

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.39277No detectable trend: [<=60] p = 0.039043No detectable trend: 16 16 [>60] p = 0.67944[>60] p = 0.34992 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.2492[All] p = 0.334854 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 ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.87446No detectable trend: [<=60] p = 0.92071No detectable trend: 16 16 [>60] p = 0.20894 [>60] p = 0.05755 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.28506[All] p = 0.919524 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ∞ 9 9

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Age at diagnosis

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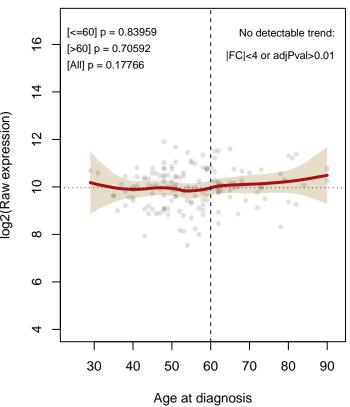
Age at diagnosis

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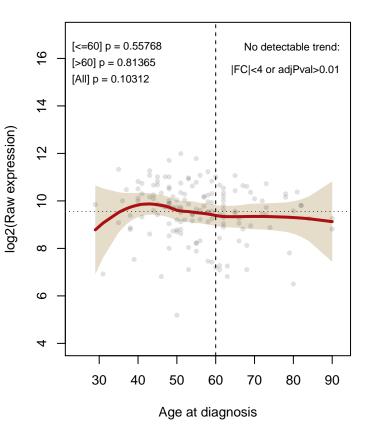
BCL2 (non-ER binding) [<=60] p = 0.8545No detectable trend: 16 16 [>60] p = 0.087222 |FC|<4 or adjPval>0.01 [All] p = 0.0979174 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ω 9 9 30 40 50 60 70 80 90 30

BCL3 (non-ER binding)

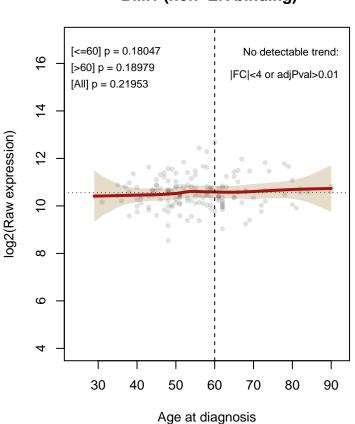


BIRC5 (non-ER binding)

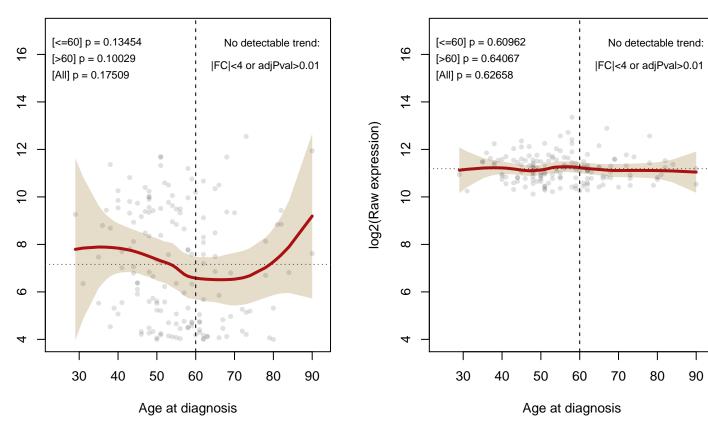
Age at diagnosis



BMI1 (non-ER binding)



BRCA1 (non-ER binding) BMX (non-ER binding) [<=60] p = 0.29988No detectable trend: [<=60] p = 0.22728No detectable trend: 16 16 [>60] p = 0.91315 [>60] p = 0.30828 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.99602[All] p = 0.703874 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.13454No detectable trend: [<=60] p = 0.60962No detectable trend: 16 16 [>60] p = 0.10029 [>60] p = 0.64067 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.17509[All] p = 0.626584 4 log2(Raw expression) 12 12 10 10



CBX2 (non-ER binding) **CBX4** (non-ER binding) [<=60] p = 0.33692No detectable trend: [<=60] p = 0.79639No detectable trend: 16 16 [>60] p = 0.53489 [>60] p = 0.40949 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.49787[All] p = 0.415664 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 = 0.78423No detectable trend: [<=60] p = 0.50361No detectable trend: 16 16 [>60] p = 0.49407 [>60] p = 0.27223 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.76884[All] p = 0.359234 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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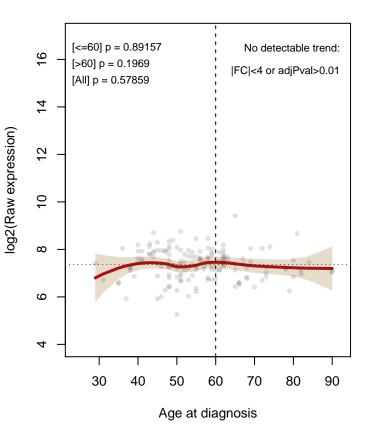
Age at diagnosis

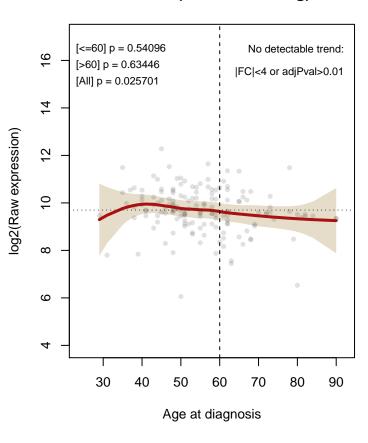
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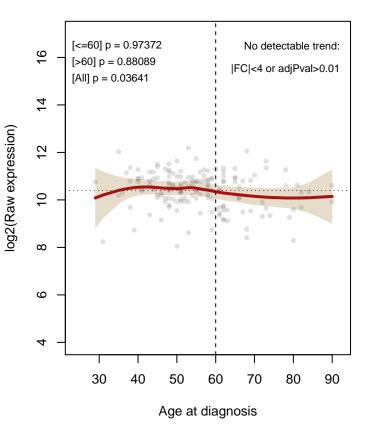
CCNA2 (non-ER binding)

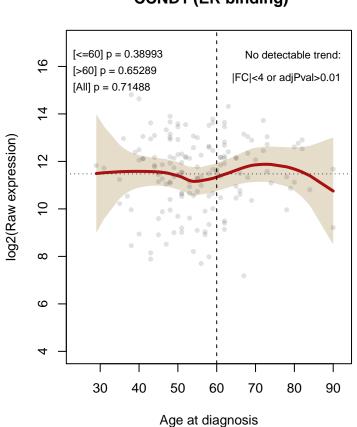


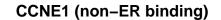


CCNB1 (non-ER binding)

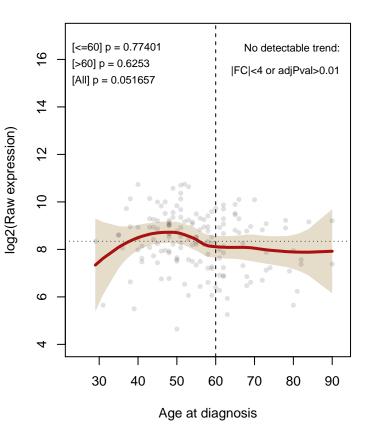
CCND1 (ER binding)

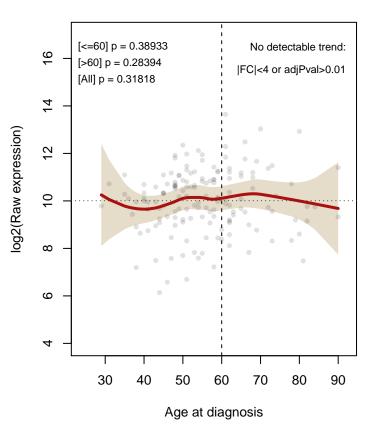






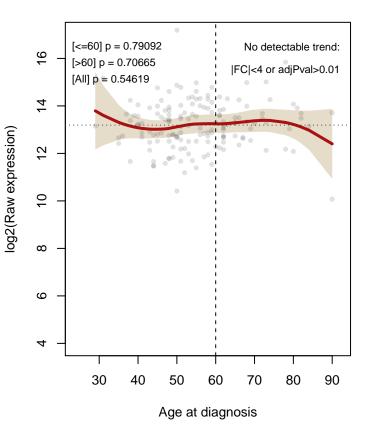
CD163 (non-ER binding)

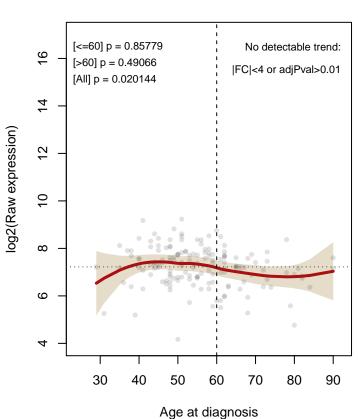


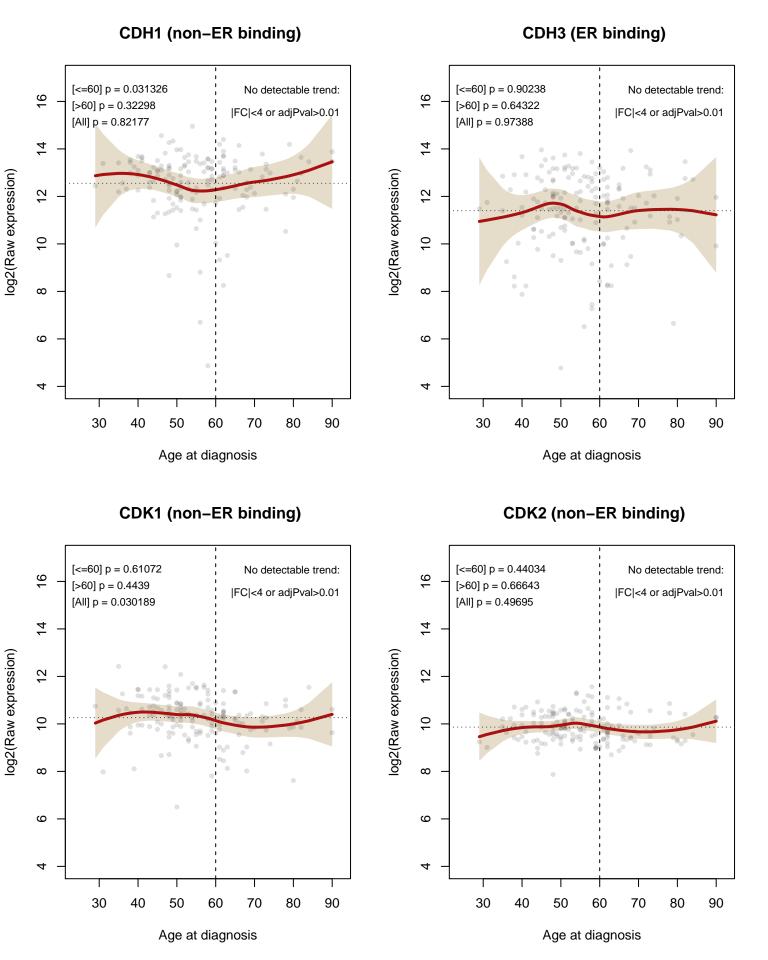


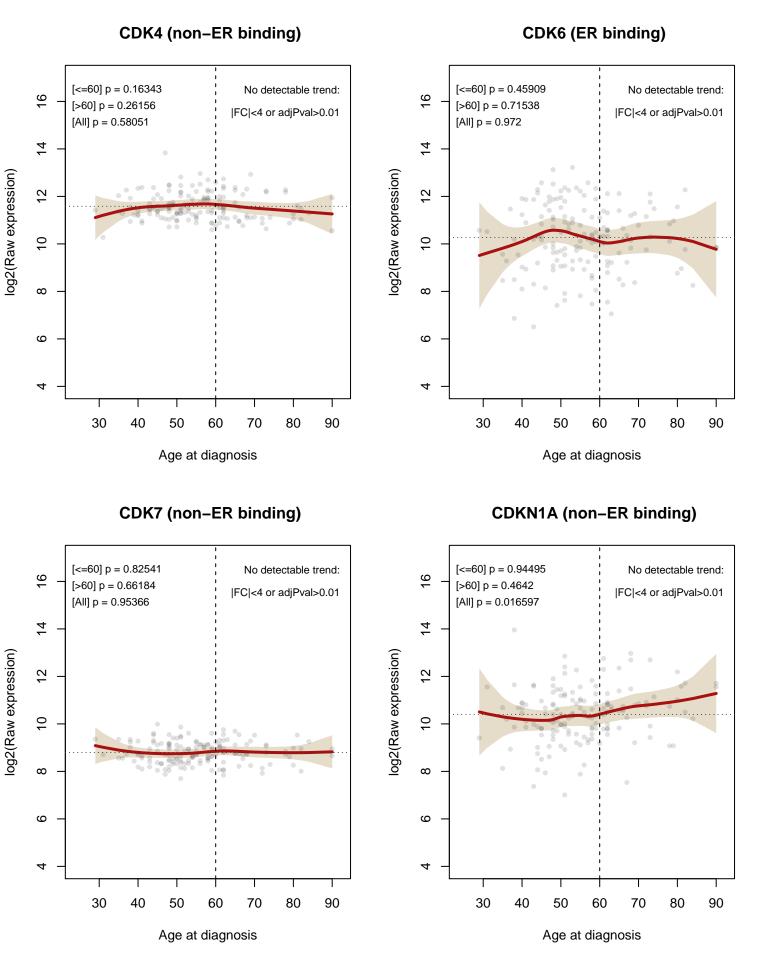
CD44 (non-ER binding)

CDC25C (non-ER binding)



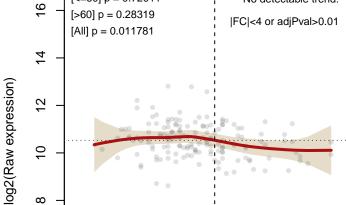




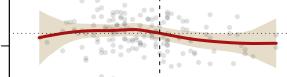


CDKN1B (non-ER binding)

[<=60] p = 0.72011No detectable trend:



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Age at diagnosis

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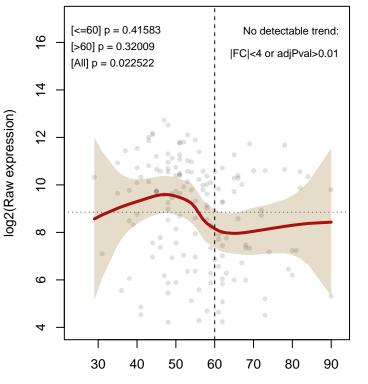
CDKN2A (non-ER binding)

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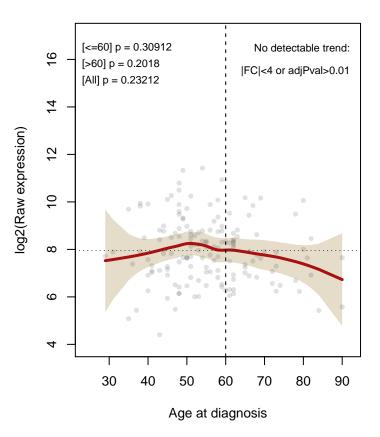
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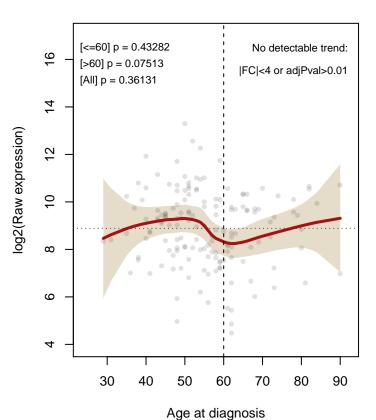


Age at diagnosis

CDKN1C (non-ER binding)

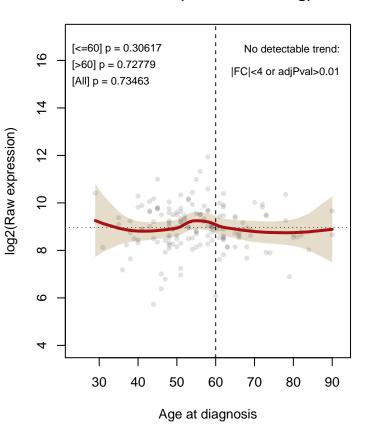


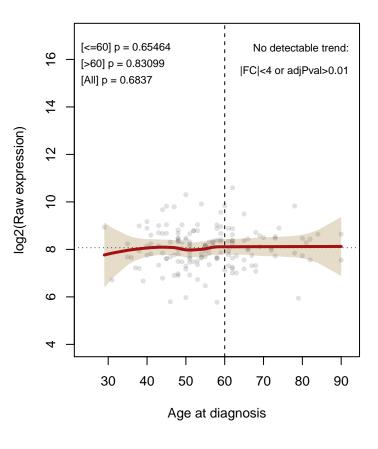
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

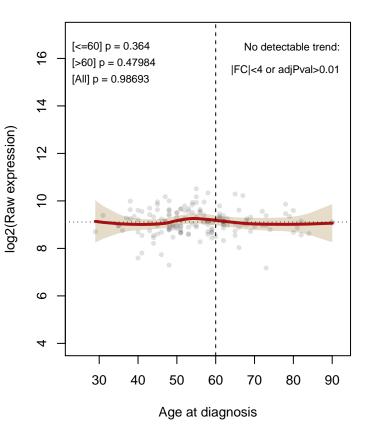
CDKN2D (non-ER binding)

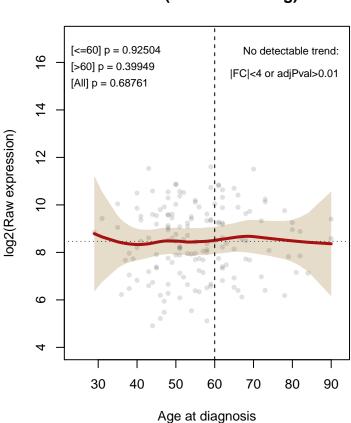




CHUK (non-ER binding)

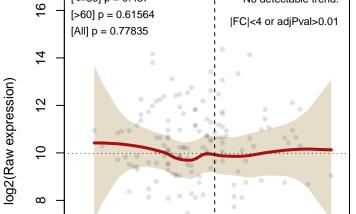
CIITA (non-ER binding)





CLDN3 (non-ER binding)

[<=60] p = 0.437 No detectable trend:



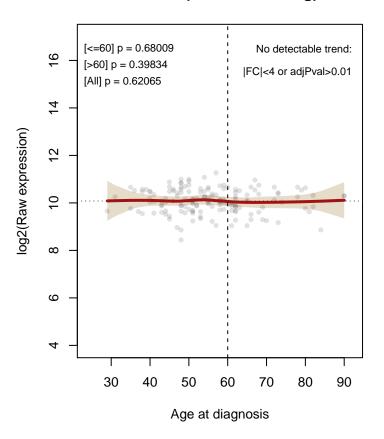
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CREB1 (non-ER binding)



CRYAB (non-ER binding)

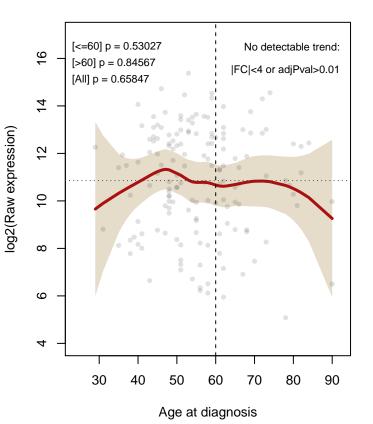
Age at diagnosis

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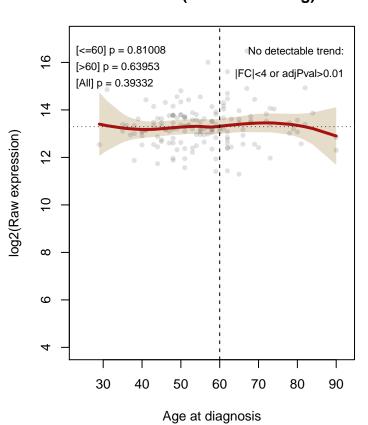
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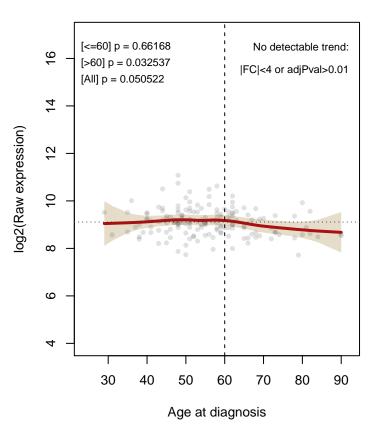


CTNNB1 (non-ER binding)

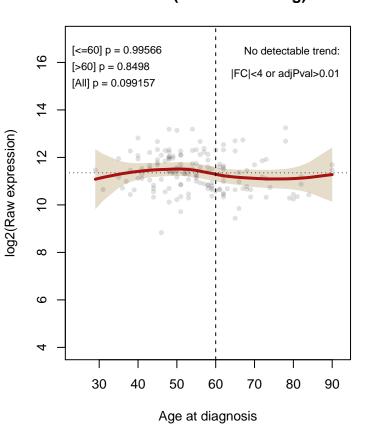


DLC1 (ER binding) [<=60] p = 0.85259No detectable trend: 16 [>60] p = 0.67848 |FC|<4 or adjPval>0.01 [AII] p = 0.605054 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90 Age at diagnosis

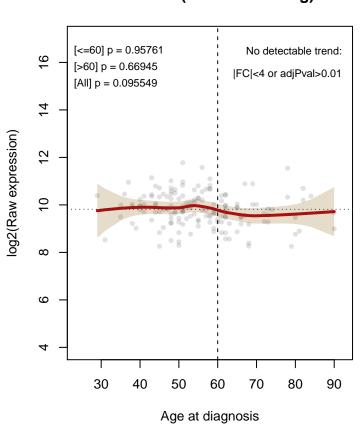
DMAP1 (non-ER binding)



DNMT1 (non-ER binding)



DNMT3A (non-ER binding)



DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.98731No detectable trend: [<=60] p = 0.5239No detectable trend: 16 16 [>60] p = 0.49033 [>60] p = 0.86817 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.49657[AII] p = 0.740954 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 = 0.96592No detectable trend: [<=60] p = 0.57147No detectable trend: 16 16 [>60] p = 0.89273 [>60] p = 0.95254 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.071631[All] p = 0.0451114 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ∞

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Age at diagnosis

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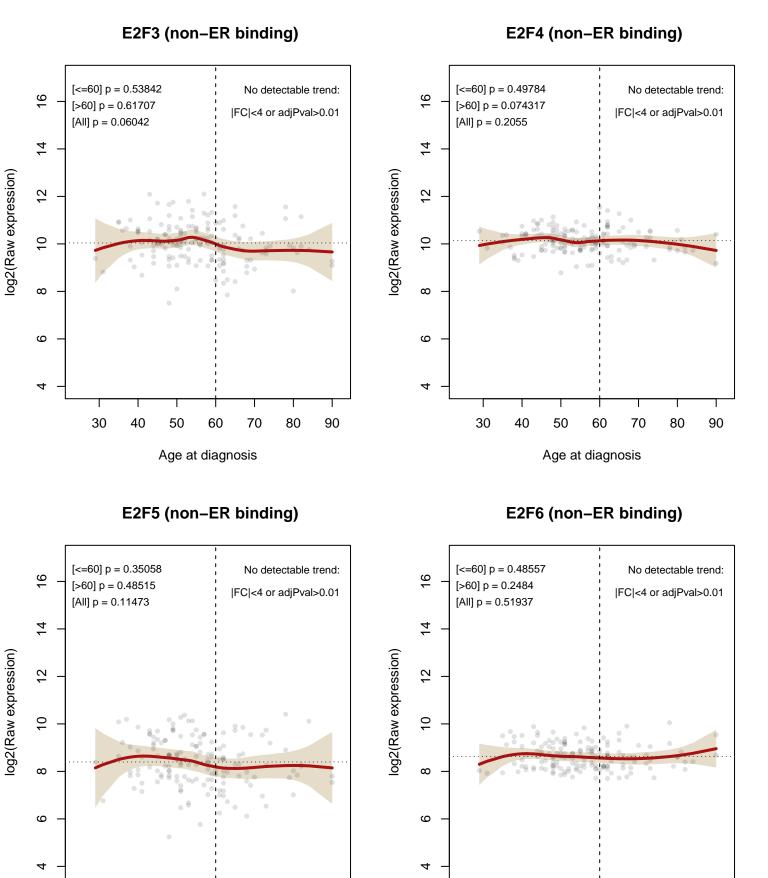
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Age at diagnosis

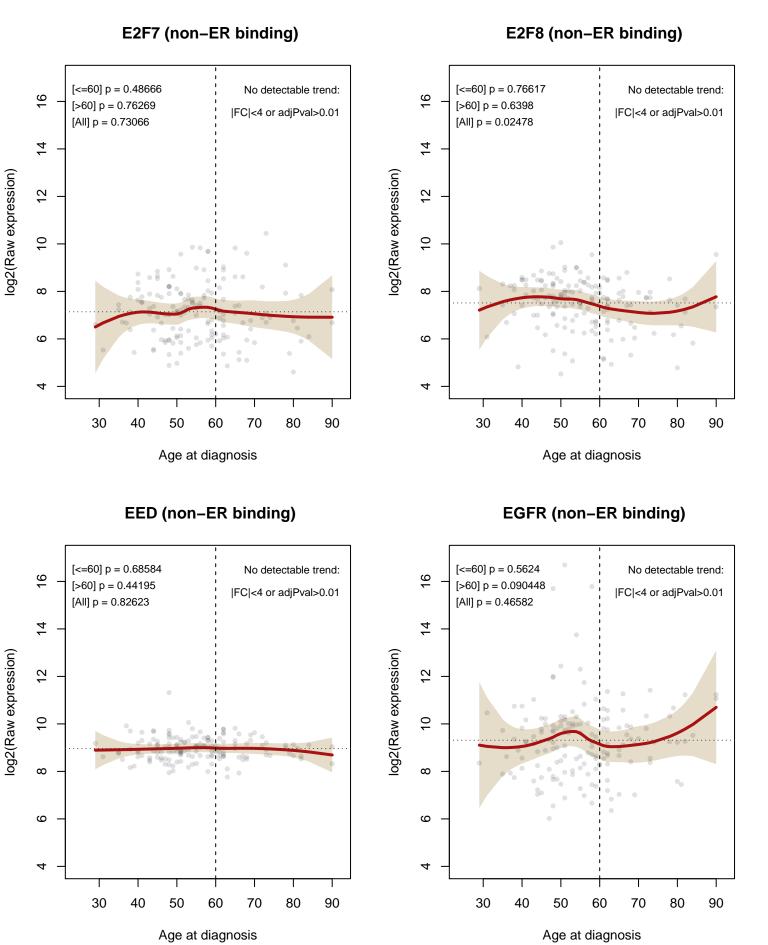
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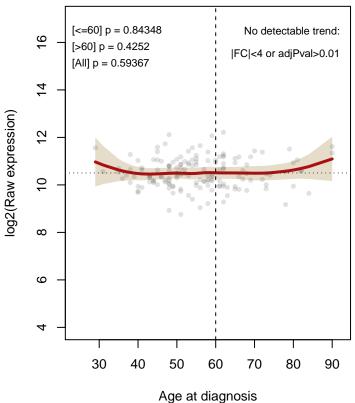
Age at diagnosis

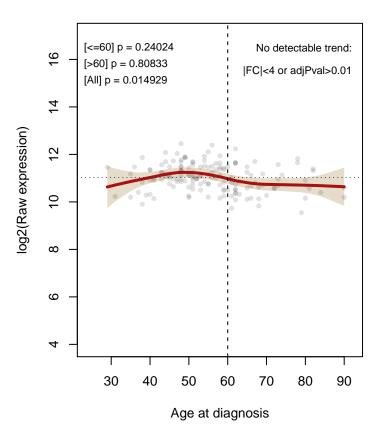
Age at diagnosis





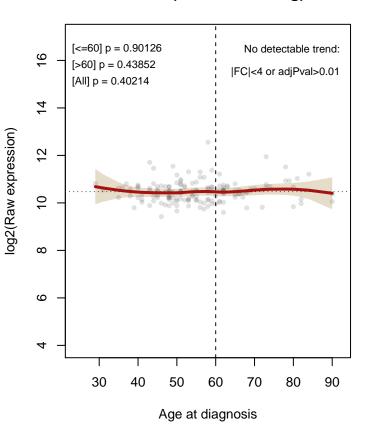
EHMT2 (non-ER binding)

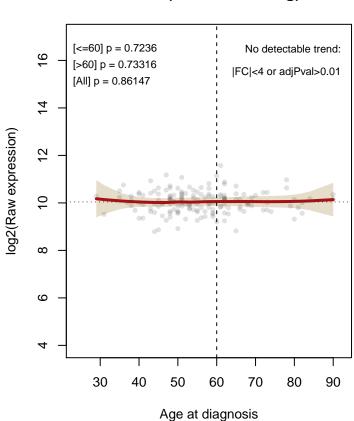




ELAC2 (non-ER binding)

ELK1 (non-ER binding)





EP300 (non-ER binding) **EPAS1** (non-ER binding) [<=60] p = 0.5645No detectable trend: [<=60] p = 0.60365No detectable trend: 16 16 [>60] p = 0.80621 [>60] p = 0.88249 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.40731[AII] p = 0.0403424 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 **EPC1** (non-ER binding) **EPC2** (non-ER binding) [<=60] p = 0.57595No detectable trend: [<=60] p = 0.36216No detectable trend: 16 16 [>60] p = 0.61268[>60] p = 0.55157 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.11108[AII] p = 0.570874 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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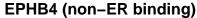
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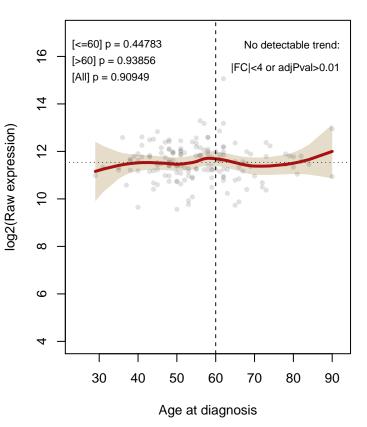
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Age at diagnosis

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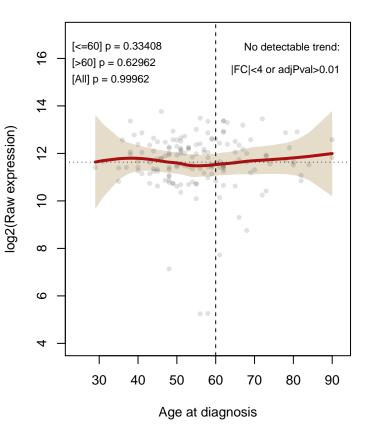




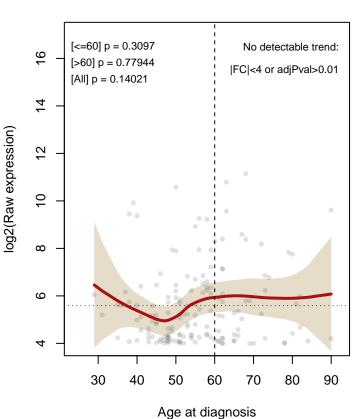
[<=60] p = 0.91739No detectable trend: 16 [>60] p = 0.33684 |FC|<4 or adjPval>0.01 [All] p = 0.376634 log2(Raw expression) 12 10 ∞ 9 30 40 50 60 70 80 90 Age at diagnosis

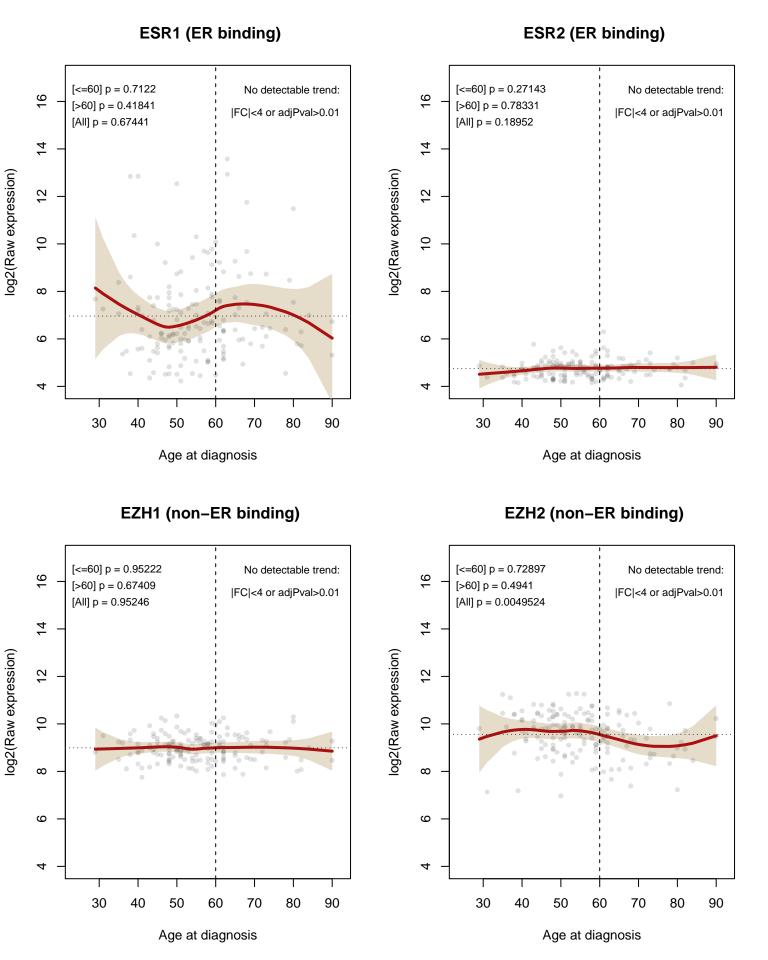
ERBB2 (non-ER binding)

ERBB3 (non-ER binding)



ERBB4 (ER binding)





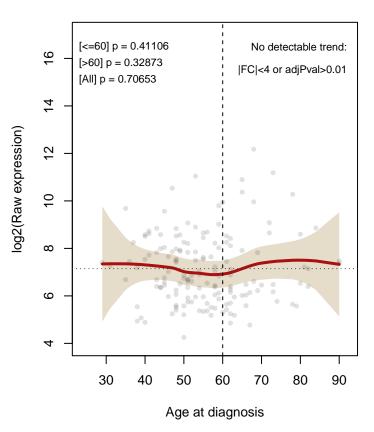
FOS (non-ER binding) [<=60] p = 0.86776 | No detectable trend: |FC|<4 or adjPval>0.01 | FC|<4 or adjPval>0.01

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FOSL1 (non-ER binding)



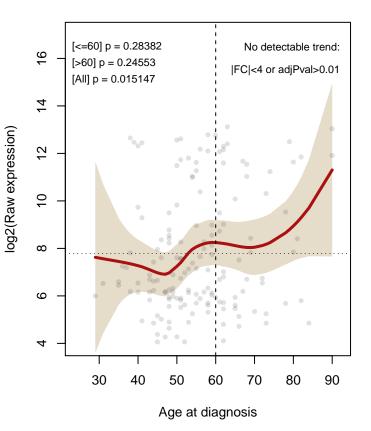
FOXA1 (ER binding)

Age at diagnosis

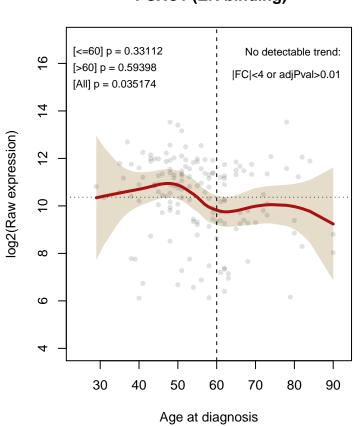
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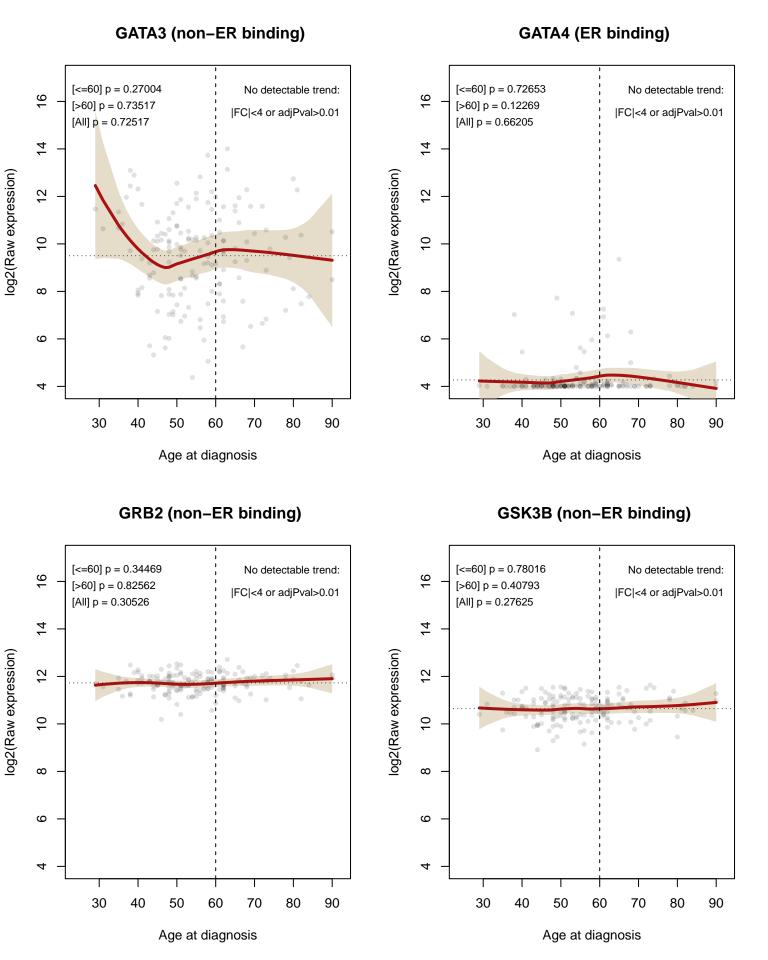
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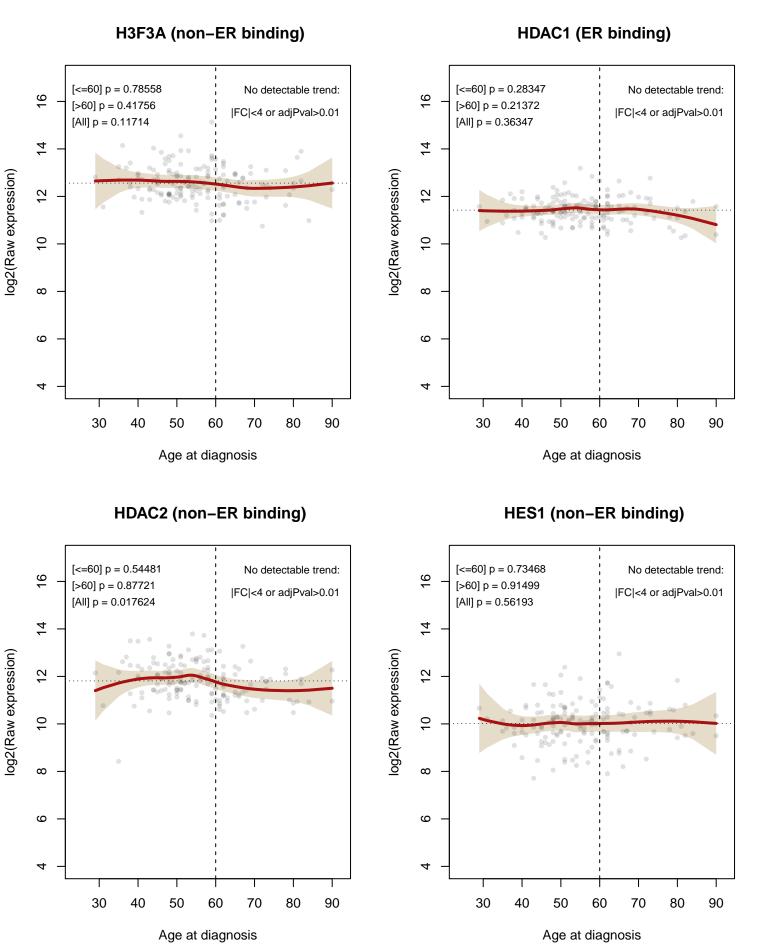
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FOXC1 (ER binding)

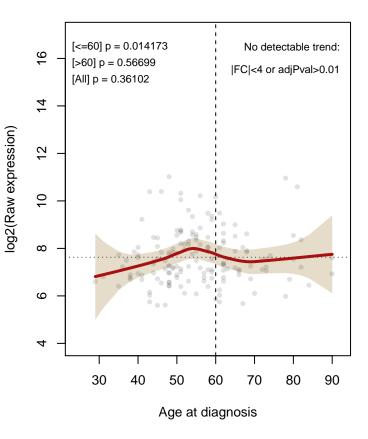


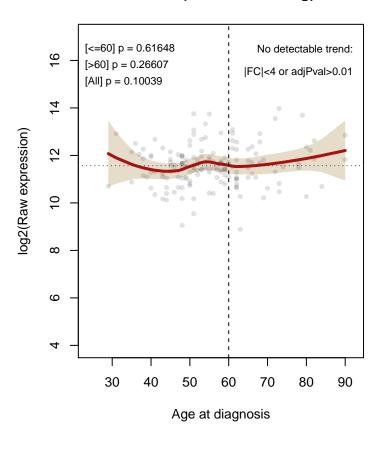






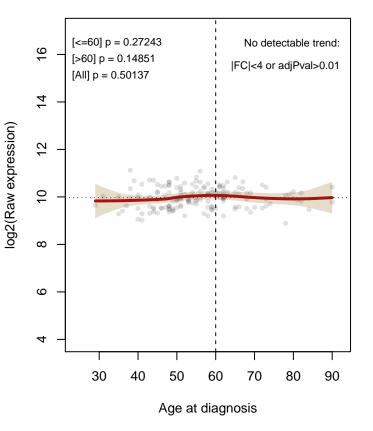
HIF1A (non-ER binding)

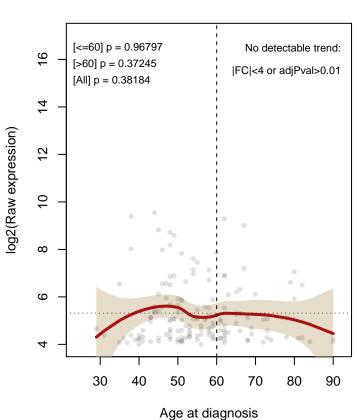




HIF1AN (non-ER binding)

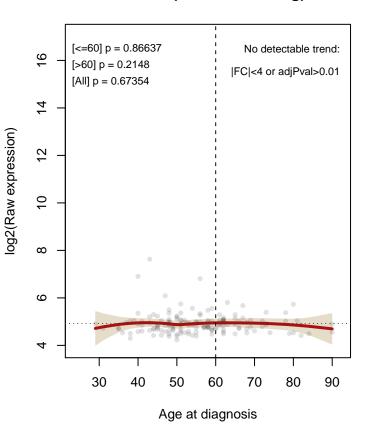
HIF3A (non-ER binding)

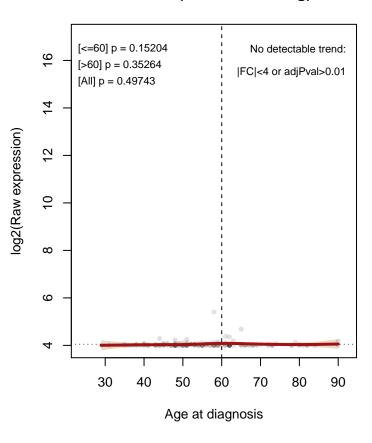




HNF1A (non-ER binding)

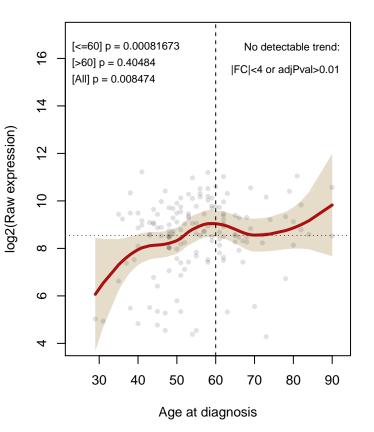
HNF1B (non-ER binding)

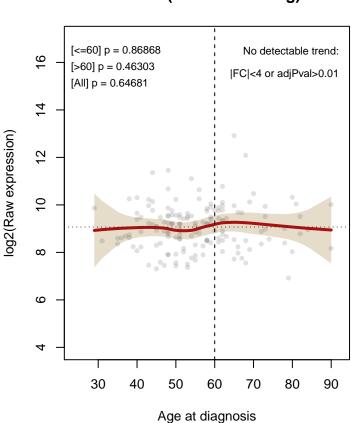




HOXC10 (non-ER binding)

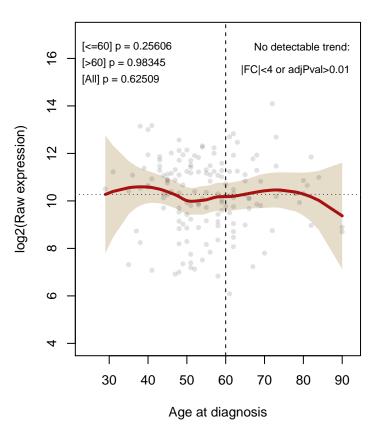
HRAS (non-ER binding)





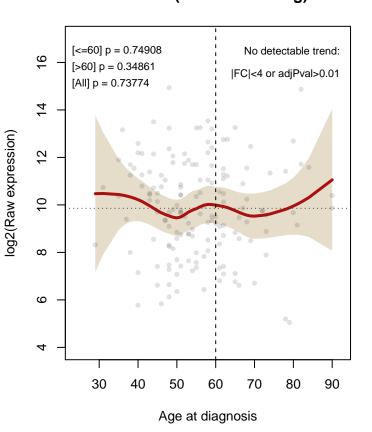
HSPB1 (non–ER binding) | Color | Colo

IGF1R (ER binding)

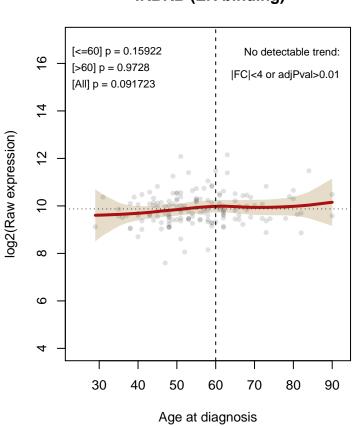


IGFBP2 (non-ER binding)

Age at diagnosis



IKBKB (ER binding)



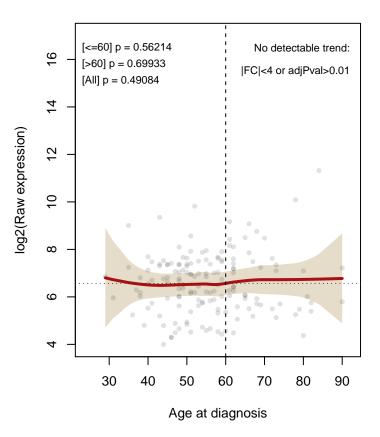
| Comparison of the content of the c

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IL2RA (non-ER binding)



IL6 (non-ER binding)

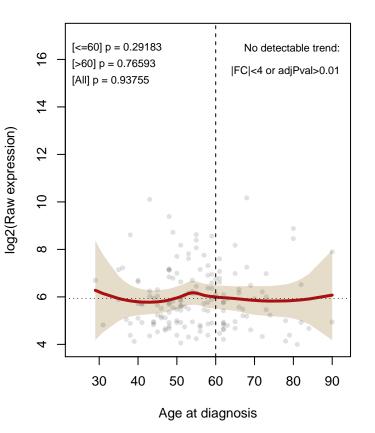
Age at diagnosis

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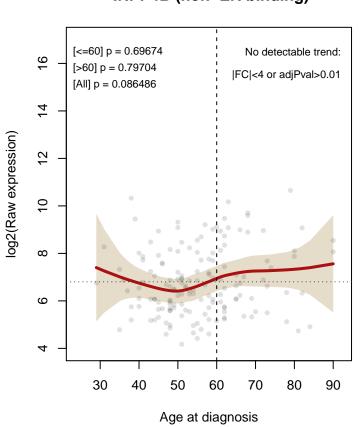
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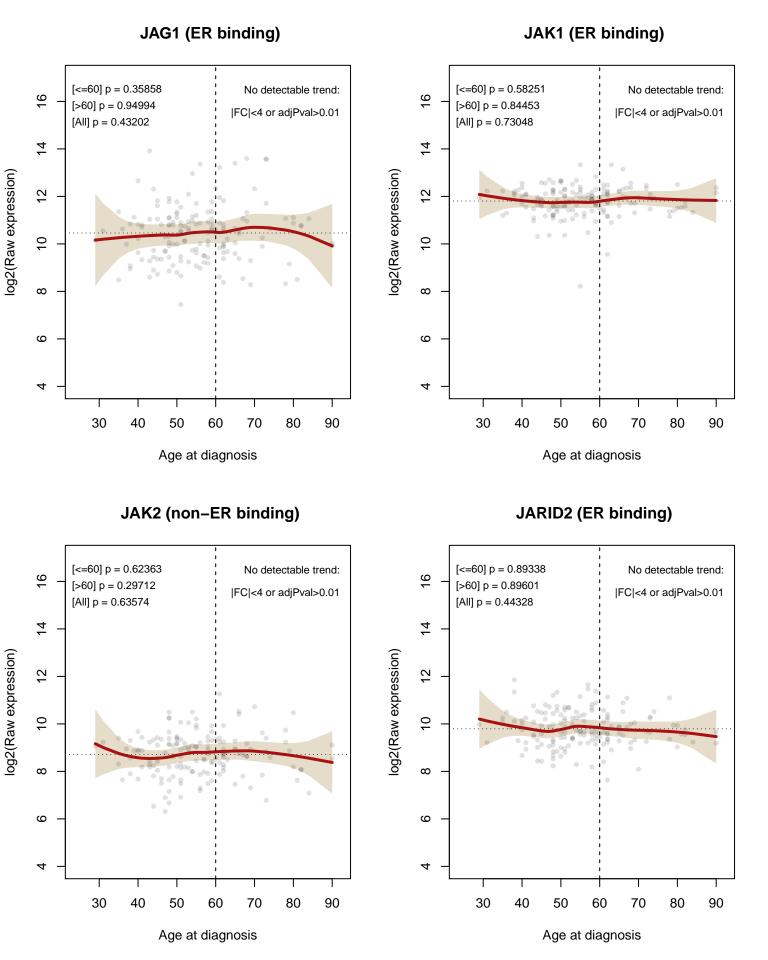
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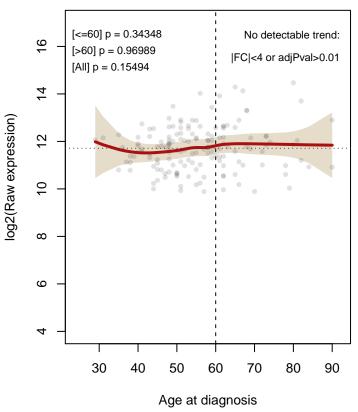
INPP4B (non-ER binding)

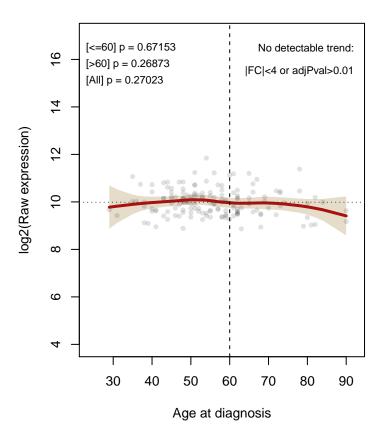






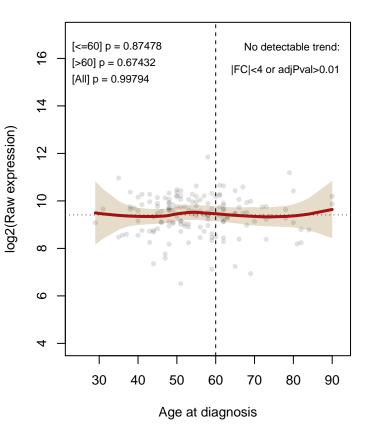
KDM2B (non-ER binding)

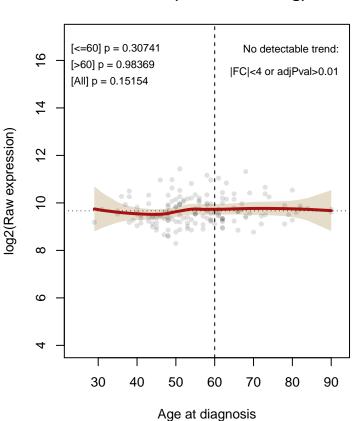




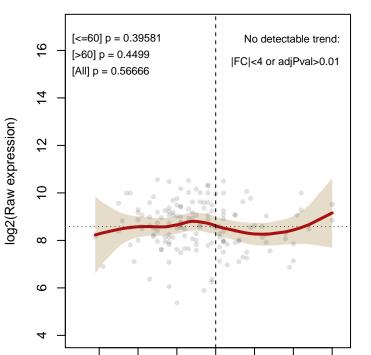
KDM6A (non-ER binding)

KDM6B (non-ER binding)

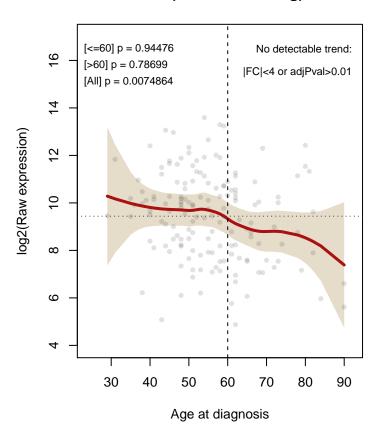








KIT (non-ER binding)



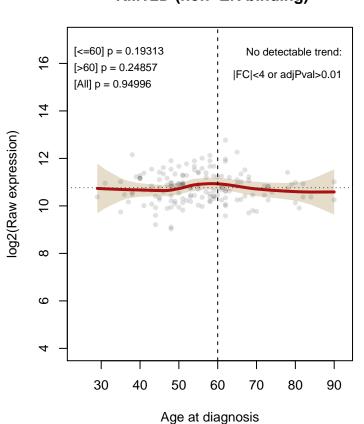
KMT2C (non-ER binding)

Age at diagnosis

[<=60] p = 0.58265No detectable trend: [>60] p = 0.38755 |FC|<4 or adjPval>0.01 [All] p = 0.53665log2(Raw expression) ω

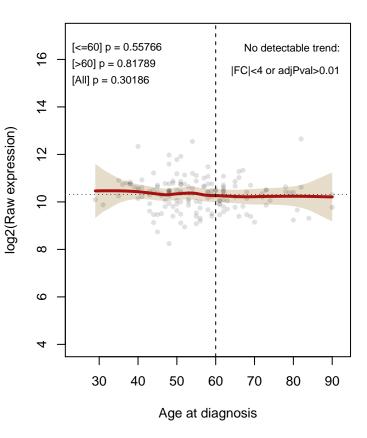
Age at diagnosis

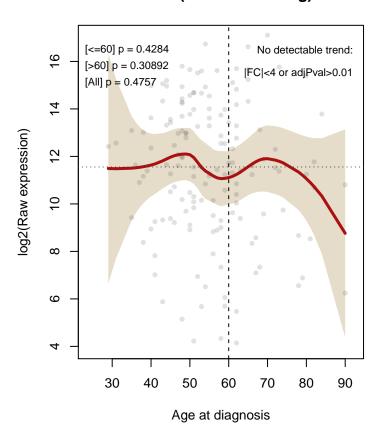
KMT2D (non-ER binding)





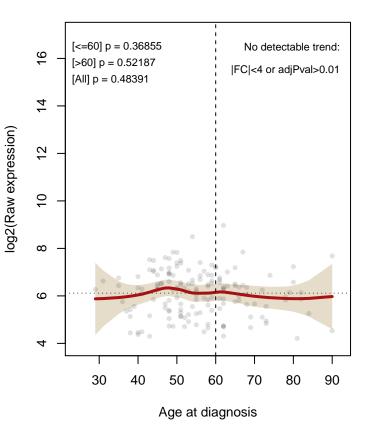
KRT5 (non-ER binding)

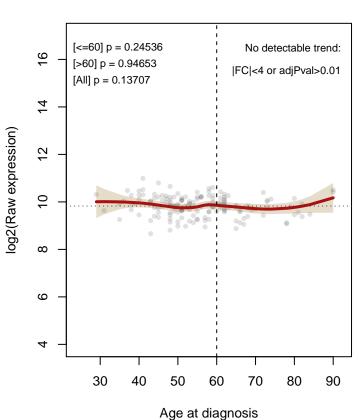




L3MBTL1 (non-ER binding)

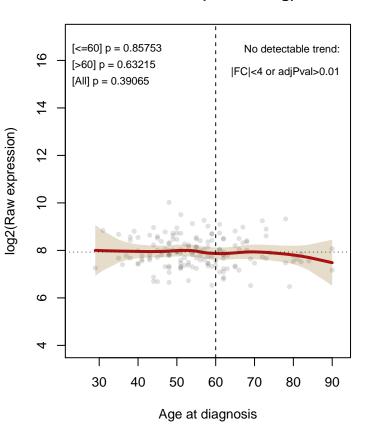
L3MBTL2 (non-ER binding)

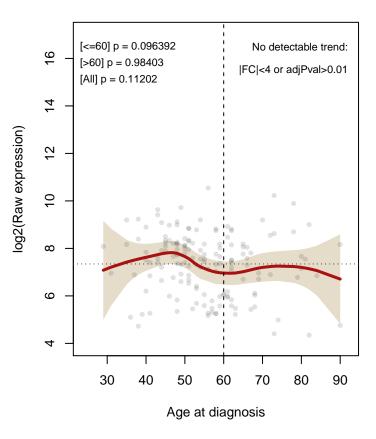




L3MBTL3 (ER binding)

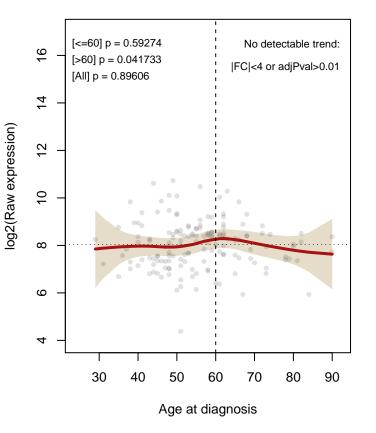
L3MBTL4 (non-ER binding)

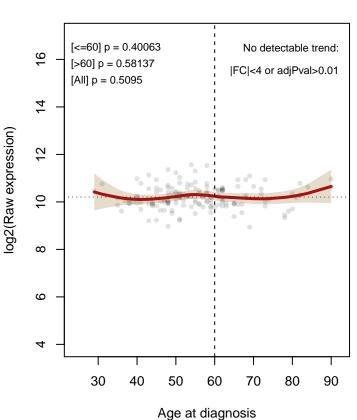




LEF1 (non-ER binding)

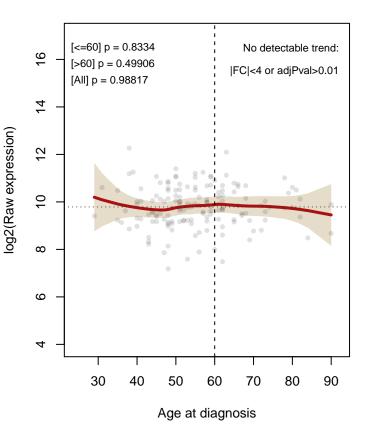
MAP2K1 (non-ER binding)

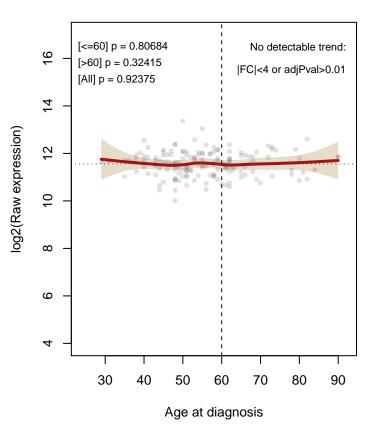






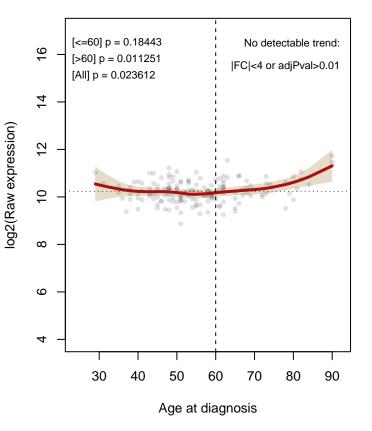
MAPK1 (non-ER binding)

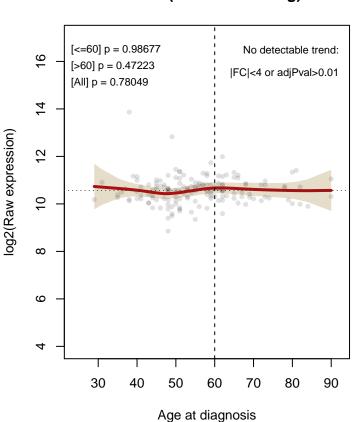


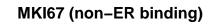


MAPK3 (non-ER binding)

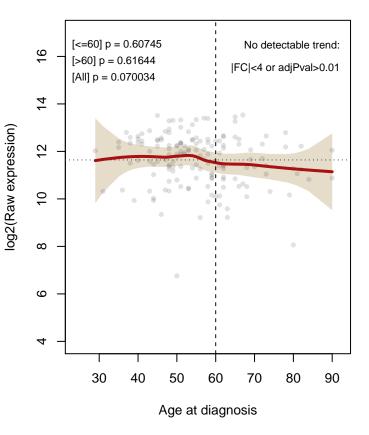
MDM2 (non-ER binding)

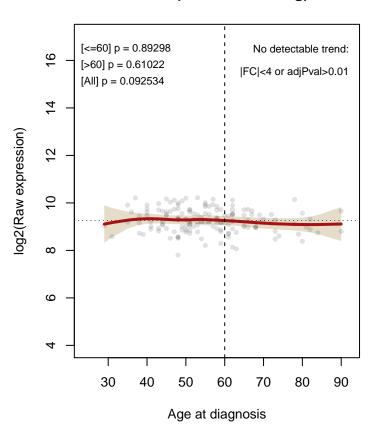






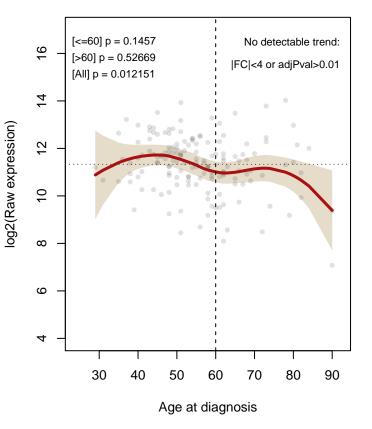
MTF2 (non-ER binding)

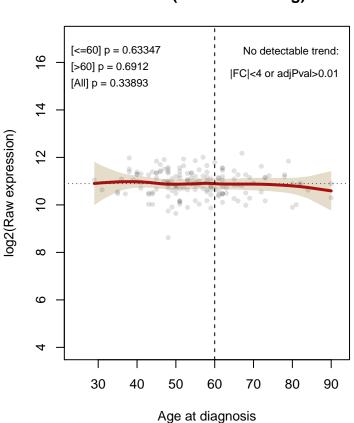




MYC (non-ER binding)

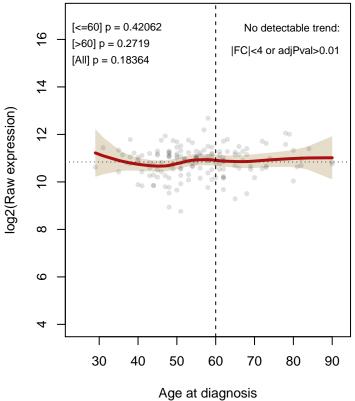
NCOA6 (non-ER binding)

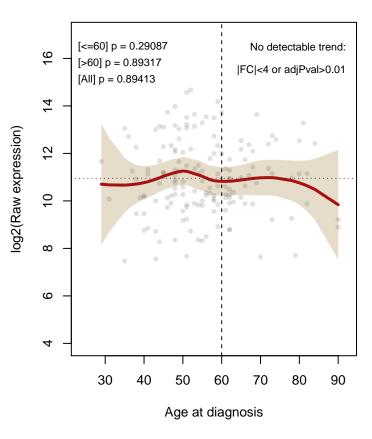




NCOR1 (non–ER binding) [<=60] p = 0.42062 No detectable

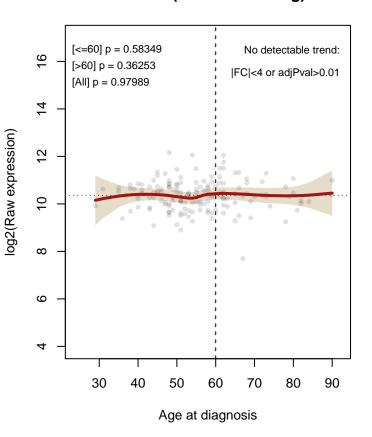
NES (non-ER binding)

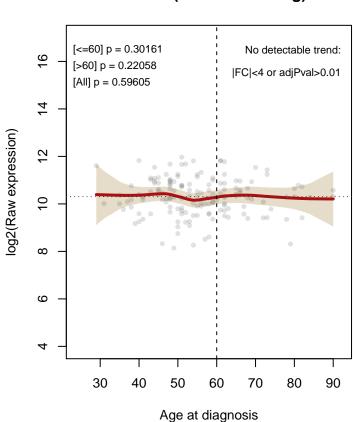




NFKB1 (non-ER binding)

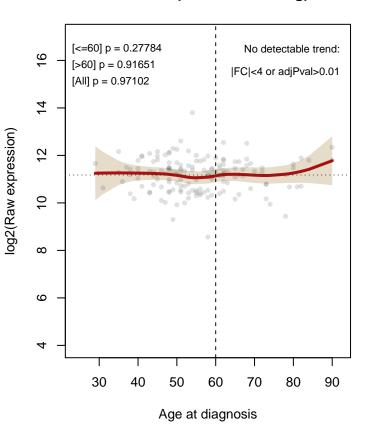
NFKB2 (non-ER binding)

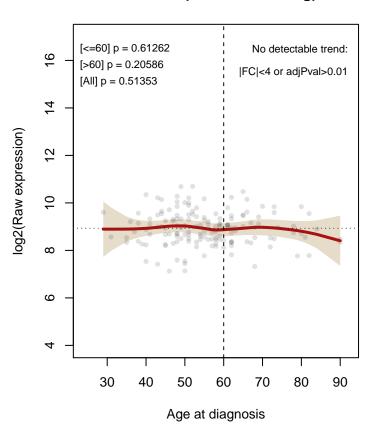




NFKBIA (non-ER binding)

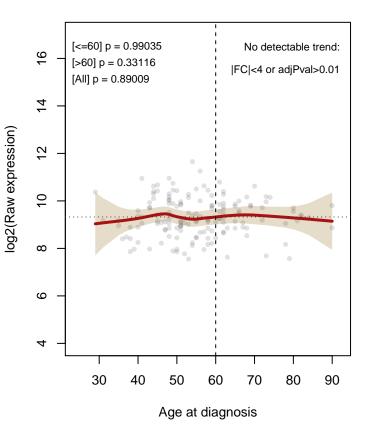
NFKBIB (non-ER binding)

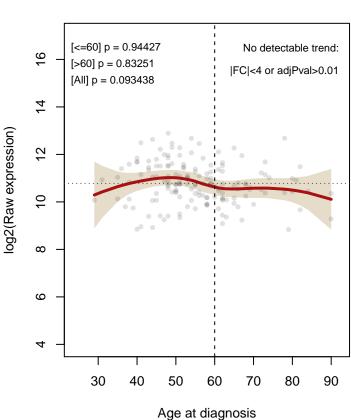




NFKBIE (non-ER binding)

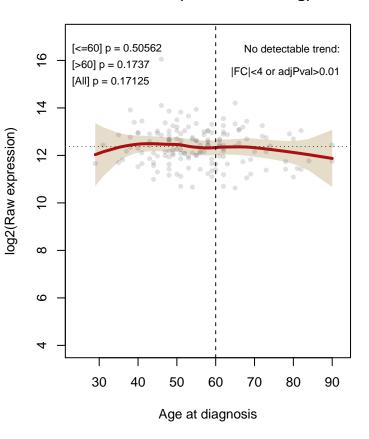
NOTCH1 (non-ER binding)

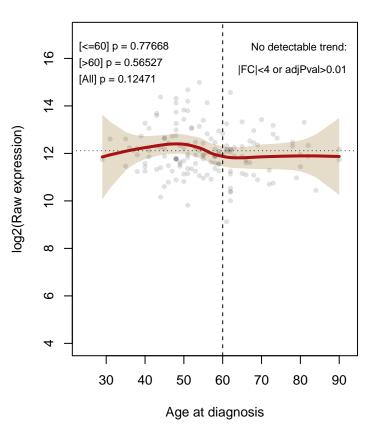




NOTCH2 (non-ER binding)

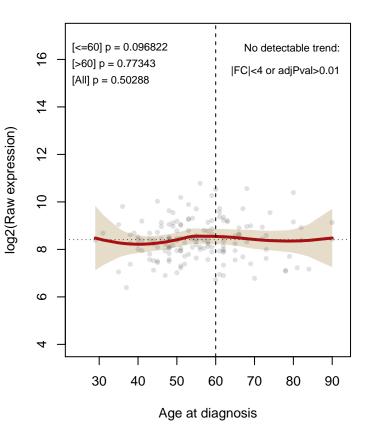
NOTCH3 (non-ER binding)

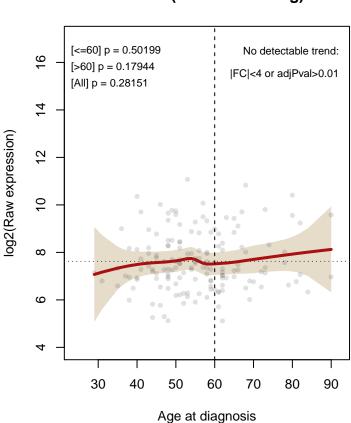


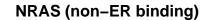


NOTCH4 (non-ER binding)

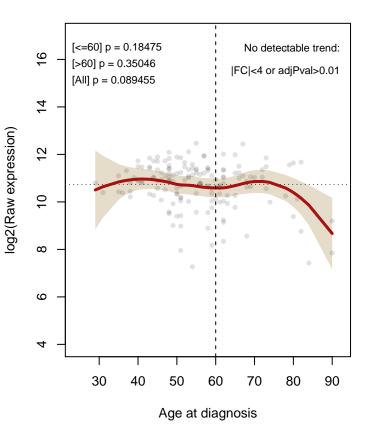
NR4A2 (non-ER binding)

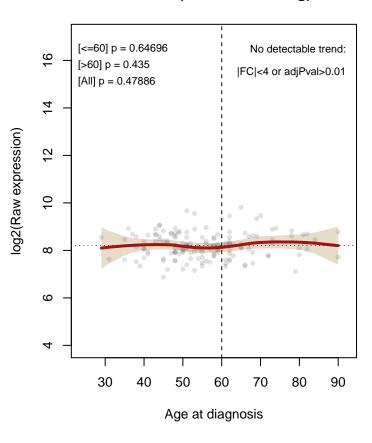






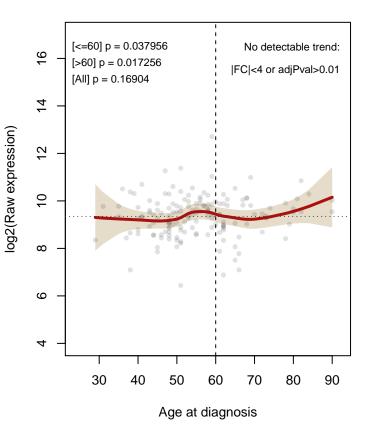
PCGF1 (non-ER binding)

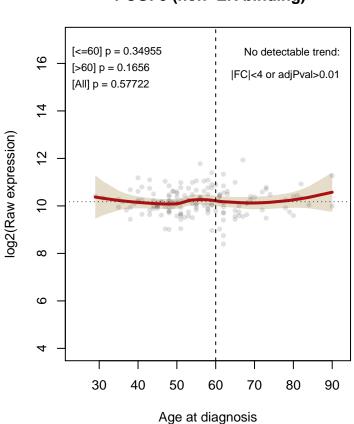


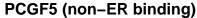


PCGF2 (non-ER binding)

PCGF3 (non-ER binding)







No detectable trend:

|FC|<4 or adjPval>0.01

[<=60] p = 0.55279

[>60] p = 0.98566

[All] p = 0.52169

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16

4

12

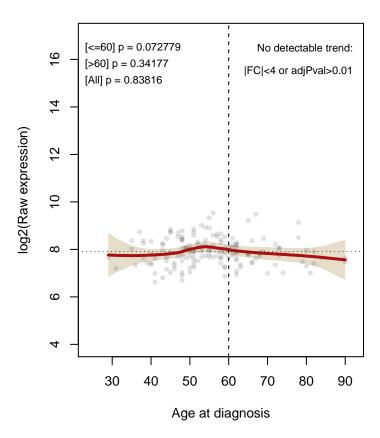
10

ω

9

log2(Raw expression)

PCGF6 (non-ER binding)



PDGFRA (non-ER binding)

Age at diagnosis

60

70

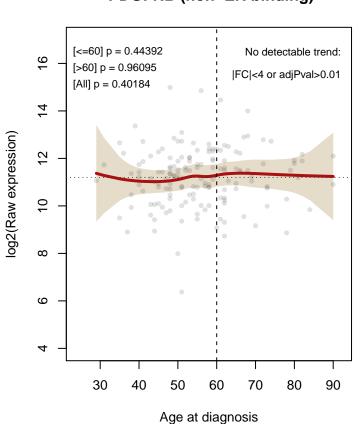
80

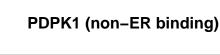
90

[<=60] p = 0.98364No detectable trend: 16 [>60] p = 0.58663|FC|<4 or adjPval>0.01 [AII] p = 0.462074 log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

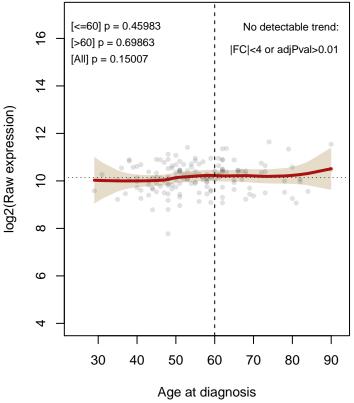
Age at diagnosis

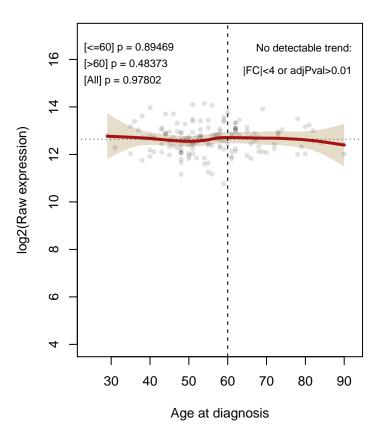
PDGFRB (non-ER binding)





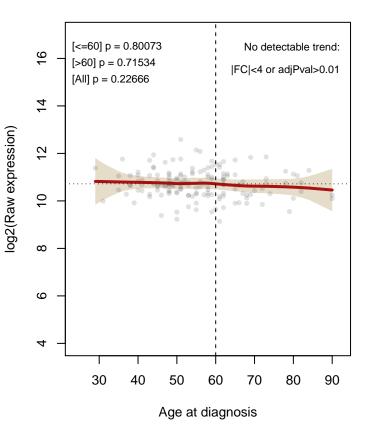
PEBP1 (non-ER binding)

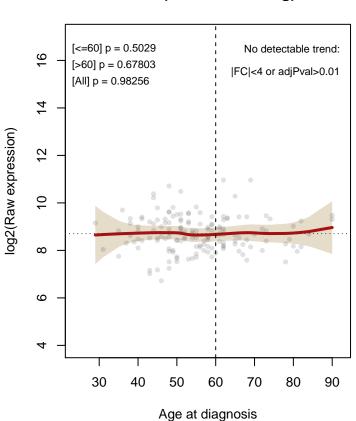


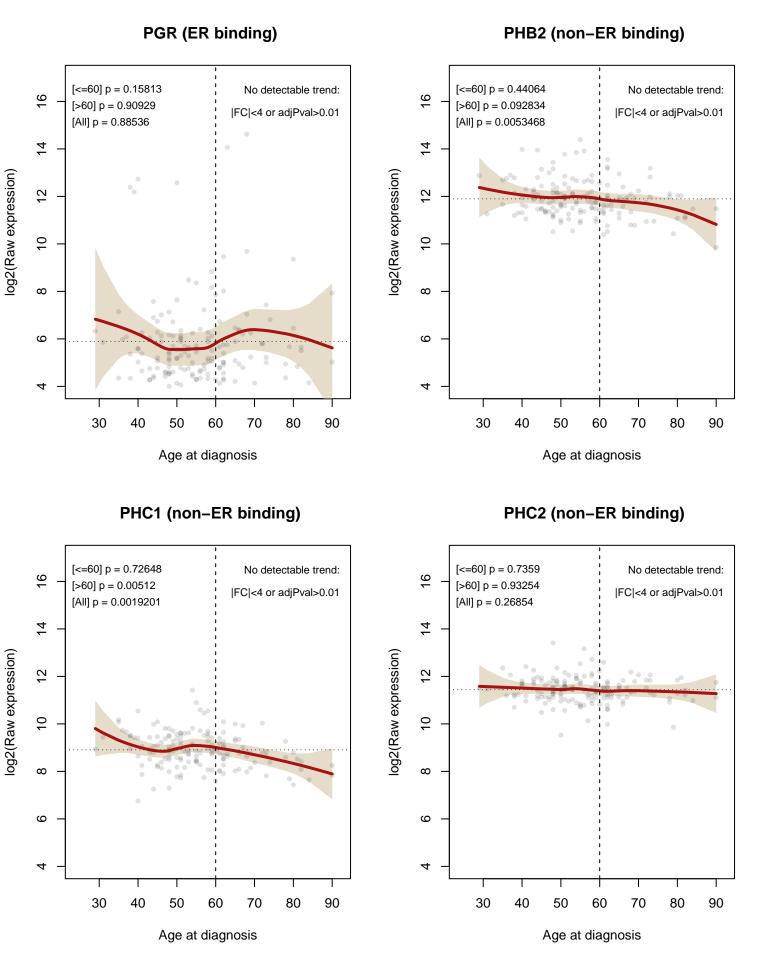


PELP1 (non-ER binding)

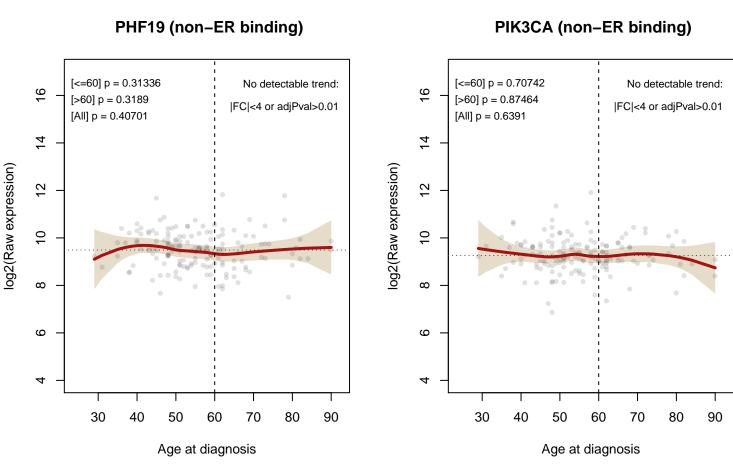
PGP (non-ER binding)







PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.50389No detectable trend: [<=60] p = 0.022557No detectable trend: 16 16 [>60] p = 0.59059 [>60] p = 0.9634|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.85159[All] p = 0.0237374 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 Age at diagnosis Age at diagnosis PHF19 (non-ER binding) [<=60] p = 0.31336No detectable trend: [<=60] p = 0.7074216 16 [>60] p = 0.87464[>60] p = 0.3189

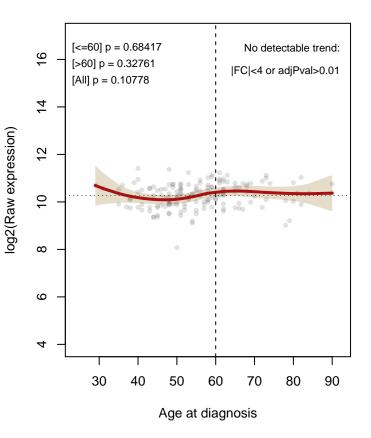


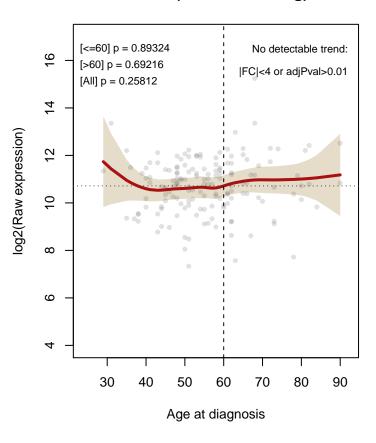
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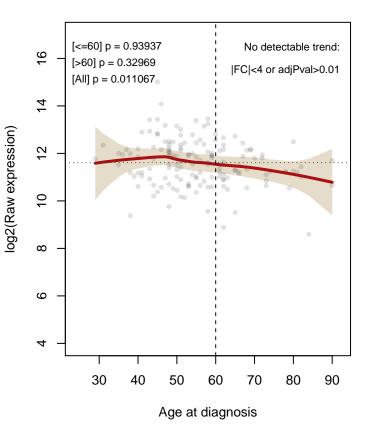
PLAU (non-ER binding)

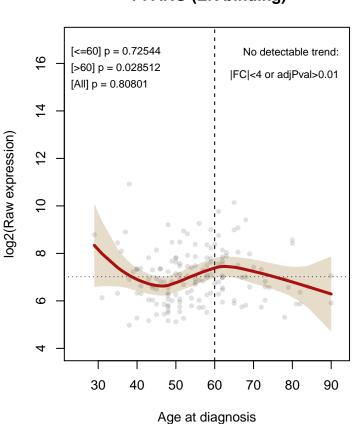


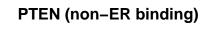


PODXL (non-ER binding)

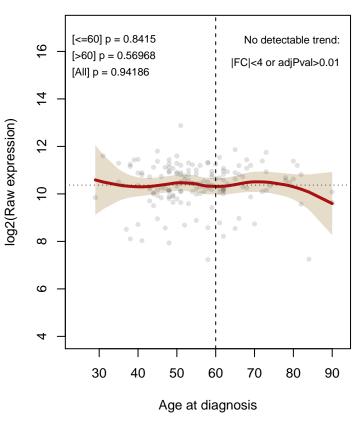
PPARG (ER binding)

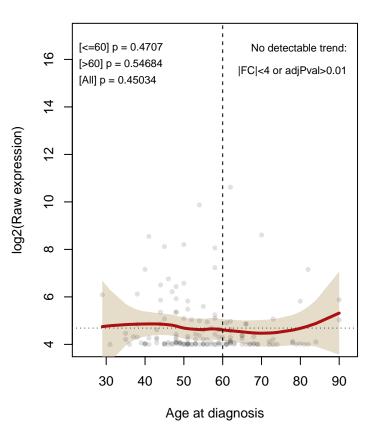






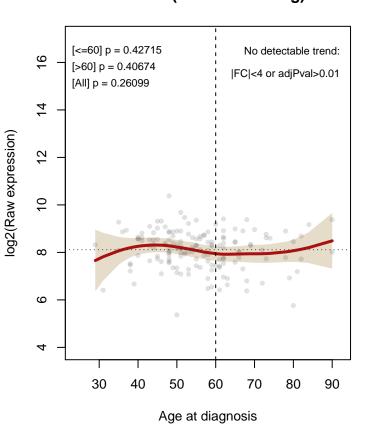
PYDC1 (non-ER binding)

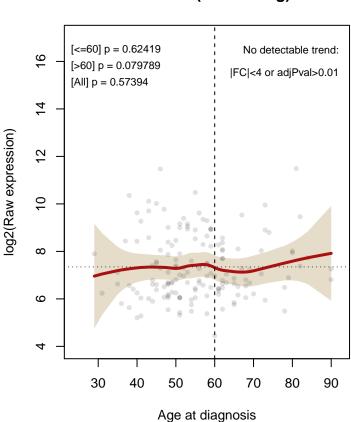




RAD51 (non-ER binding)

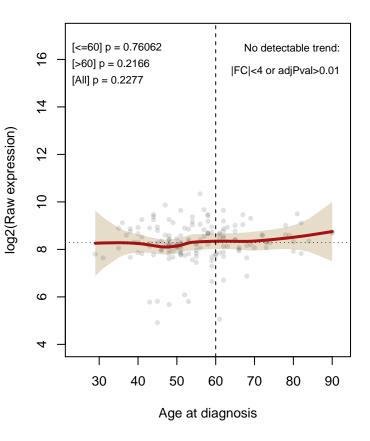
RAD51B (ER binding)

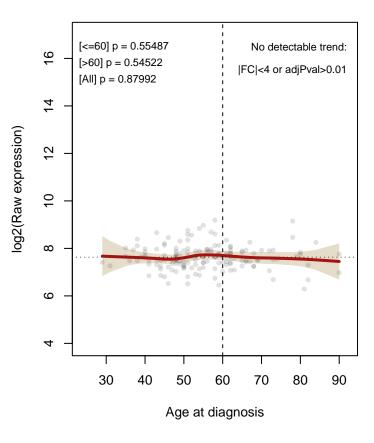




RAD51C (non-ER binding)

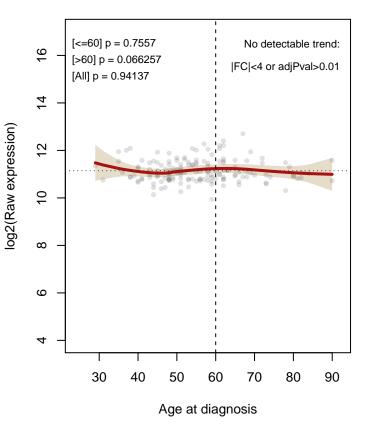
RAD51D (non-ER binding)

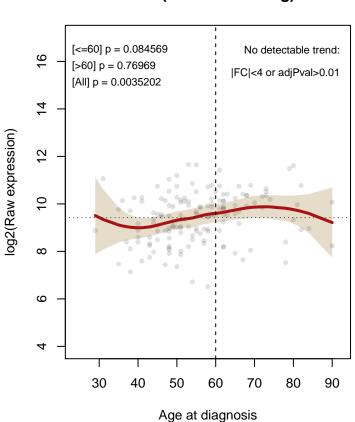




RAF1 (non-ER binding)

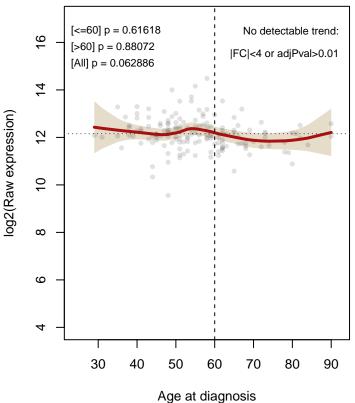
RB1 (non-ER binding)

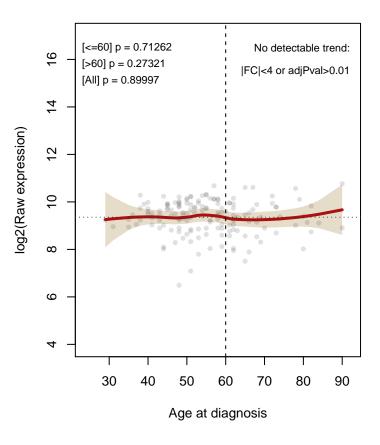






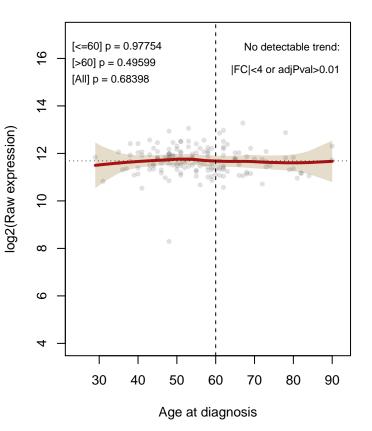
RBBP5 (non-ER binding)

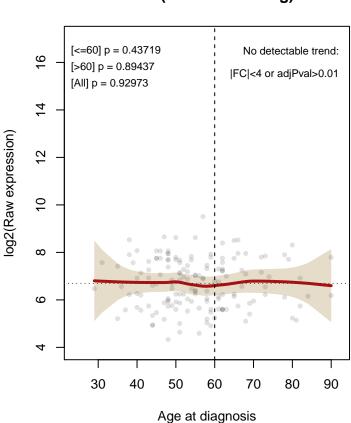


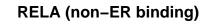


RBBP7 (non-ER binding)

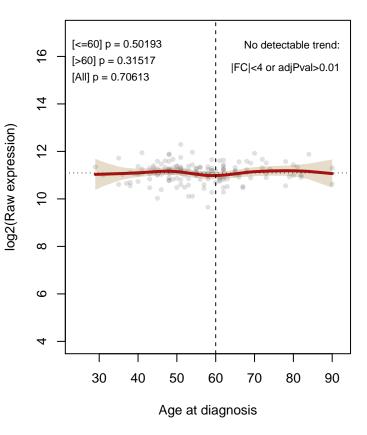
REL (non-ER binding)

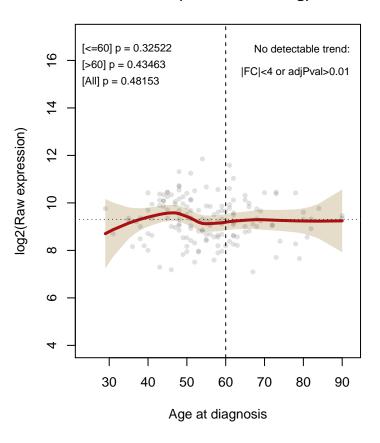






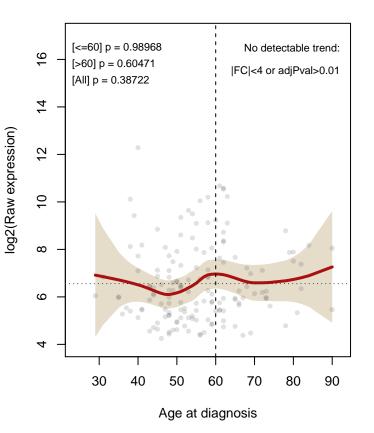
RELB (non-ER binding)

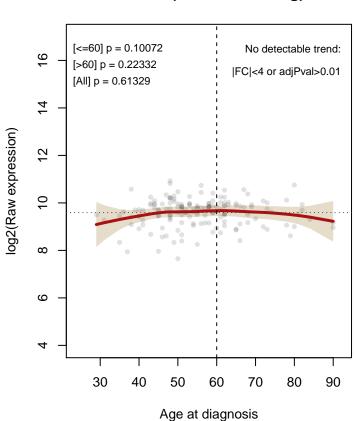


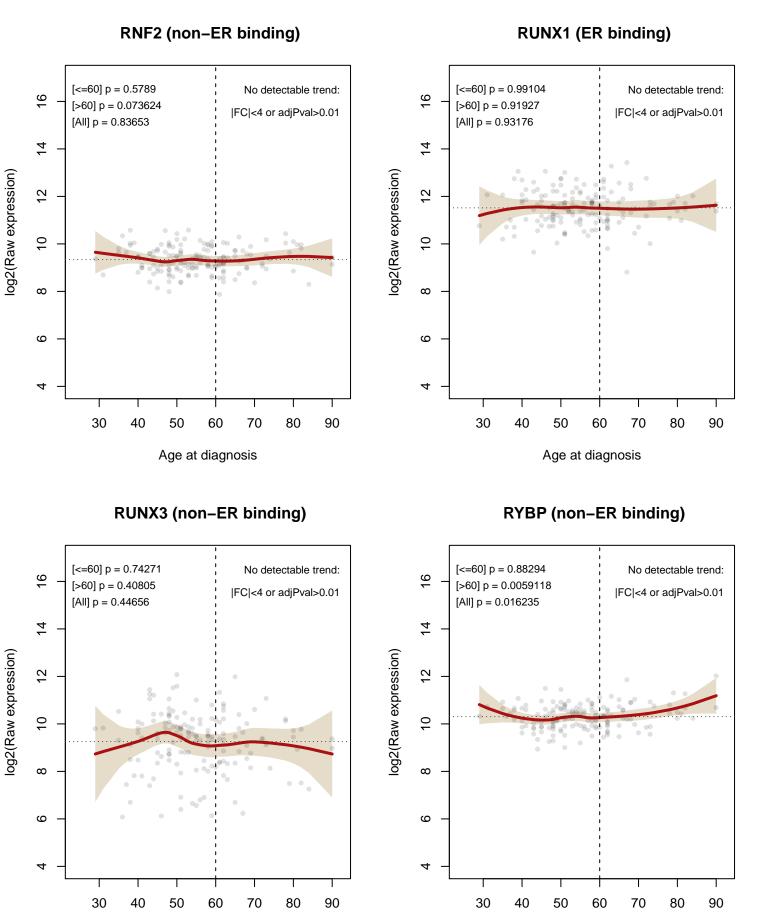


RET (ER binding)

RING1 (non-ER binding)





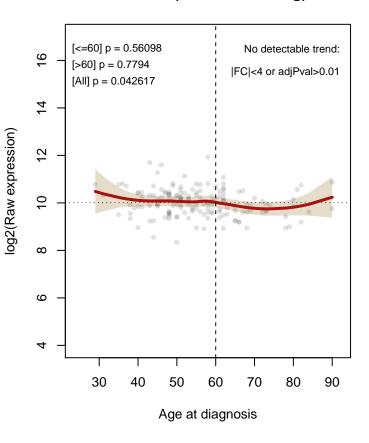


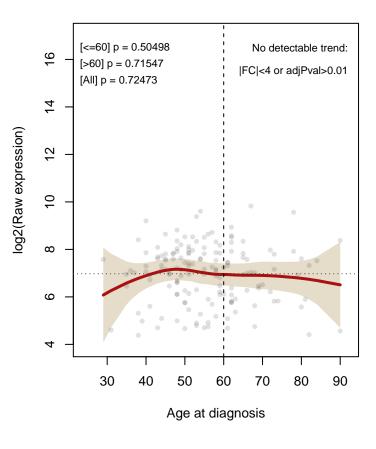
Age at diagnosis

Age at diagnosis

SCMH1 (non-ER binding)

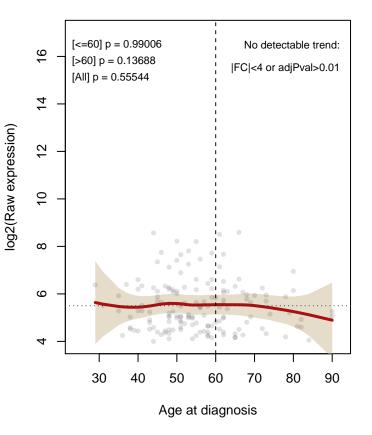
SCML2 (non-ER binding)

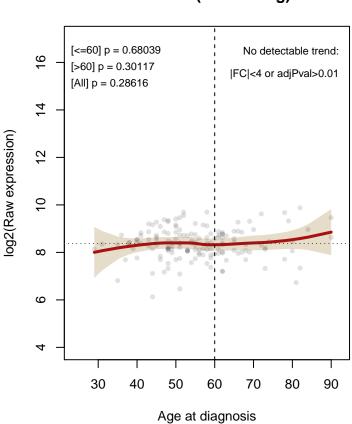




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.74006No detectable trend: [<=60] p = 0.36065No detectable trend: 16 16 [>60] p = 0.87906 [>60] p = 0.070362 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.17073[All] p = 0.47554 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 = 0.64867No detectable trend: [<=60] p = 0.30762No detectable trend: 16 16 [>60] p = 0.6413 [>60] p = 0.058307|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.13166[All] p = 0.721024 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

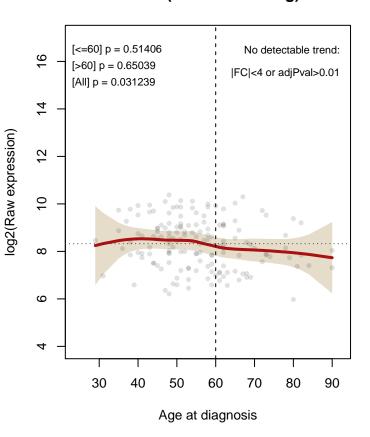
70

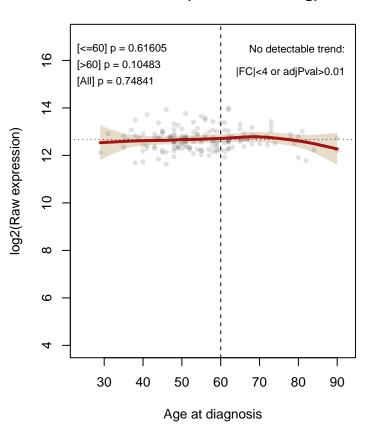
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SKP2 (non-ER binding)

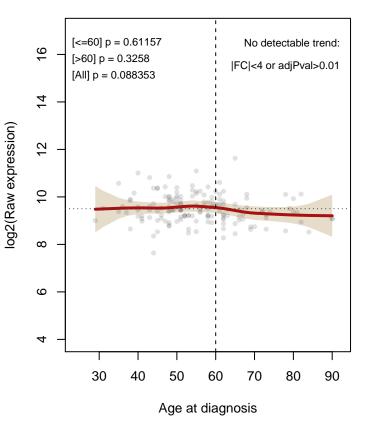
SLC25A3 (non-ER binding)

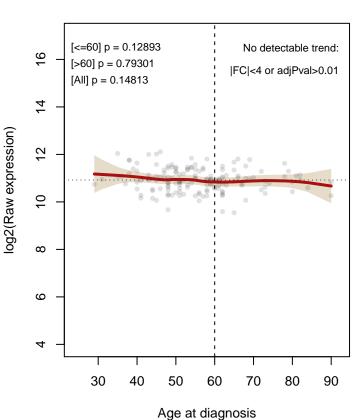




SMAD1 (non-ER binding)

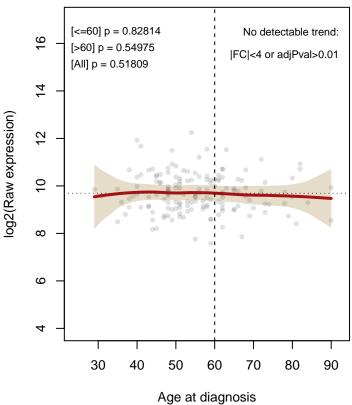
SMAD2 (non-ER binding)

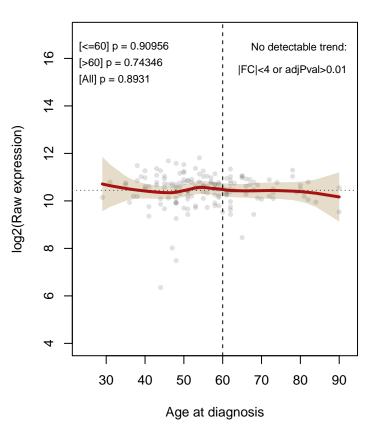




SMAD3 (ER binding)

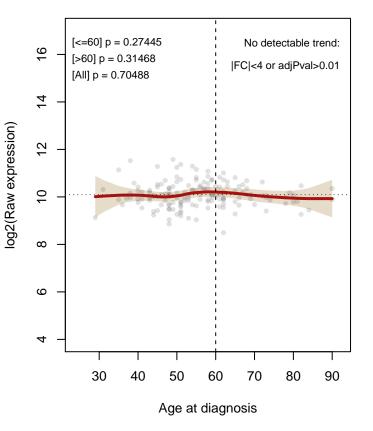
SMAD4 (non-ER binding)

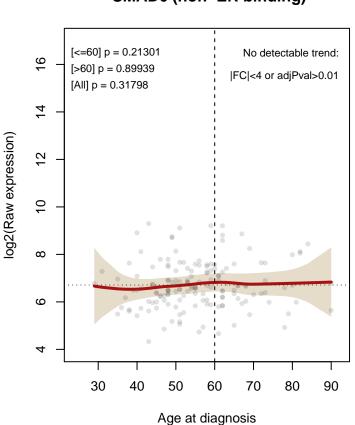




SMAD5 (non-ER binding)

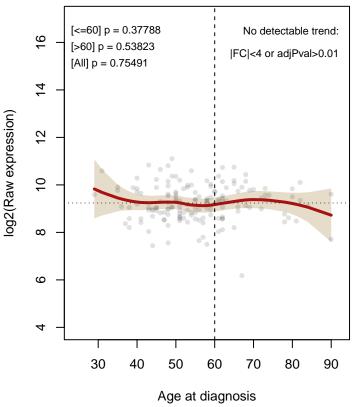
SMAD6 (non-ER binding)

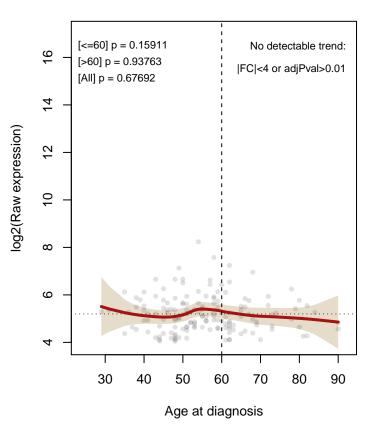




SMAD7 (non-ER binding)

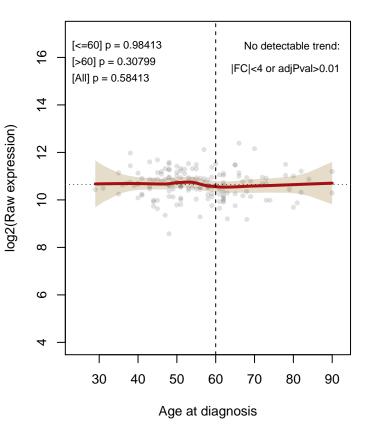
SMAD9 (non-ER binding)

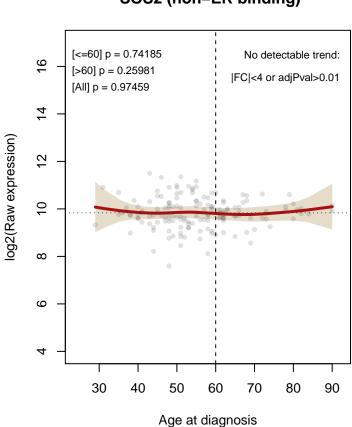


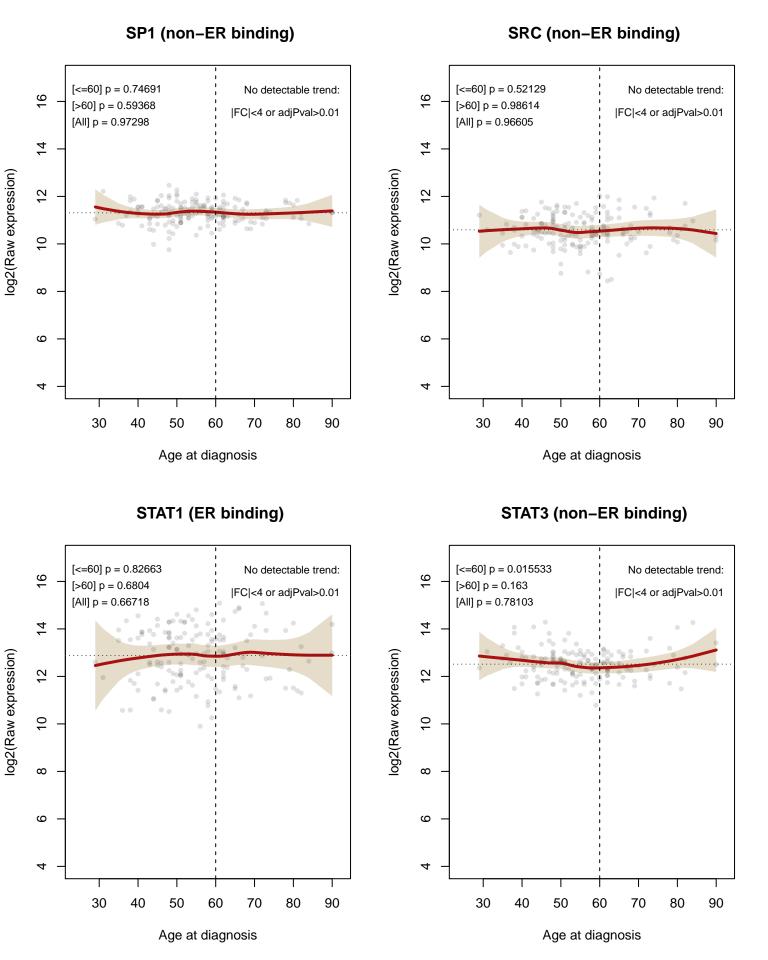


SOS1 (non-ER binding)

SOS2 (non-ER binding)

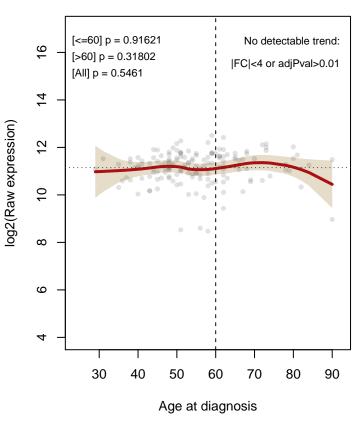


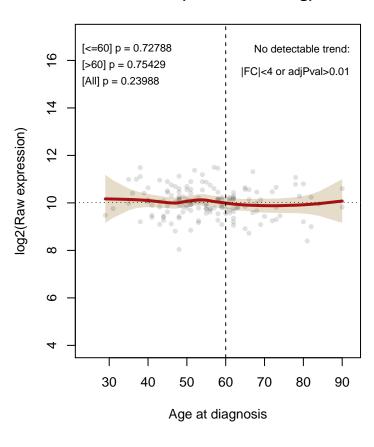






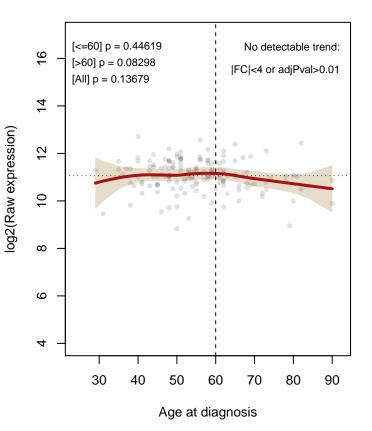
SUZ12 (non-ER binding)

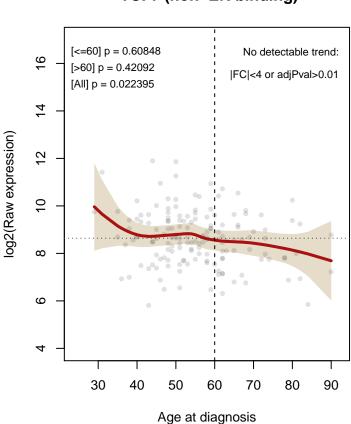




TCF3 (non-ER binding)

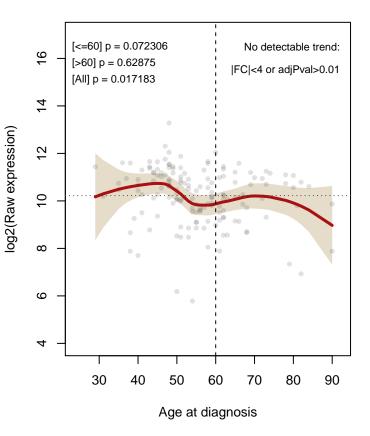
TCF7 (non-ER binding)

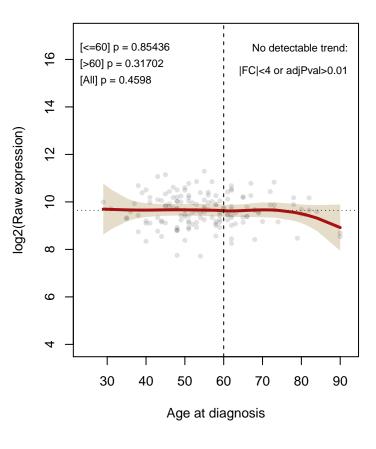






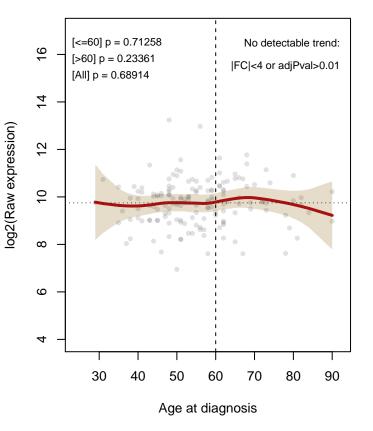
TCF7L2 (non-ER binding)

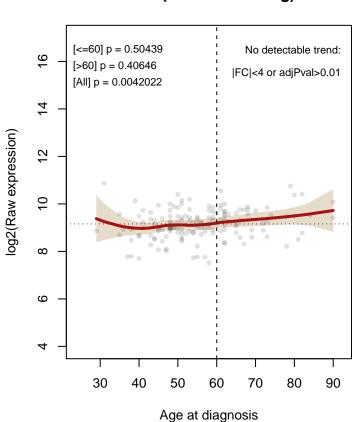


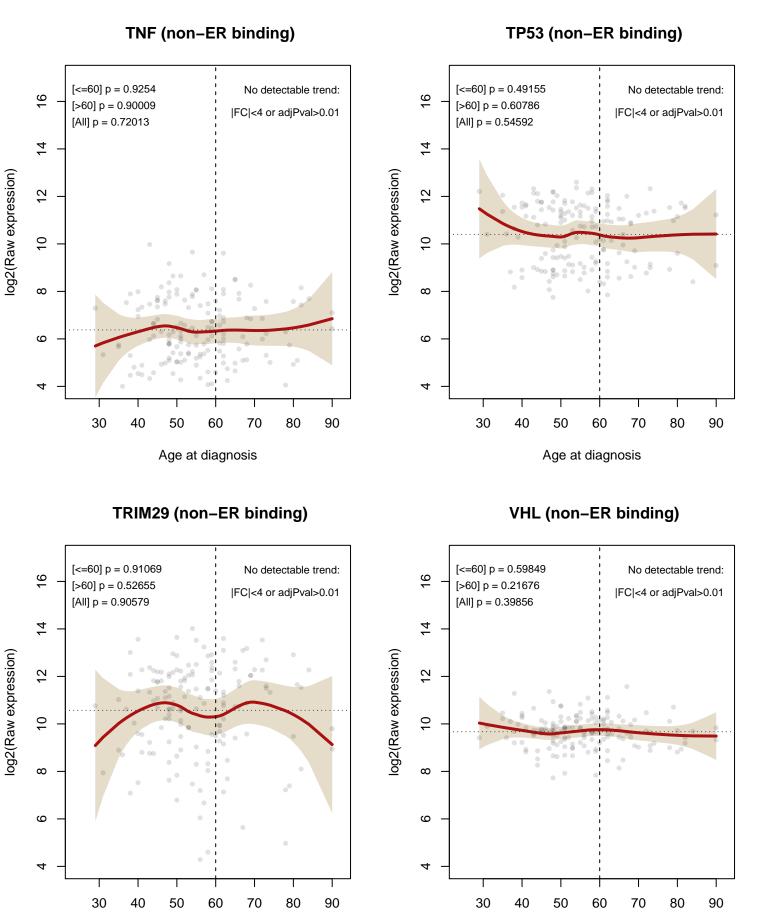


TGFB1 (non-ER binding)

TK2 (non-ER binding)

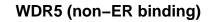






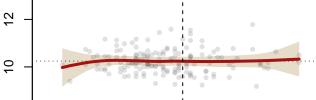
Age at diagnosis

Age at diagnosis



[<=60] p = 0.8331 No detectable trend:





& -& -

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40

log2(Raw expression)



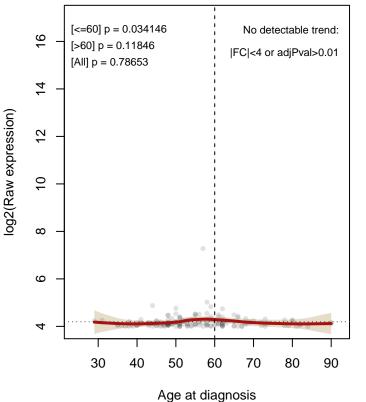
Age at diagnosis

60

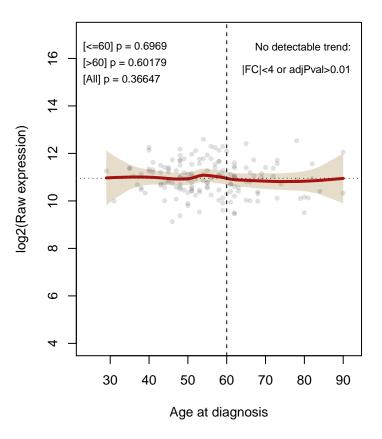
70

80

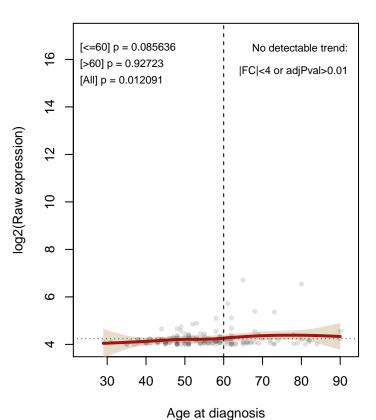
90

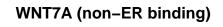


WHSC1 (non-ER binding)

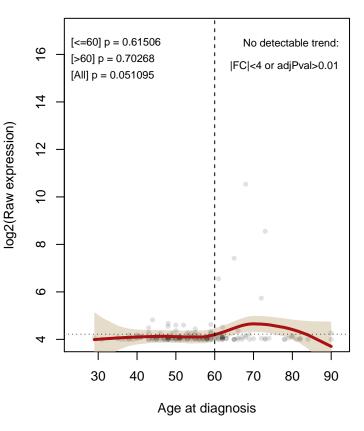


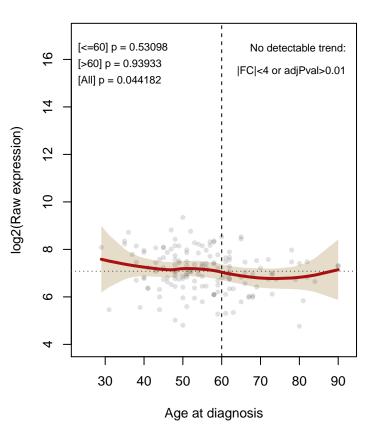
WNT3A (non-ER binding)





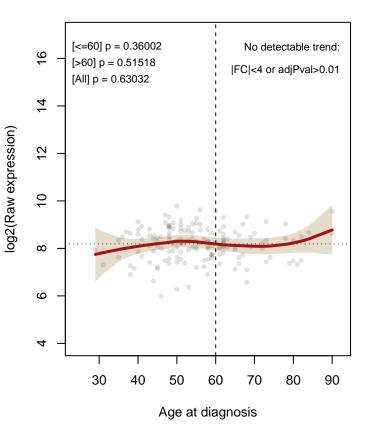
XRCC2 (non-ER binding)

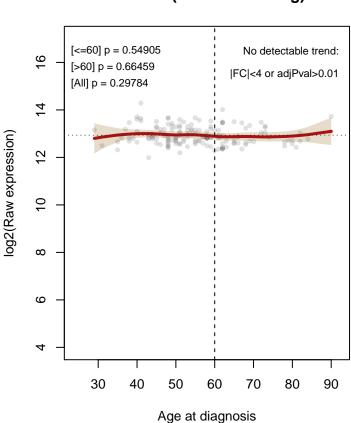




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)





YAF2 (non-ER binding)

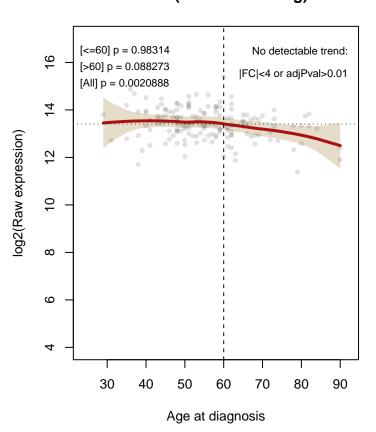
90 - [<=60] p = 0.75105 | No detectable trend: |FC|<4 or adjPval>0.01 | PC| 41 - | OI | PC| 7 - | OI | PC| 8 - | OI | PC| 8 - | OI | PC| 9 - | OI | PC|

30

40

50

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

60

70

80

90

