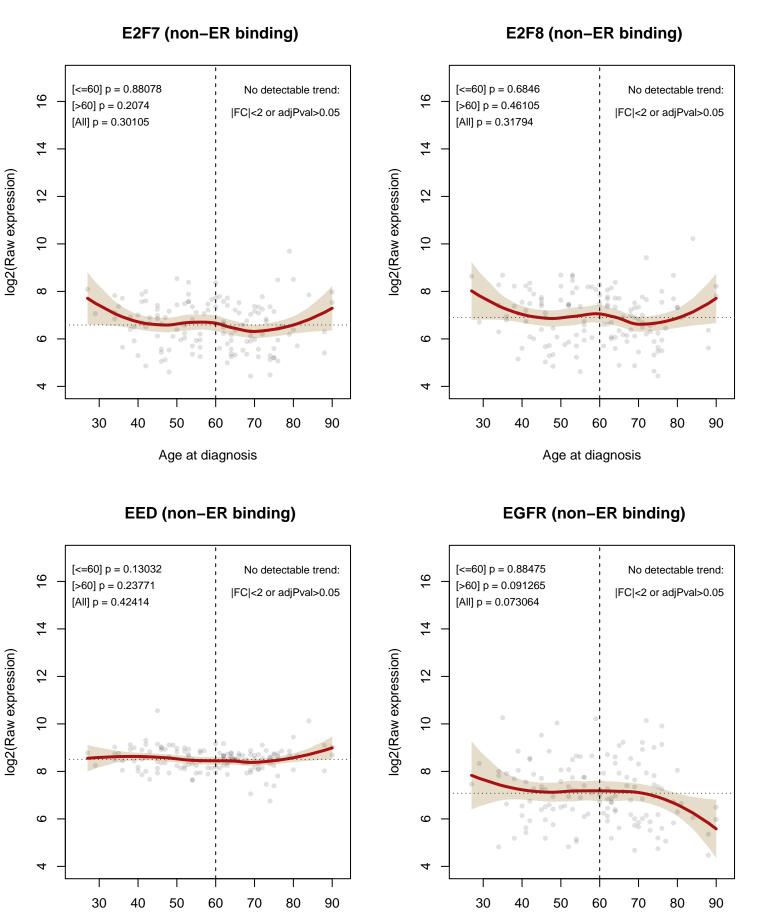
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Age at diagnosis

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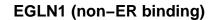
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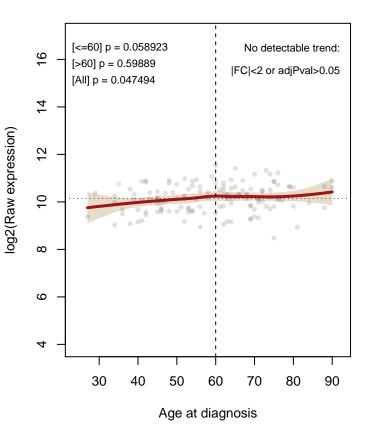


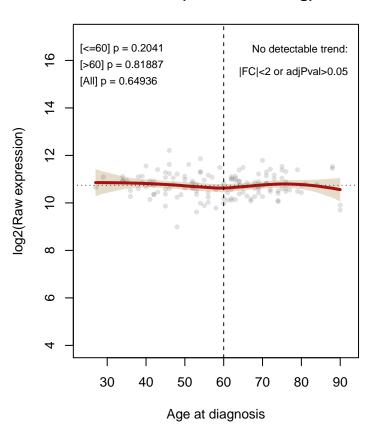
Age at diagnosis

Age at diagnosis



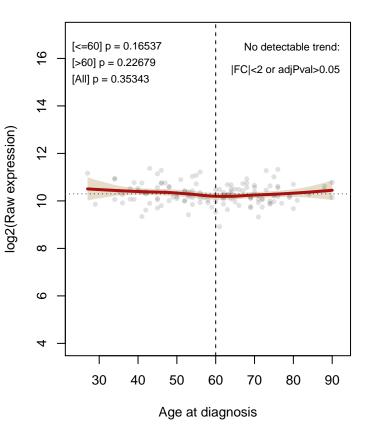
EHMT2 (non-ER binding)

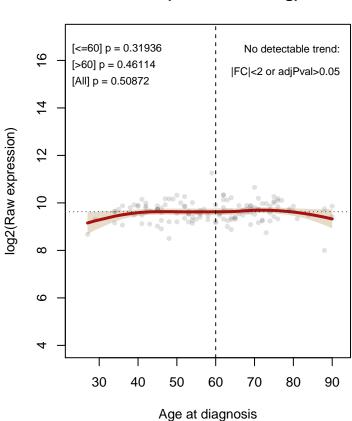




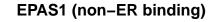
ELAC2 (non-ER binding)

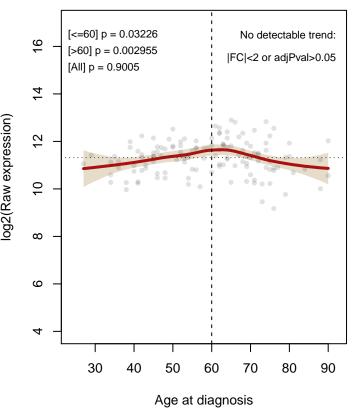
ELK1 (non-ER binding)





EP300 (non-ER binding) [<=60] p = 0.99897No detectable trend: 16 16 [>60] p = 0.32764|FC|<2 or adjPval>0.05 [All] p = 0.616264 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9





EPC1 (non-ER binding)

Age at diagnosis

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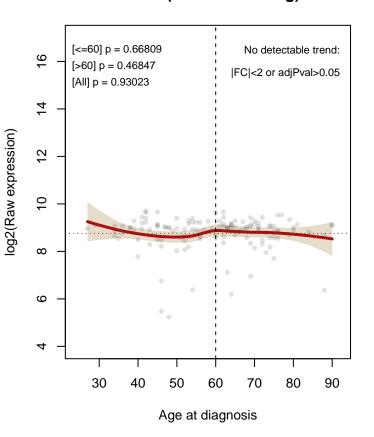
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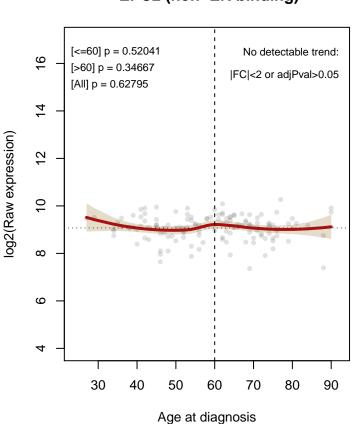
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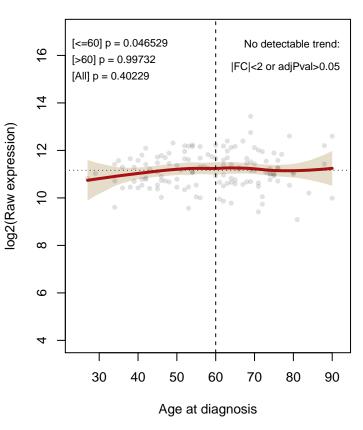


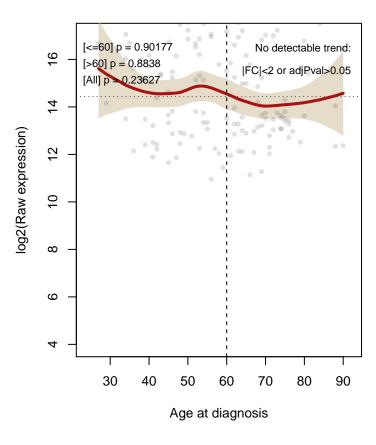
EPC2 (non-ER binding)





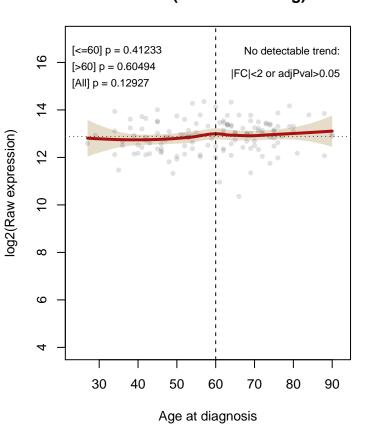
ERBB2 (non-ER binding)

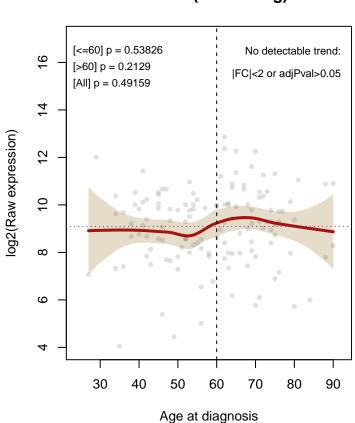


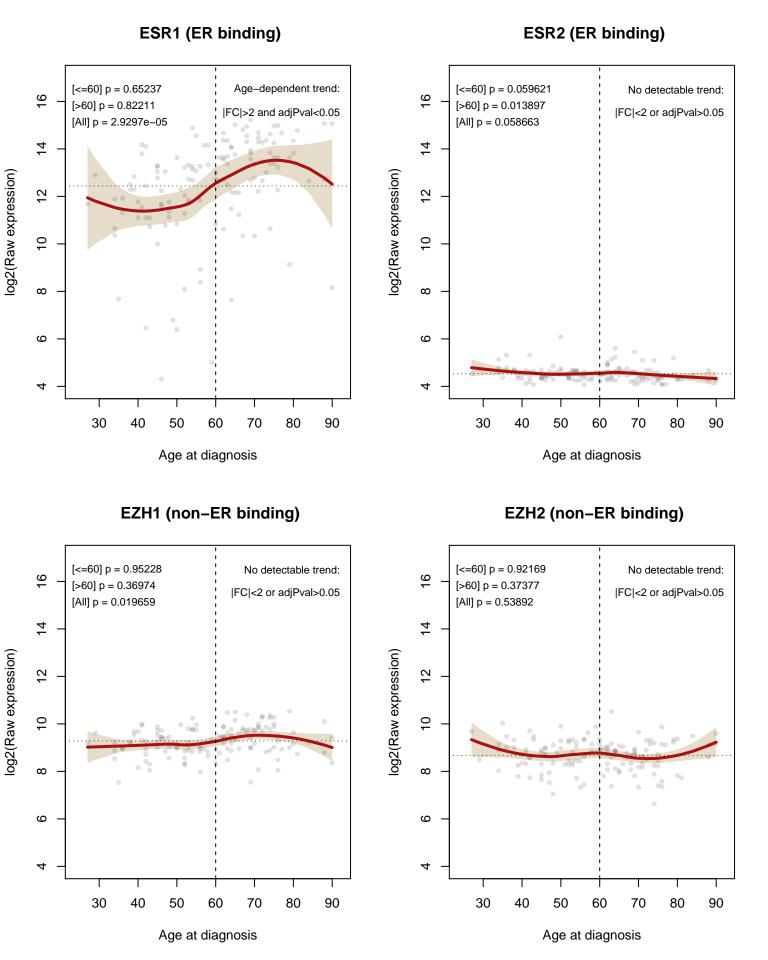


ERBB3 (non-ER binding)

ERBB4 (ER binding)







FOSL1 (non-ER binding) FOS (non-ER binding) [<=60] p = 0.11432No detectable trend: [<=60] p = 0.35442No detectable trend: 16 16 [>60] p = 0.29356 [>60] p = 0.50688 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.1349[All] p = 0.433864 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 **FOXC1 (ER binding)** FOXA1 (ER binding) [<=60] p = 0.50444No detectable trend: [<=60] p = 0.68762No detectable trend: 16 16 [>60] p = 0.58216 [>60] p = 0.79594 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.21538[All] p = 0.500794 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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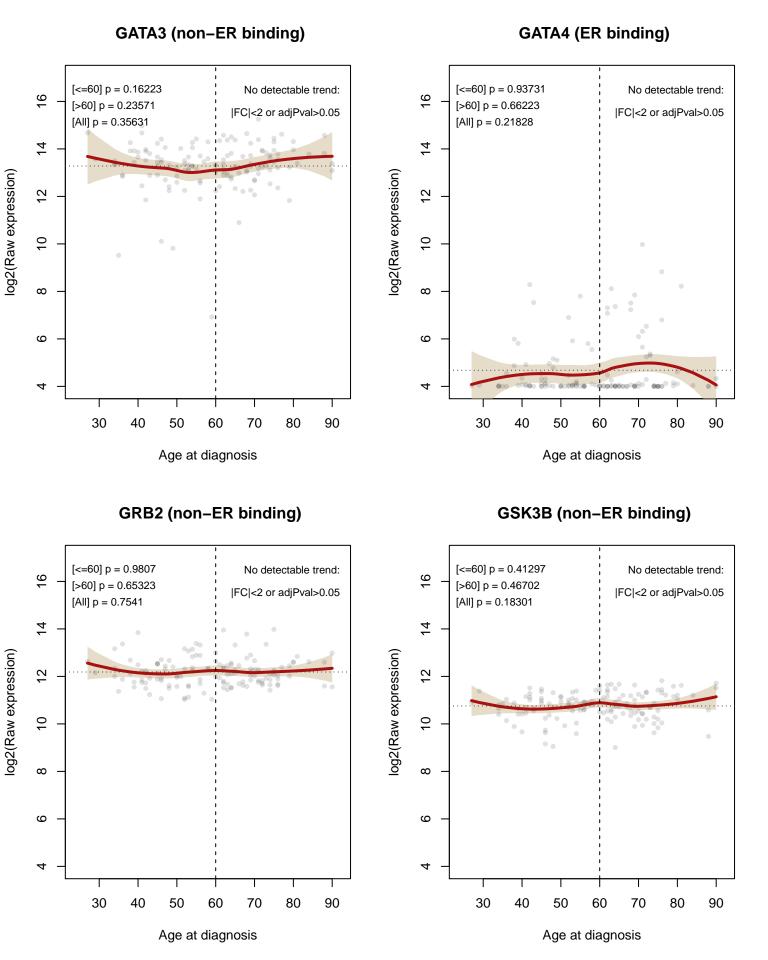
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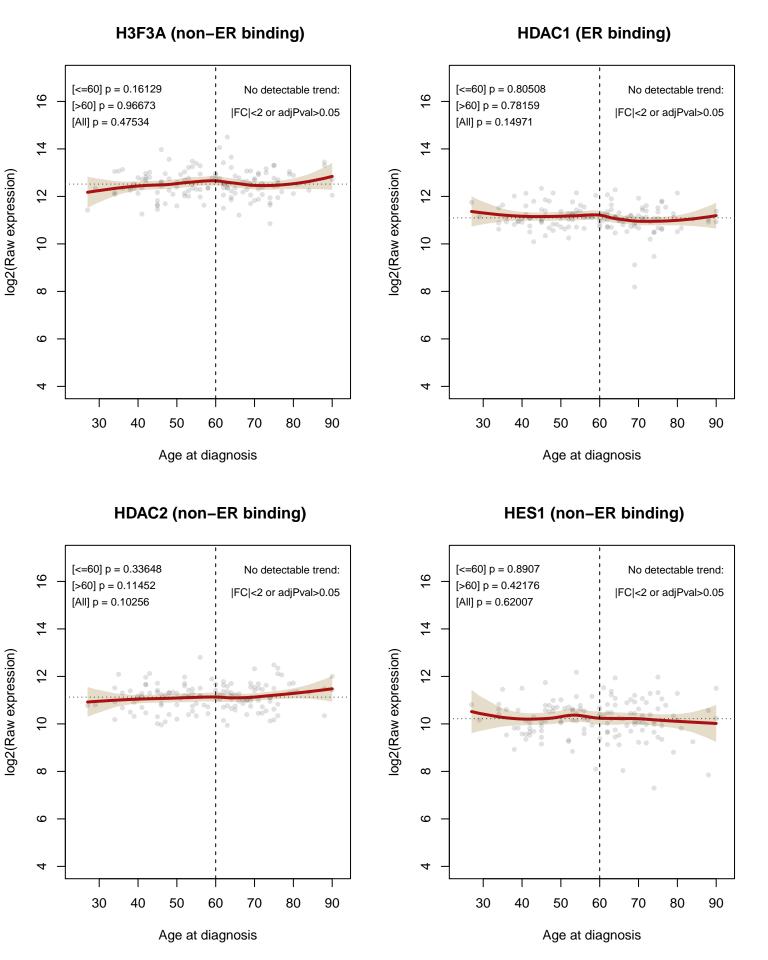
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Age at diagnosis

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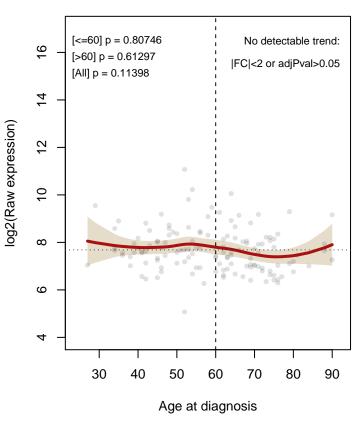
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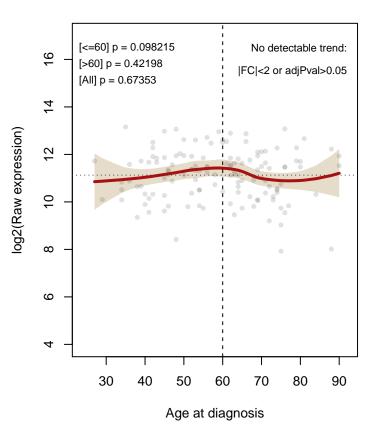






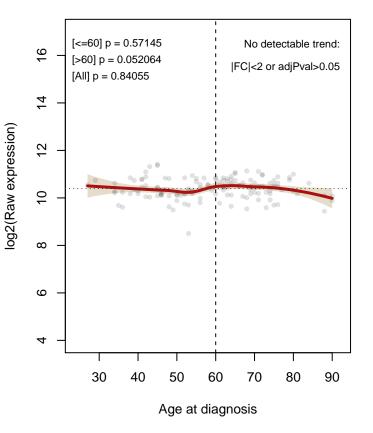
HIF1A (non-ER binding)

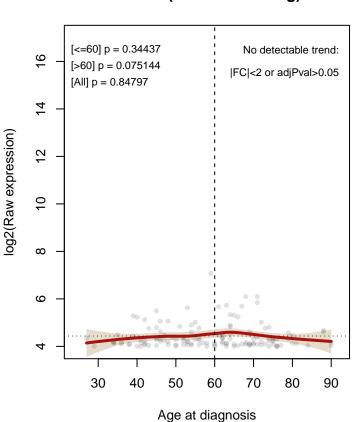




HIF1AN (non-ER binding)

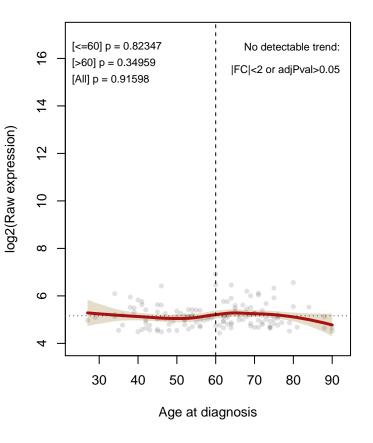
HIF3A (non-ER binding)

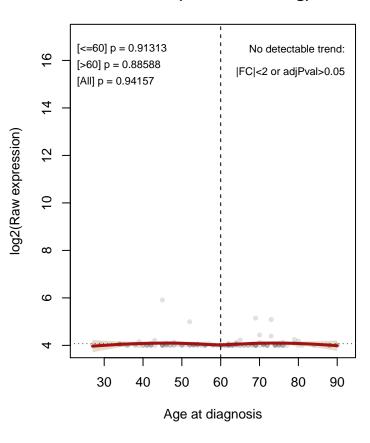






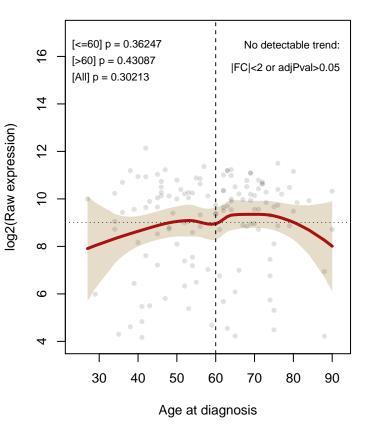
HNF1B (non-ER binding)

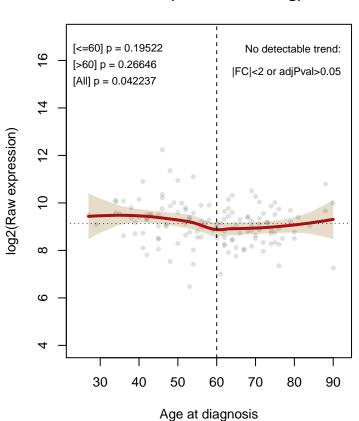




HOXC10 (non-ER binding)

HRAS (non-ER binding)





HSPB1 (non-ER binding) IGF1R (ER binding) [<=60] p = 0.18059No detectable trend: [<=60] p = 0.089954No detectable trend: 16 16 [>60] p = 0.033839 [>60] p = 0.09378 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.4508[All] p = 0.510024 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.35004No detectable trend: [<=60] p = 0.91913 No detectable trend: 16 16 [>60] p = 0.78615 [>60] p = 0.14221 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.51687[AII] p = 0.747294 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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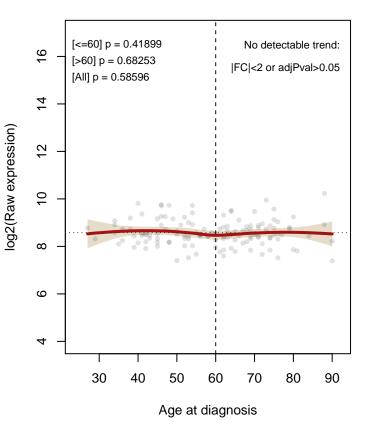
Age at diagnosis

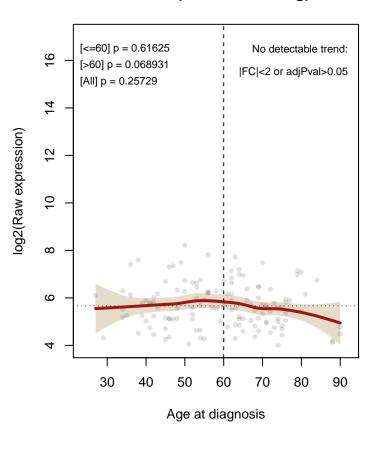
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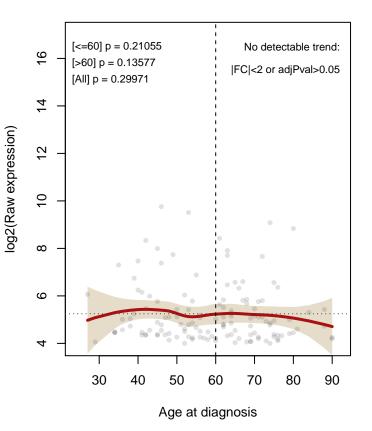
IL2RA (non-ER binding)

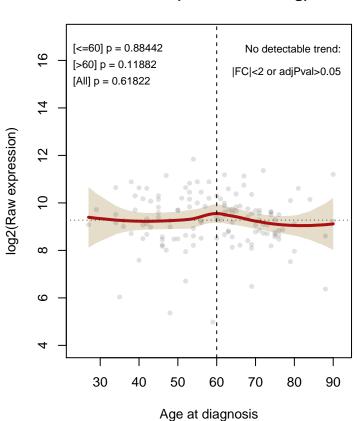


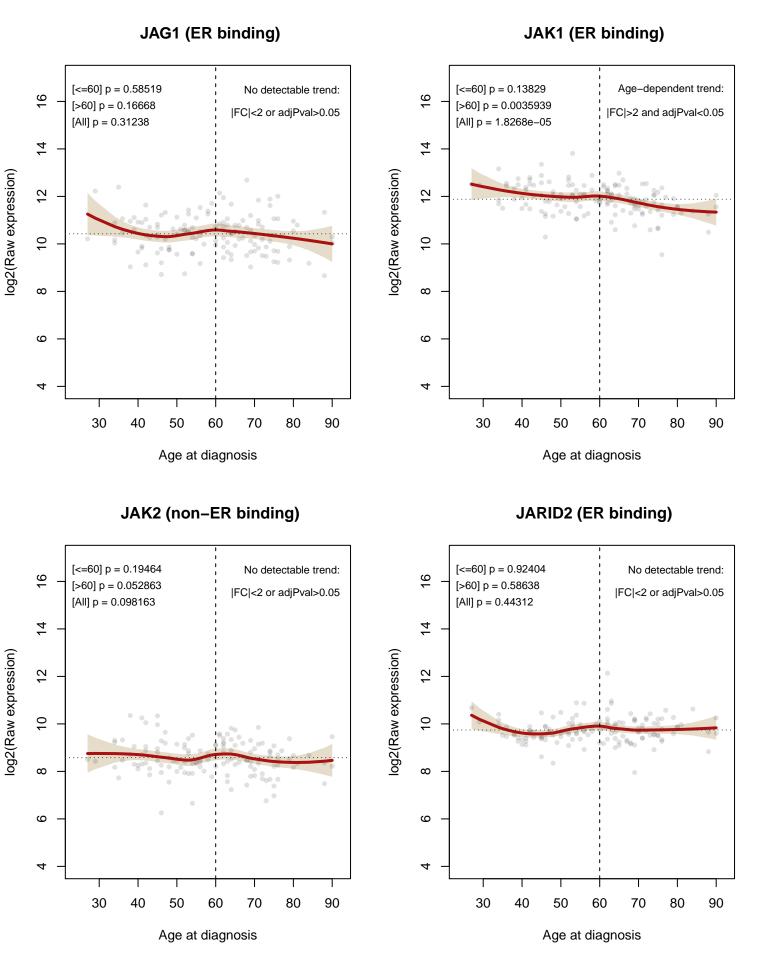


IL6 (non-ER binding)

INPP4B (non-ER binding)







JUN (non-ER binding) KDM2B (non-ER binding) [<=60] p = 0.23442No detectable trend: [<=60] p = 0.1755 No detectable trend: 16 16 [>60] p = 0.73383 [>60] p = 0.052416 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.16804[AII] p = 0.00953094 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 KDM6A (non-ER binding) KDM6B (non-ER binding) [<=60] p = 0.55831No detectable trend: [<=60] p = 0.90427No detectable trend: 16 16 [>60] p = 0.65607 [>60] p = 0.029794 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.359[All] p = 0.435514 4 log2(Raw expression) log2(Raw expression) 12 12 19 10

ω

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Age at diagnosis

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ω

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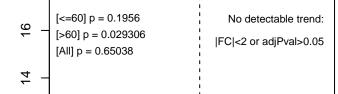
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Age at diagnosis

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log2(Raw expression)

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KMT2C (non-ER binding)

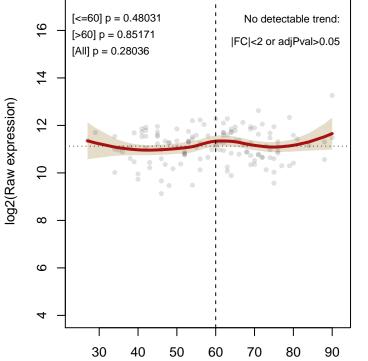
Age at diagnosis

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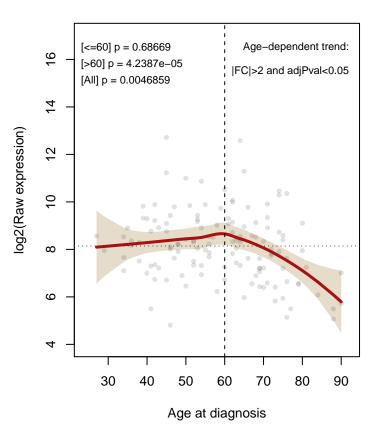
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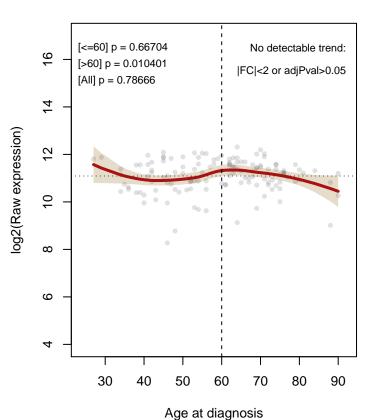


Age at diagnosis

KIT (non-ER binding)

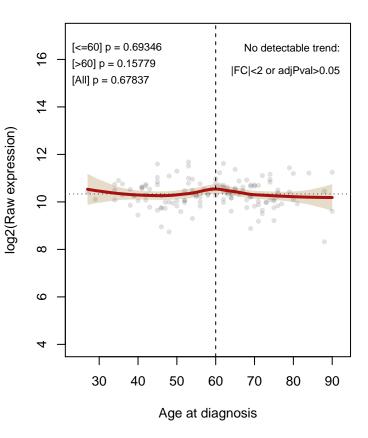


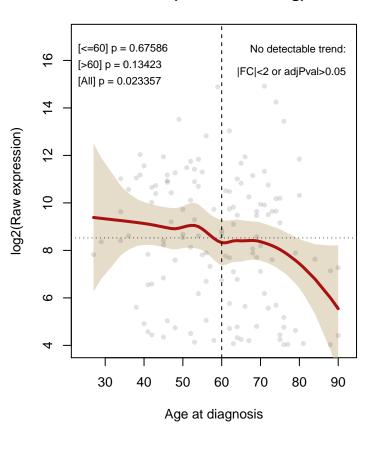
KMT2D (non-ER binding)





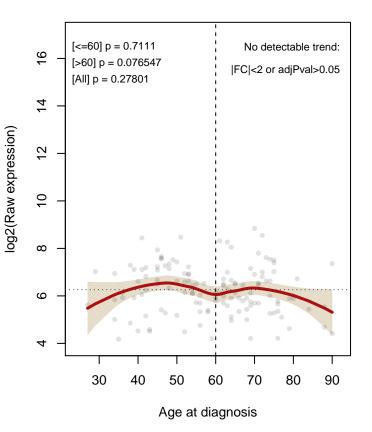
KRT5 (non-ER binding)

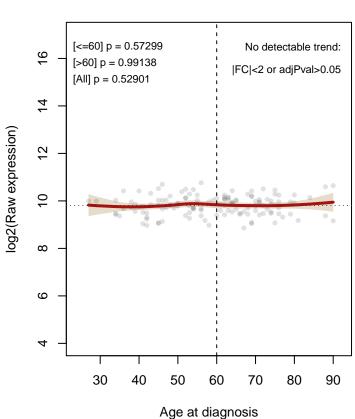




L3MBTL1 (non-ER binding)

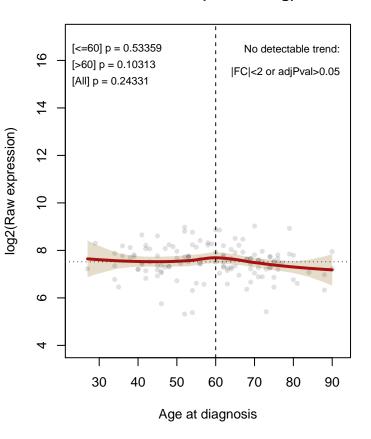
L3MBTL2 (non-ER binding)

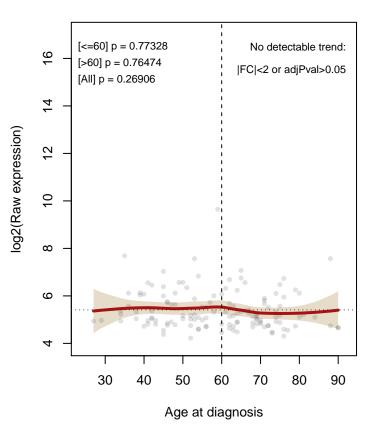




L3MBTL3 (ER binding)

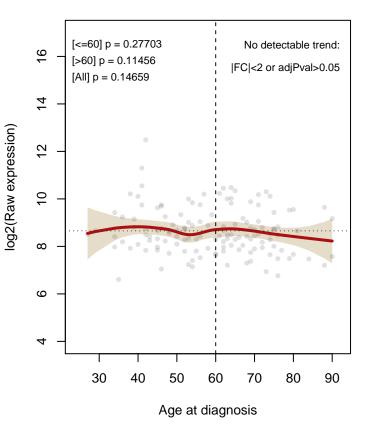
L3MBTL4 (non-ER binding)

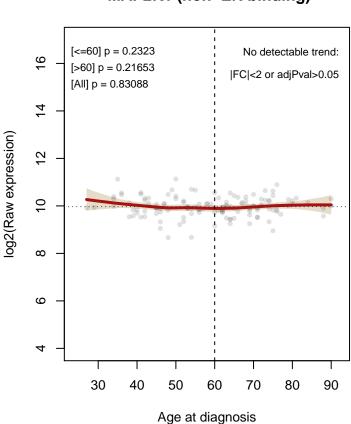




LEF1 (non-ER binding)

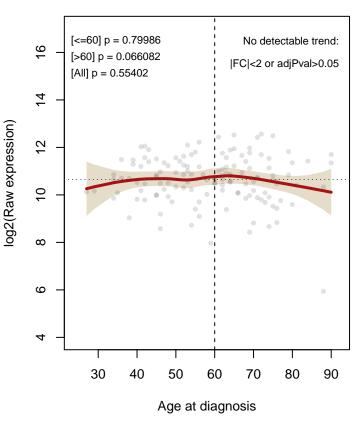
MAP2K1 (non-ER binding)

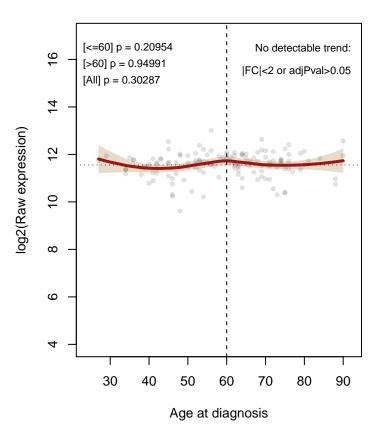






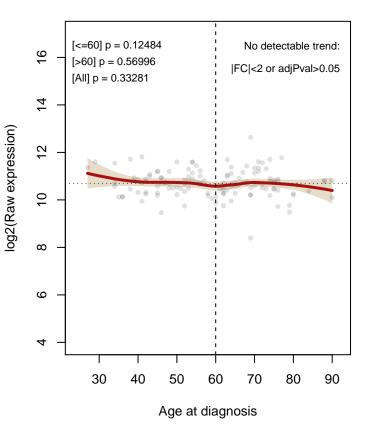
MAPK1 (non-ER binding)

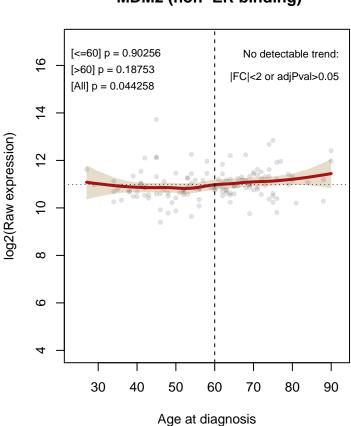




MAPK3 (non-ER binding)

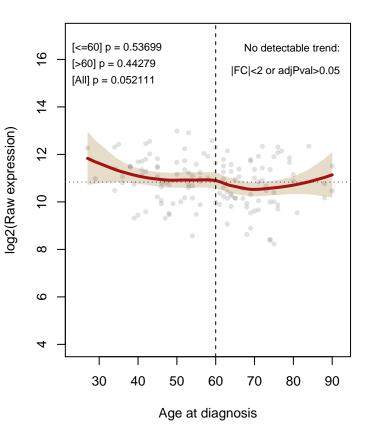
MDM2 (non-ER binding)

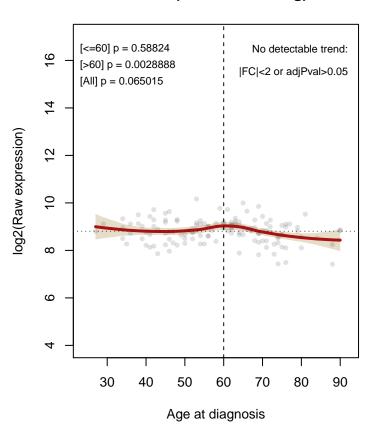






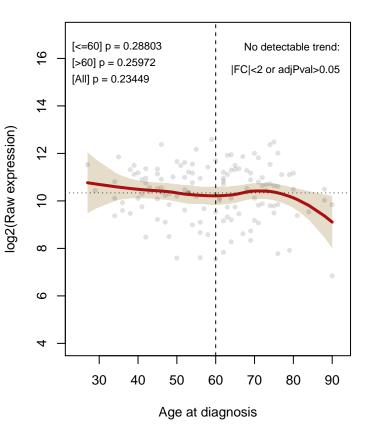
MTF2 (non-ER binding)

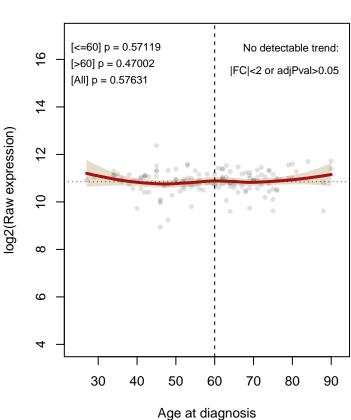




MYC (non-ER binding)

NCOA6 (non-ER binding)





NCOR1 (non-ER binding) **NES (non-ER binding)** [<=60] p = 0.23377No detectable trend: [<=60] p = 0.55189No detectable trend: 16 16 [>60] p = 0.26335 [>60] p = 0.1393 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.41611[All] p = 0.315564 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 NFKB1 (non-ER binding) NFKB2 (non-ER binding) [<=60] p = 0.78073No detectable trend: [<=60] p = 0.11016 No detectable trend: 16 16 [>60] p = 0.07529 [>60] p = 0.055477 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.0088973[All] p = 0.14694 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

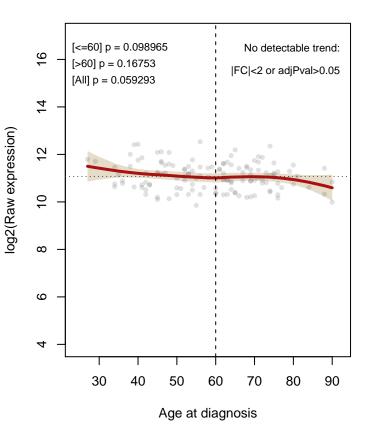
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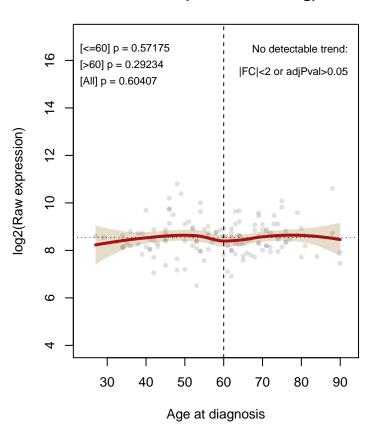
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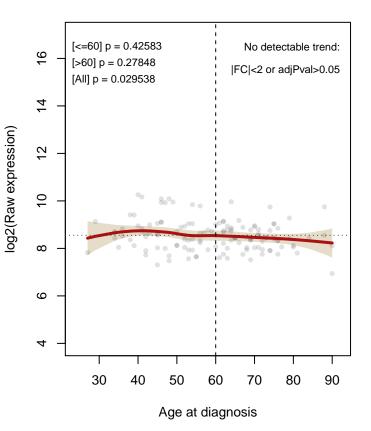
NFKBIB (non-ER binding)

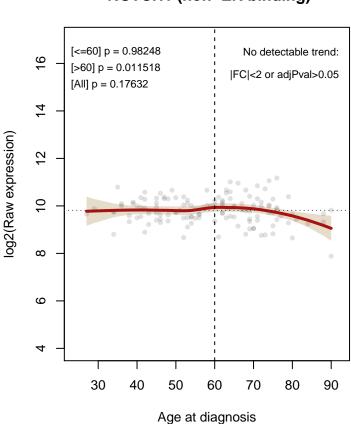




NFKBIE (non-ER binding)

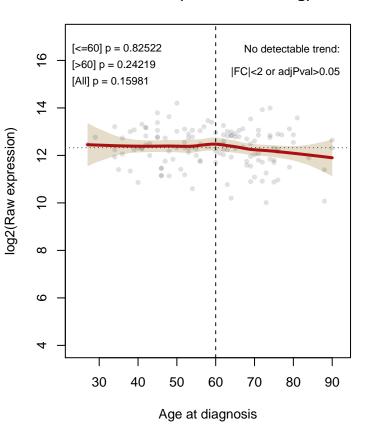
NOTCH1 (non-ER binding)

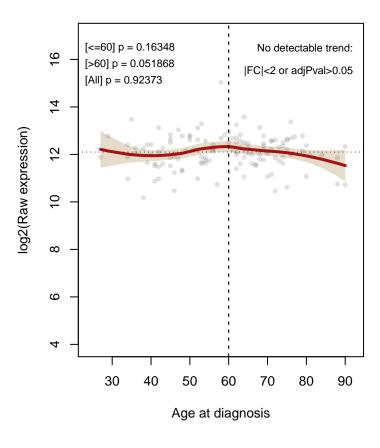




NOTCH2 (non-ER binding)

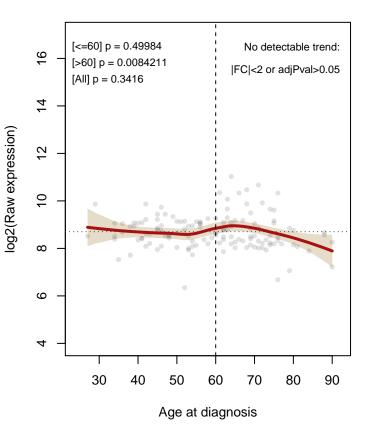
NOTCH3 (non-ER binding)

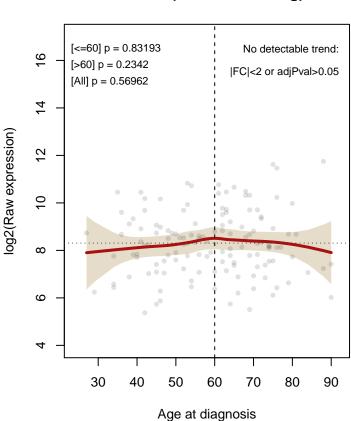


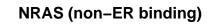


NOTCH4 (non-ER binding)

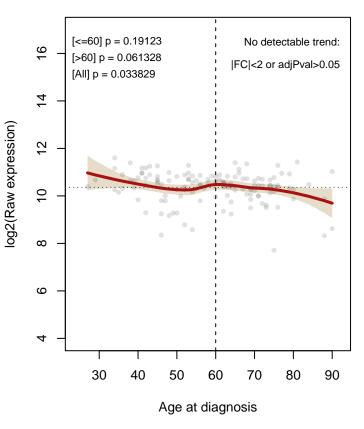
NR4A2 (non-ER binding)

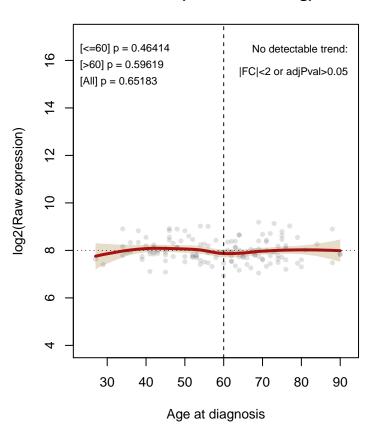






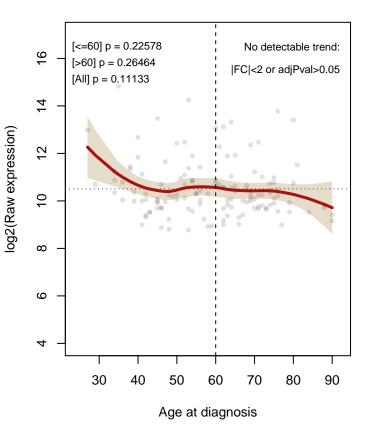
PCGF1 (non-ER binding)

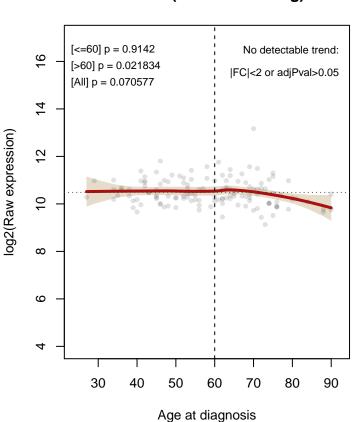




PCGF2 (non-ER binding)

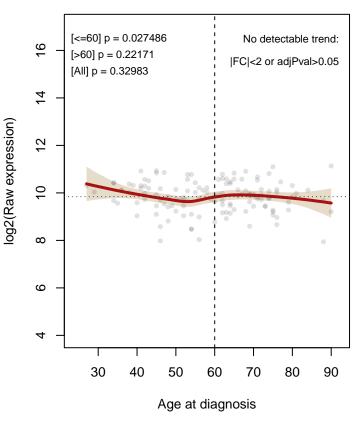
PCGF3 (non-ER binding)

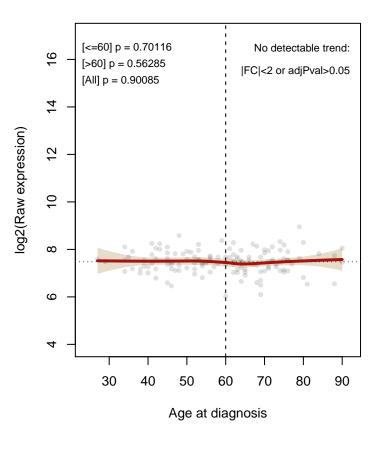






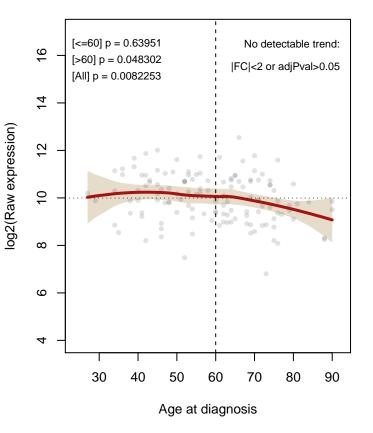
PCGF6 (non-ER binding)

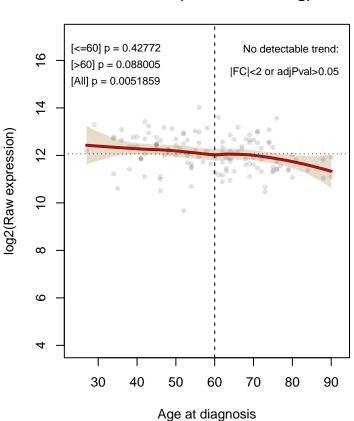




PDGFRA (non-ER binding)

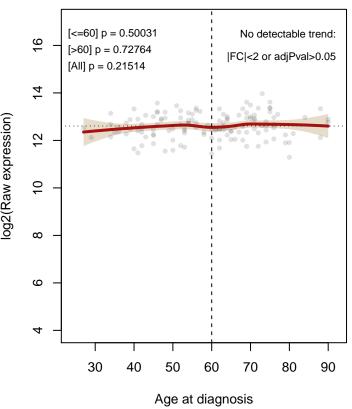
PDGFRB (non-ER binding)





PDPK1 (non-ER binding) [<=60] p = 0.67214No detectable trend: 16 16 [>60] p = 0.32589 |FC|<2 or adjPval>0.05 [All] p = 0.397594 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

PEBP1 (non-ER binding)



PELP1 (non-ER binding)

Age at diagnosis

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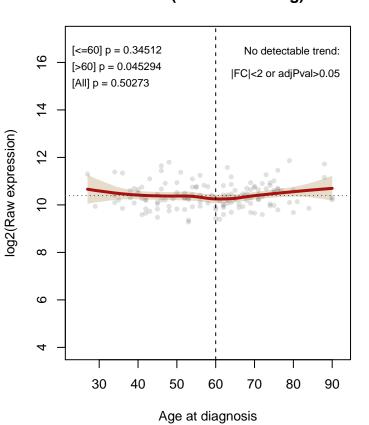
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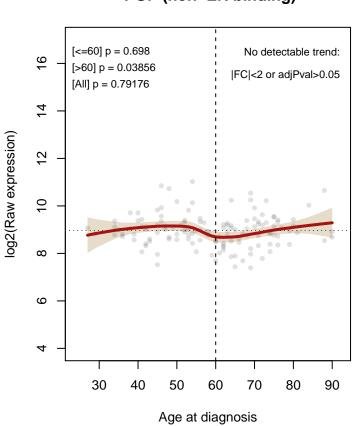
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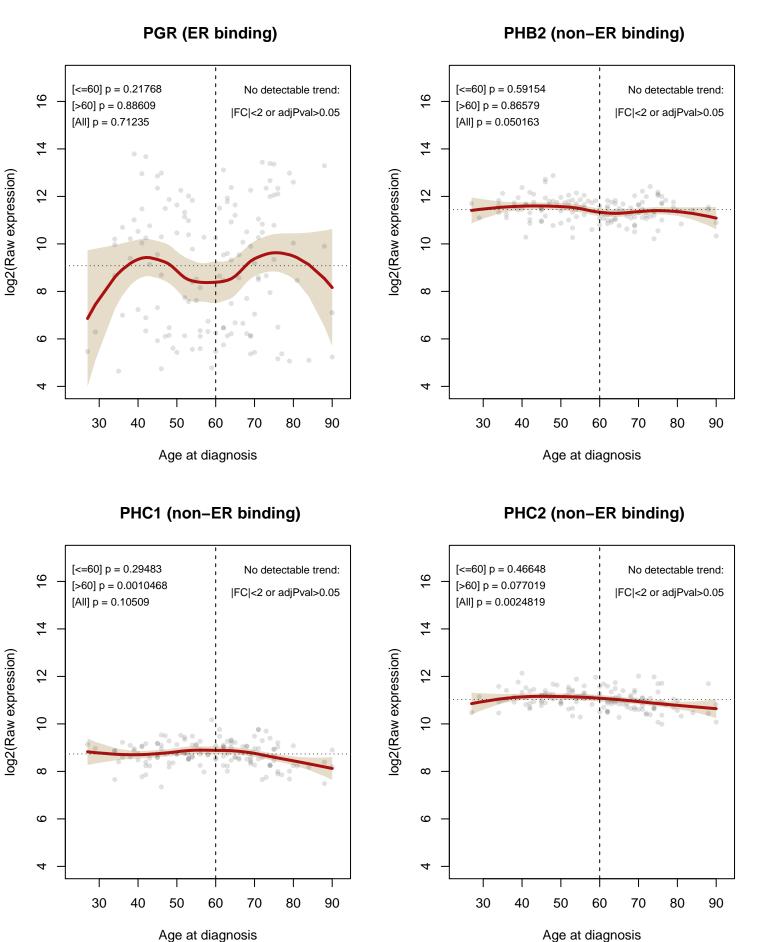
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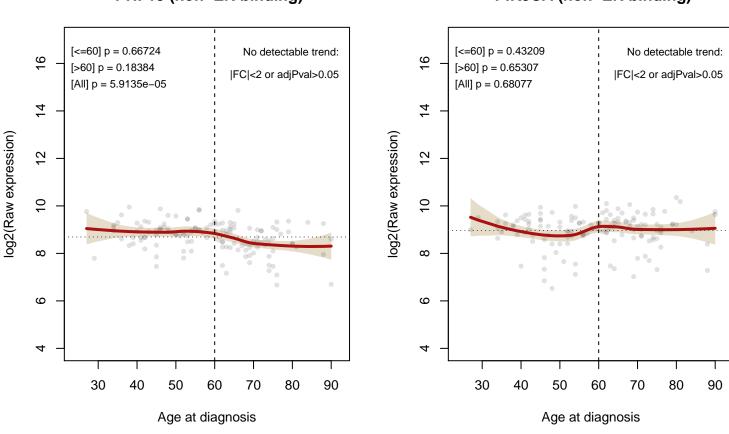
PGP (non-ER binding)





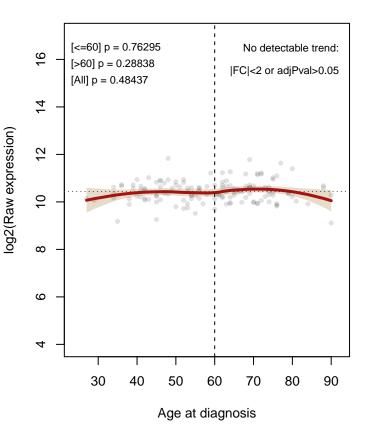
PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.48066No detectable trend: [<=60] p = 0.51186No detectable trend: 16 16 [>60] p = 0.30203 [>60] p = 0.34485 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [AII] p = 0.24386[All] p = 0.440394 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 Age at diagnosis Age at diagnosis PHF19 (non-ER binding) PIK3CA (non-ER binding) [<=60] p = 0.66724No detectable trend: [<=60] p = 0.4320916 16 [>60] p = 0.65307[>60] p = 0.18384 |FC|<2 or adjPval>0.05 [AII] p = 5.9135e-05[All] p = 0.68077

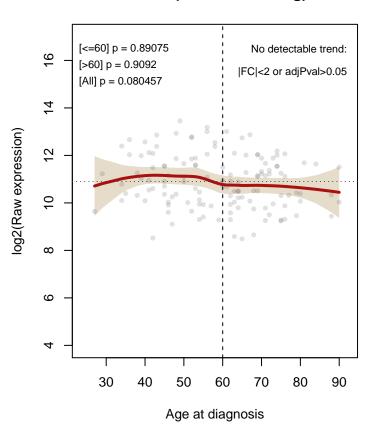
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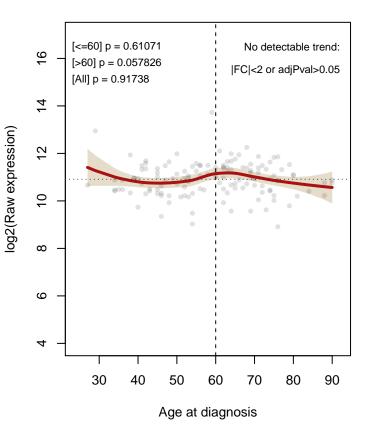
PLAU (non-ER binding)

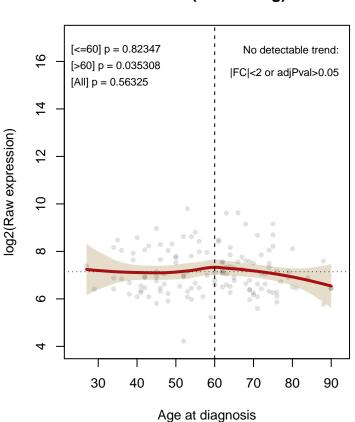


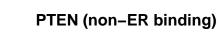


PODXL (non-ER binding)

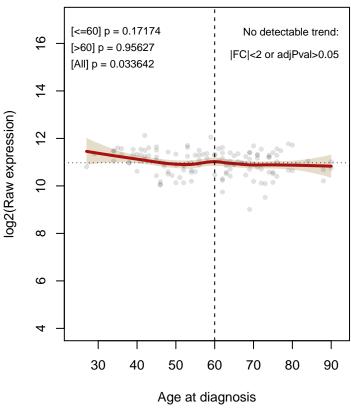
PPARG (ER binding)

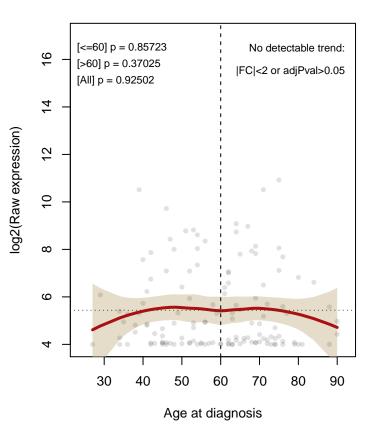






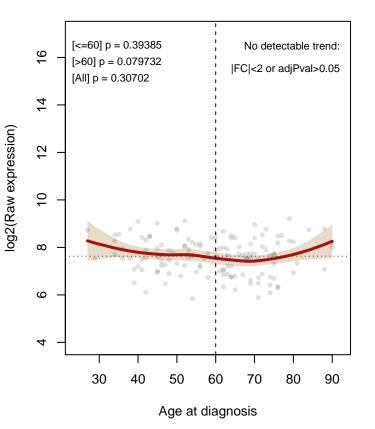
PYDC1 (non-ER binding)

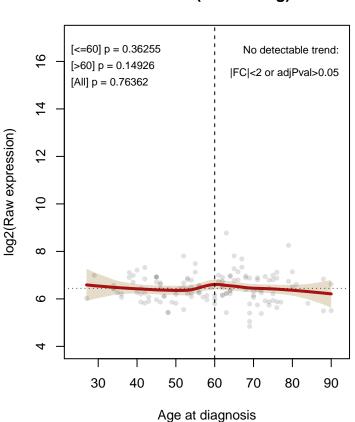




RAD51 (non-ER binding)

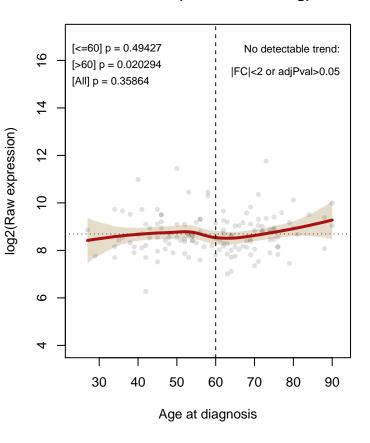
RAD51B (ER binding)

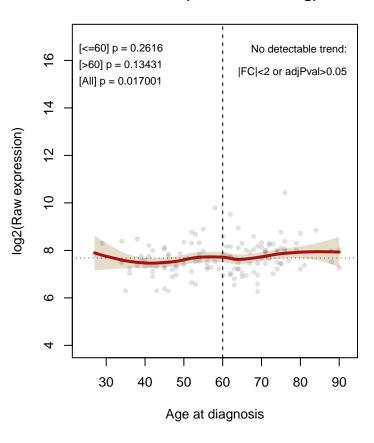




RAD51C (non-ER binding)

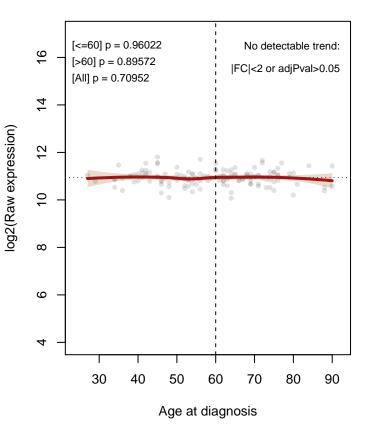
RAD51D (non-ER binding)

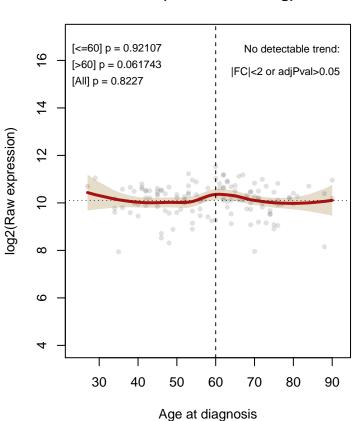


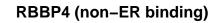


RAF1 (non-ER binding)

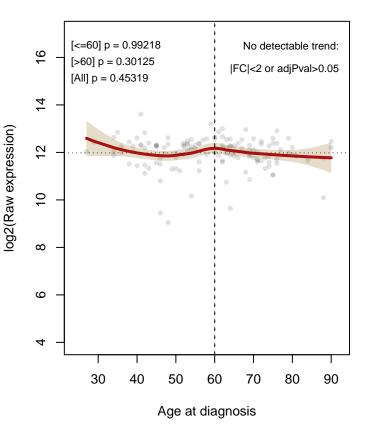
RB1 (non-ER binding)

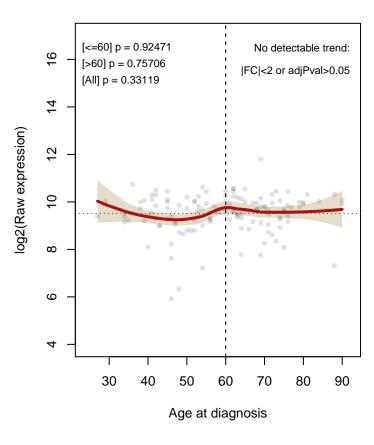






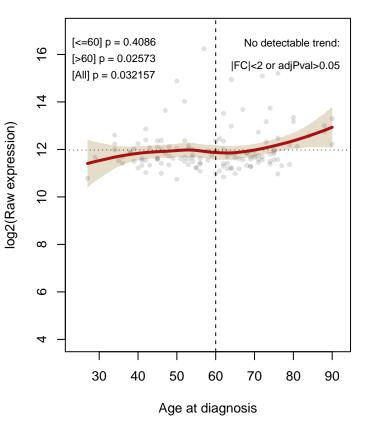
RBBP5 (non-ER binding)

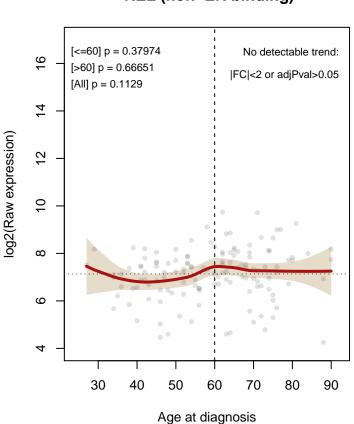


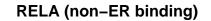


RBBP7 (non-ER binding)

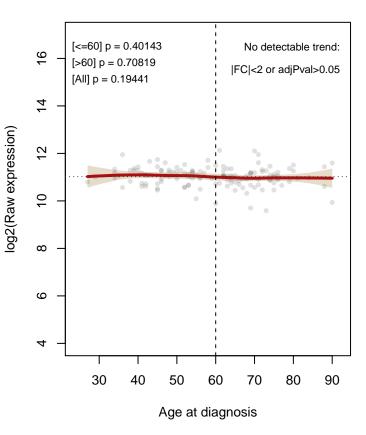
REL (non-ER binding)

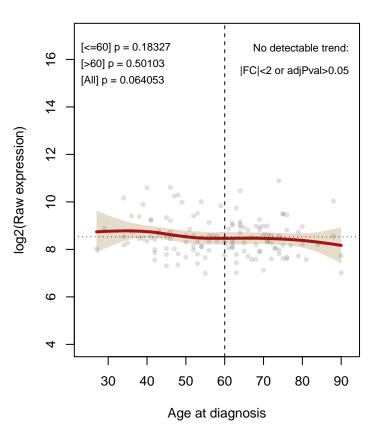






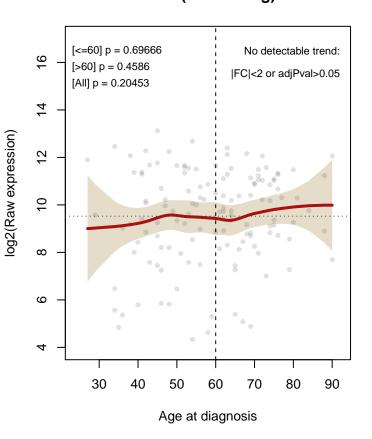
RELB (non-ER binding)

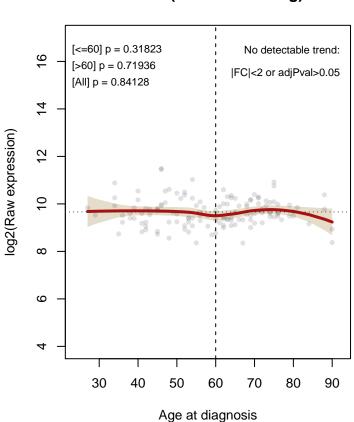


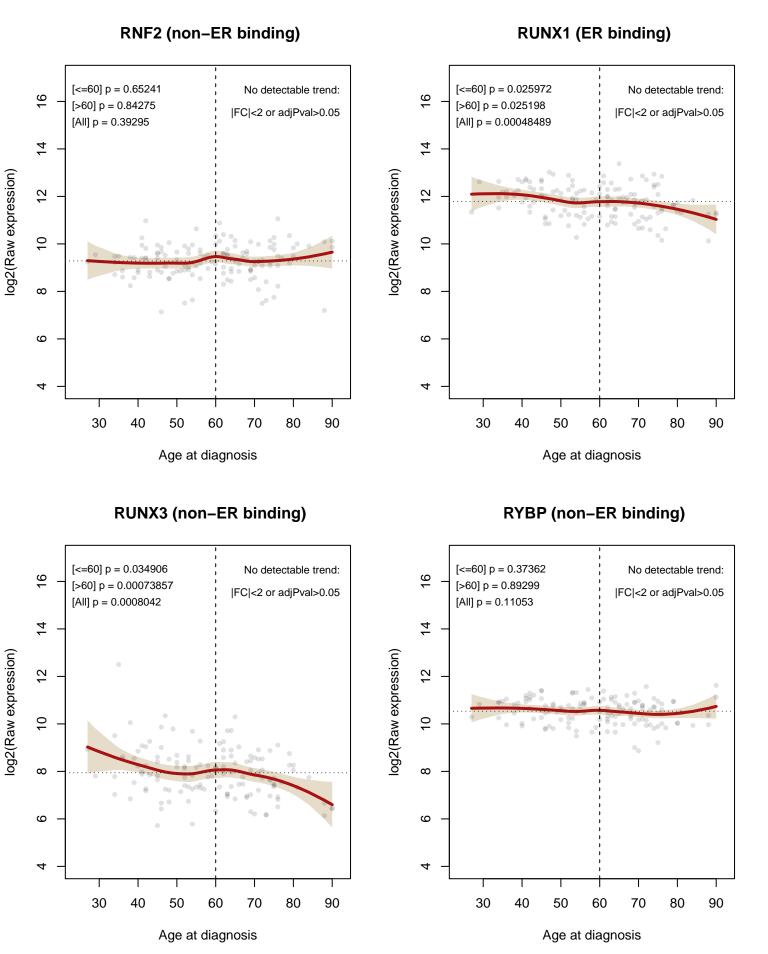


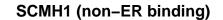
RET (ER binding)

RING1 (non-ER binding)

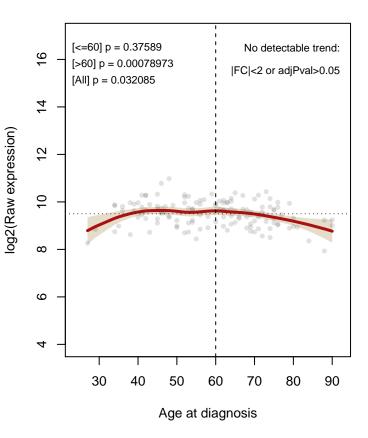


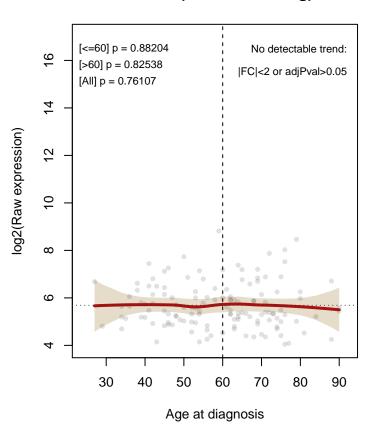






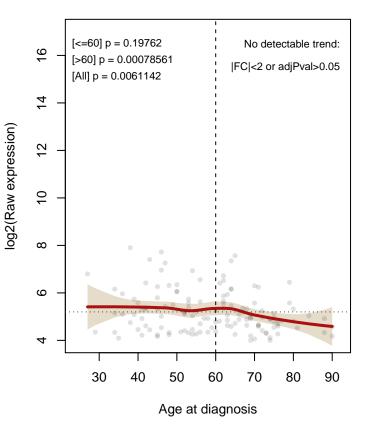
SCML2 (non-ER binding)

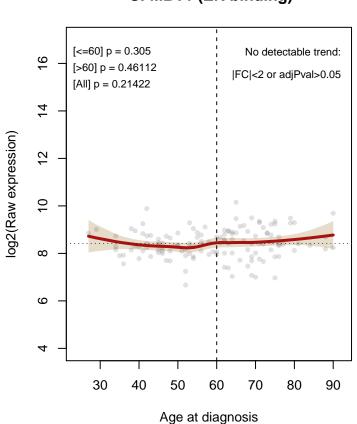




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.65234No detectable trend: [<=60] p = 0.61647No detectable trend: 16 16 [>60] p = 0.20935 [>60] p = 0.43359 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.74105[AII] p = 0.00766064 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 SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.14801No detectable trend: [<=60] p = 0.73817No detectable trend: 16 16 [>60] p = 0.45849 [>60] p = 0.29082 |FC|<2 or adjPval>0.05 |FC|<2 or adjPval>0.05 [All] p = 0.38903[All] p = 0.717224 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

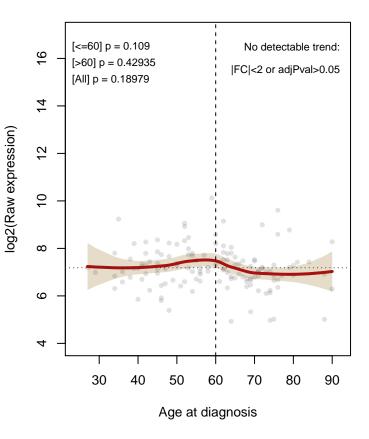
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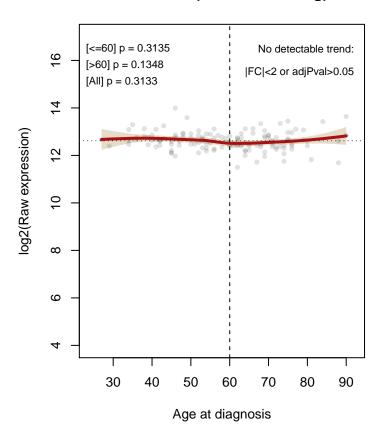
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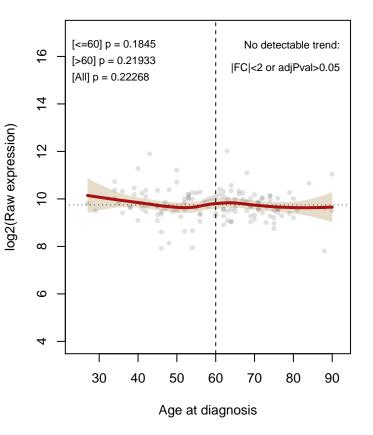
SLC25A3 (non-ER binding)

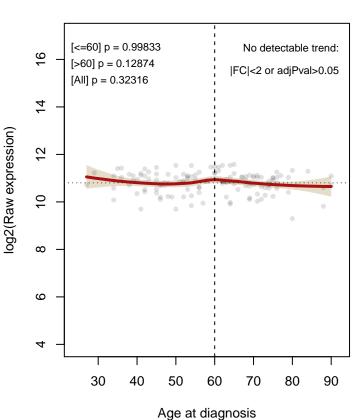




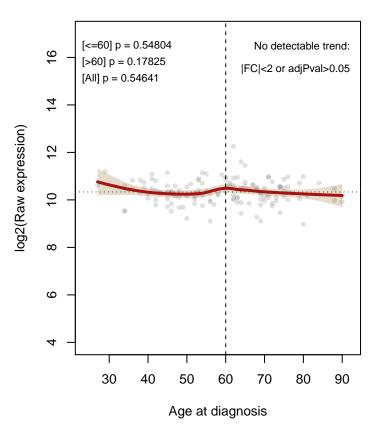
SMAD1 (non-ER binding)

SMAD2 (non-ER binding)



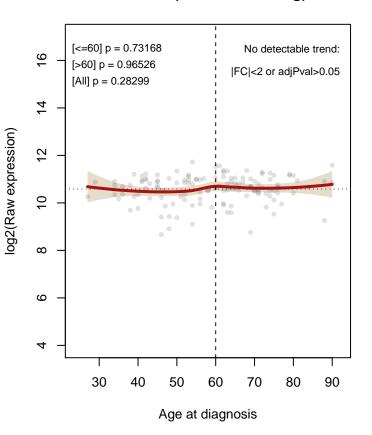


SMAD4 (non-ER binding)

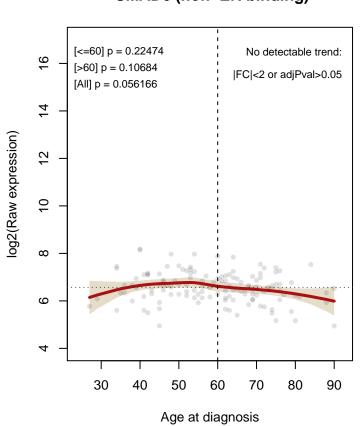


SMAD5 (non-ER binding)

Age at diagnosis

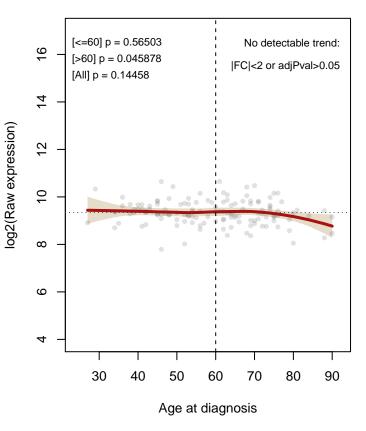


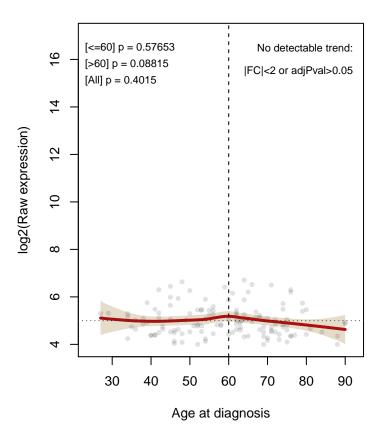
SMAD6 (non-ER binding)





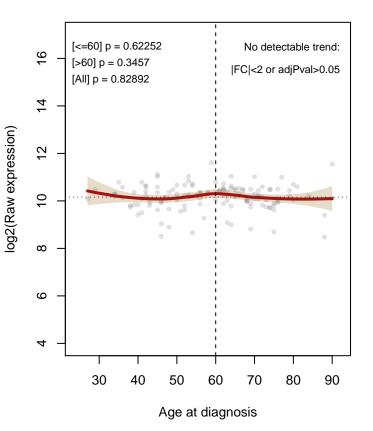
SMAD9 (non-ER binding)

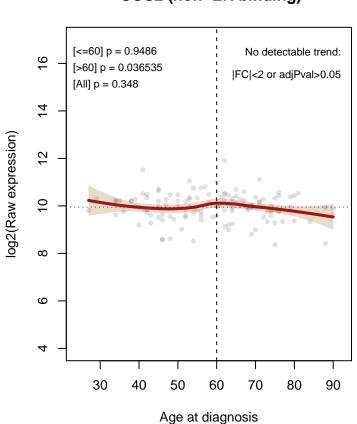


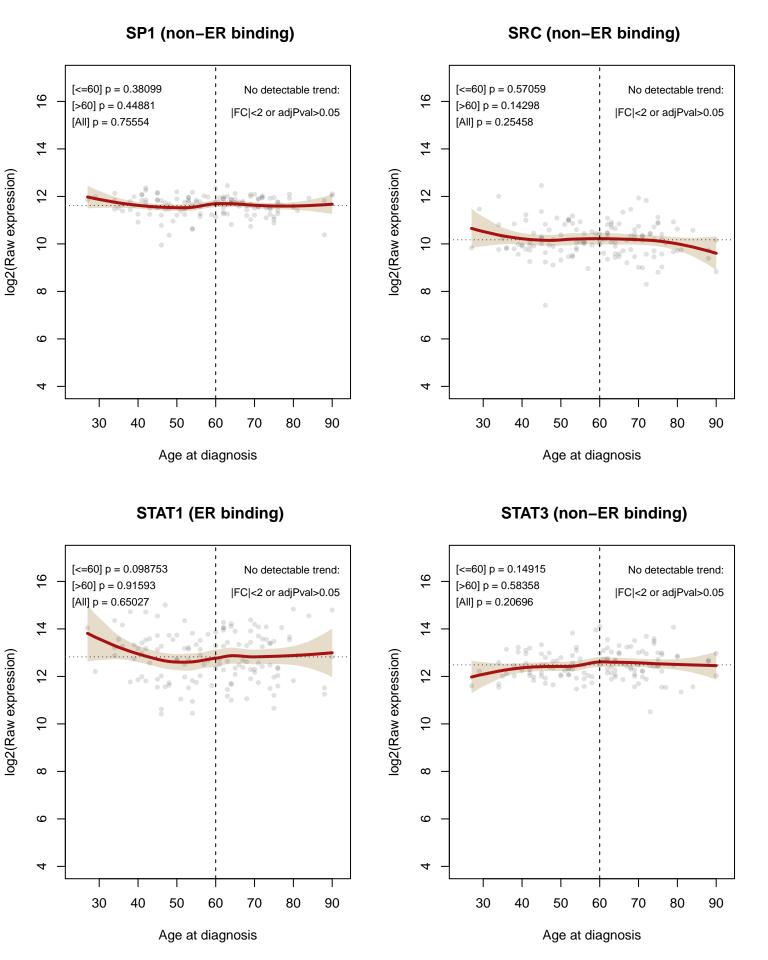


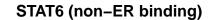
SOS1 (non-ER binding)

SOS2 (non-ER binding)

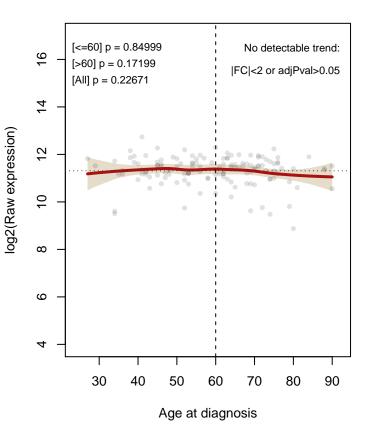


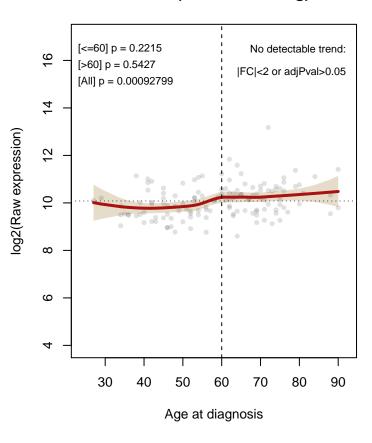






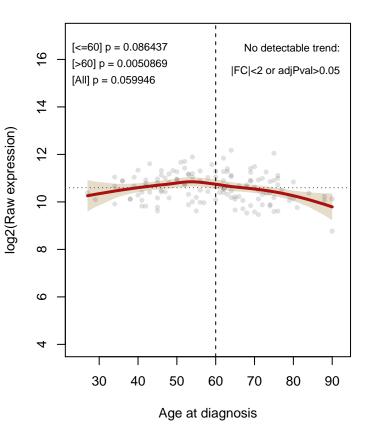
SUZ12 (non-ER binding)

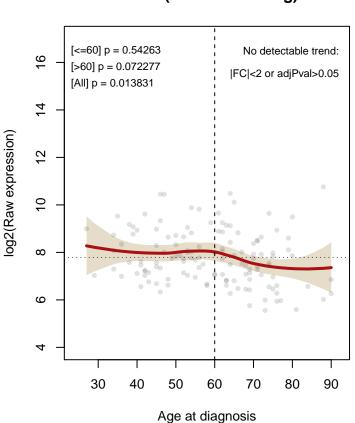




TCF3 (non-ER binding)

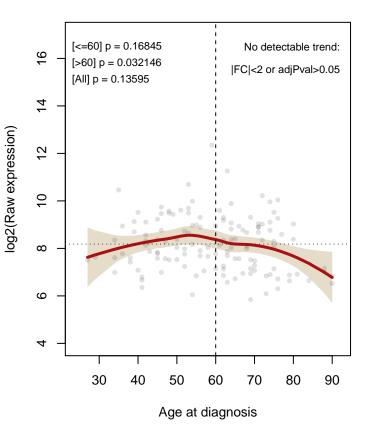
TCF7 (non-ER binding)

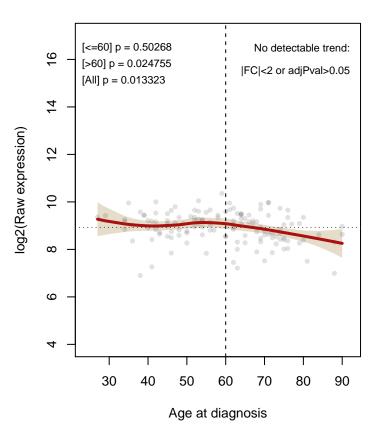






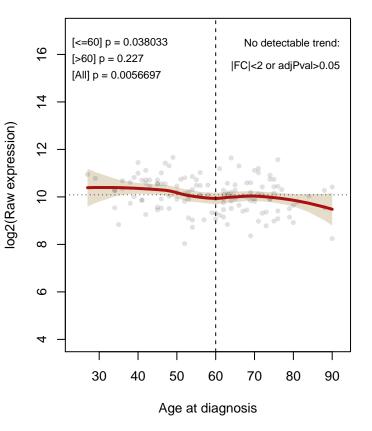
TCF7L2 (non-ER binding)

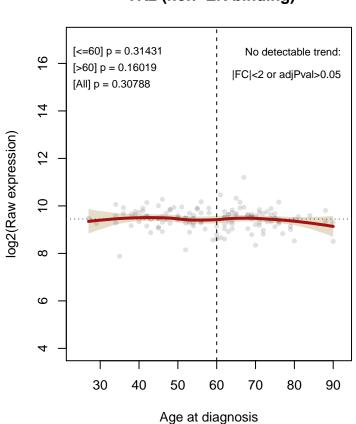


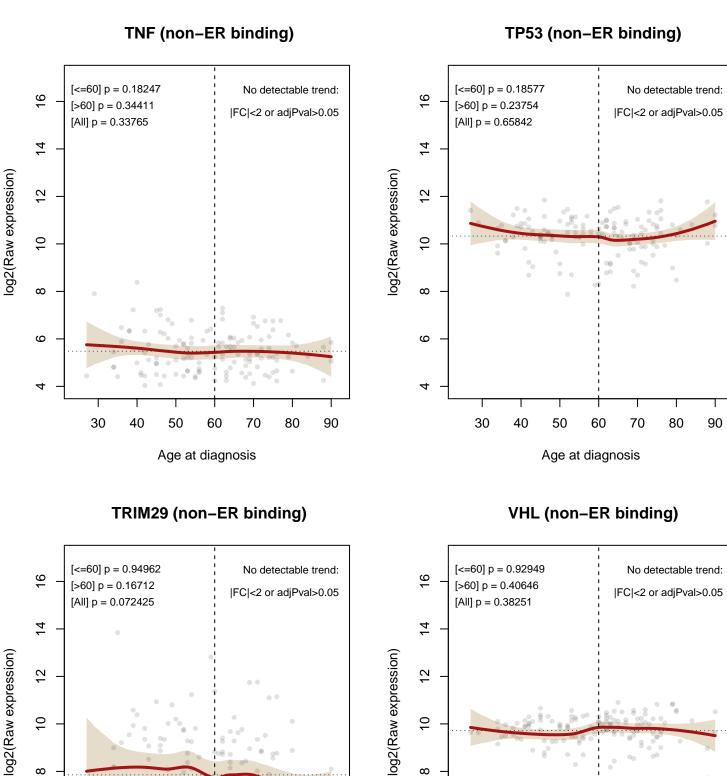


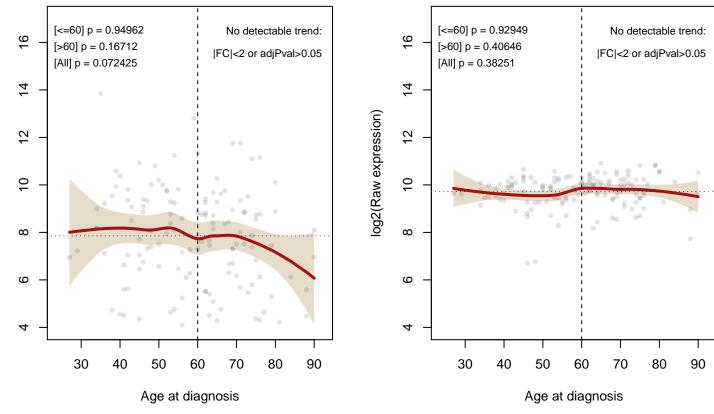
TGFB1 (non-ER binding)

TK2 (non-ER binding)



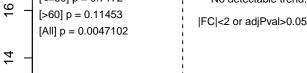


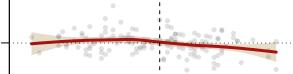


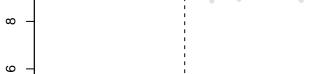




[<=60] p = 0.7172No detectable trend: [>60] p = 0.11453 |FC|<2 or adjPval>0.05







50

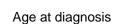
log2(Raw expression)

12

10

30

40



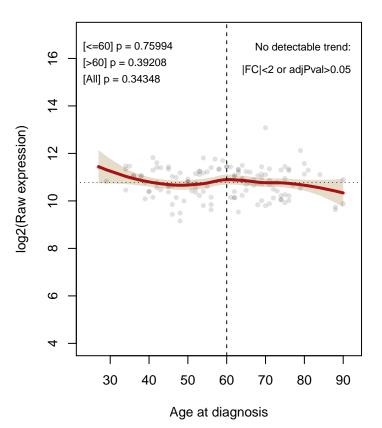
60

70

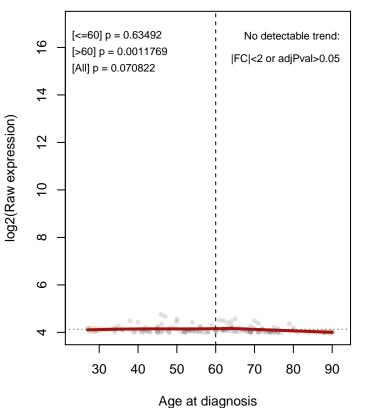
80

90

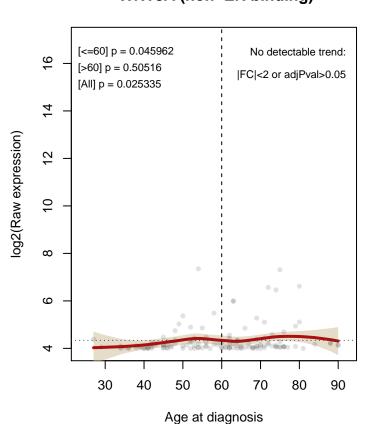
WHSC1 (non-ER binding)



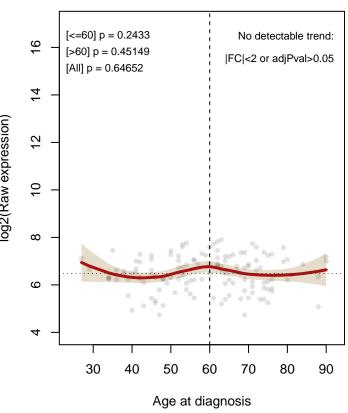
WNT1 (non-ER binding)



WNT3A (non-ER binding)

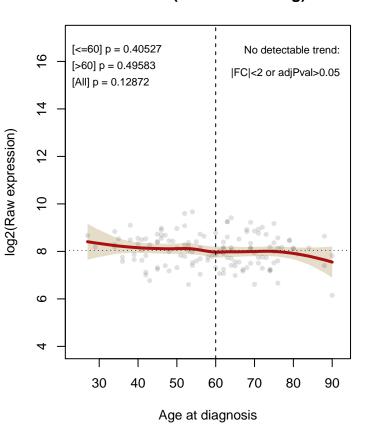


XRCC2 (non-ER binding)

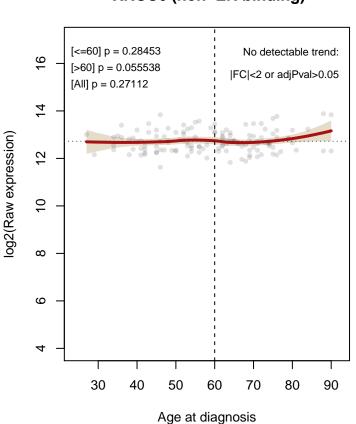


XRCC3 (non-ER binding)

Age at diagnosis



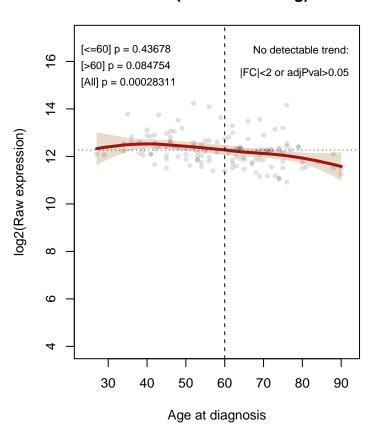
XRCC6 (non-ER binding)



YAF2 (non-ER binding)

90 - [<=60] p = 0.1989 | No detectable trend: |FC|<2 or adjPval>0.05 | PC|

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

