

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.20174No detectable trend: [<=60] p = 0.52436No detectable trend: 16 16 [>60] p = 0.27951 [>60] p = 0.18878 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.42068[All] p = 0.397344 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 = 0.95954No detectable trend: [<=60] p = 0.51356No detectable trend: 16 16 [>60] p = 0.52051 [>60] p = 0.52246 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.92699[All] p = 0.536314 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

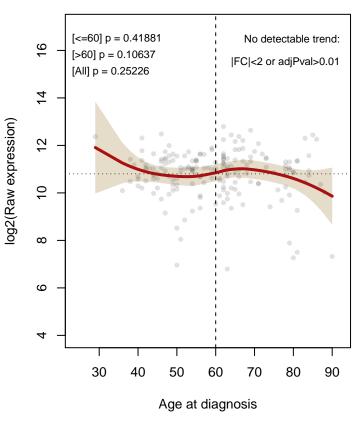
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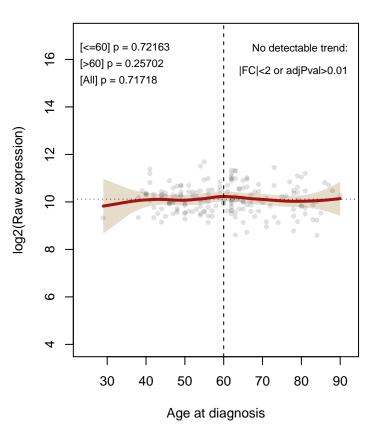
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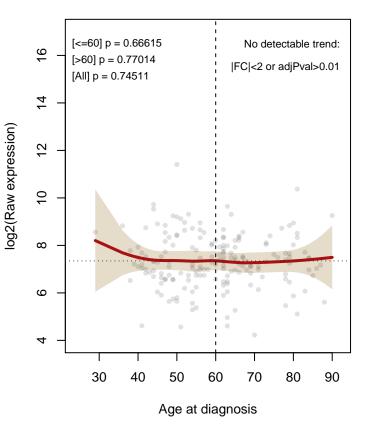
BCL3 (non-ER binding)

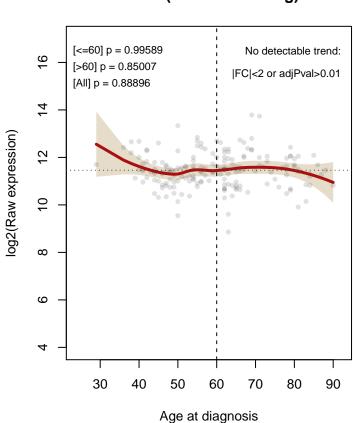




BIRC5 (non-ER binding)

BMI1 (non-ER binding)





BRCA1 (non-ER binding) BMX (non-ER binding) [<=60] p = 0.29382No detectable trend: [<=60] p = 0.7874No detectable trend: 16 16 [>60] p = 0.11954 [>60] p = 0.83937 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.13002[All] p = 0.638934 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9 30 40 70 80 90 30 40 50 60 70 80 90 50 60 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.42786No detectable trend: [<=60] p = 0.8921No detectable trend: 16 16 [>60] p = 0.068429 [>60] p = 0.14043 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.25473[All] p = 0.0955344 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ∞ 9 9

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Age at diagnosis

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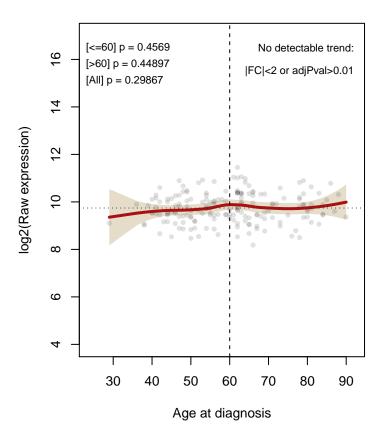
Age at diagnosis

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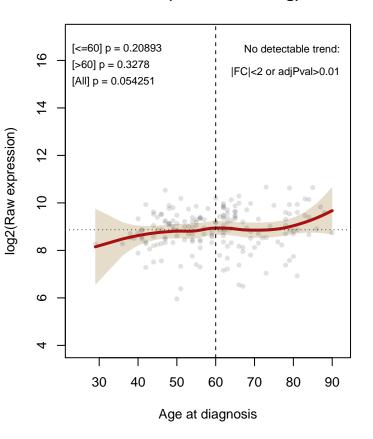
CBX4 (non-ER binding)



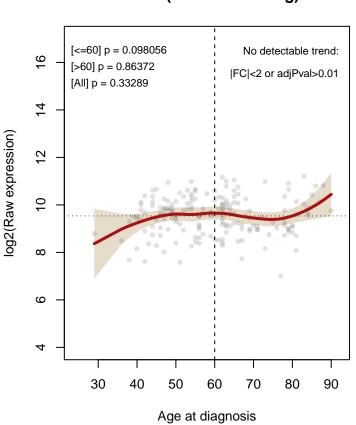
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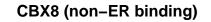
Age at diagnosis

CBX6 (non-ER binding)

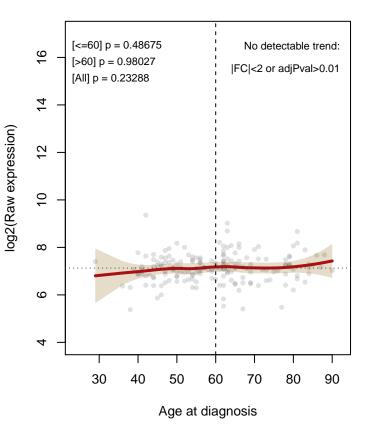


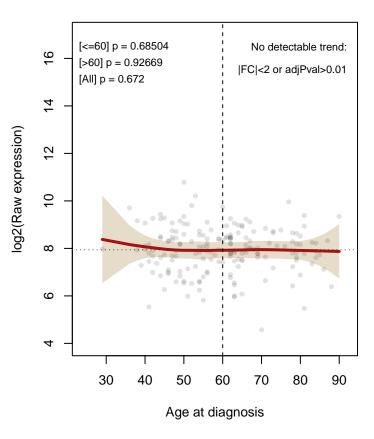
CBX7 (non-ER binding)





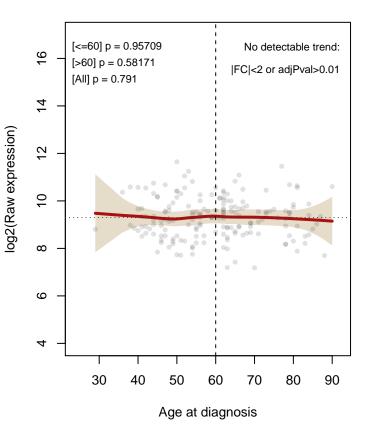
CCNA2 (non-ER binding)

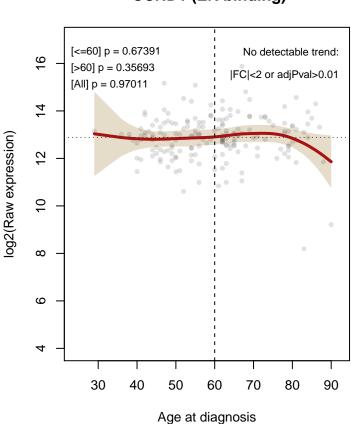




CCNB1 (non-ER binding)

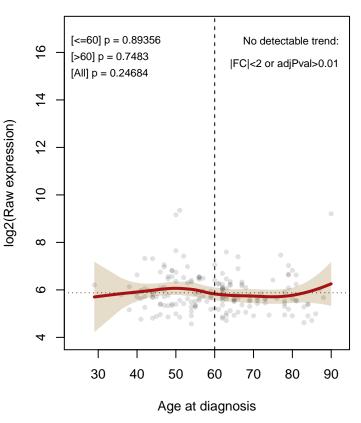
CCND1 (ER binding)

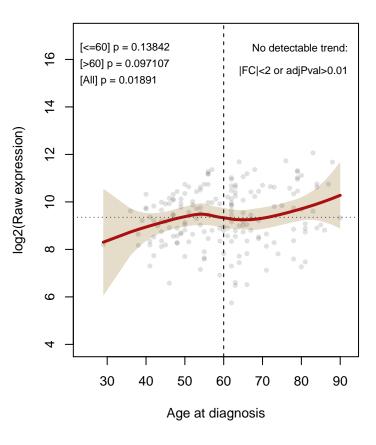






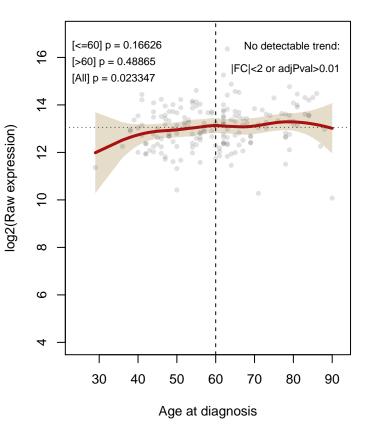
CD163 (non-ER binding)

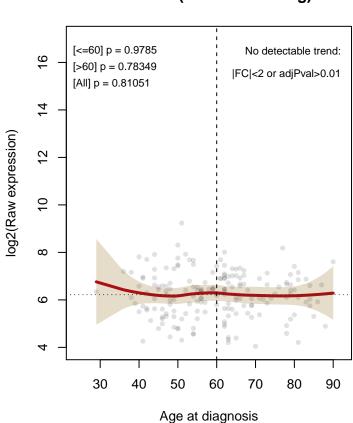


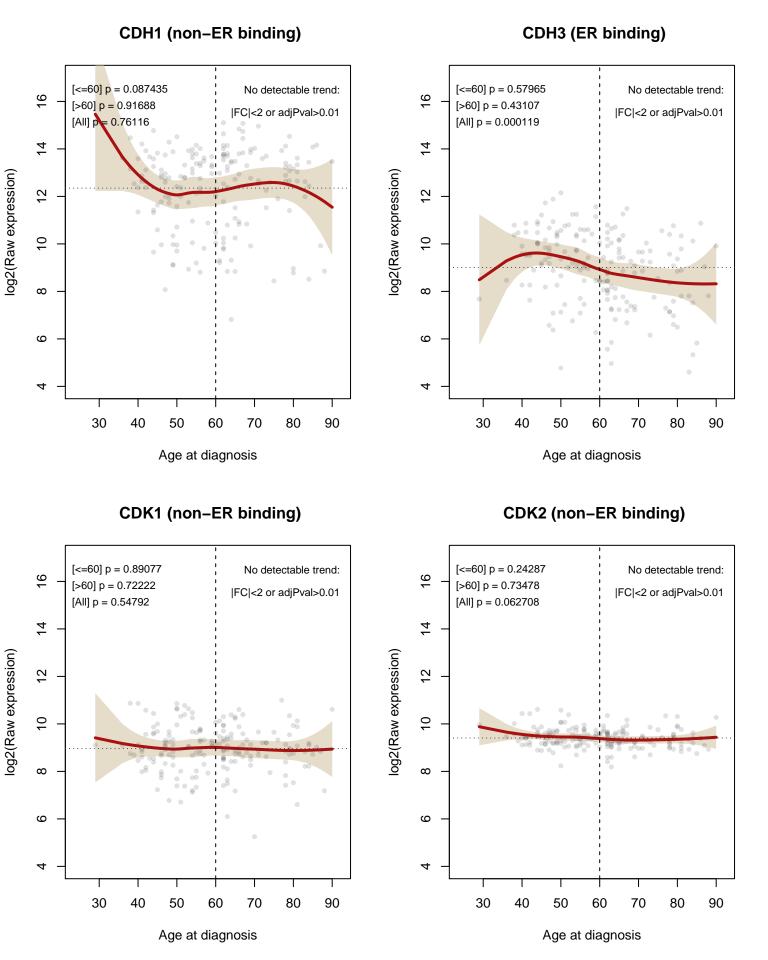


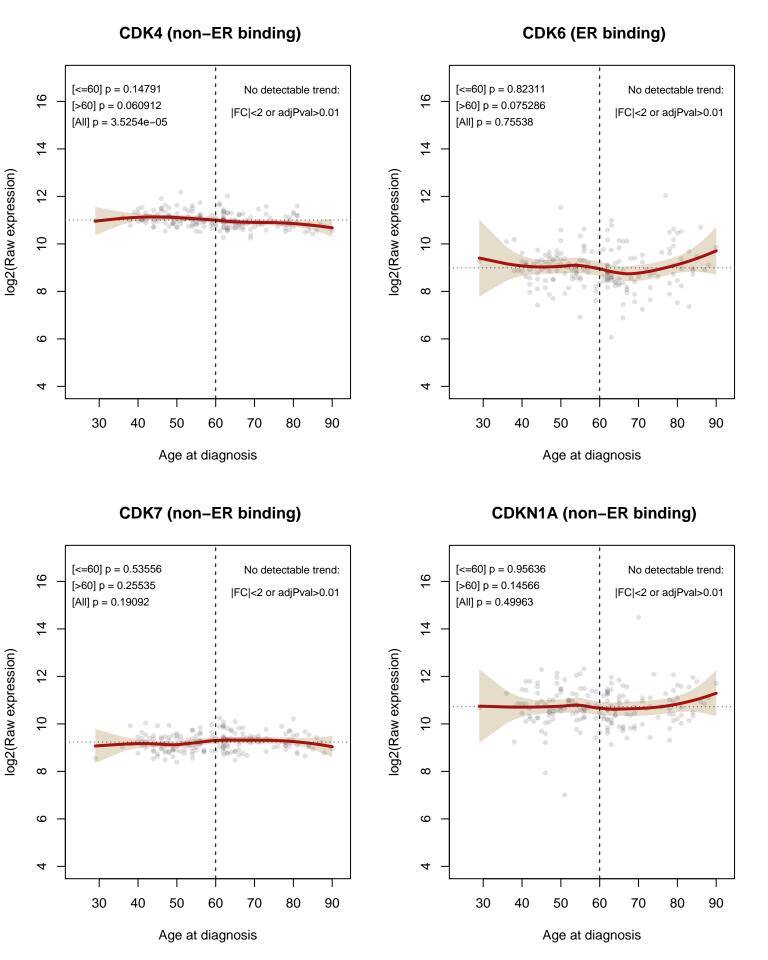
CD44 (non-ER binding)

CDC25C (non-ER binding)



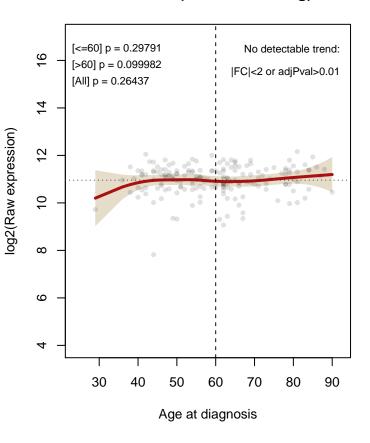


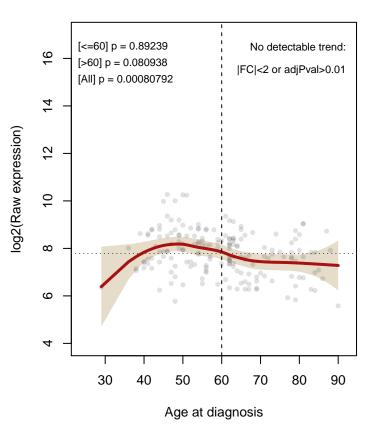




CDKN1B (non-ER binding)

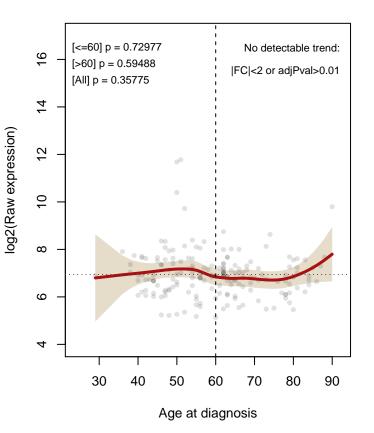
CDKN1C (non-ER binding)

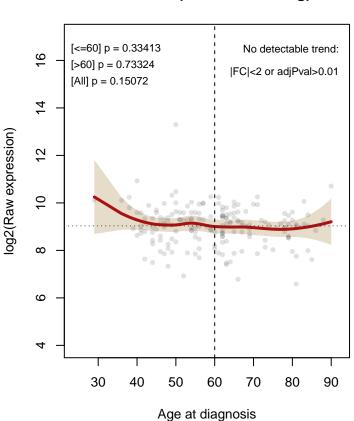


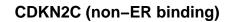


CDKN2A (non-ER binding)

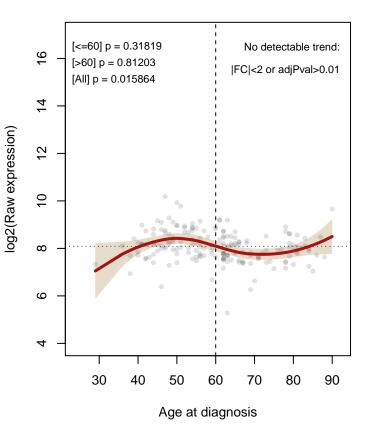
CDKN2B (non-ER binding)

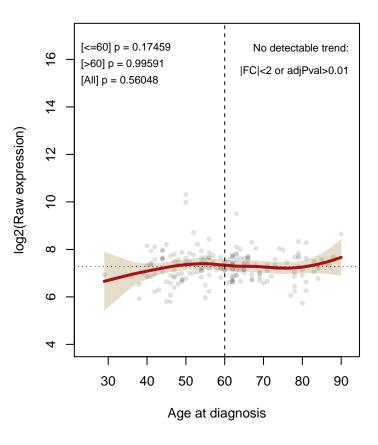






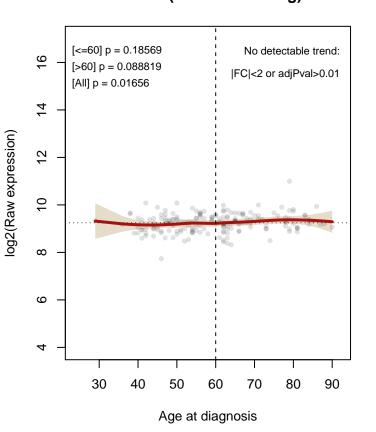
CDKN2D (non-ER binding)

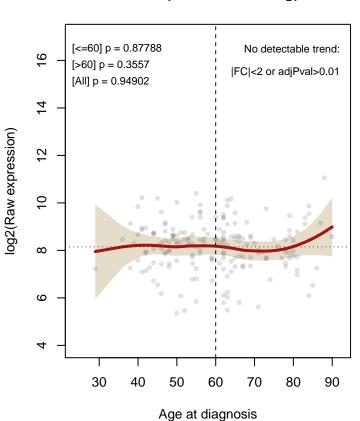


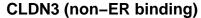


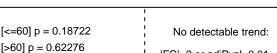
CHUK (non-ER binding)

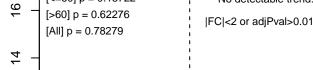
CIITA (non-ER binding)

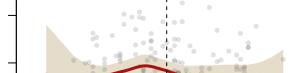












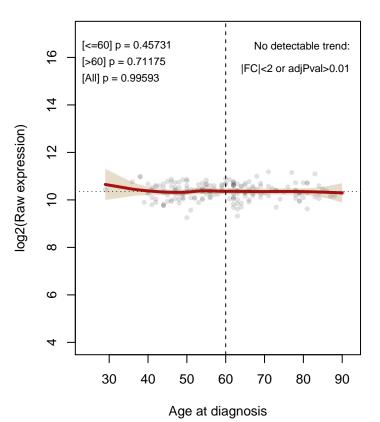


log2(Raw expression)

log2(Raw expression)

Age at diagnosis

CREB1 (non-ER binding)

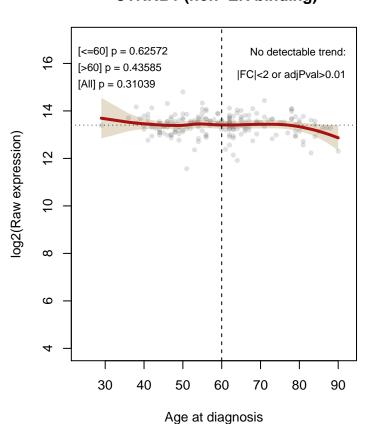


CRYAB (non-ER binding)

[<=60] p = 0.38118No detectable trend: [>60] p = 0.1942 |FC|<2 or adjPval>0.01 [AII] p = 0.0068186ω

Age at diagnosis

CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.21226No detectable trend: [<=60] p = 0.27978No detectable trend: 16 16 [>60] p = 0.0074285 [>60] p = 0.2294 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.00021294[All] p = 0.0522324 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) **DNMT3A (non-ER binding)** [<=60] p = 0.60564No detectable trend: [<=60] p = 0.091705No detectable trend: 16 16 [>60] p = 0.90528 [>60] p = 0.1876|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.44718[All] p = 0.000172544 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

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DVL1 (non-ER binding) DNMT3B (non-ER binding) [<=60] p = 0.47913No detectable trend: [<=60] p = 0.51968No detectable trend: 16 16 [>60] p = 0.1384 [>60] p = 0.30678 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.052813[All] p = 0.551024 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 = 0.26471No detectable trend: [<=60] p = 0.7806No detectable trend: 16 16 [>60] p = 0.59124 [>60] p = 0.3754 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.49854[All] p = 0.521594 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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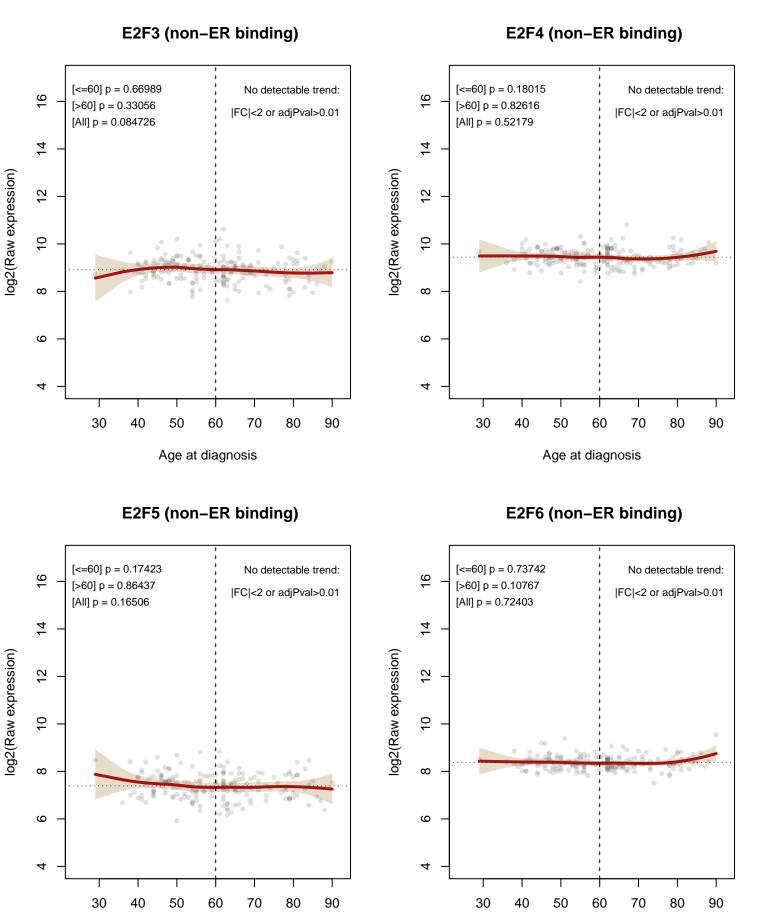
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Age at diagnosis

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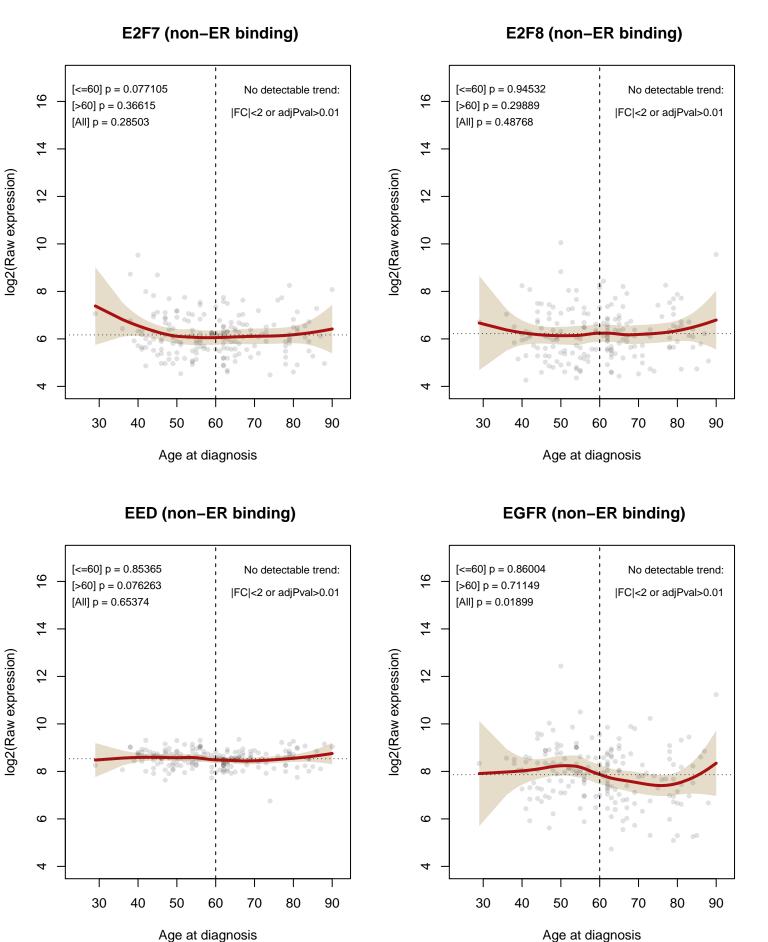
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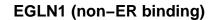
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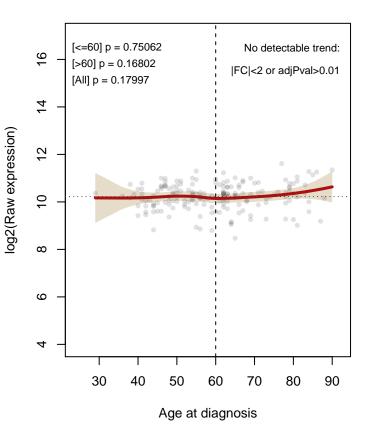
Age at diagnosis

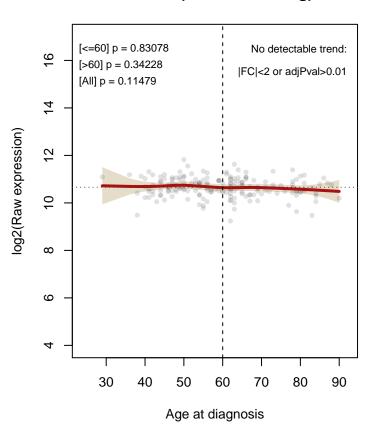
Age at diagnosis





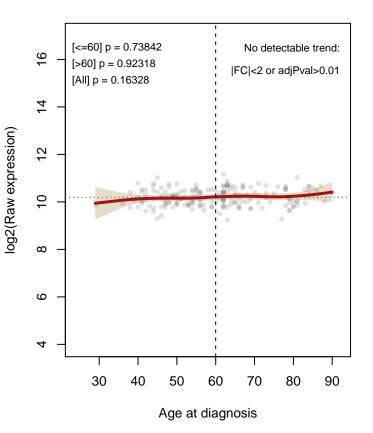
EHMT2 (non-ER binding)

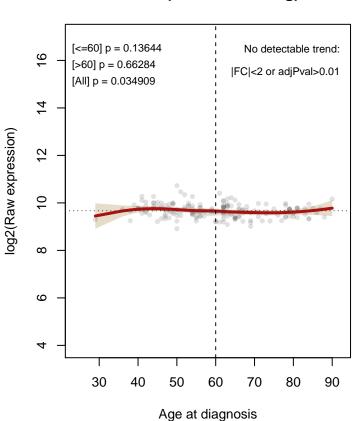




ELAC2 (non-ER binding)

ELK1 (non-ER binding)





EPAS1 (non-ER binding) EP300 (non-ER binding) [<=60] p = 0.9641No detectable trend: [<=60] p = 0.3162 No detectable trend: 16 16 [>60] p = 0.53232 [>60] p = 0.11424 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.46134[All] p = 0.442684 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 **EPC1** (non-ER binding) **EPC2** (non-ER binding) [<=60] p = 0.67605No detectable trend: [<=60] p = 0.99188No detectable trend: 16 16 [>60] p = 0.63677 [>60] p = 0.96265 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.76418[All] p = 0.377744 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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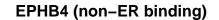
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Age at diagnosis

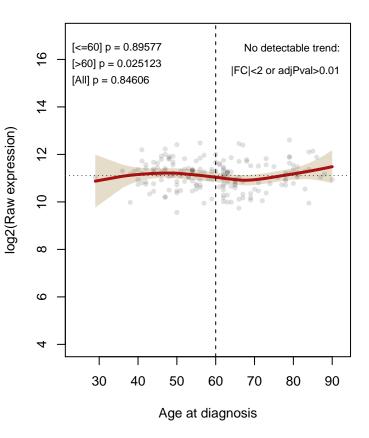
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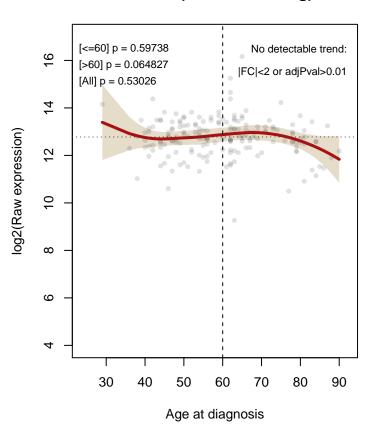
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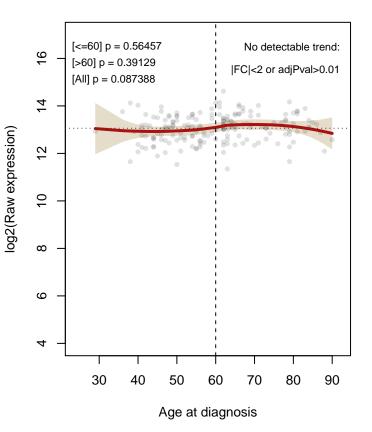
ERBB2 (non-ER binding)

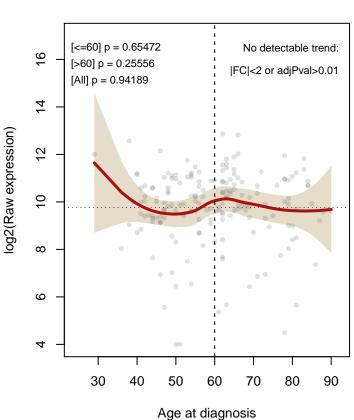


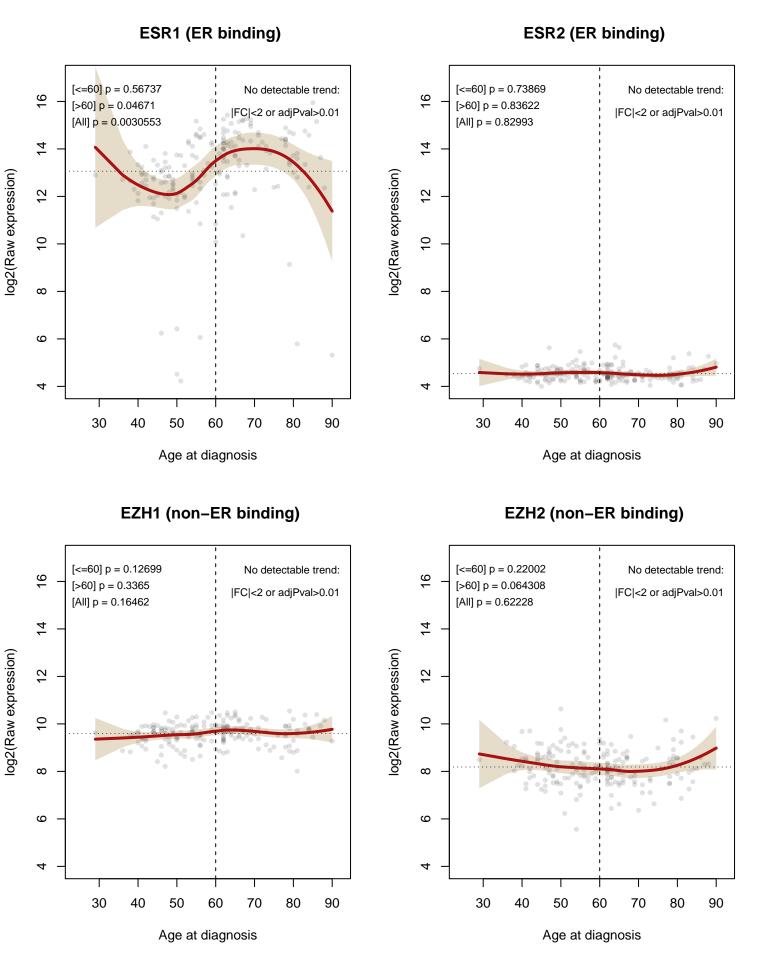


ERBB3 (non-ER binding)

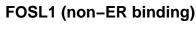
ERBB4 (ER binding)

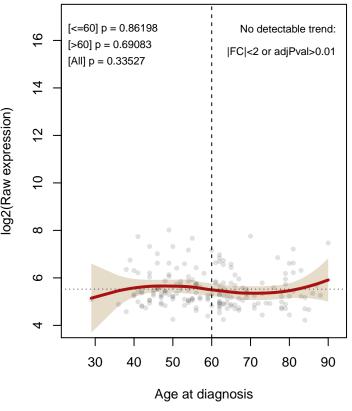






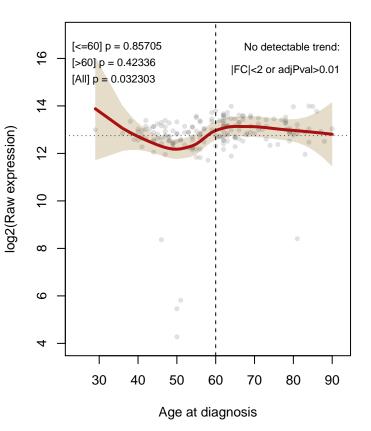
FOS (non-ER binding) [<=60] p = 0.29676No detectable trend: 16 16 [>60] p = 0.976|FC|<2 or adjPval>0.01 [AII] p = 0.73764 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 60 70 80 90 30



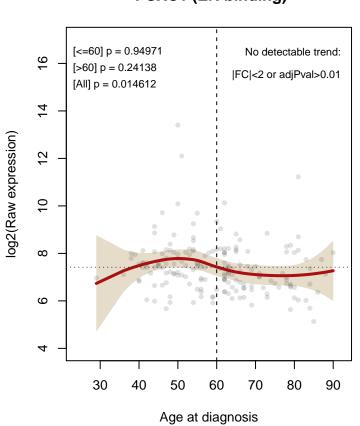


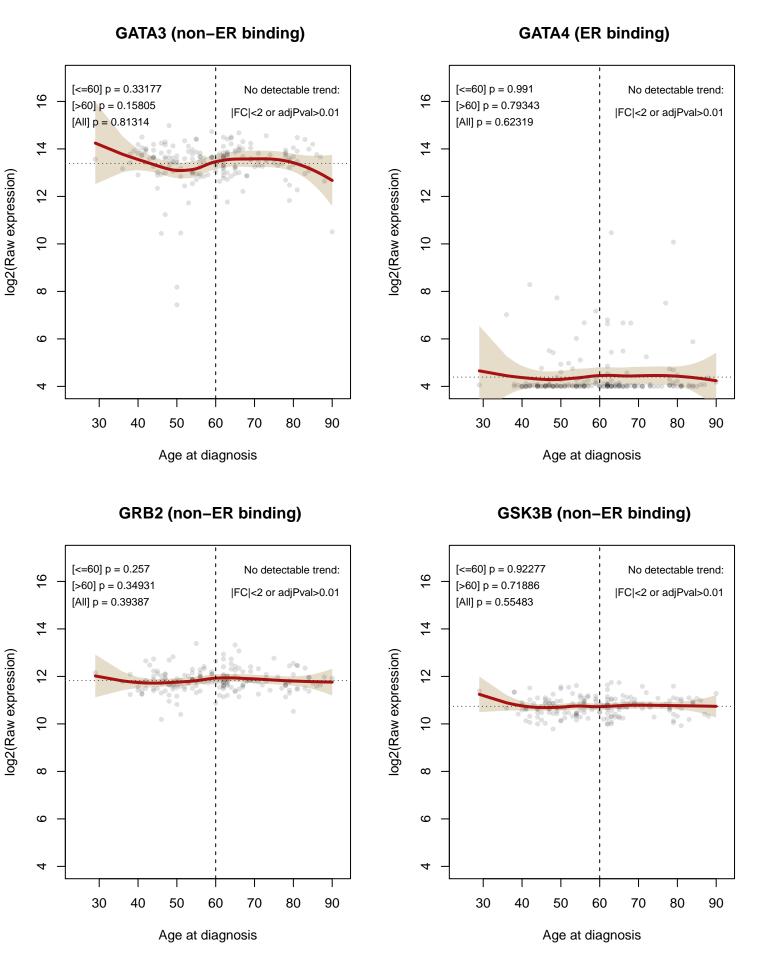
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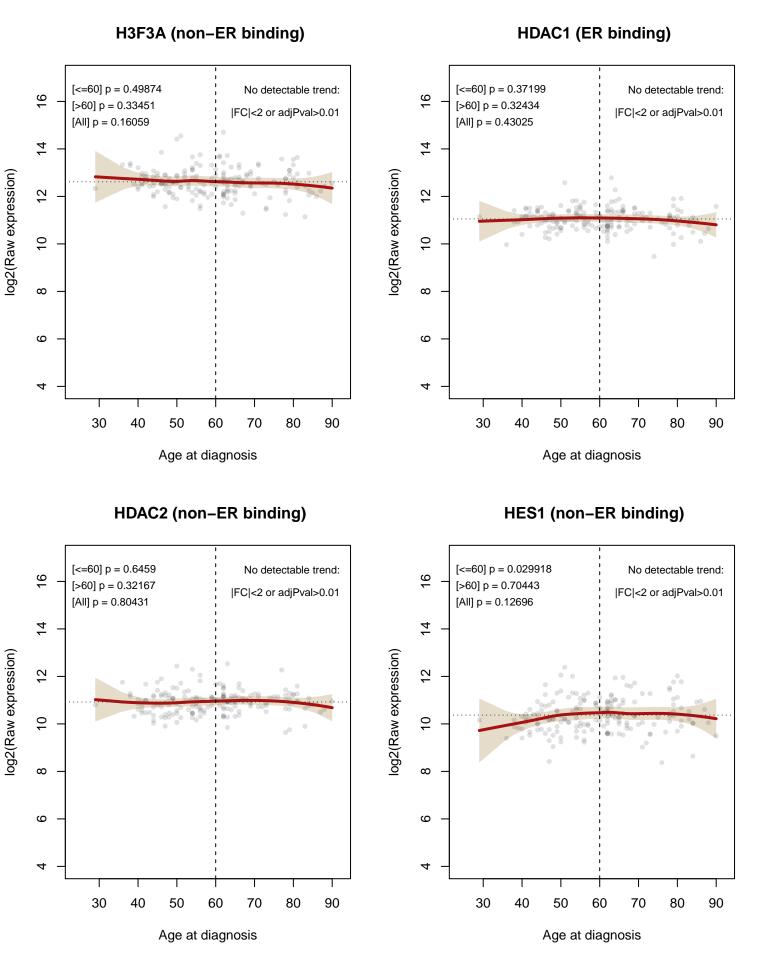
Age at diagnosis

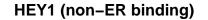


FOXC1 (ER binding)

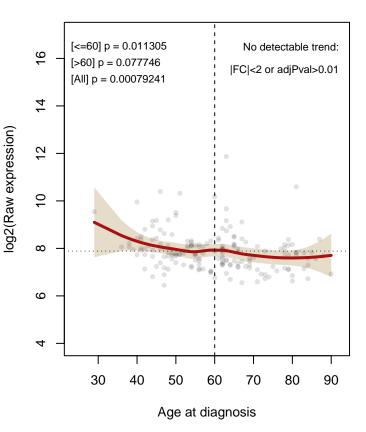


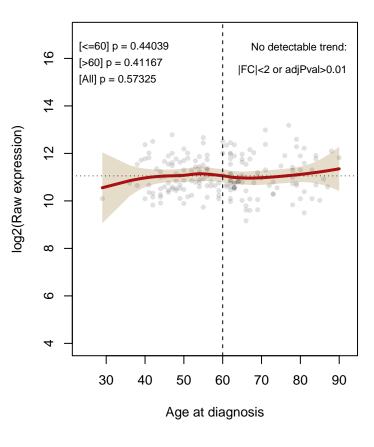






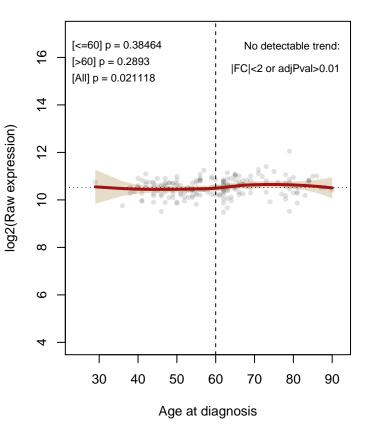
HIF1A (non-ER binding)

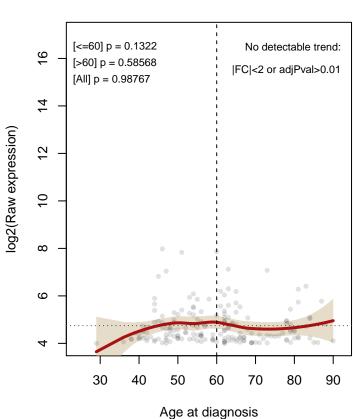




HIF1AN (non-ER binding)

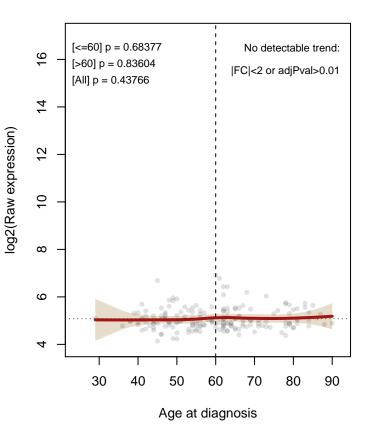
HIF3A (non-ER binding)

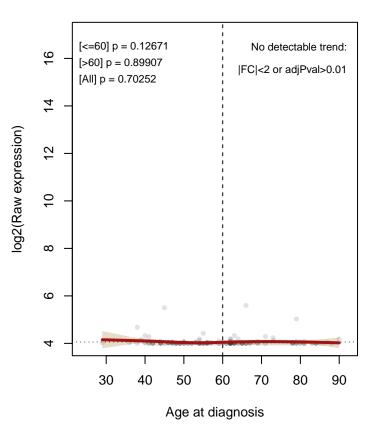




HNF1A (non-ER binding)

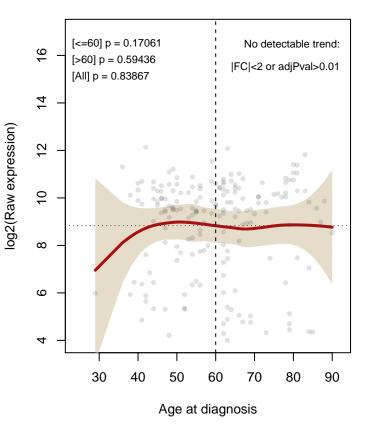
HNF1B (non-ER binding)

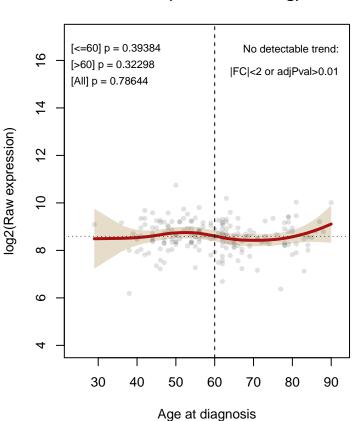




HOXC10 (non-ER binding)

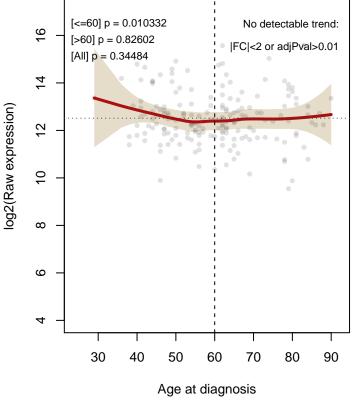
HRAS (non-ER binding)

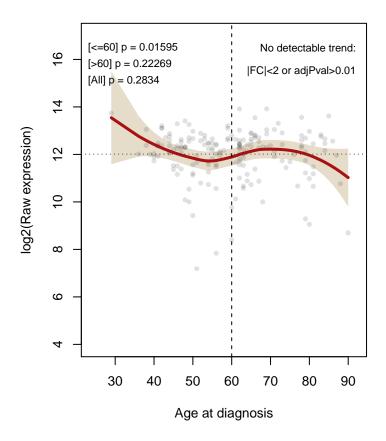




HSPB1 (non–ER binding) [<=60] p = 0.010332 [>60] p = 0.82602 | No detectable

IGF1R (ER binding)





IGFBP2 (non-ER binding)

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Age at diagnosis

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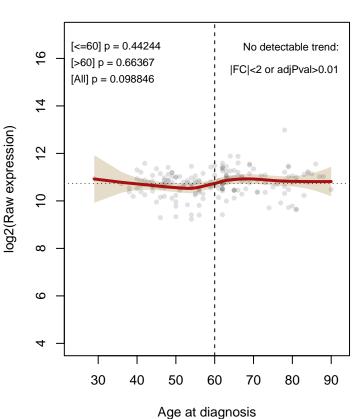
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log2(Raw expression)

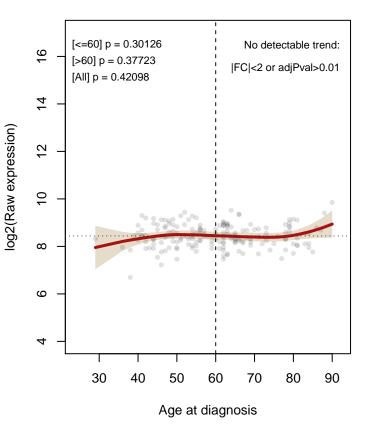
[<=60] p = 0.37643 | No detectable trend: [>60] p = 0.1462 | |FC|<2 or adjPval>0.01

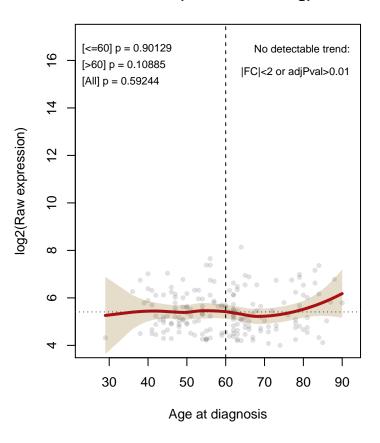
IKBKB (ER binding)





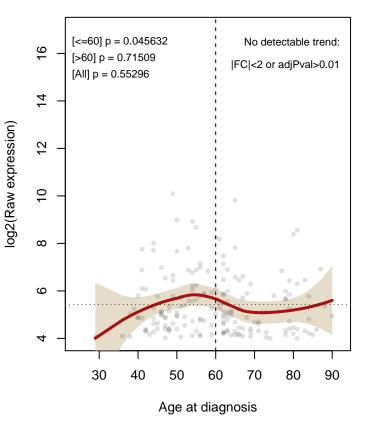
IL2RA (non-ER binding)

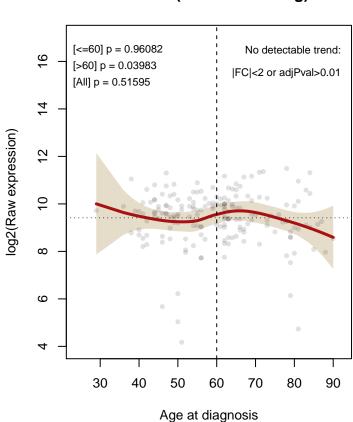


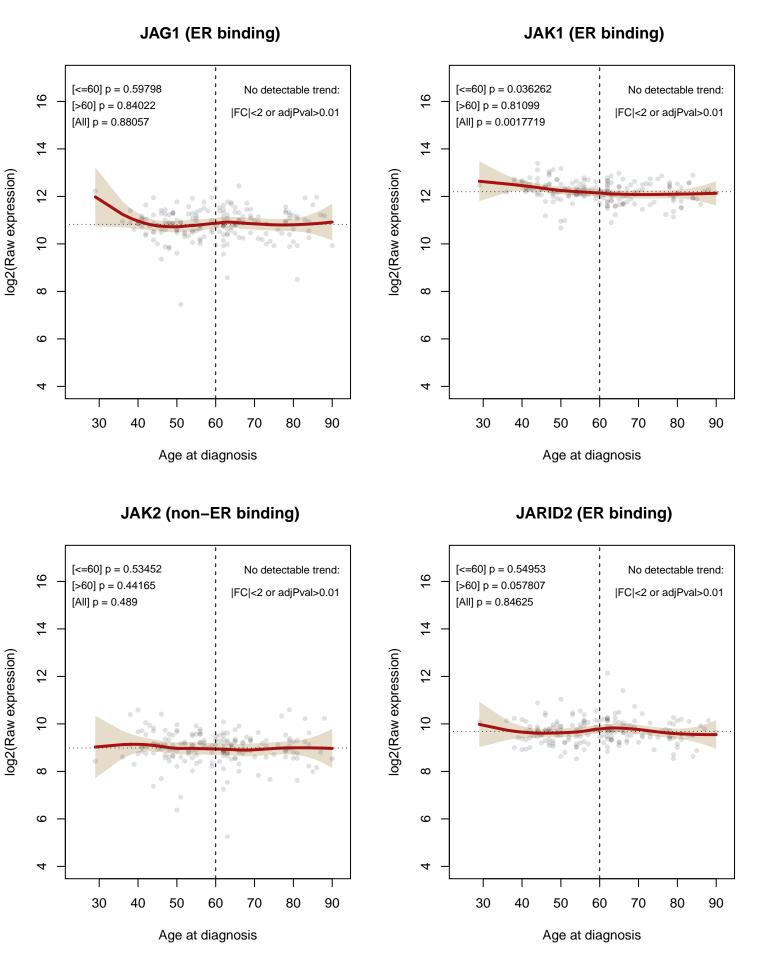


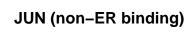
IL6 (non-ER binding)

INPP4B (non-ER binding)

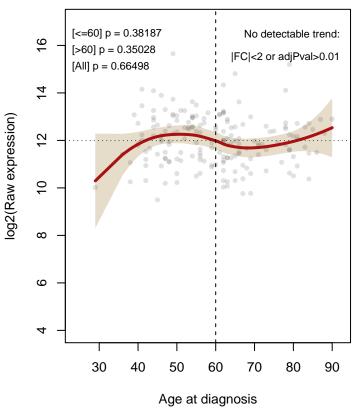


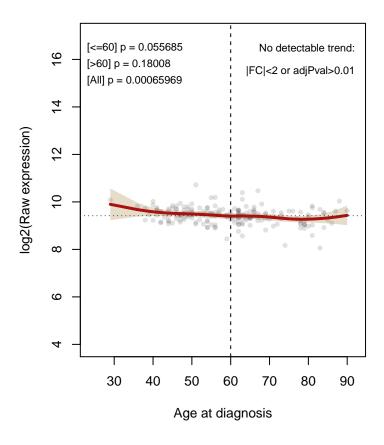






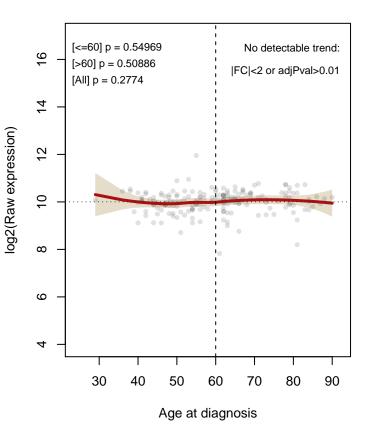
KDM2B (non-ER binding)

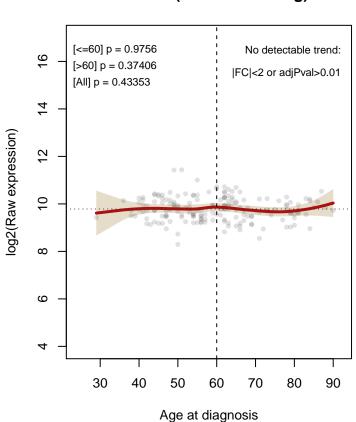




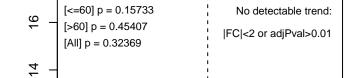
KDM6A (non-ER binding)

KDM6B (non-ER binding)



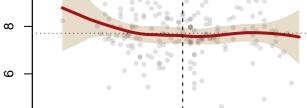








log2(Raw expression)



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Age at diagnosis

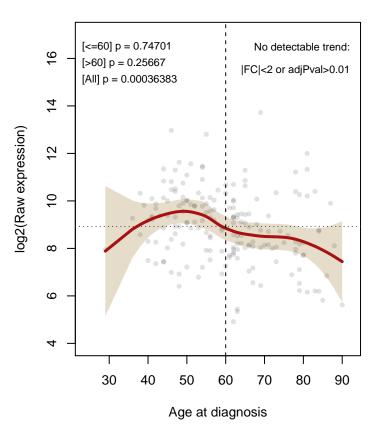
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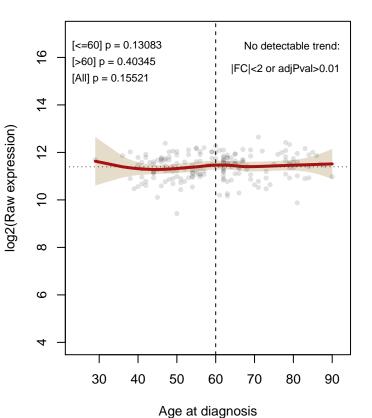
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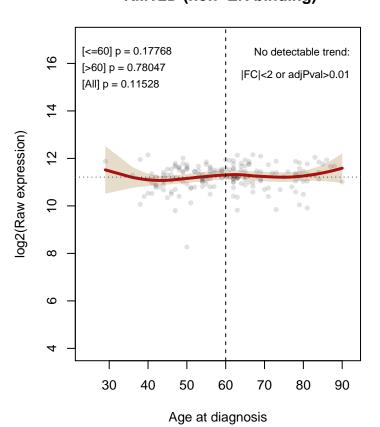
KIT (non-ER binding)



KMT2C (non-ER binding)

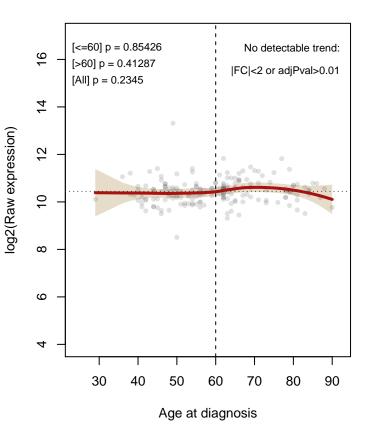


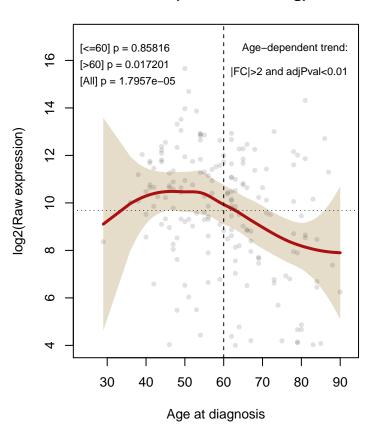
KMT2D (non-ER binding)





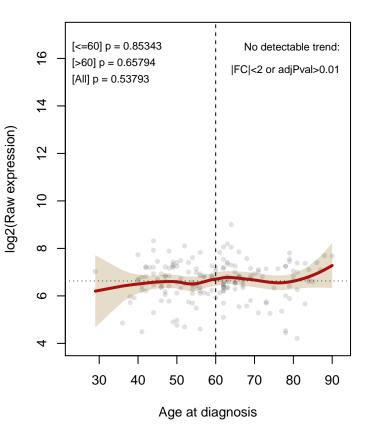
KRT5 (non-ER binding)

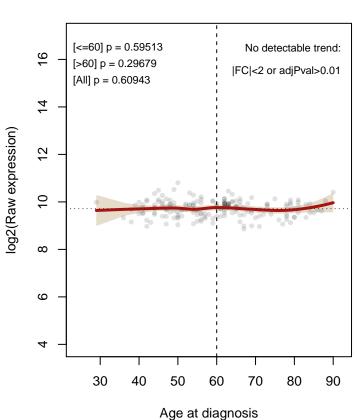




L3MBTL1 (non-ER binding)

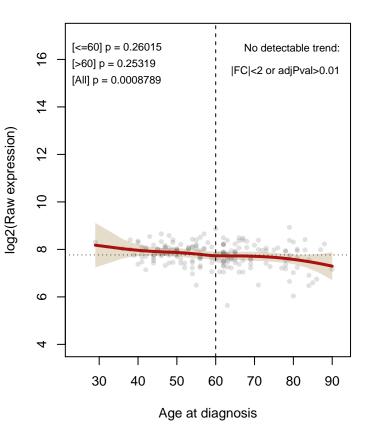
L3MBTL2 (non-ER binding)

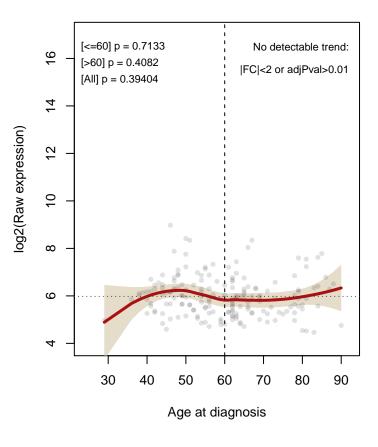




L3MBTL3 (ER binding)

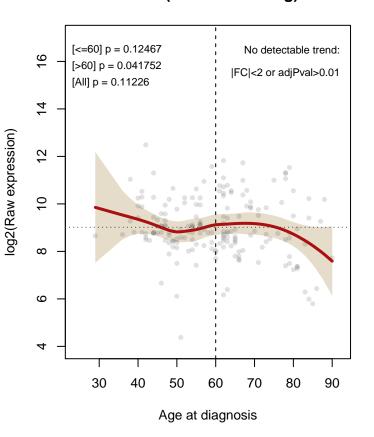
L3MBTL4 (non-ER binding)

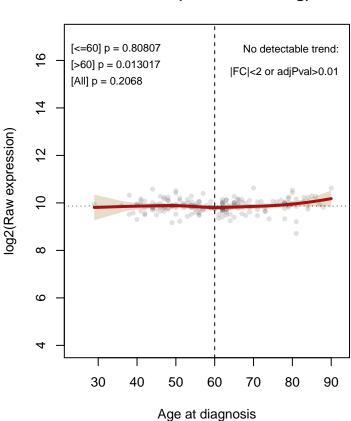




LEF1 (non-ER binding)

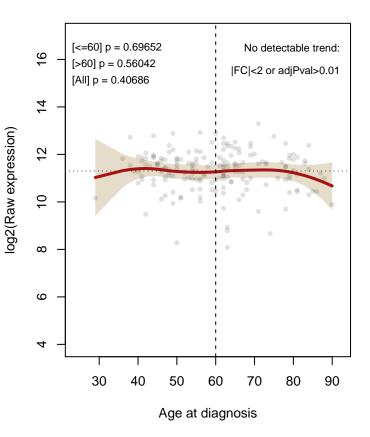
MAP2K1 (non-ER binding)

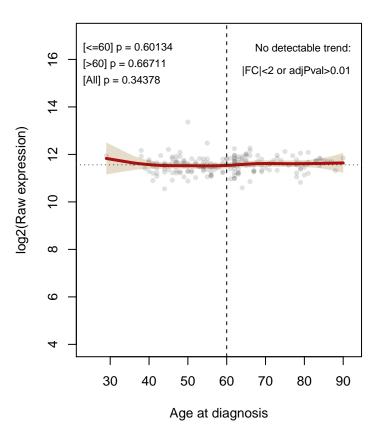






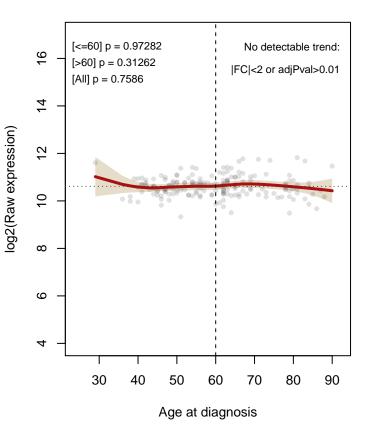
MAPK1 (non-ER binding)

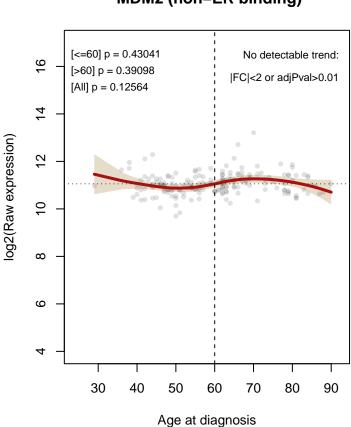


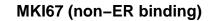


MAPK3 (non-ER binding)

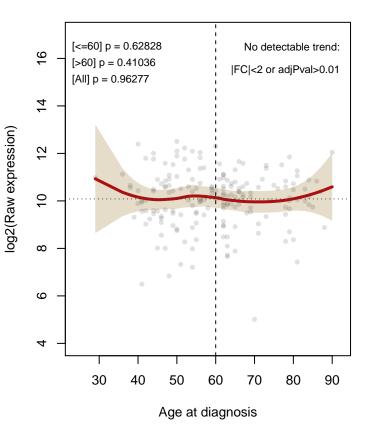
MDM2 (non-ER binding)

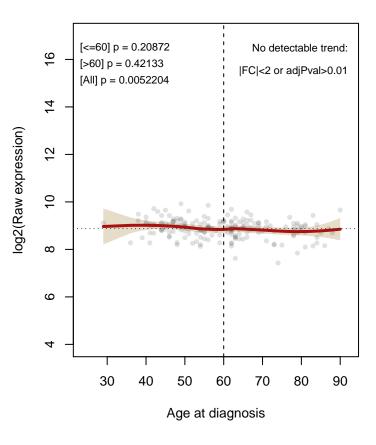






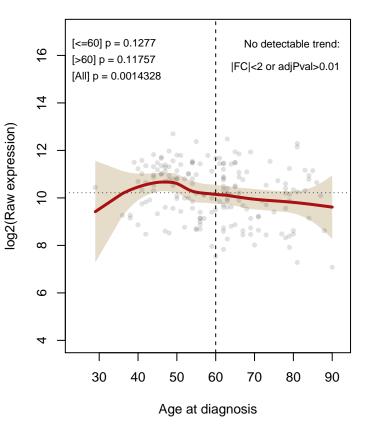
MTF2 (non-ER binding)

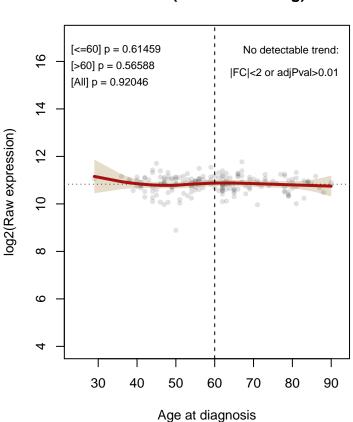




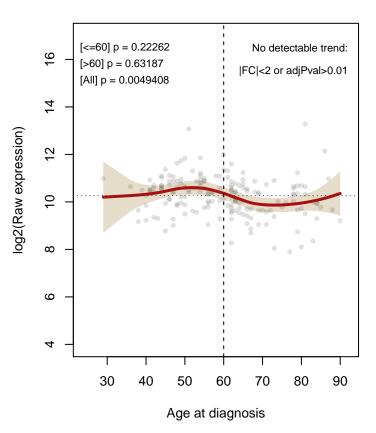
MYC (non-ER binding)

NCOA6 (non-ER binding)



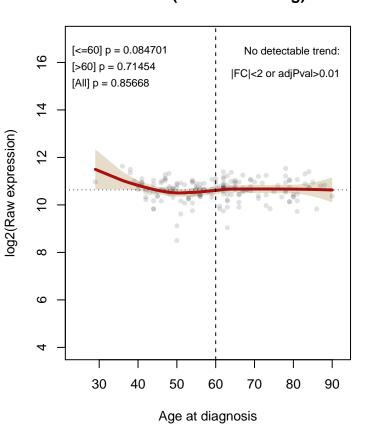


NES (non-ER binding)

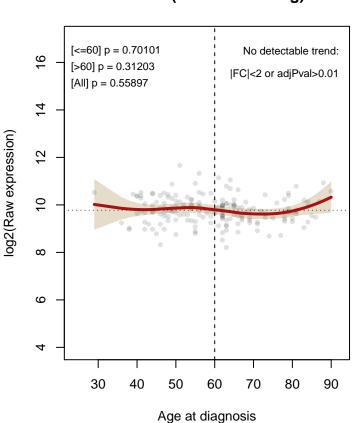


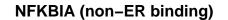
NFKB1 (non-ER binding)

Age at diagnosis

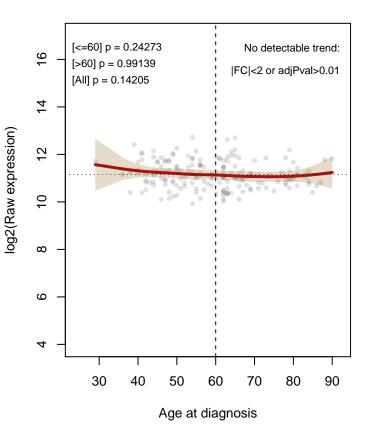


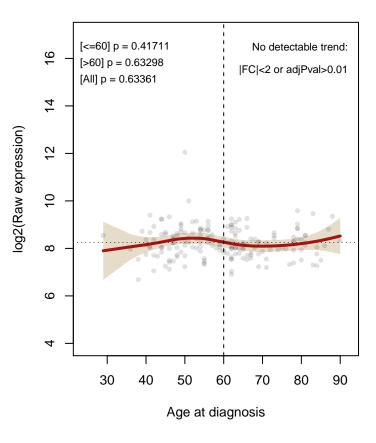
NFKB2 (non-ER binding)





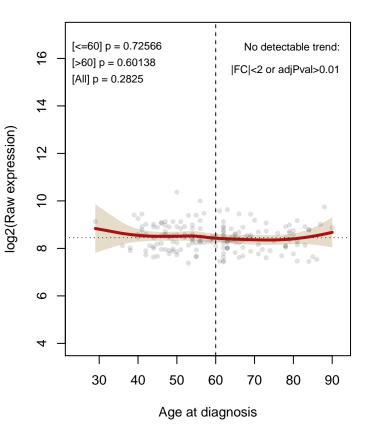
NFKBIB (non-ER binding)

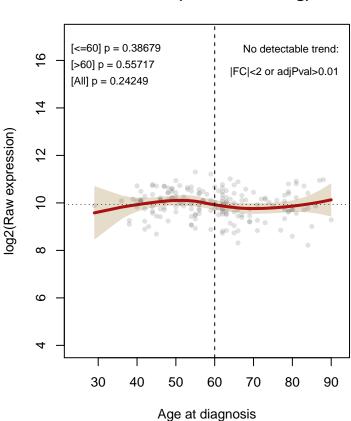




NFKBIE (non-ER binding)

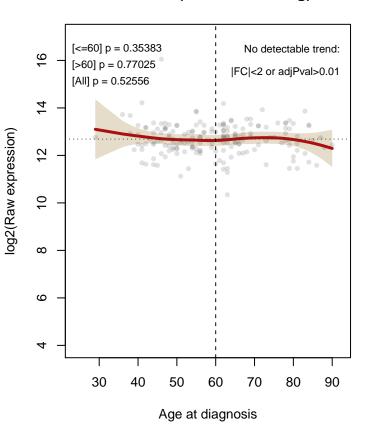
NOTCH1 (non-ER binding)

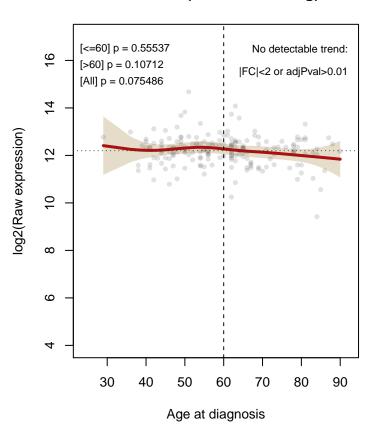




NOTCH2 (non-ER binding)

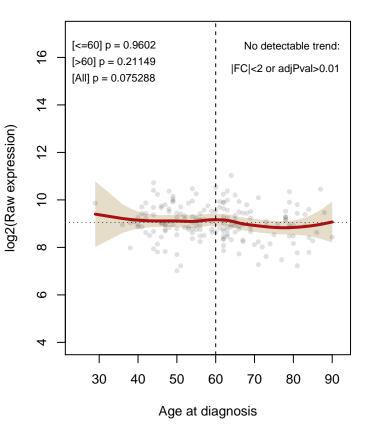
NOTCH3 (non-ER binding)

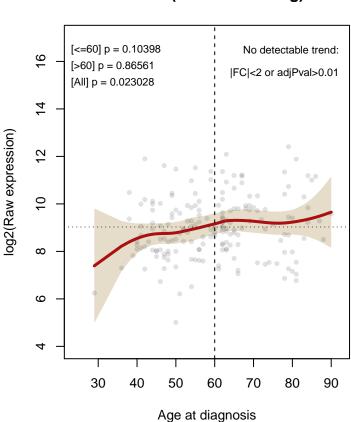




NOTCH4 (non-ER binding)

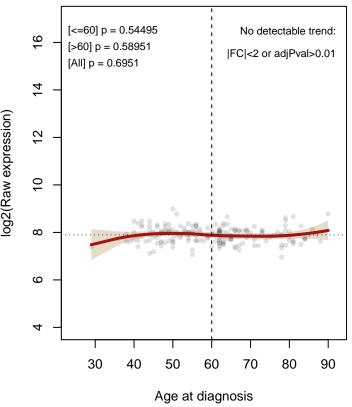
NR4A2 (non-ER binding)





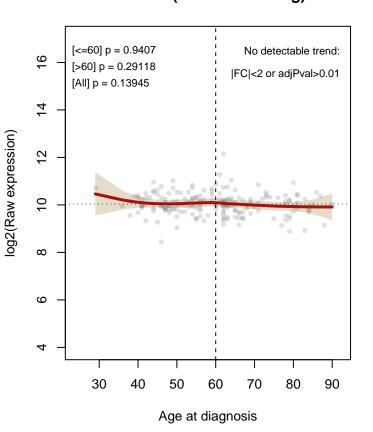
NRAS (non-ER binding) [<=60] p = 0.031704No detectable trend: 16 16 [>60] p = 0.61163 |FC|<2 or adjPval>0.01 [All] p = 0.005914 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9 30 40 50 60 70 80 90

PCGF1 (non-ER binding)

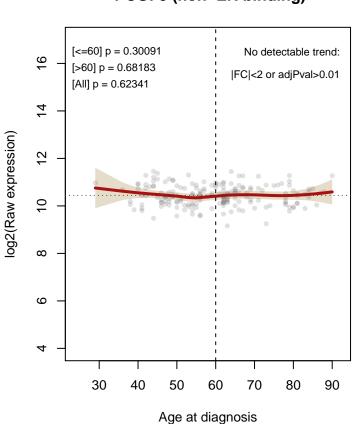


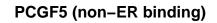
PCGF2 (non-ER binding)

Age at diagnosis

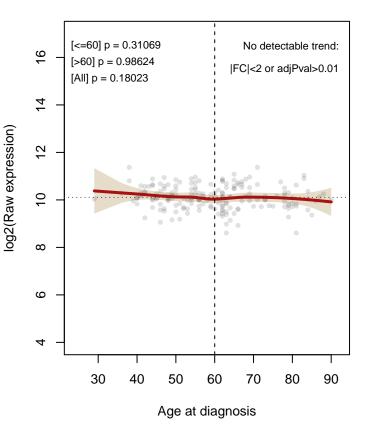


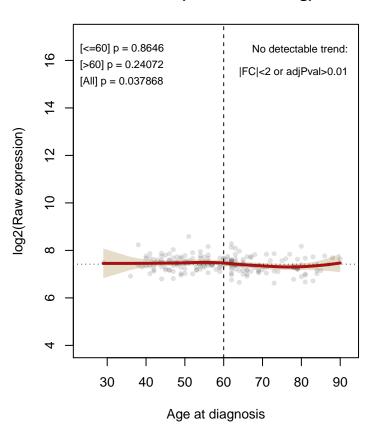
PCGF3 (non-ER binding)





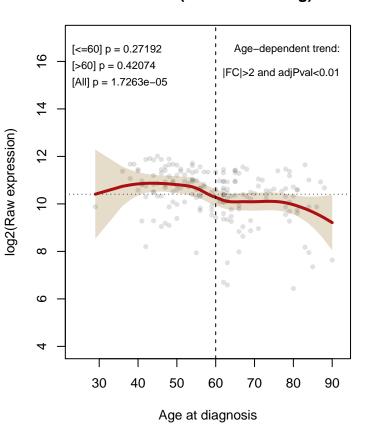
PCGF6 (non-ER binding)

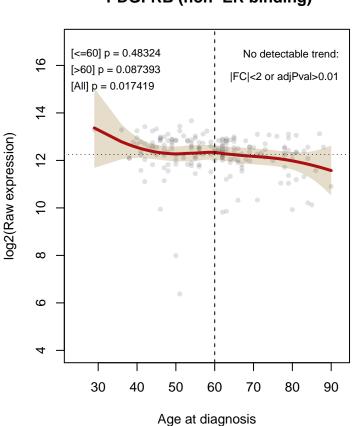




PDGFRA (non-ER binding)

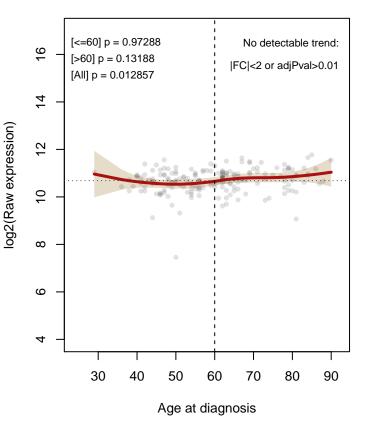
PDGFRB (non-ER binding)

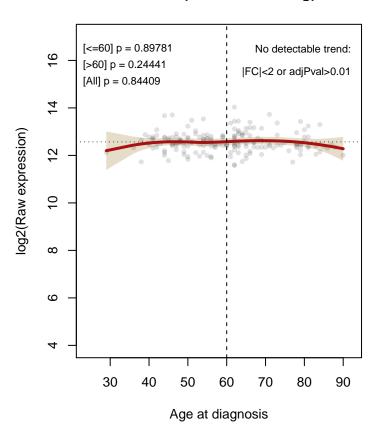






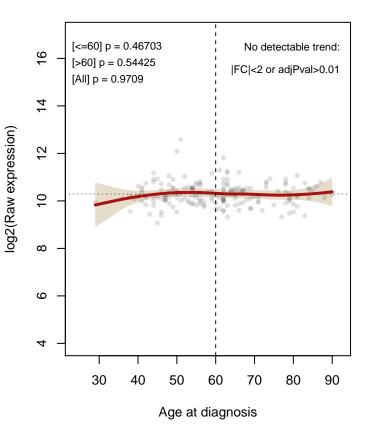
PEBP1 (non-ER binding)

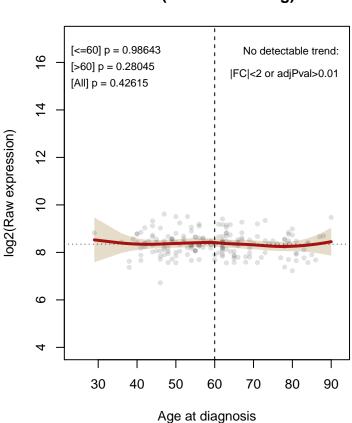


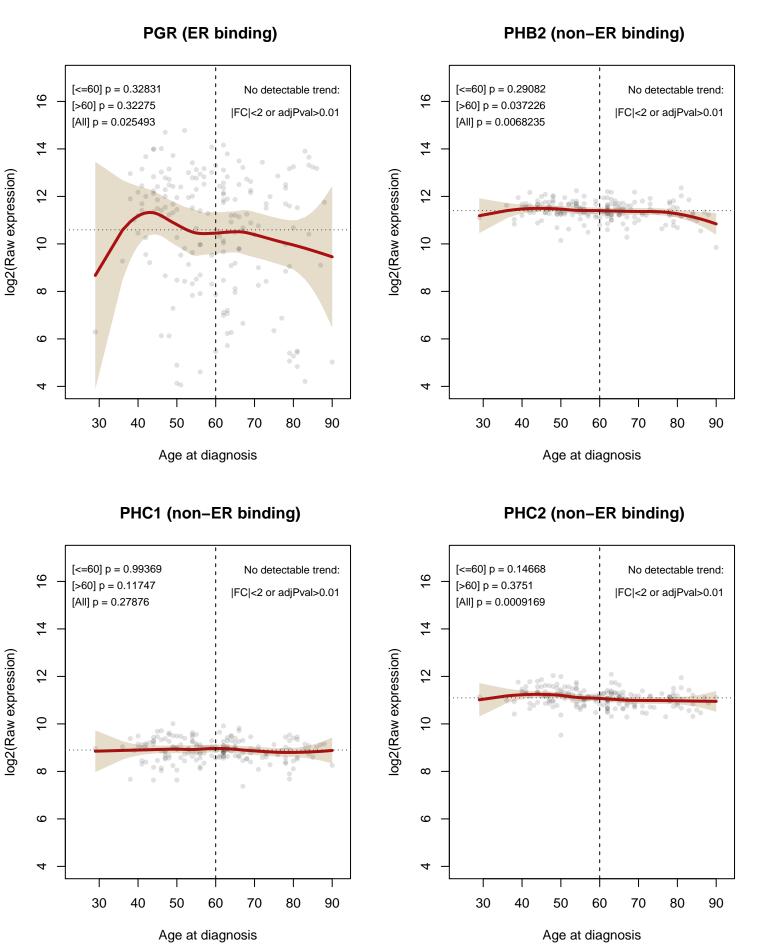


PELP1 (non-ER binding)

PGP (non-ER binding)







PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.72899No detectable trend: [<=60] p = 0.029308No detectable trend: 16 16 [>60] p = 0.3991 [>60] p = 0.83395 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.088828[All] p = 0.33194 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 PHF19 (non-ER binding) PIK3CA (non-ER binding) [<=60] p = 0.83294No detectable trend: [<=60] p = 0.58663No detectable trend: 16 16 [>60] p = 0.20603 [>60] p = 0.65548|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.021494[All] p = 0.822394 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ∞ ω

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Age at diagnosis

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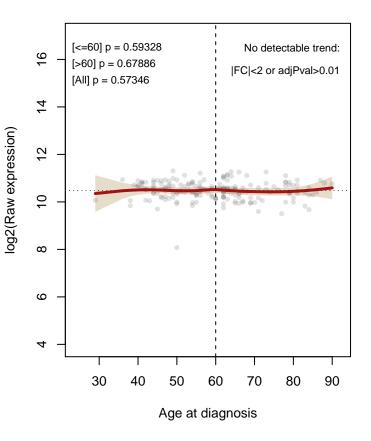
Age at diagnosis

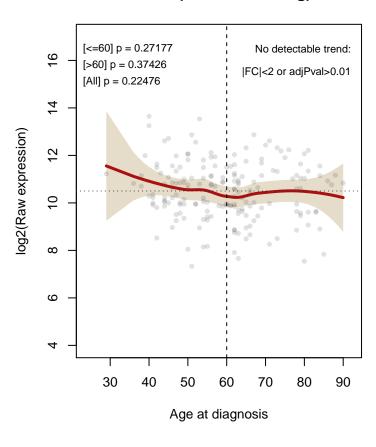
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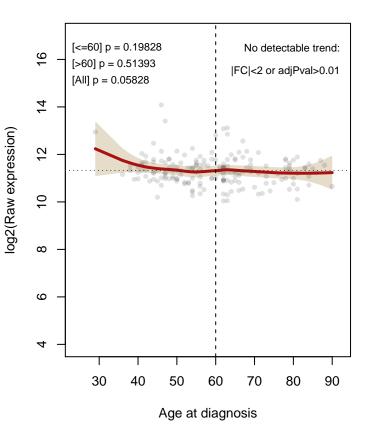
PLAU (non-ER binding)

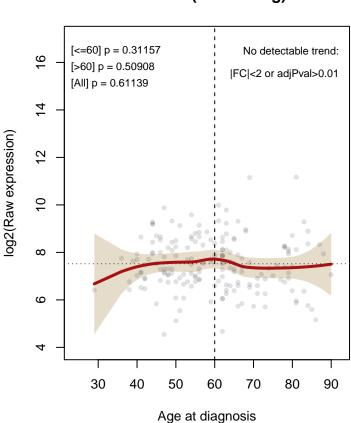




PODXL (non-ER binding)

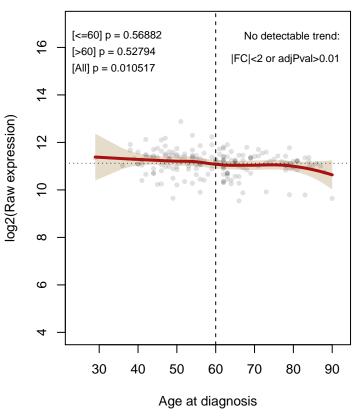
PPARG (ER binding)

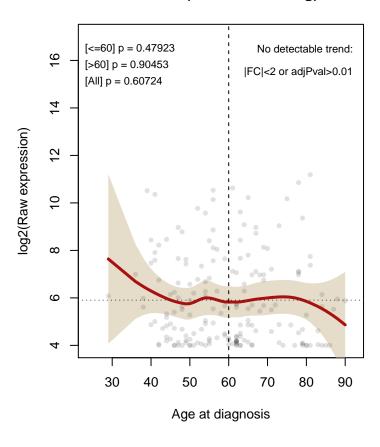






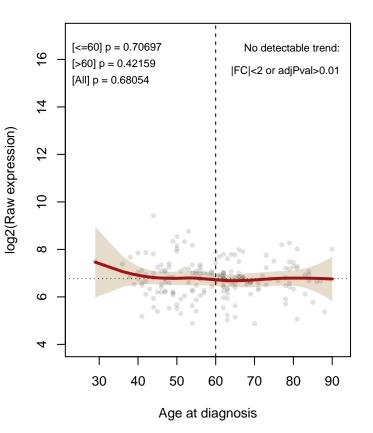
PYDC1 (non-ER binding)

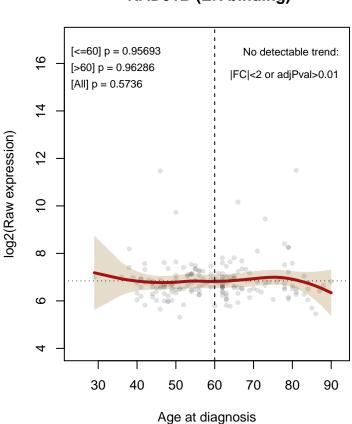




RAD51 (non-ER binding)

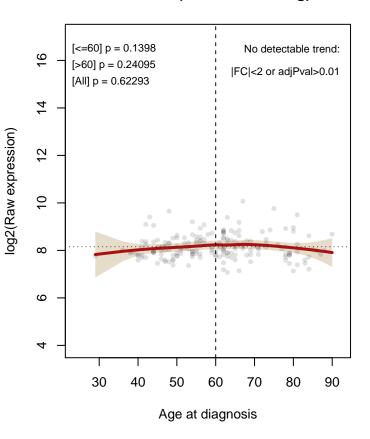
RAD51B (ER binding)

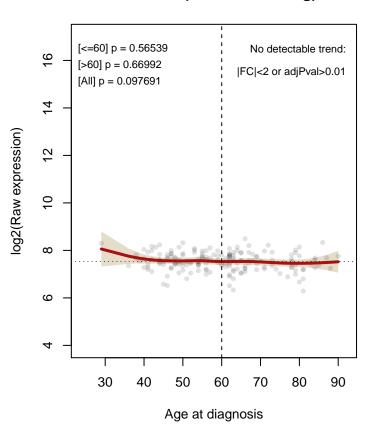




RAD51C (non-ER binding)

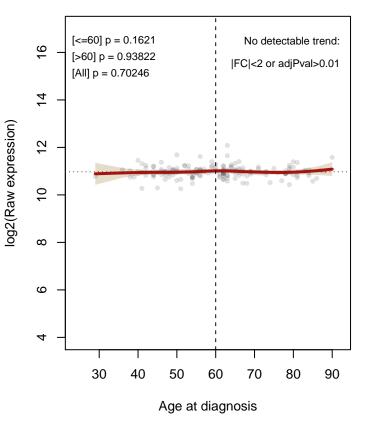
RAD51D (non-ER binding)

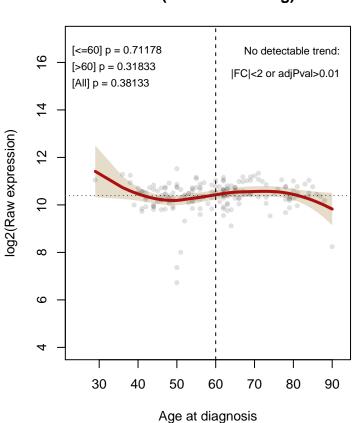


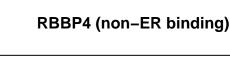


RAF1 (non-ER binding)

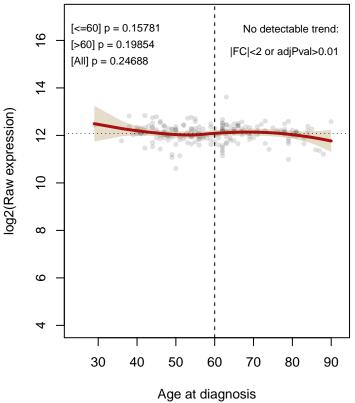
RB1 (non-ER binding)

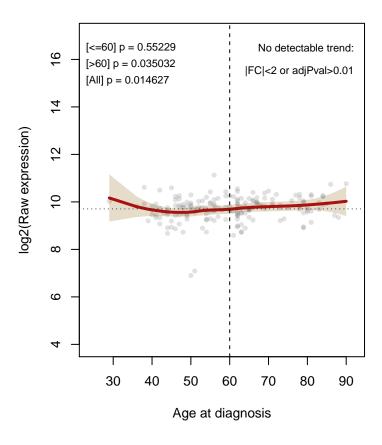






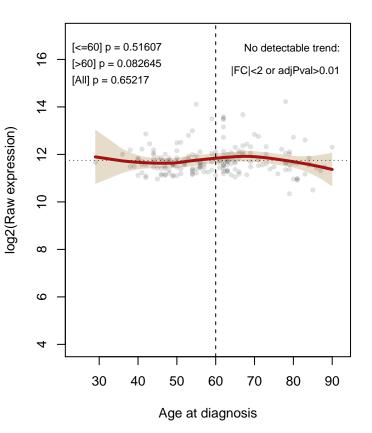
RBBP5 (non-ER binding)

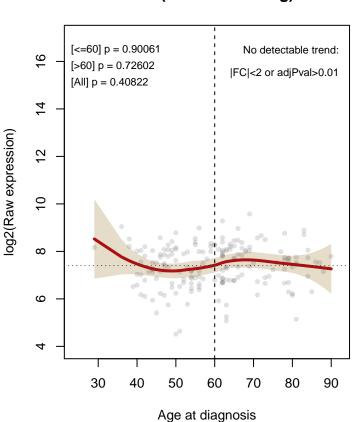


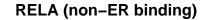


RBBP7 (non-ER binding)

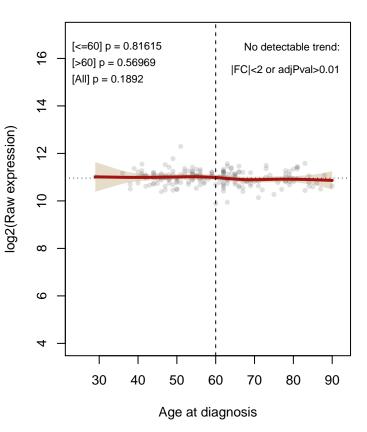
REL (non-ER binding)

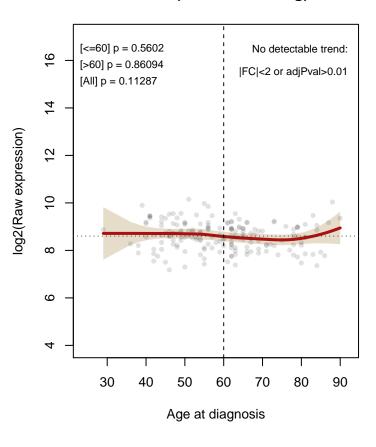






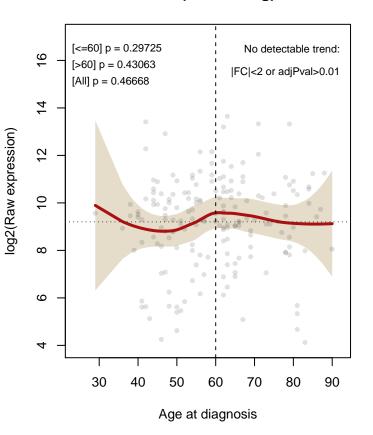
RELB (non-ER binding)

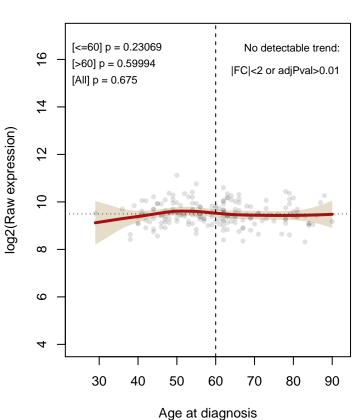


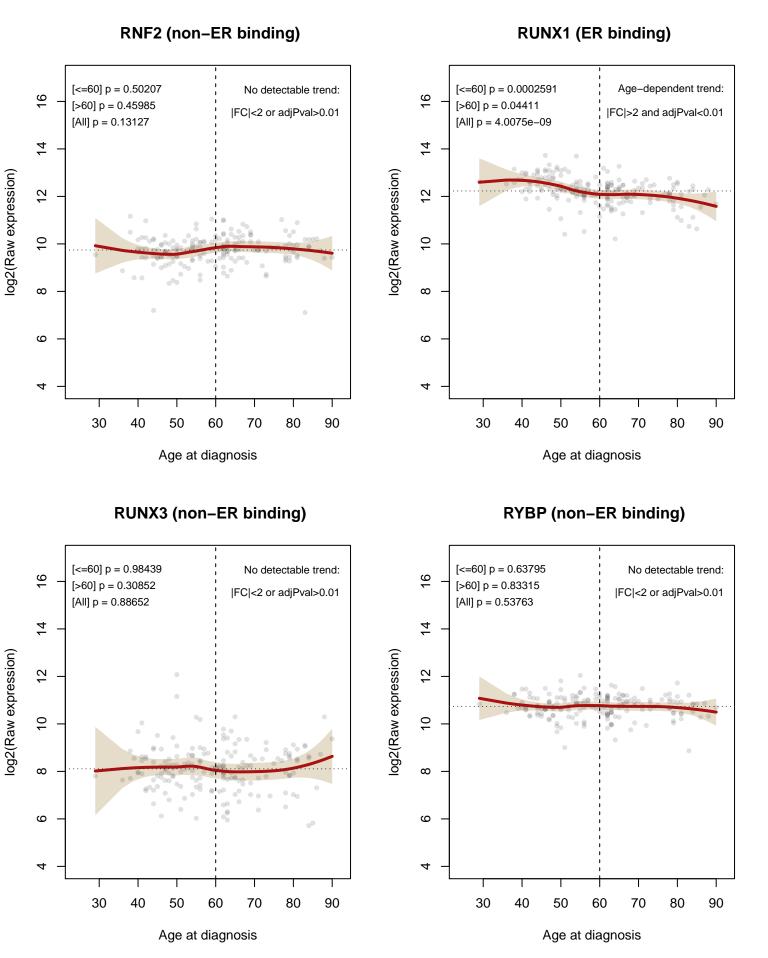


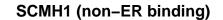
RET (ER binding)

RING1 (non-ER binding)

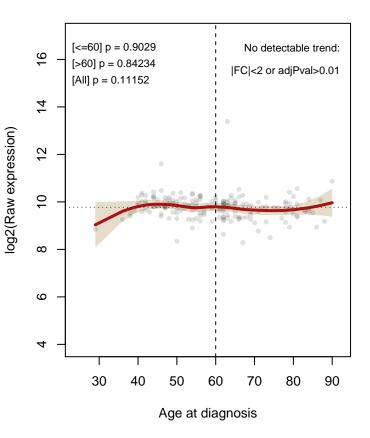


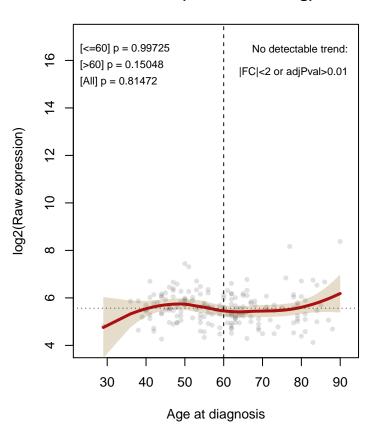






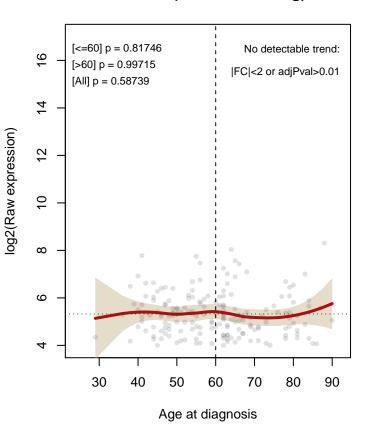
SCML2 (non-ER binding)

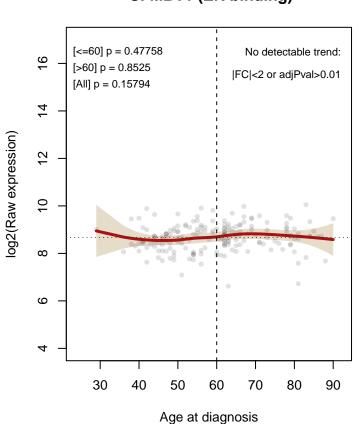




SCML4 (non-ER binding)

SFMBT1 (ER binding)





SFMBT2 (ER binding) SFPQ (non-ER binding) [<=60] p = 0.79158No detectable trend: [<=60] p = 0.29027No detectable trend: 16 16 [>60] p = 0.025898 [>60] p = 0.27223 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.22042[AII] p = 0.00623894 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ∞ ω 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis SHC1 (non-ER binding) SIRT1 (non-ER binding) [<=60] p = 0.20007No detectable trend: [<=60] p = 0.47048No detectable trend: 16 16 [>60] p = 0.17351 [>60] p = 0.65493|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.06749[AII] p = 0.47474 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ∞ 9 9

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Age at diagnosis

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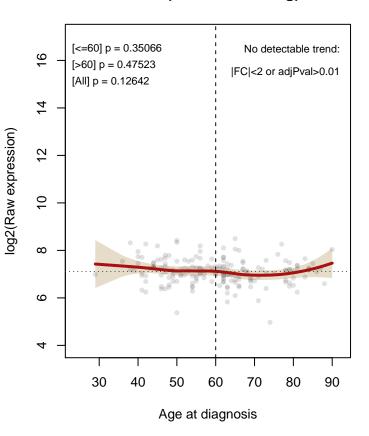
Age at diagnosis

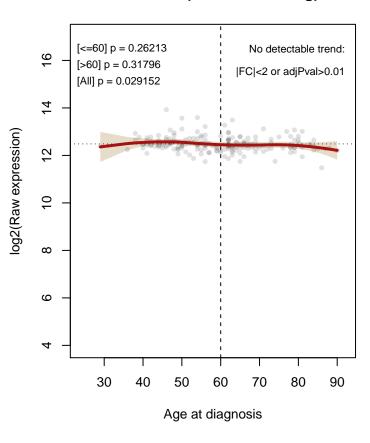
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SKP2 (non-ER binding)

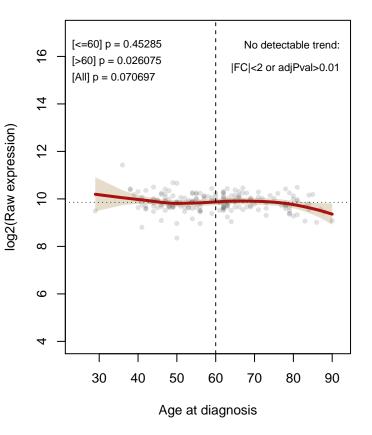
SLC25A3 (non-ER binding)

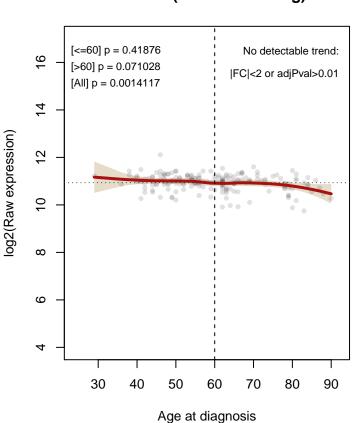




SMAD1 (non-ER binding)

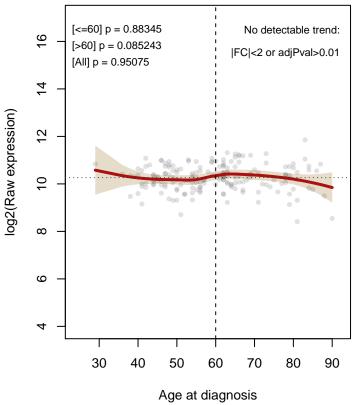
SMAD2 (non-ER binding)

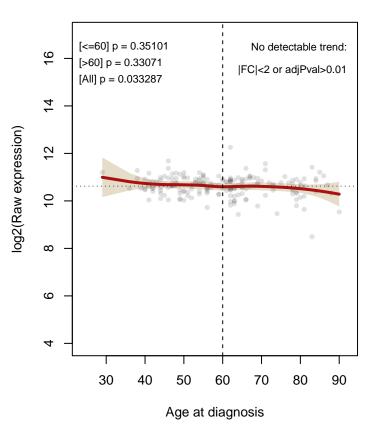




SMAD3 (ER binding)

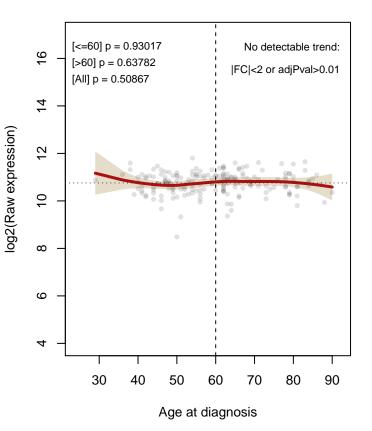
SMAD4 (non-ER binding)

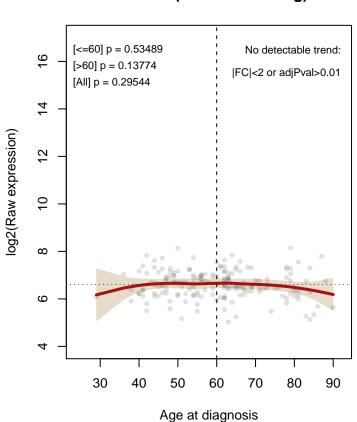




SMAD5 (non-ER binding)

SMAD6 (non-ER binding)





SMAD7 (non-ER binding) SMAD9 (non-ER binding) [<=60] p = 0.4427No detectable trend: [<=60] p = 0.33982No detectable trend: 16 16 [>60] p = 0.084732 [>60] p = 0.090401 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.0077356[AII] p = 0.0102764 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 SOS1 (non-ER binding) SOS2 (non-ER binding) [<=60] p = 0.85125No detectable trend: [<=60] p = 0.44266No detectable trend: 16 16 [>60] p = 0.39207[>60] p = 0.8162 |FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [All] p = 0.43642[All] p = 0.773424 4 log2(Raw expression) log2(Raw expression) 12 12 10 10

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Age at diagnosis

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ω

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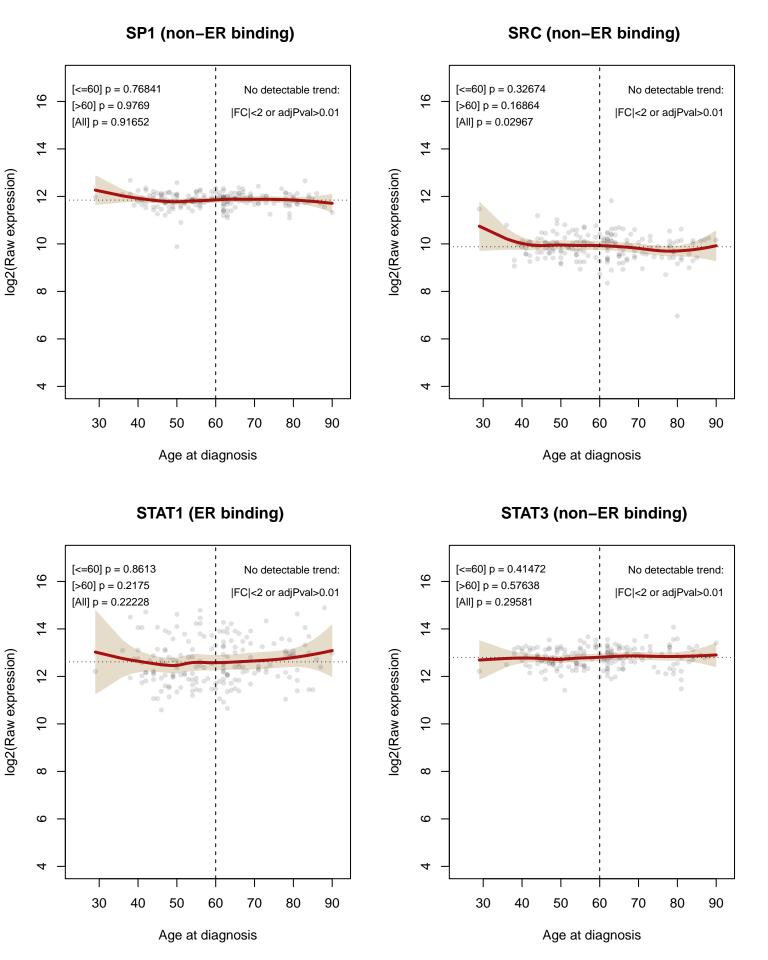
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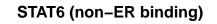
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Age at diagnosis

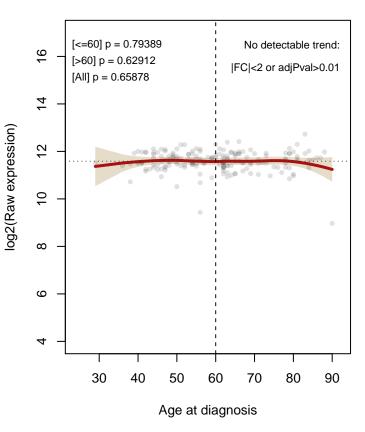
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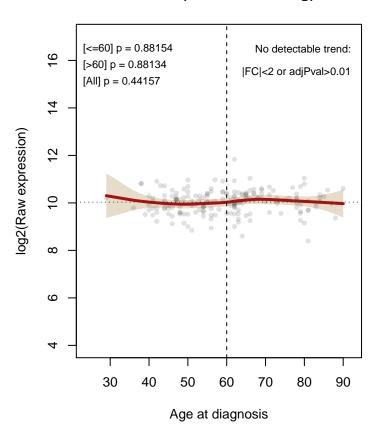
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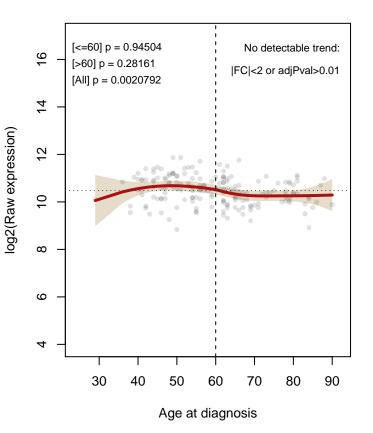
SUZ12 (non-ER binding)

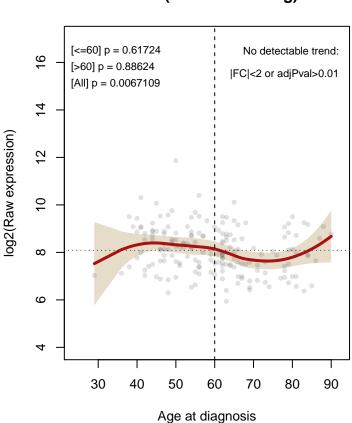




TCF3 (non-ER binding)

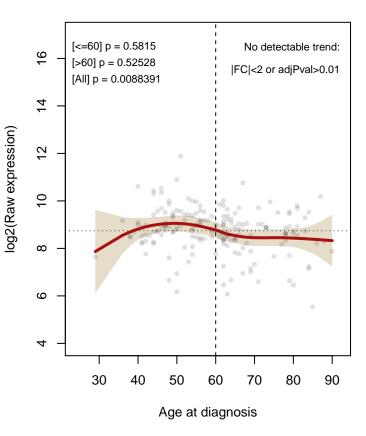
TCF7 (non-ER binding)

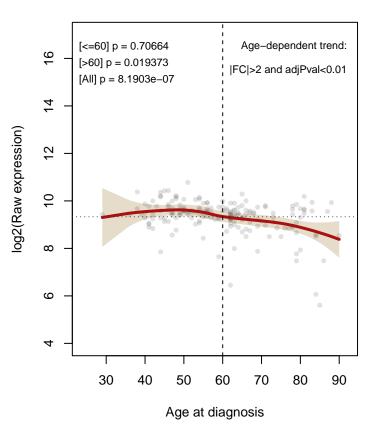






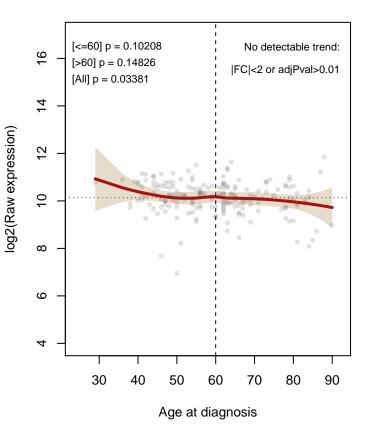
TCF7L2 (non-ER binding)

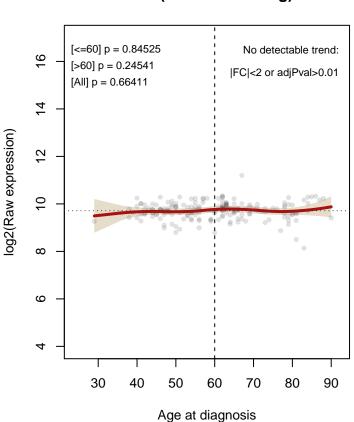


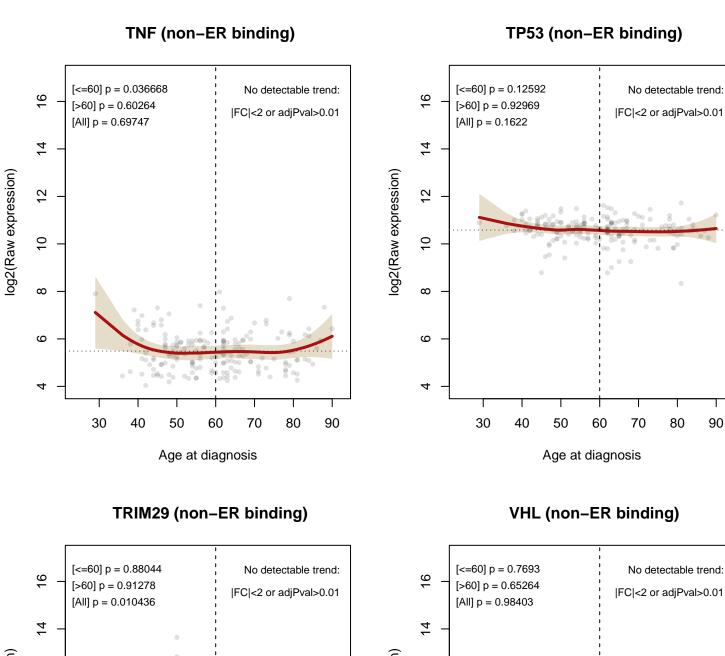


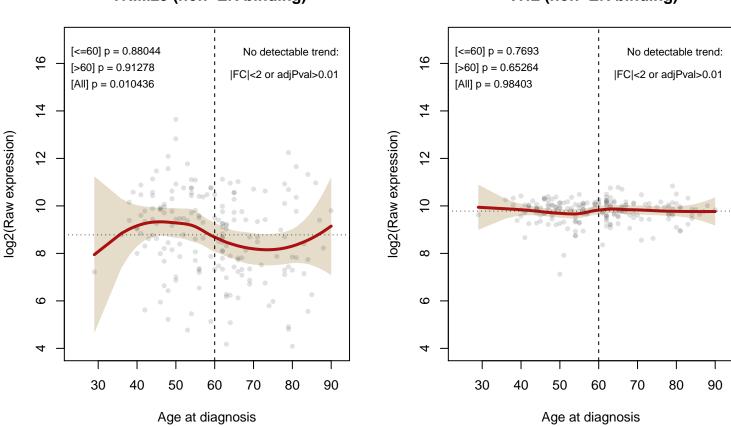
TGFB1 (non-ER binding)

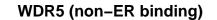
TK2 (non-ER binding)



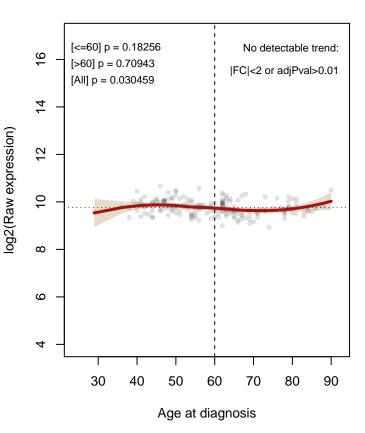


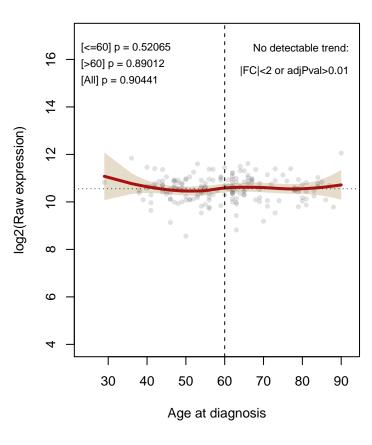






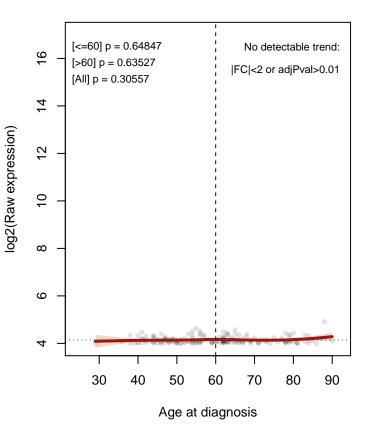
WHSC1 (non-ER binding)

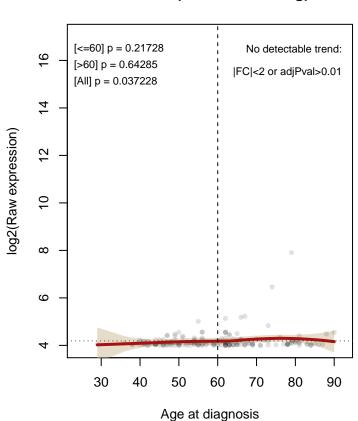


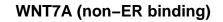


WNT1 (non-ER binding)

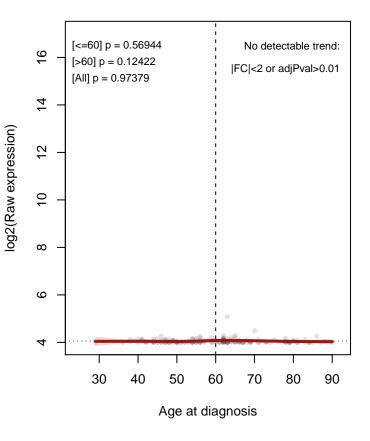
WNT3A (non-ER binding)

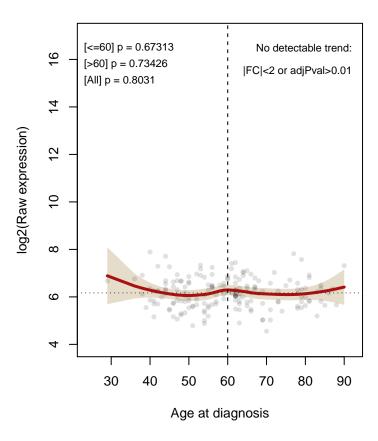






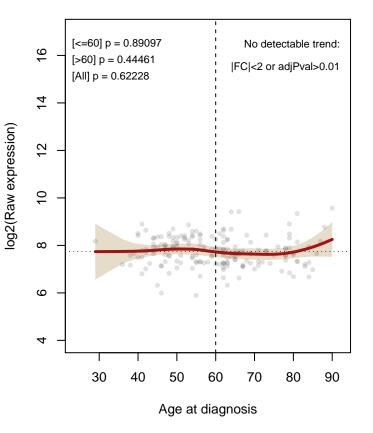
XRCC2 (non-ER binding)

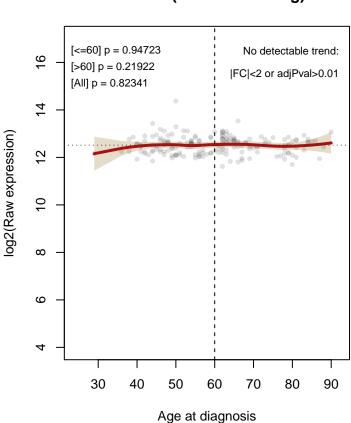




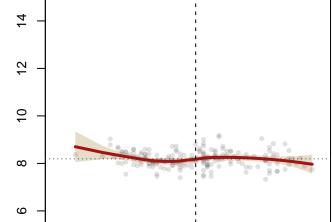
XRCC3 (non-ER binding)

XRCC6 (non-ER binding)





YAF2 (non-ER binding)



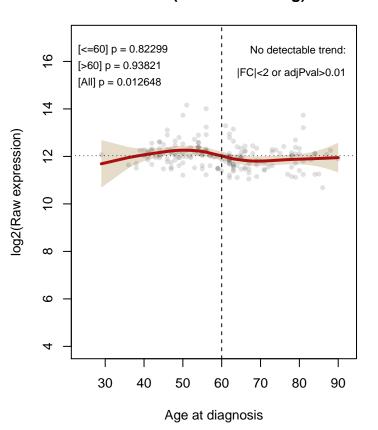
30

40

50

log2(Raw expression)

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

60

70

80

