

ASXL3 (non-ER binding) ATM (non-ER binding) [<=60] p = 0.34695No detectable trend: [<=60] p = 0.1022No detectable trend: 16 16 [>60] p = 0.50563 [>60] p = 0.81981 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.14429[All] p = 0.330914 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis ATR (non-ER binding) **AXIN1 (ER binding)** [<=60] p = 0.92398No detectable trend: [<=60] p = 0.41789No detectable trend: 16 16 [>60] p = 0.49806[>60] p = 0.75205 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.12509[All] p = 0.159554 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω 9 9

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Age at diagnosis

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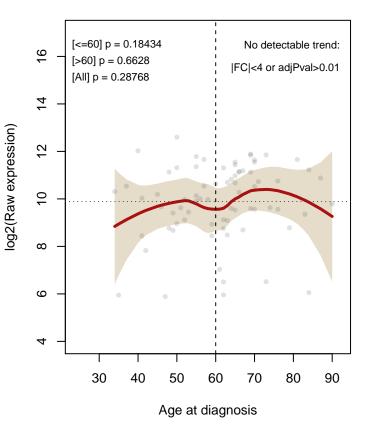
Age at diagnosis

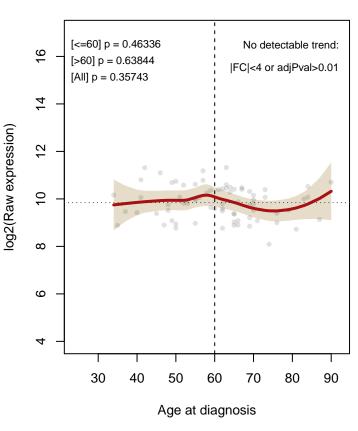
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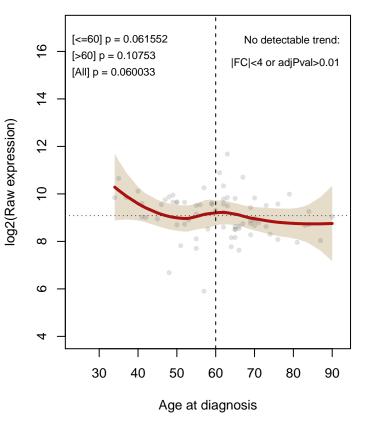
BCL3 (non-ER binding)

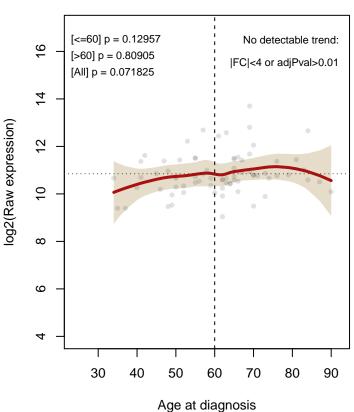




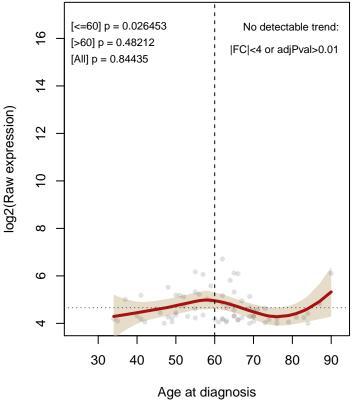
BIRC5 (non-ER binding)

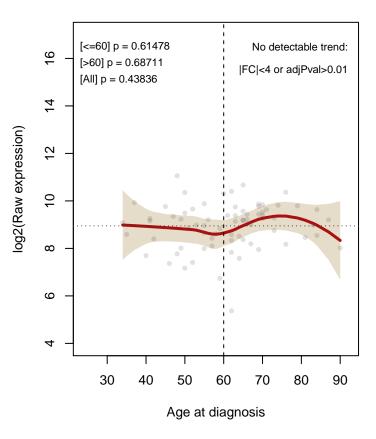
BMI1 (non-ER binding)





BRCA1 (non-ER binding)

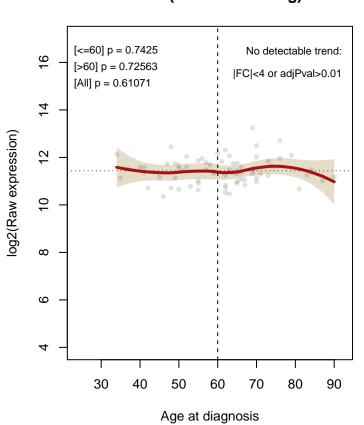




CA9 (non-ER binding)

[<=60] p = 0.21491 No detectable trend: 16 [>60] p = 0.58397 |FC|<4 or adjPval>0.01 [All] p = 0.314864 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90 Age at diagnosis

CBX1 (non-ER binding)



CBX2 (non-ER binding) CBX4 (non-ER binding) [<=60] p = 0.87949No detectable trend: [<=60] p = 0.20433No detectable trend: 16 16 [>60] p = 0.87835 [>60] p = 0.053504 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.033598[All] p = 0.712754 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis CBX6 (non-ER binding) **CBX7 (non-ER binding)** [<=60] p = 0.48512No detectable trend: [<=60] p = 0.14808No detectable trend: 16 16 [>60] p = 0.71807 [>60] p = 0.71994 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.94657[AII] p = 0.477064 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω

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Age at diagnosis

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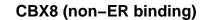
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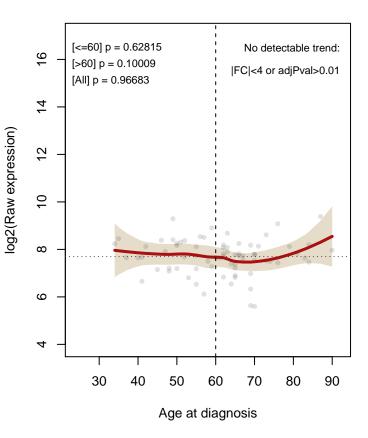
Age at diagnosis

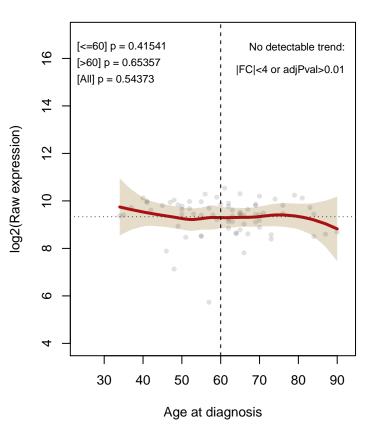
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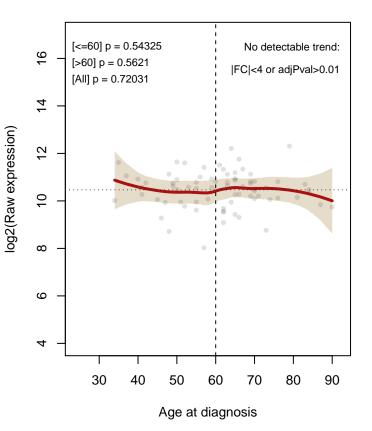
CCNA2 (non-ER binding)

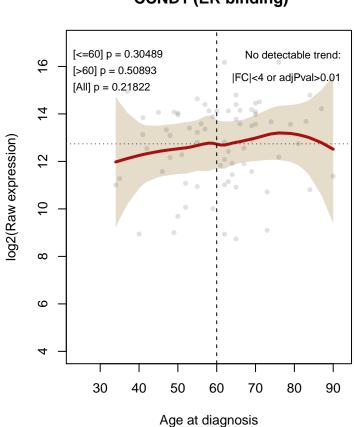


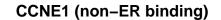


CCNB1 (non-ER binding)

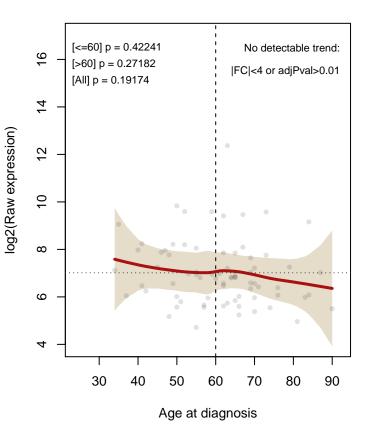
CCND1 (ER binding)

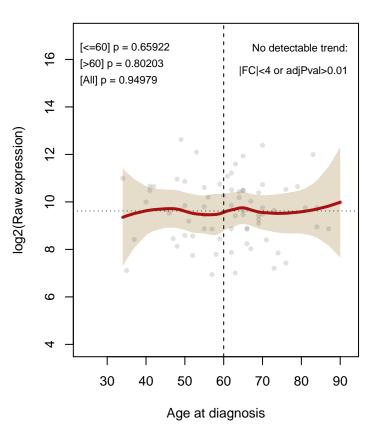






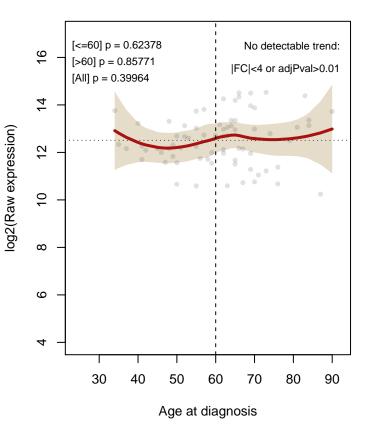
CD163 (non-ER binding)

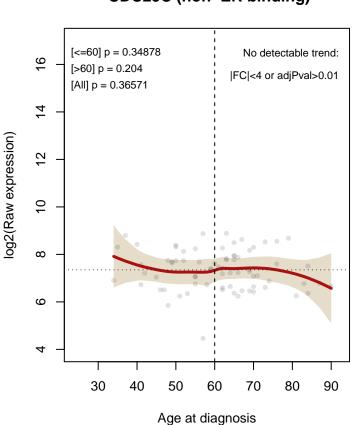




CD44 (non-ER binding)

CDC25C (non-ER binding)





CDH1 (non-ER binding) CDH3 (ER binding) [<=60] p = 0.3145No detectable trend: [<=60] p = 0.55423No detectable trend: 16 16 [>60] p = 0.76671 [>60] p = 0.30711 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.28788 [All] p = 0.428124 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 CDK1 (non-ER binding) CDK2 (non-ER binding) [<=60] p = 0.36316No detectable trend: [<=60] p = 0.083216No detectable trend: 16 16 [>60] p = 0.64327 [>60] p = 0.66687 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.80424[All] p = 0.677544 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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CDK4 (non-ER binding) CDK6 (ER binding) [<=60] p = 0.011065No detectable trend: [<=60] p = 0.27625No detectable trend: 16 16 [>60] p = 0.61984 [>60] p = 0.90492 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.11002[All] p = 0.165714 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 CDK7 (non-ER binding) CDKN1A (non-ER binding) [<=60] p = 0.64569No detectable trend: [<=60] p = 0.57973No detectable trend: 16 16 [>60] p = 0.92797 [>60] p = 0.72557 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.057155[All] p = 0.220244 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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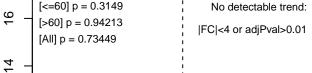
Age at diagnosis

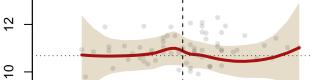
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CDKN1B (non-ER binding)

No detectable trend:





log2(Raw expression)





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Age at diagnosis

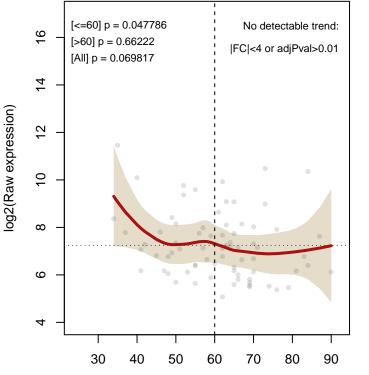
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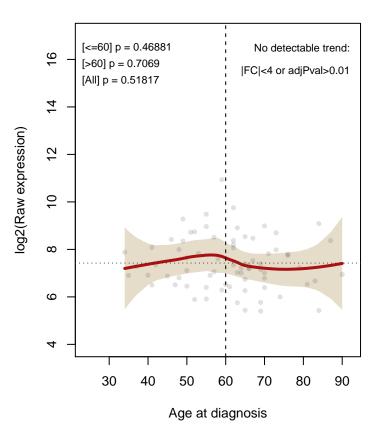
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CDKN2A (non-ER binding)

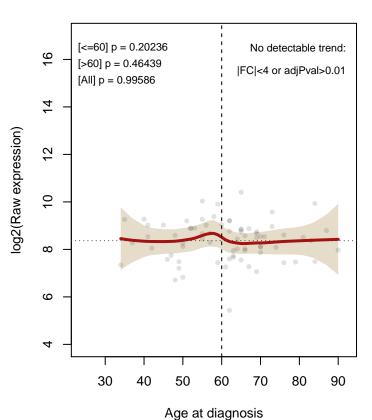


Age at diagnosis

CDKN1C (non-ER binding)

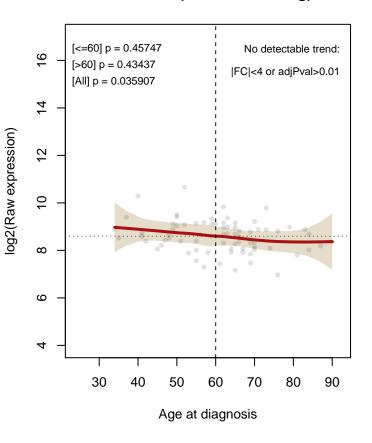


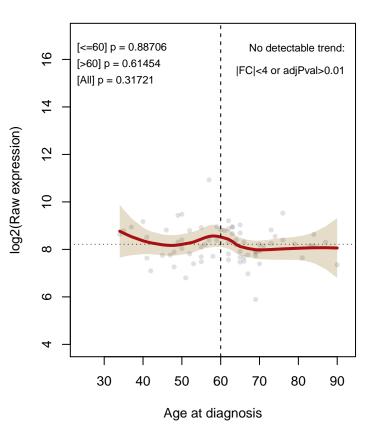
CDKN2B (non-ER binding)



CDKN2C (non-ER binding)

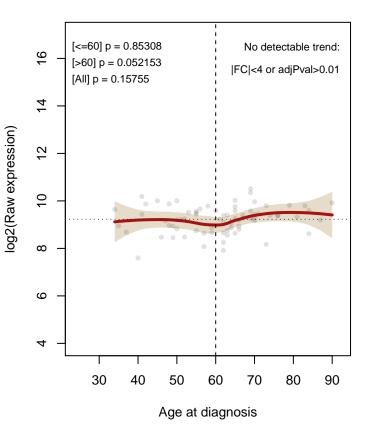
CDKN2D (non-ER binding)

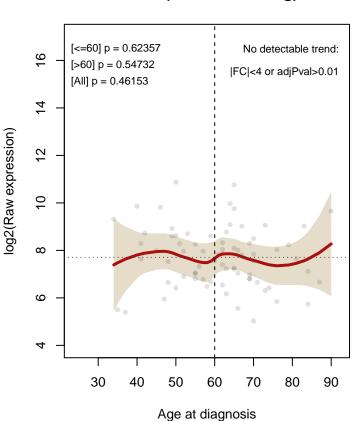




CHUK (non-ER binding)

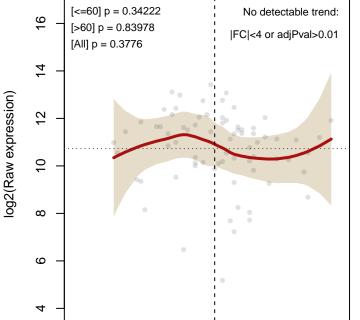
CIITA (non-ER binding)





CLDN3 (non-ER binding)

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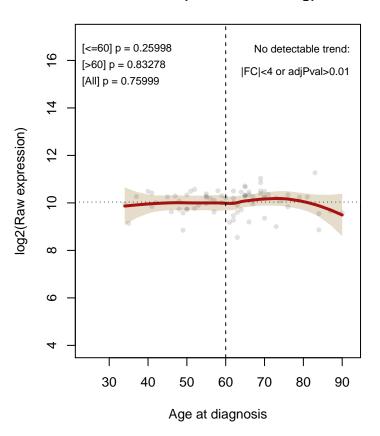


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CREB1 (non-ER binding)



CRYAB (non-ER binding)

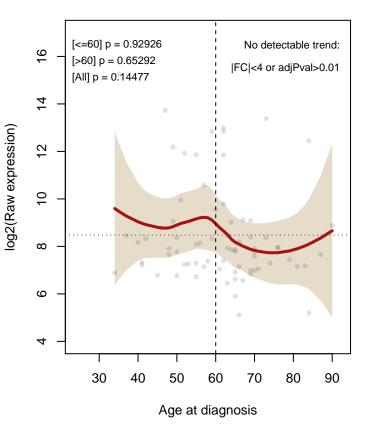
Age at diagnosis

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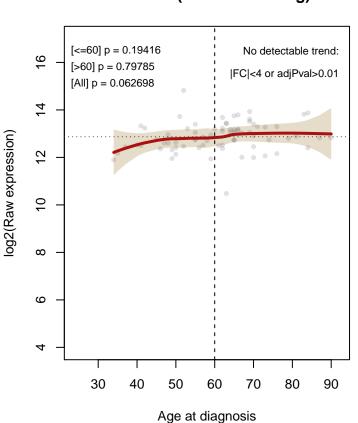
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CTNNB1 (non-ER binding)



DLC1 (ER binding) DMAP1 (non-ER binding) [<=60] p = 0.0030559 No detectable trend: [<=60] p = 0.4041316 16 [>60] p = 0.44555 [>60] p = 0.37543 |FC|<4 or adjPval>0.01 [All] p = 0.4881[All] p = 0.0759724 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 Age at diagnosis Age at diagnosis **DNMT1** (non-ER binding) [<=60] p = 0.22726No detectable trend: [<=60] p = 0.03063916 16 [>60] p = 0.17922 [>60] p = 0.29552 |FC|<4 or adjPval>0.01 [AII] p = 0.070765[All] p = 0.420194

log2(Raw expression)

12

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ω

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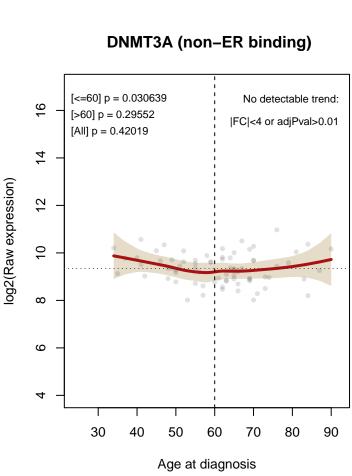
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Age at diagnosis

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No detectable trend:

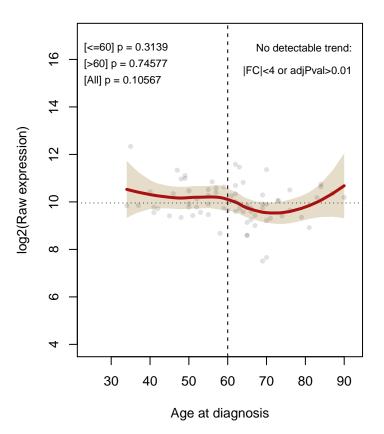
|FC|<4 or adjPval>0.01

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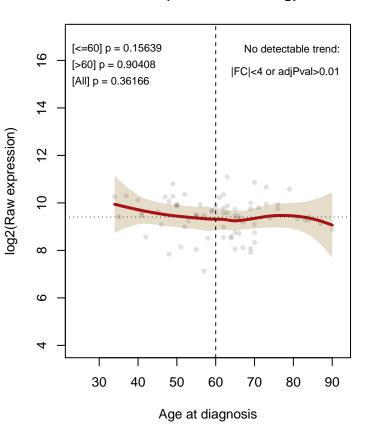
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DNMT3B (non-ER binding) [<=60] p = 0.6626 [>60] p = 0.7662 [All] p = 0.82979 The provided Heavily (a) and the provided Heavily (b) and the provided Heavily (a) and the provided Heavily (b) and the provided Heavily (b) and the provided Heavily (b) and the provided Heavily (c) and the provided Heavily (c)

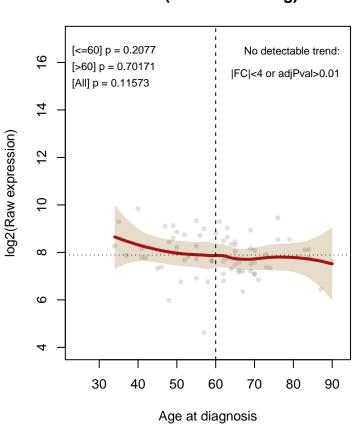
DVL1 (non-ER binding)

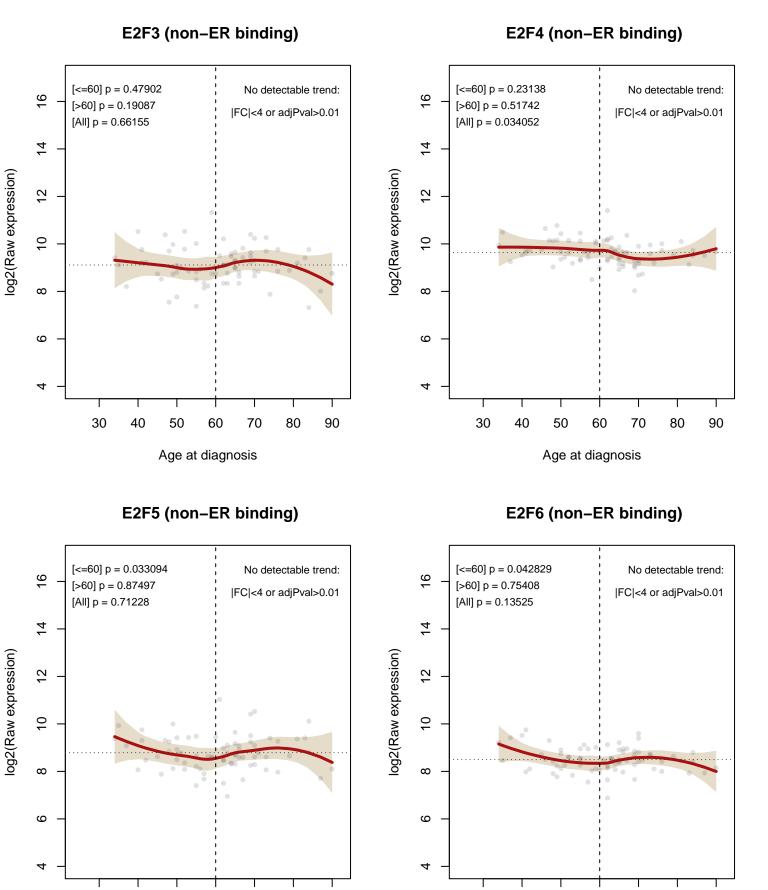


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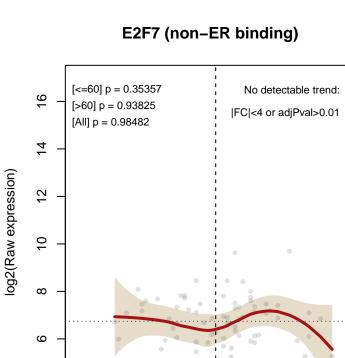
E2F2 (non-ER binding)



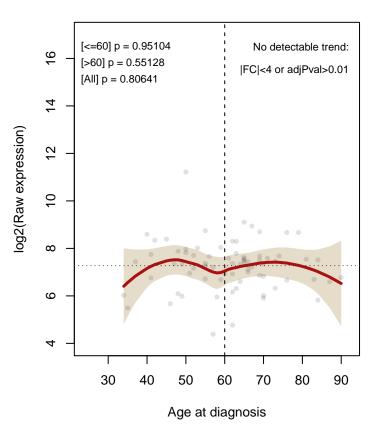


Age at diagnosis

Age at diagnosis

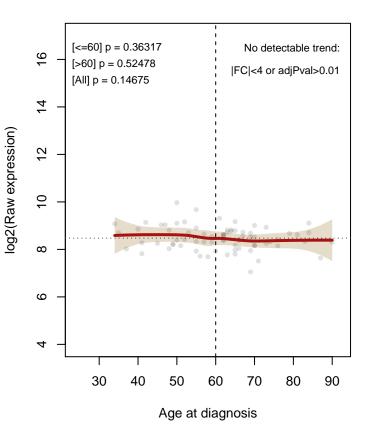


E2F8 (non-ER binding)

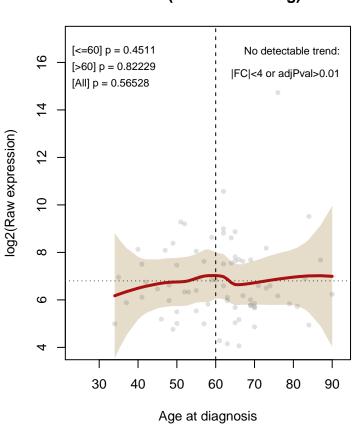


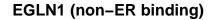
EED (non-ER binding)

Age at diagnosis

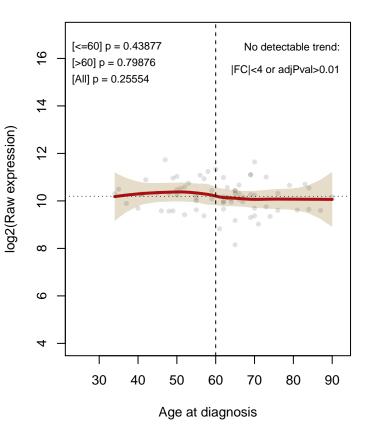


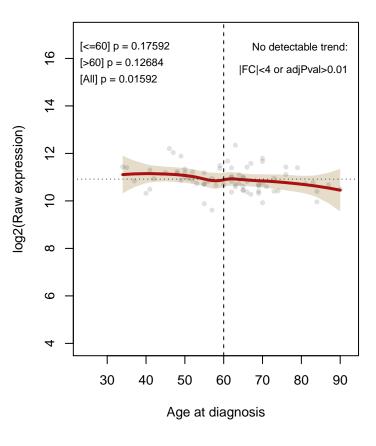
EGFR (non-ER binding)





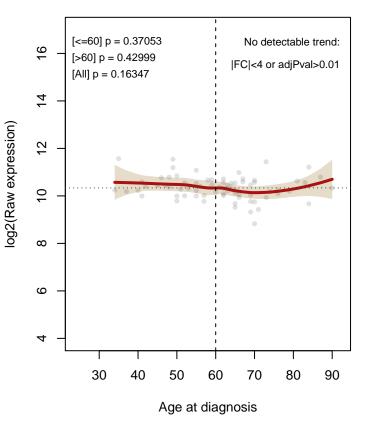
EHMT2 (non-ER binding)

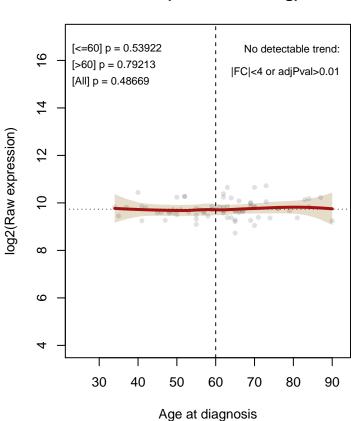


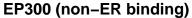


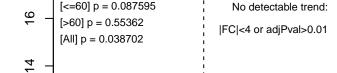
ELAC2 (non-ER binding)

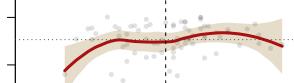
ELK1 (non-ER binding)









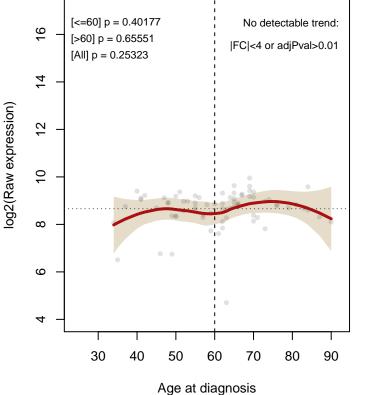


ω

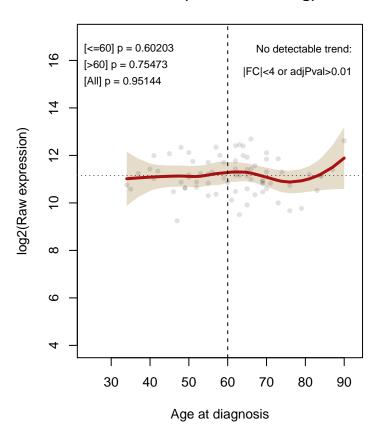
log2(Raw expression)

Age at diagnosis

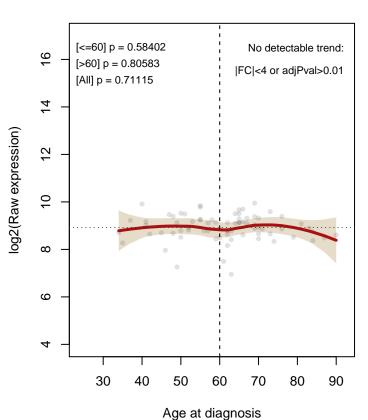
EPC1 (non-ER binding)



EPAS1 (non-ER binding)

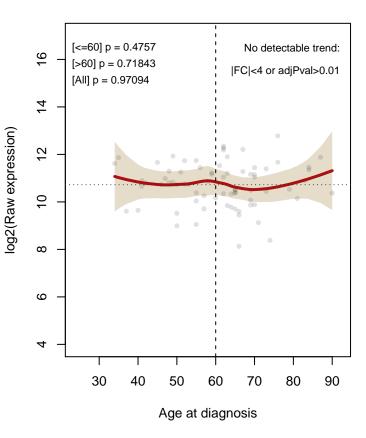


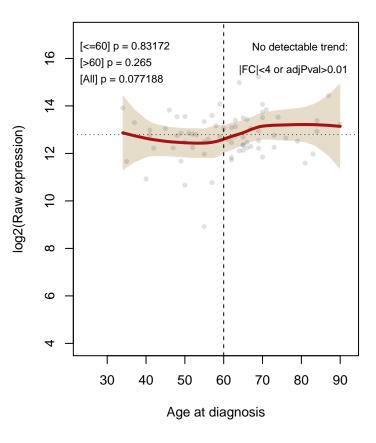
EPC2 (non-ER binding)



EPHB4 (non-ER binding)

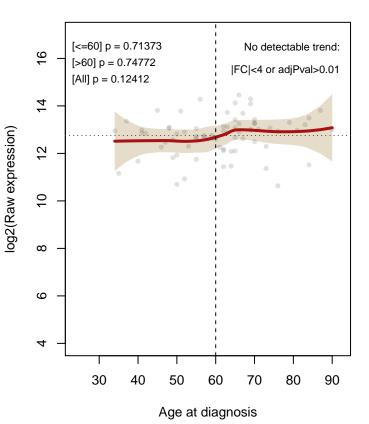
ERBB2 (non-ER binding)

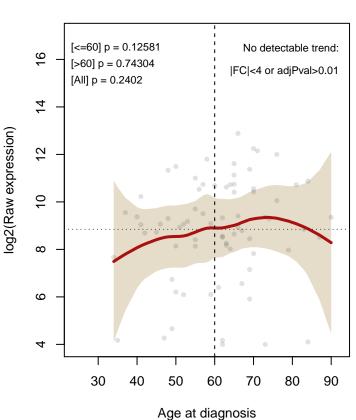


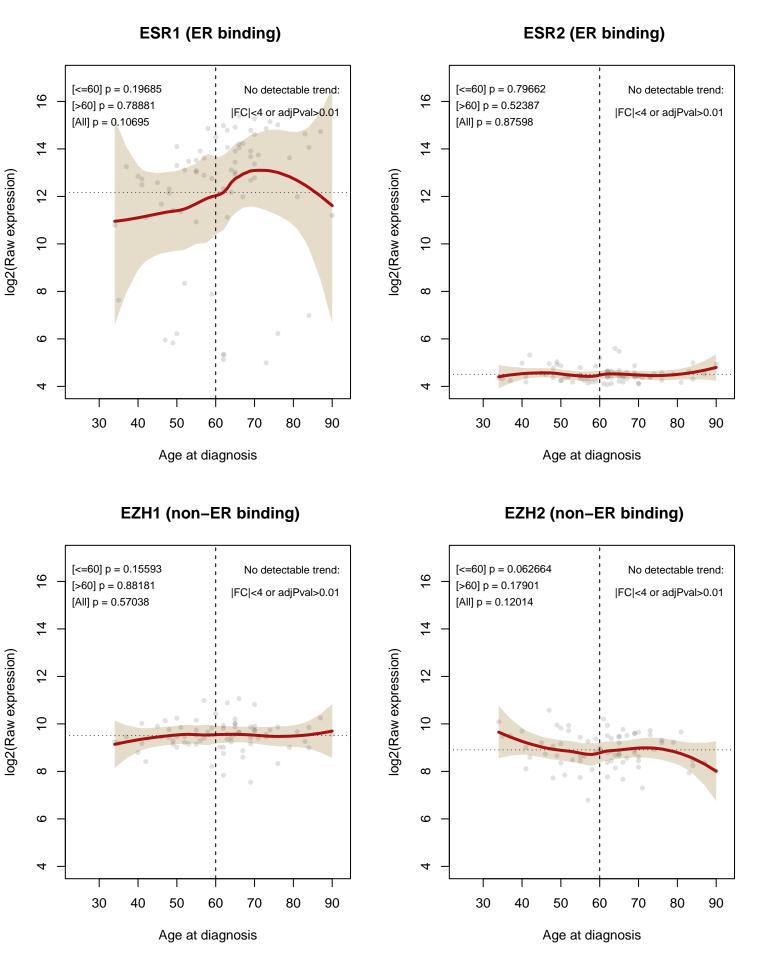


ERBB3 (non-ER binding)

ERBB4 (ER binding)

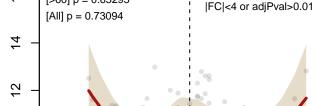








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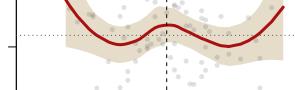
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log2(Raw expression)





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Age at diagnosis

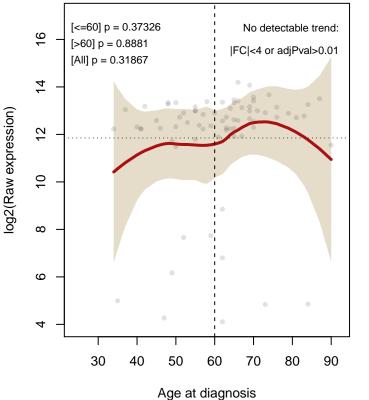
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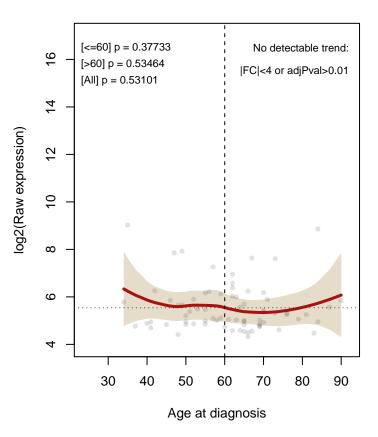
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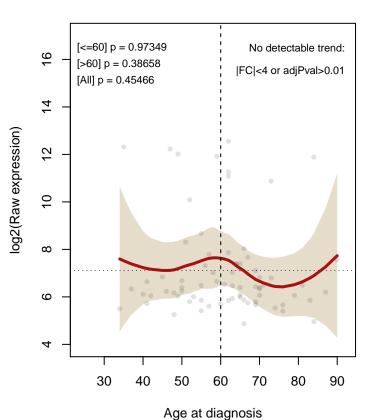
FOXA1 (ER binding)

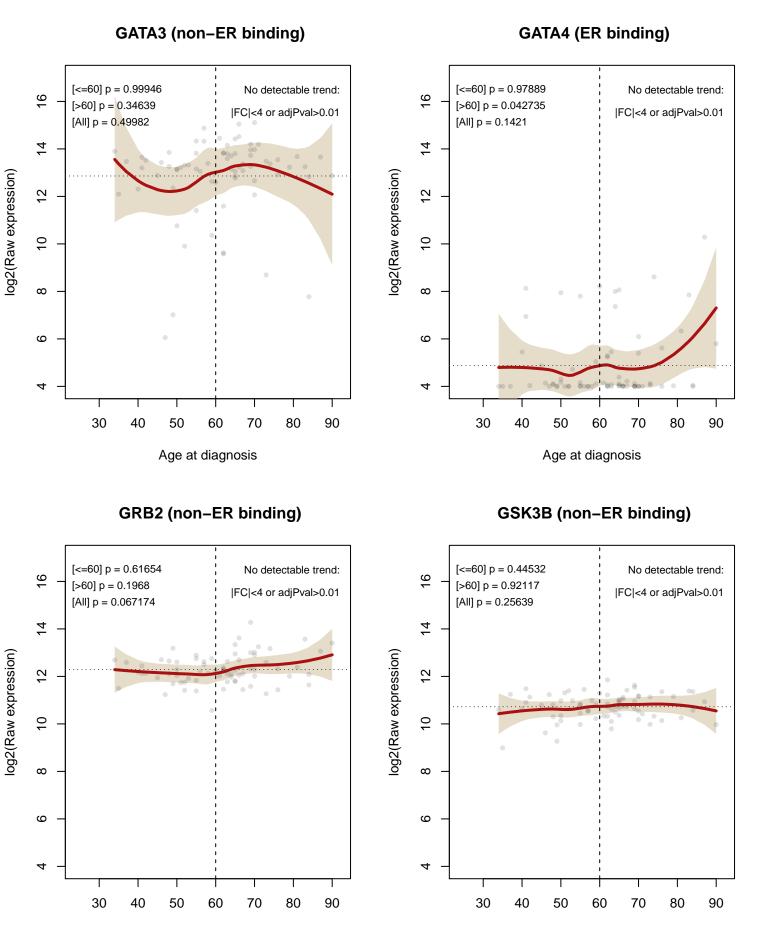


FOSL1 (non-ER binding)



FOXC1 (ER binding)





Age at diagnosis

Age at diagnosis

H3F3A (non-ER binding) **HDAC1 (ER binding)** [<=60] p = 0.30564No detectable trend: [<=60] p = 0.33281No detectable trend: 16 16 [>60] p = 0.36842 [>60] p = 0.12877 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.09211[All] p = 0.708454 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 **HDAC2** (non-ER binding) **HES1 (non-ER binding)** [<=60] p = 0.015061No detectable trend: [<=60] p = 0.59343No detectable trend: 16 16 [>60] p = 0.94523 [>60] p = 0.48053 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [All] p = 0.73913[All] p = 0.73344 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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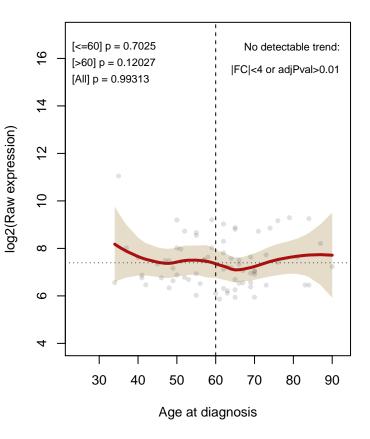
Age at diagnosis

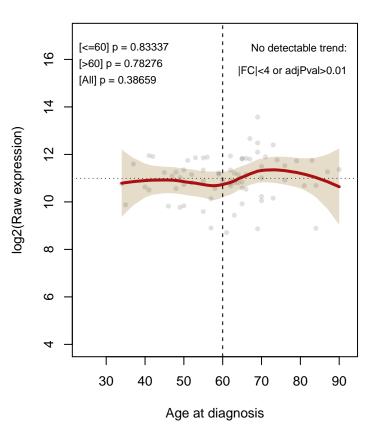
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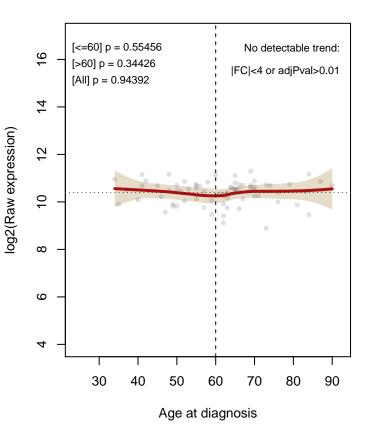
HIF1A (non-ER binding)

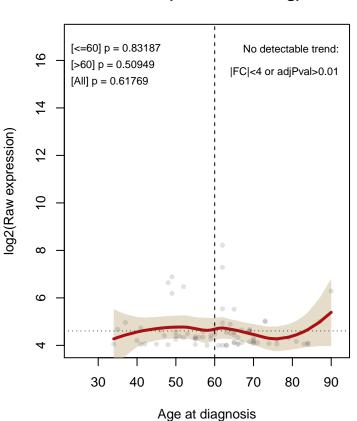




HIF1AN (non-ER binding)

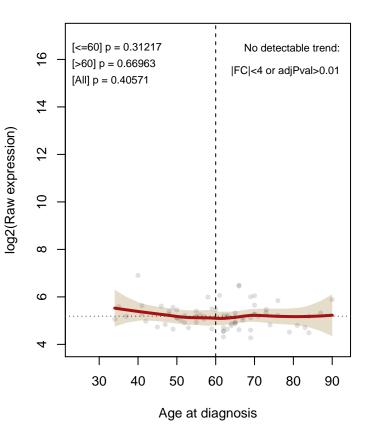
HIF3A (non-ER binding)

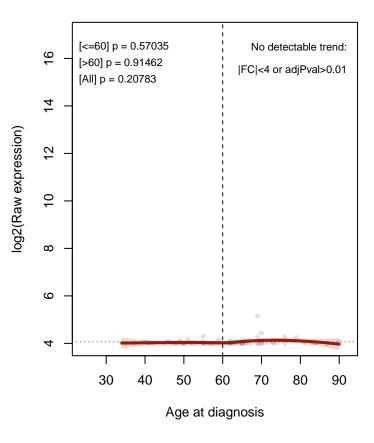




HNF1A (non-ER binding)

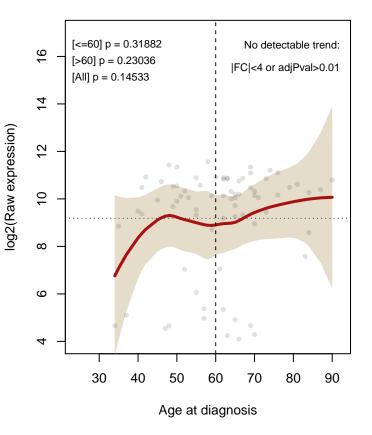
HNF1B (non-ER binding)

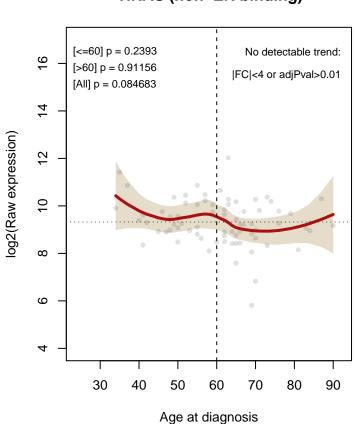


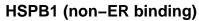


HOXC10 (non-ER binding)

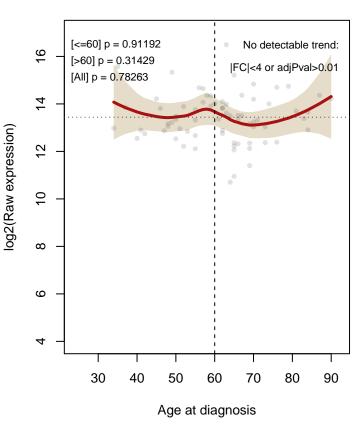
HRAS (non-ER binding)

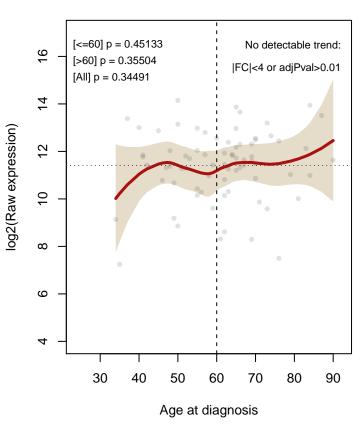






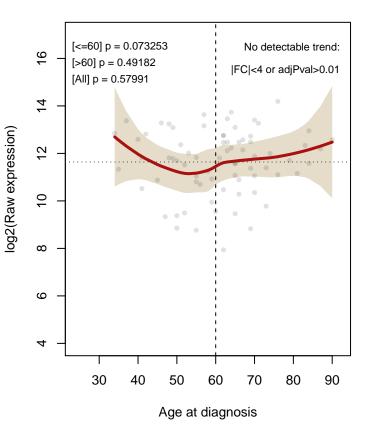
IGF1R (ER binding)

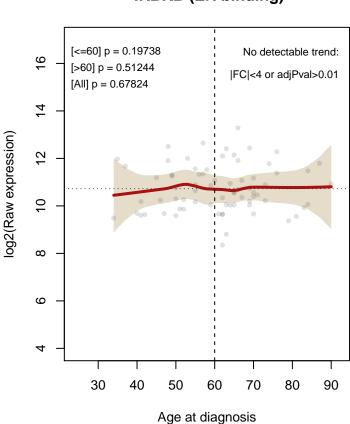




IGFBP2 (non-ER binding)

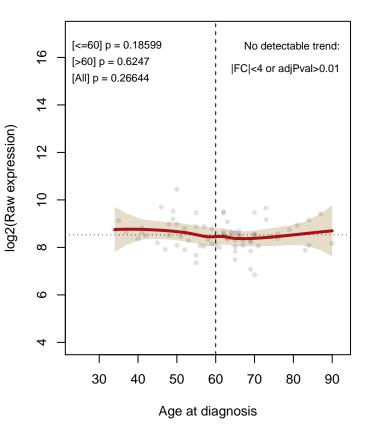
IKBKB (ER binding)

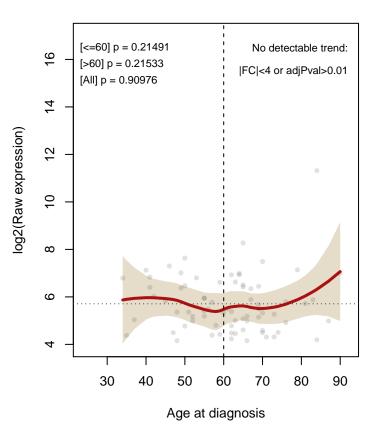






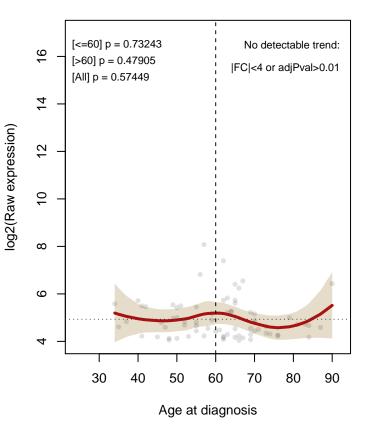
IL2RA (non-ER binding)

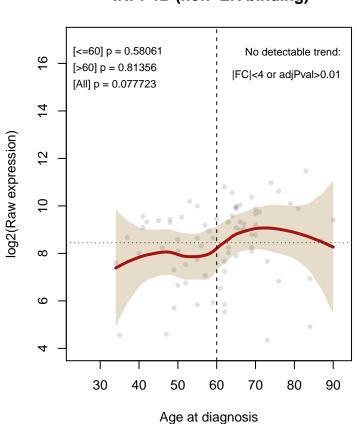


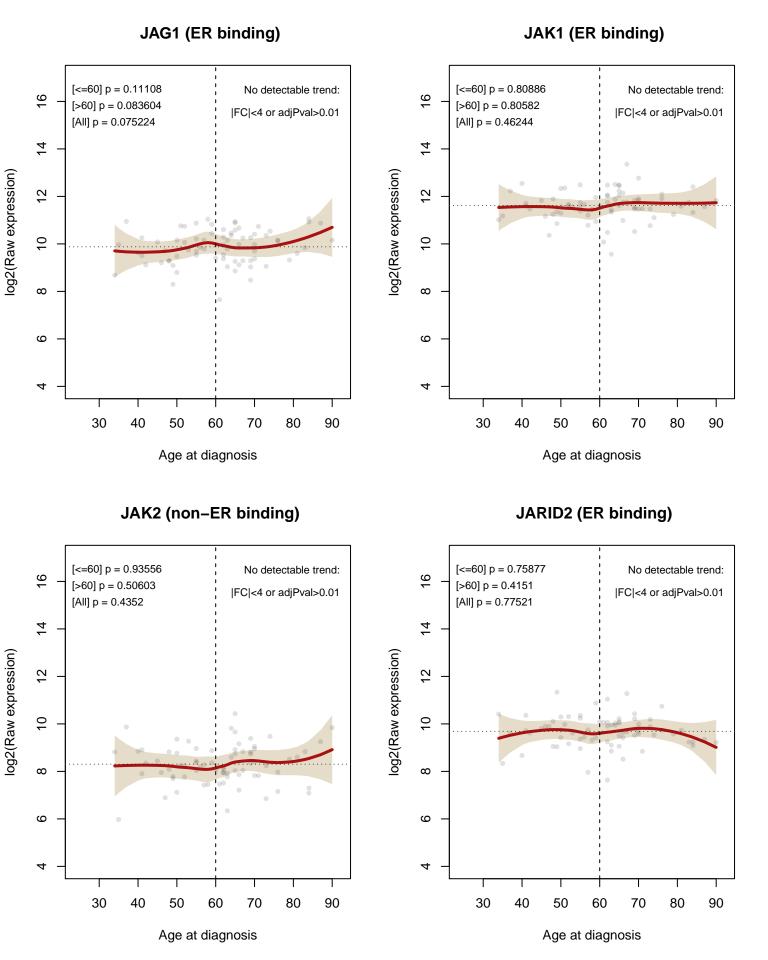


IL6 (non-ER binding)

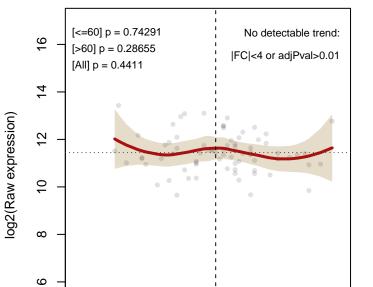
INPP4B (non-ER binding)



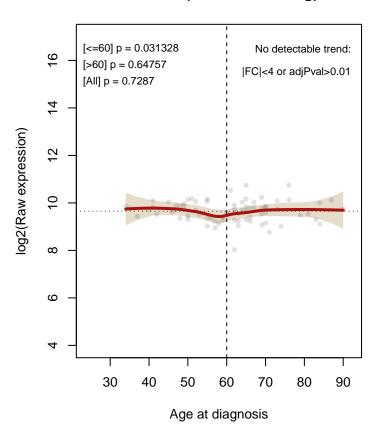






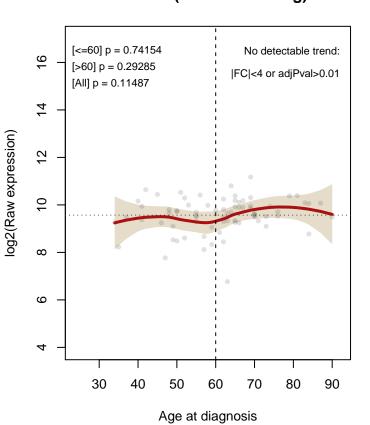


KDM2B (non-ER binding)

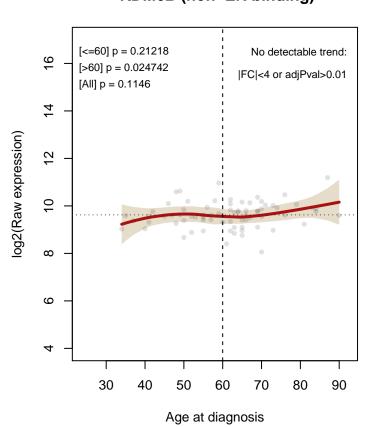


KDM6A (non-ER binding)

Age at diagnosis



KDM6B (non-ER binding)



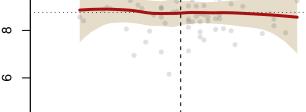


[<=60] p = 0.7404No detectable trend:





log2(Raw expression)



60

Age at diagnosis

KMT2C (non-ER binding)

70

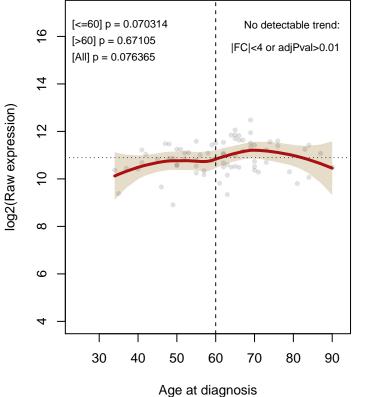
80

90

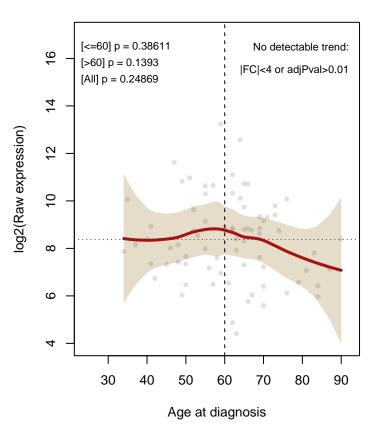
50

30

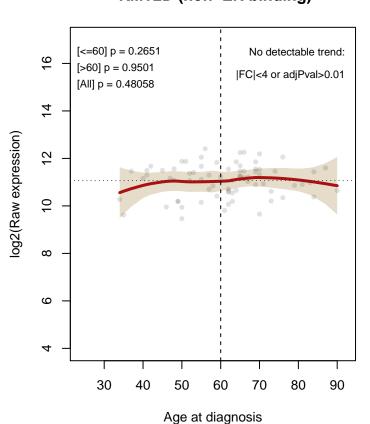
40



KIT (non-ER binding)



KMT2D (non-ER binding)



KRAS (non-ER binding)



19

log2(Raw expression)

ω 9

50

30

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60

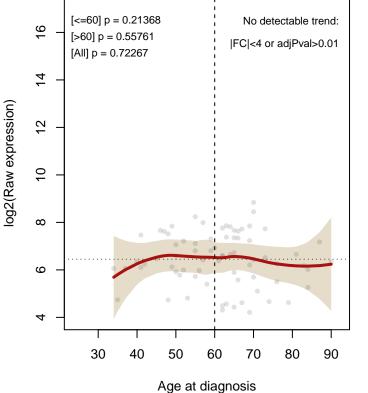
Age at diagnosis

L3MBTL1 (non-ER binding)

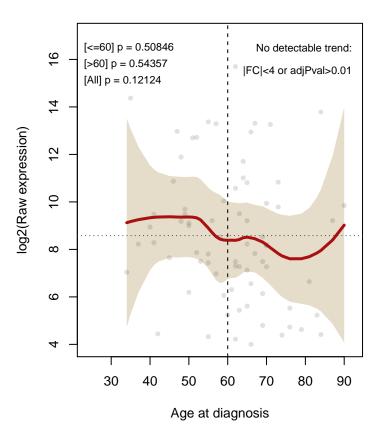
70

80

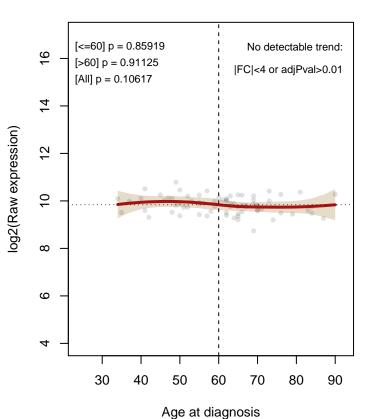
90



KRT5 (non-ER binding)

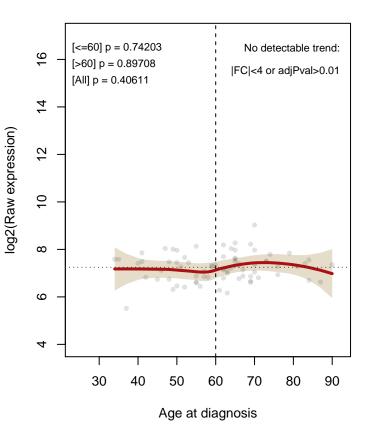


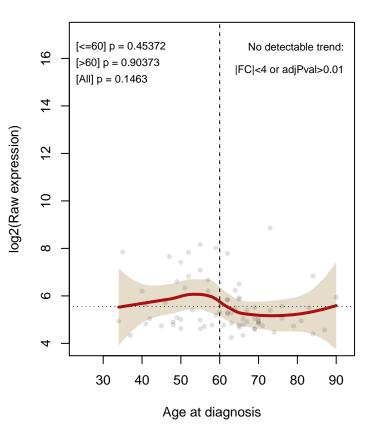
L3MBTL2 (non-ER binding)



L3MBTL3 (ER binding)

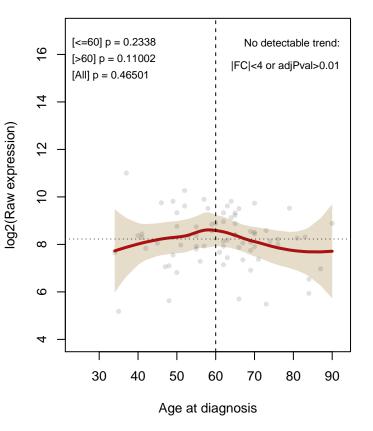
L3MBTL4 (non-ER binding)

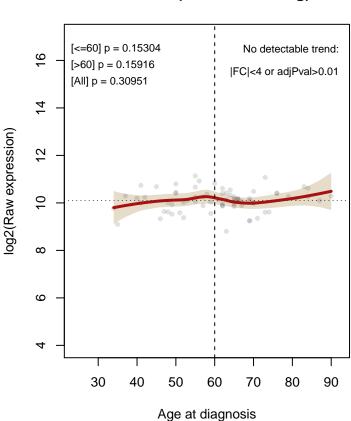




LEF1 (non-ER binding)

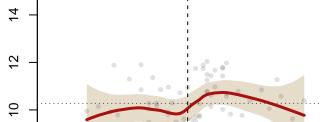
MAP2K1 (non-ER binding)





MAP3K1 (non-ER binding)





log2(Raw expression)

ω 9

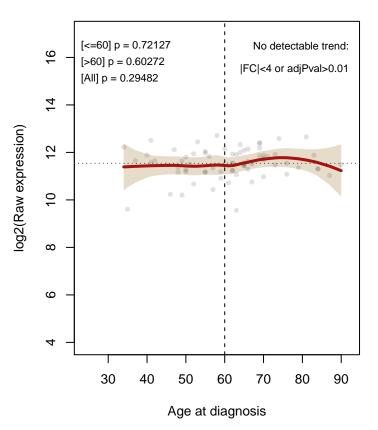
Age at diagnosis

50

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MAPK1 (non-ER binding)



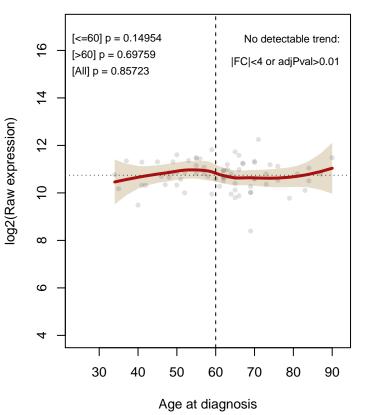
MAPK3 (non-ER binding)

60

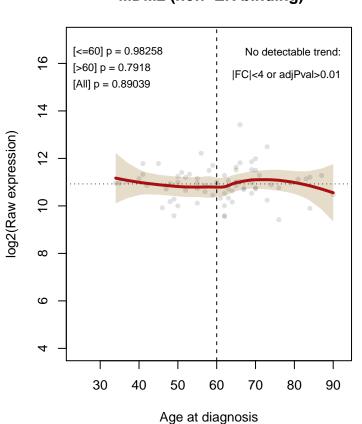
70

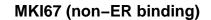
80

90

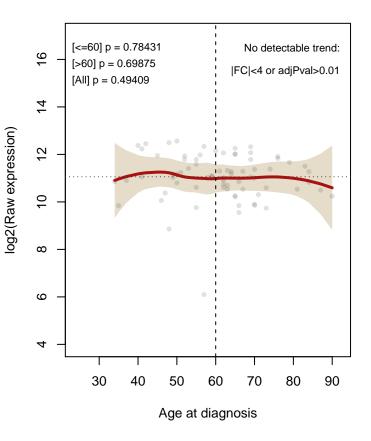


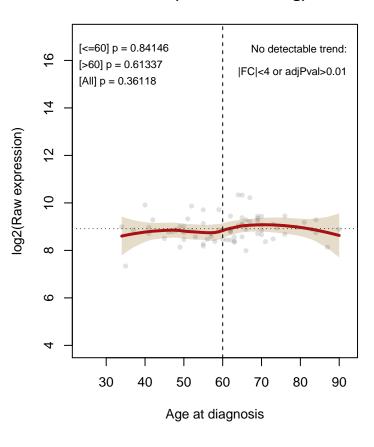
MDM2 (non-ER binding)





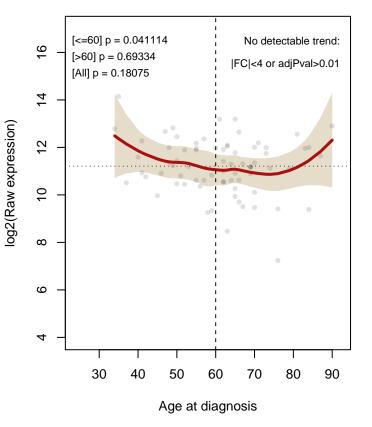
MTF2 (non-ER binding)

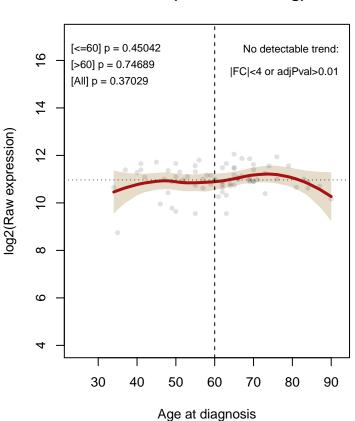


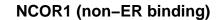


MYC (non-ER binding)

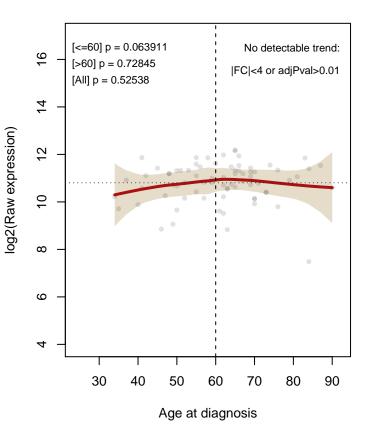
NCOA6 (non-ER binding)

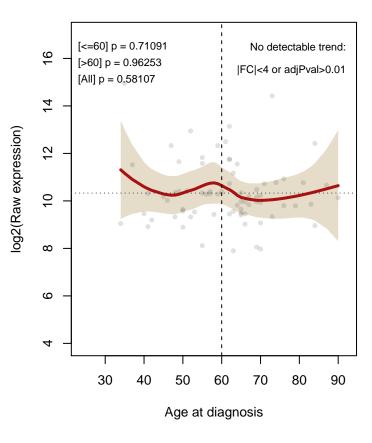






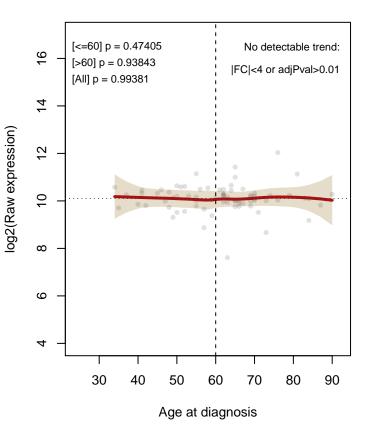
NES (non-ER binding)

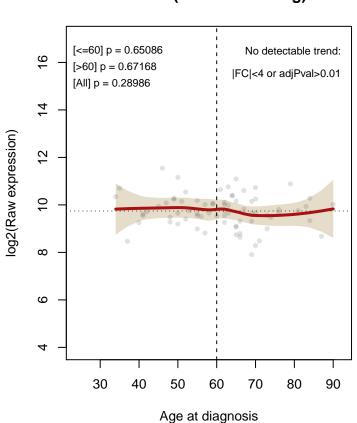




NFKB1 (non-ER binding)

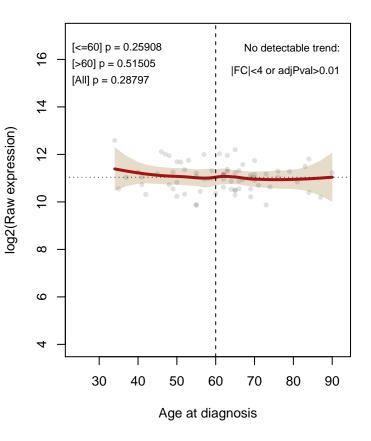
NFKB2 (non-ER binding)

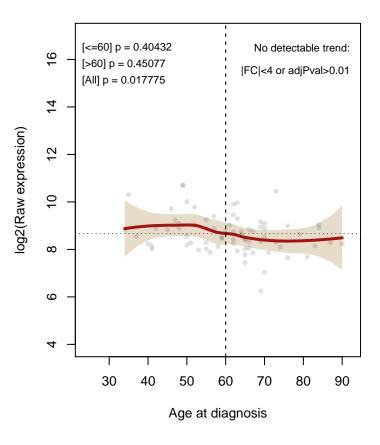




NFKBIA (non-ER binding)

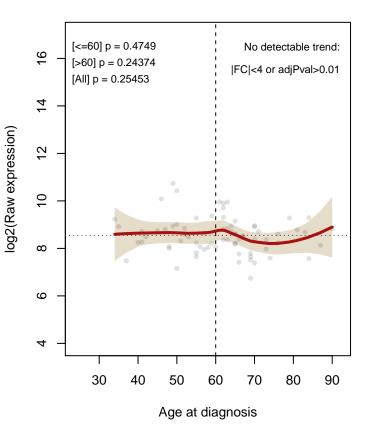
NFKBIB (non-ER binding)

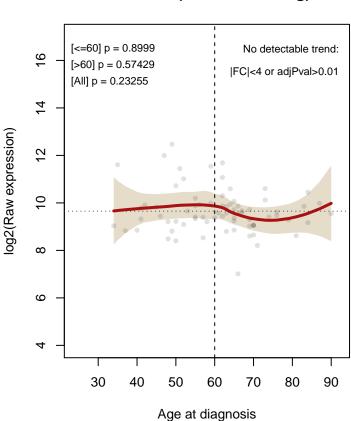




NFKBIE (non-ER binding)

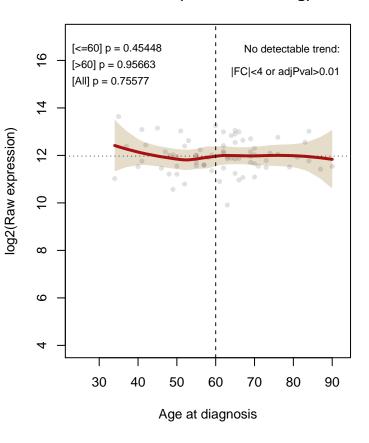
NOTCH1 (non-ER binding)

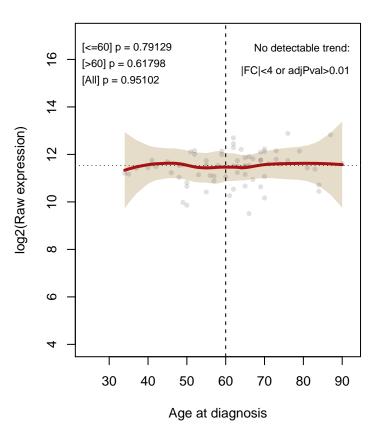




NOTCH2 (non-ER binding)

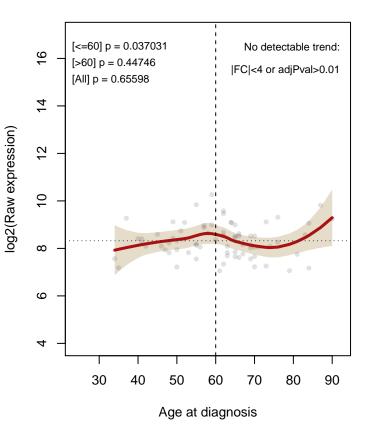
NOTCH3 (non-ER binding)

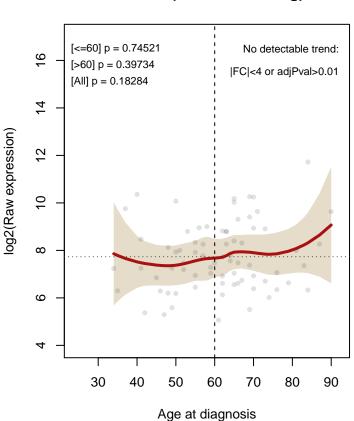


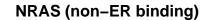


NOTCH4 (non-ER binding)

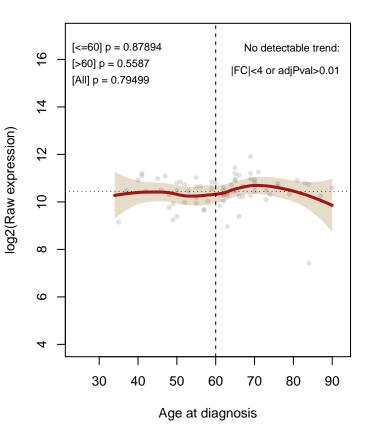
NR4A2 (non-ER binding)

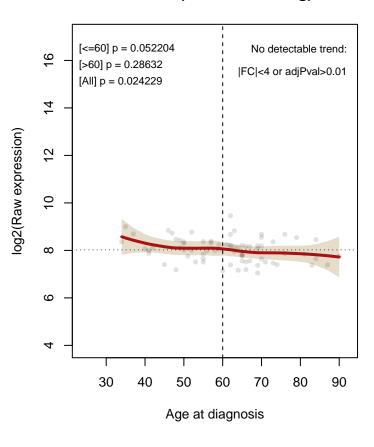






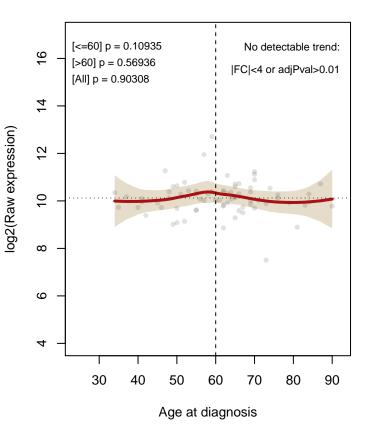
PCGF1 (non-ER binding)

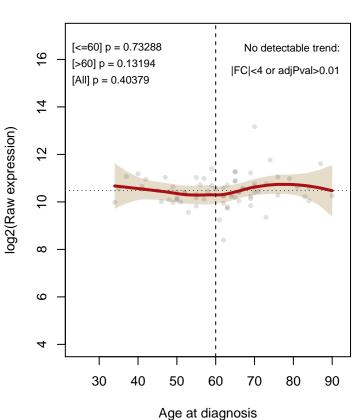


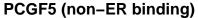


PCGF2 (non-ER binding)

PCGF3 (non-ER binding)







[<=60] p = 0.13071

[>60] p = 0.6331

[All] p = 0.76591

30

40

50

16

4

12

19

ω

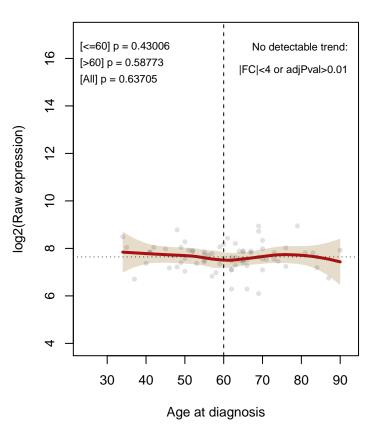
9

log2(Raw expression)

No detectable trend:

|FC|<4 or adjPval>0.01

PCGF6 (non-ER binding)



PDGFRA (non-ER binding)

Age at diagnosis

60

70

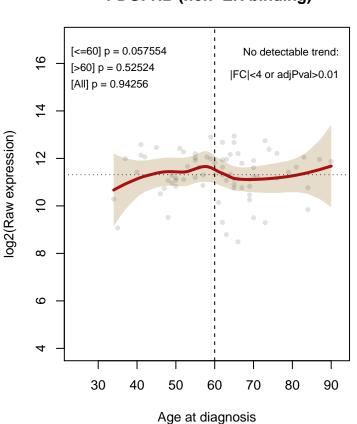
80

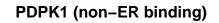
90

[<=60] p = 0.55535No detectable trend: 16 [>60] p = 0.34872 |FC|<4 or adjPval>0.01 [All] p = 0.0274614 log2(Raw expression) 12 19 ω 9 30 40 50 60 70 80 90

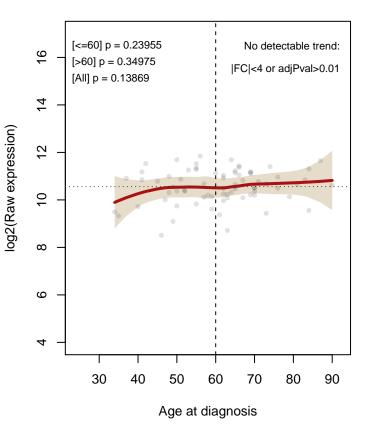
Age at diagnosis

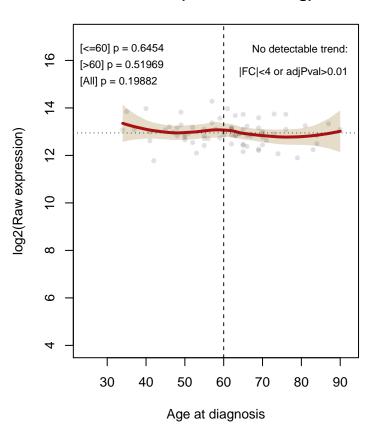
PDGFRB (non-ER binding)





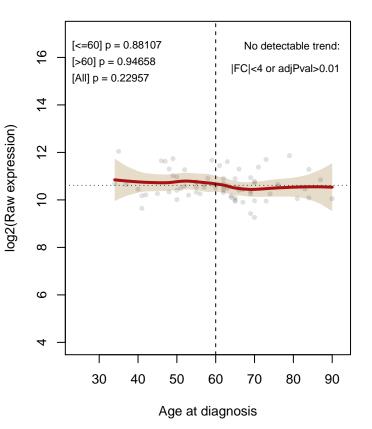
PEBP1 (non-ER binding)

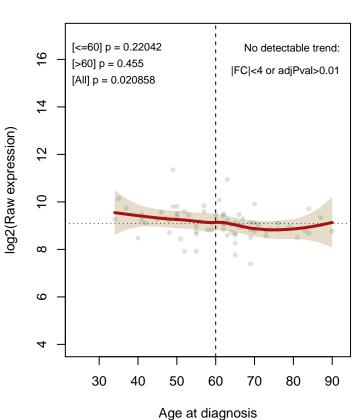


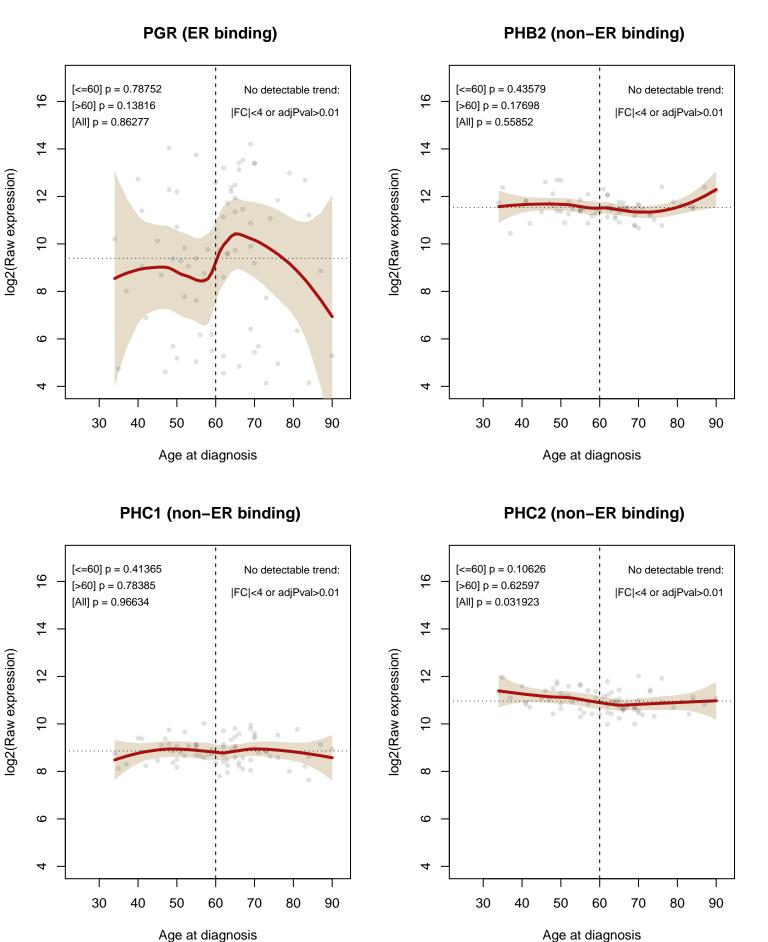


PELP1 (non-ER binding)

PGP (non-ER binding)

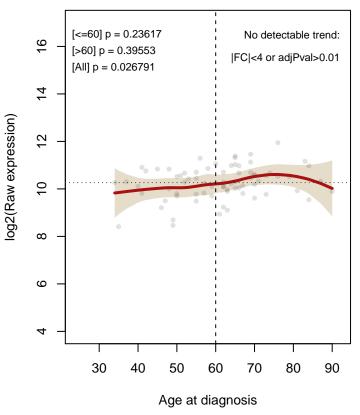


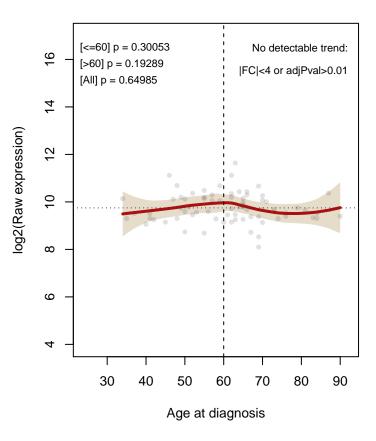






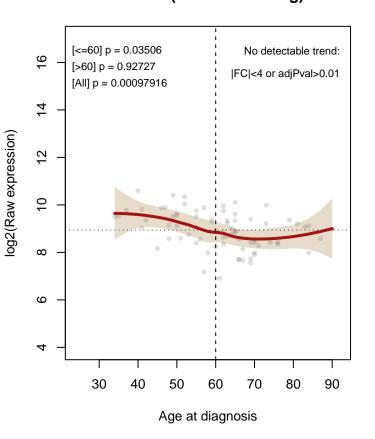
PHF1 (non-ER binding)

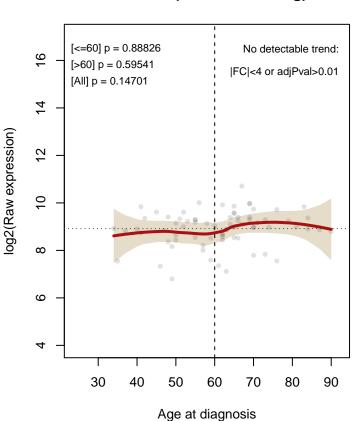




PHF19 (non-ER binding)

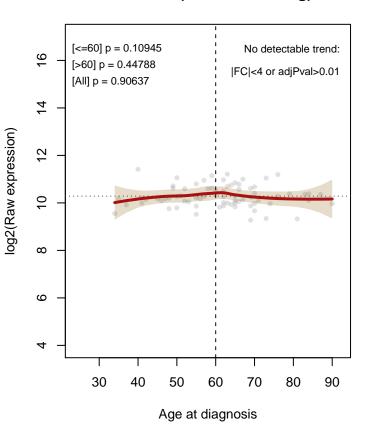
PIK3CA (non-ER binding)

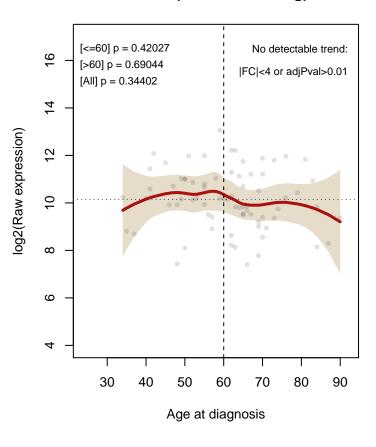




PIP5K1C (non-ER binding)

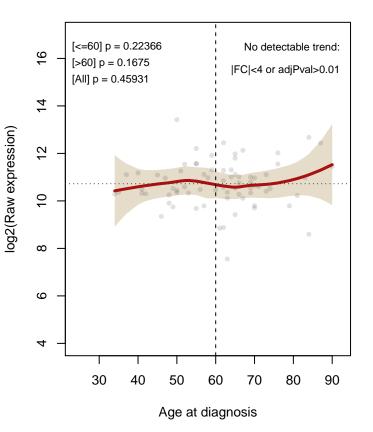
PLAU (non-ER binding)

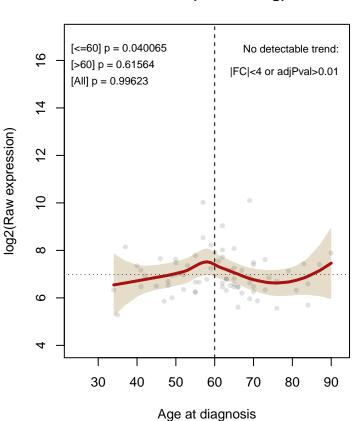


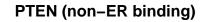


PODXL (non-ER binding)

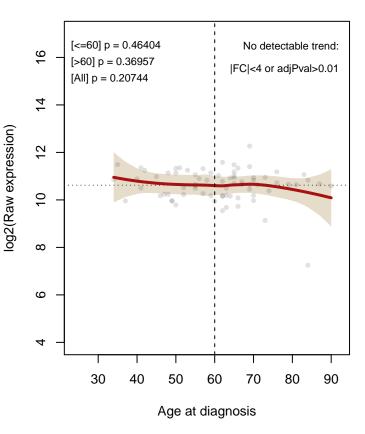
PPARG (ER binding)

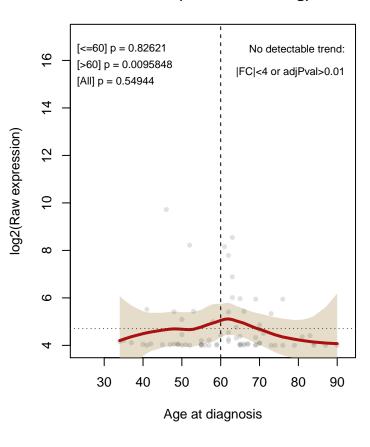






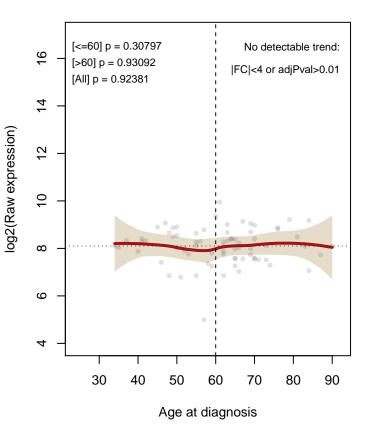
PYDC1 (non-ER binding)

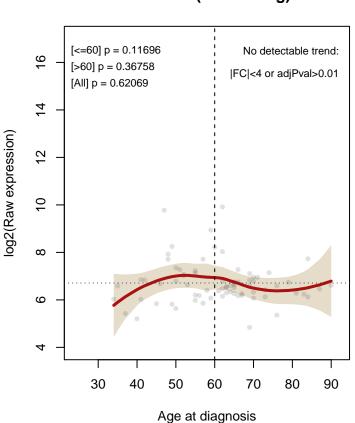




RAD51 (non-ER binding)

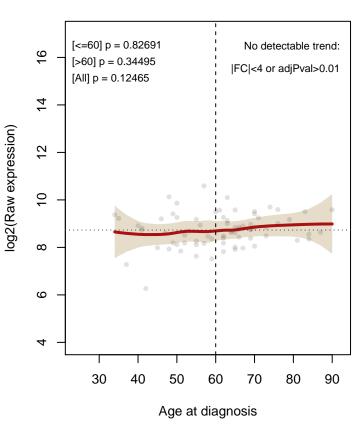
RAD51B (ER binding)

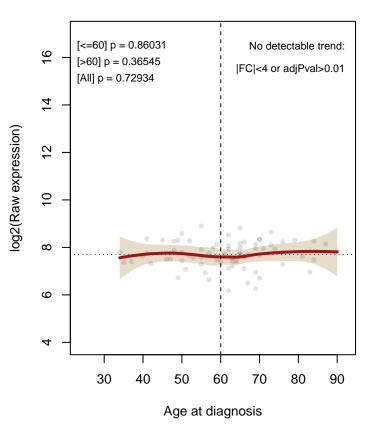




RAD51C (non-ER binding)

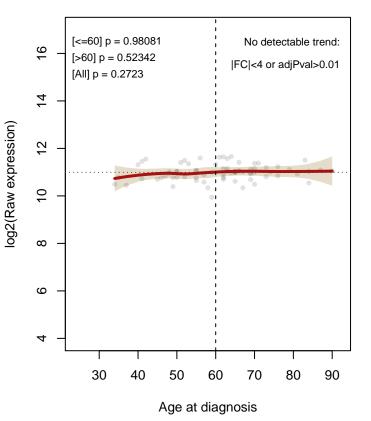
RAD51D (non-ER binding)

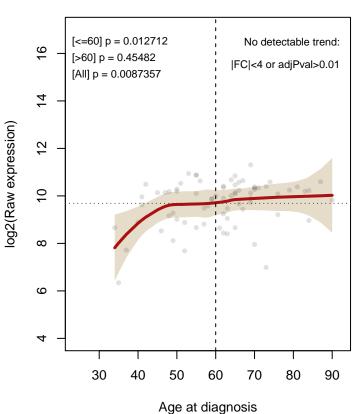


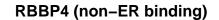


RAF1 (non-ER binding)

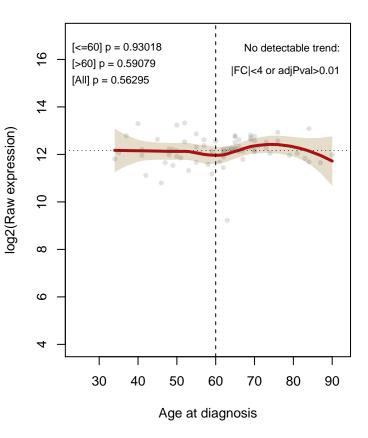
RB1 (non-ER binding)

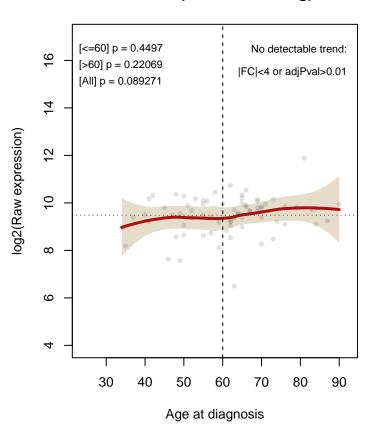






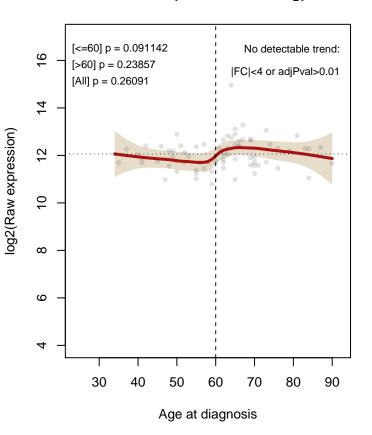
RBBP5 (non-ER binding)

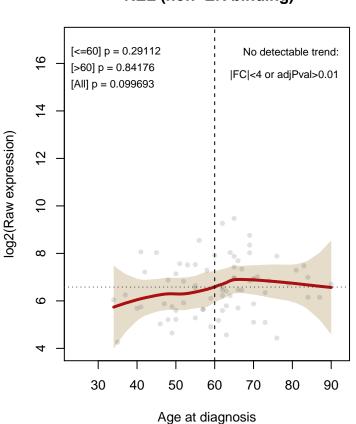


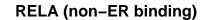


RBBP7 (non-ER binding)

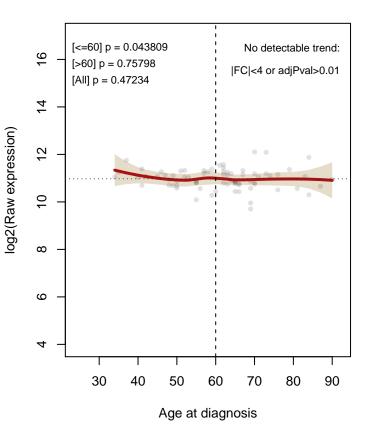
REL (non-ER binding)

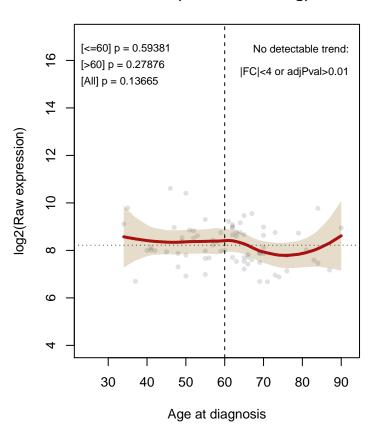






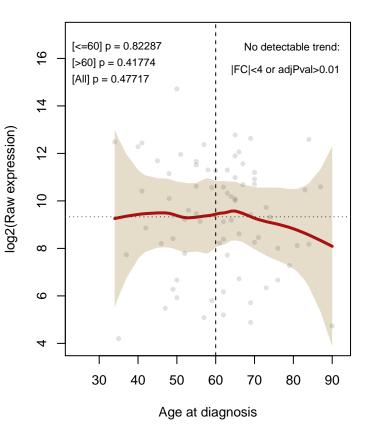
RELB (non-ER binding)

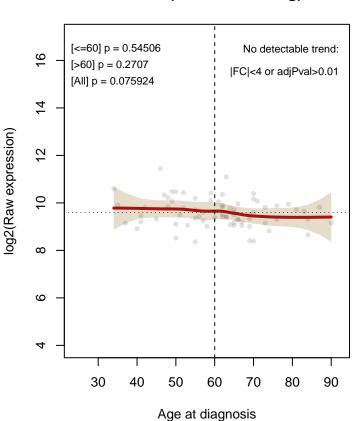




RET (ER binding)

RING1 (non-ER binding)





RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.42008No detectable trend: [<=60] p = 0.91441No detectable trend: 16 16 [>60] p = 0.54956 [>60] p = 0.67537 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.79808[All] p = 0.957114 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 60 70 80 90 30 40 50 60 70 80 90 Age at diagnosis Age at diagnosis **RUNX3 (non-ER binding)** RYBP (non-ER binding) [<=60] p = 0.18928No detectable trend: [<=60] p = 0.0093796 No detectable trend: 16 16 [>60] p = 0.37036 [>60] p = 0.13021 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.030723[AII] p = 0.00018264 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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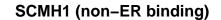
60

Age at diagnosis

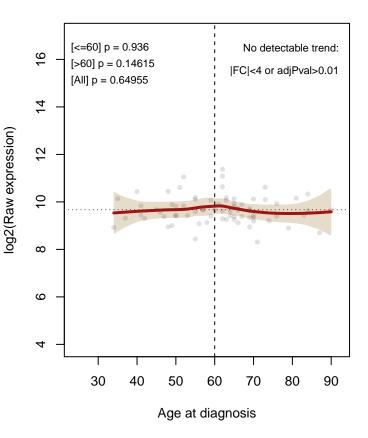
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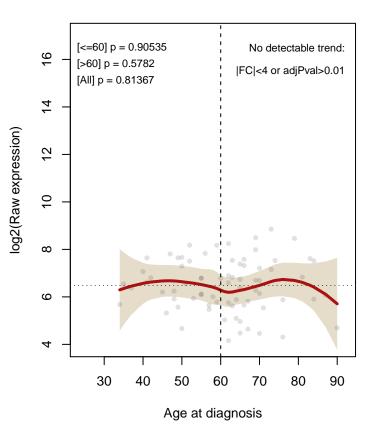
80

90



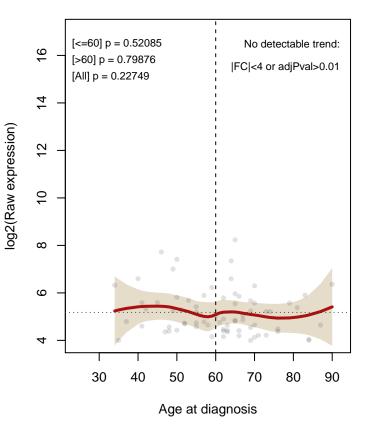
SCML2 (non-ER binding)

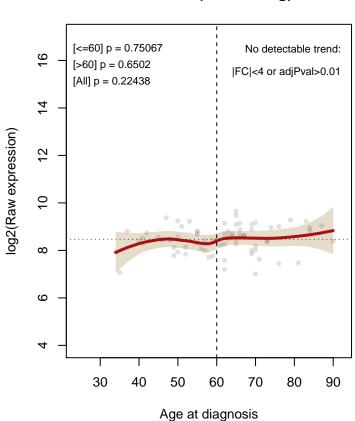




SCML4 (non-ER binding)

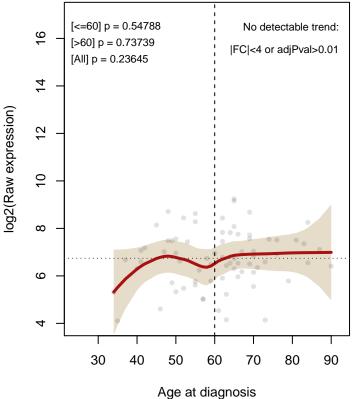
SFMBT1 (ER binding)

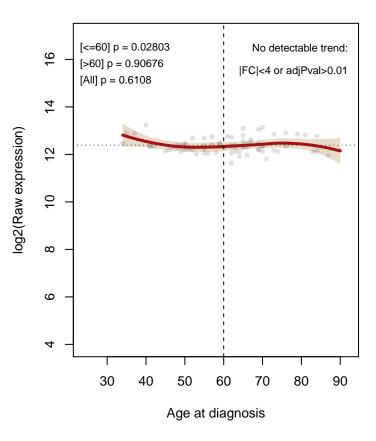




SFMBT2 (ER binding)

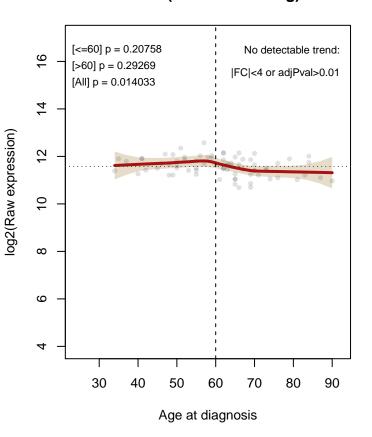
SFPQ (non-ER binding)

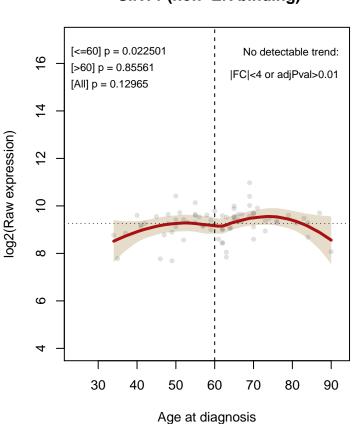




SHC1 (non-ER binding)

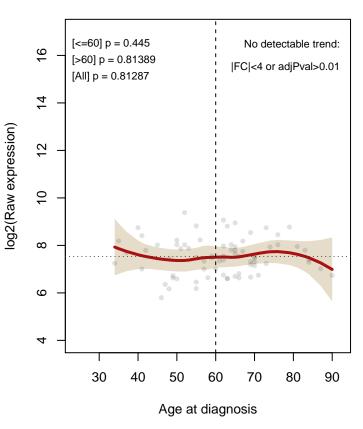
SIRT1 (non-ER binding)

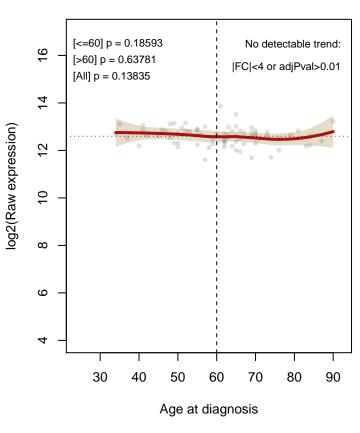




SKP2 (non-ER binding)

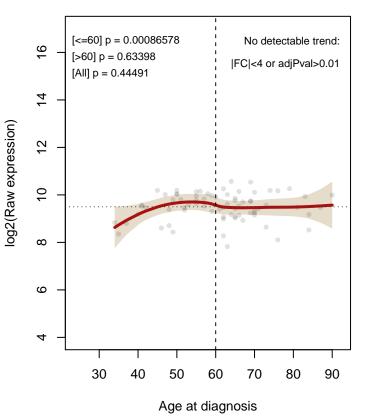
SLC25A3 (non-ER binding)

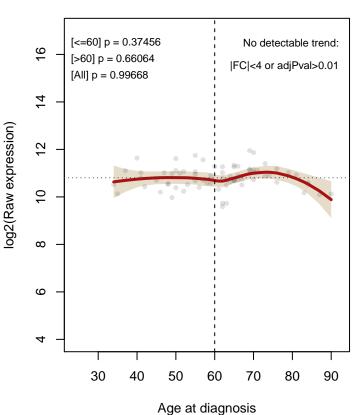




SMAD1 (non-ER binding)

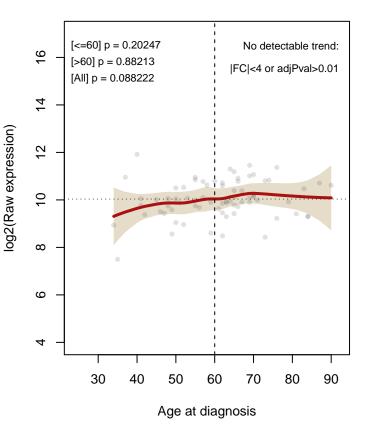
SMAD2 (non-ER binding)

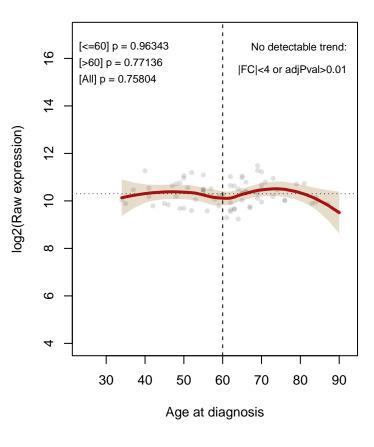






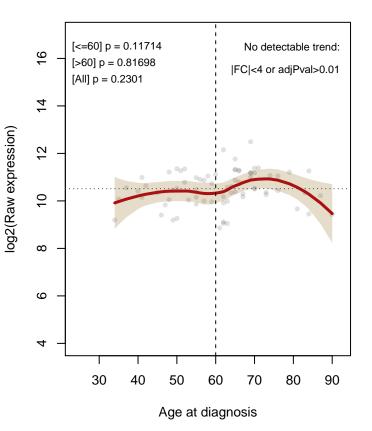
SMAD4 (non-ER binding)

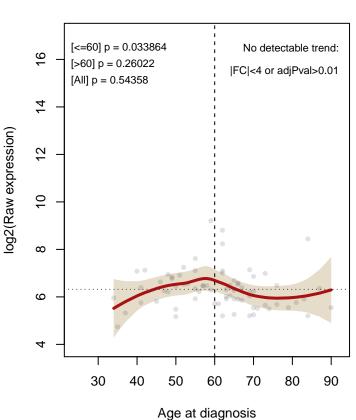




SMAD5 (non-ER binding)

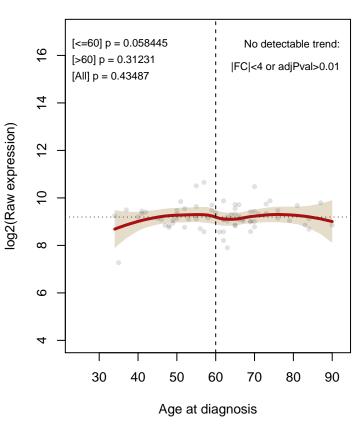
SMAD6 (non-ER binding)

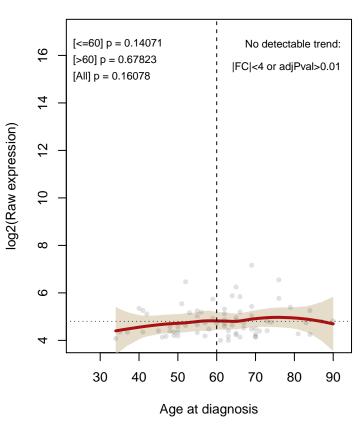




SMAD7 (non-ER binding)

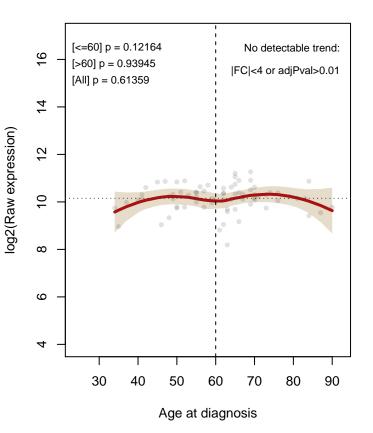
SMAD9 (non-ER binding)

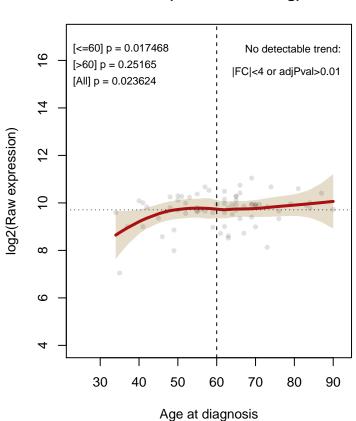


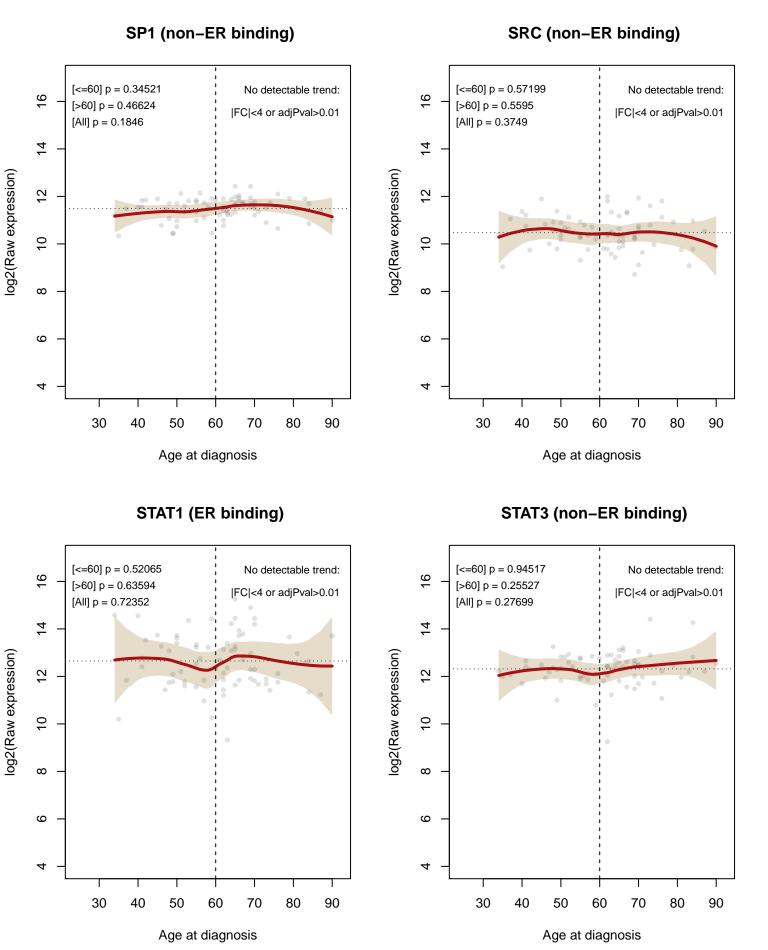


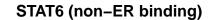
SOS1 (non-ER binding)

SOS2 (non-ER binding)

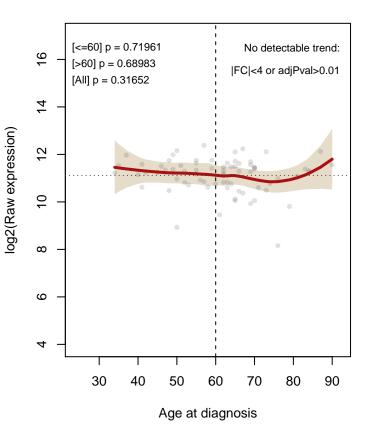


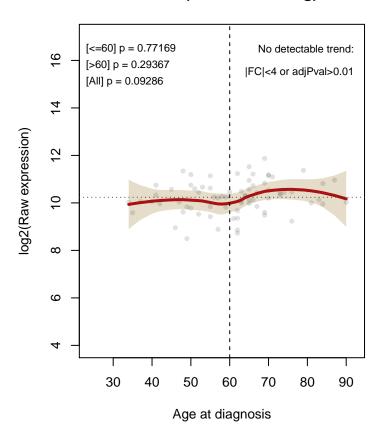






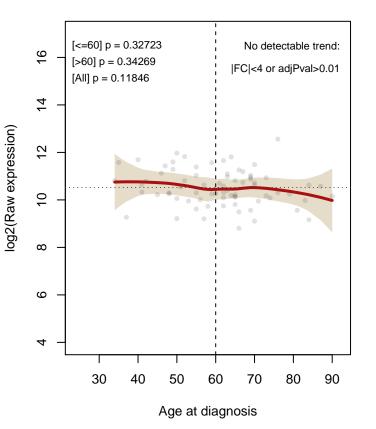
SUZ12 (non-ER binding)

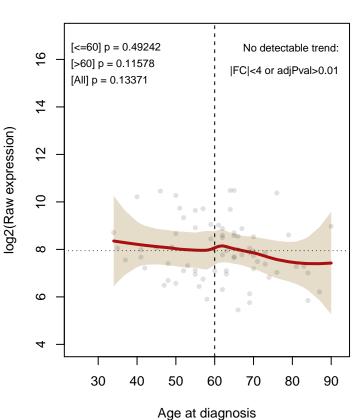




TCF3 (non-ER binding)

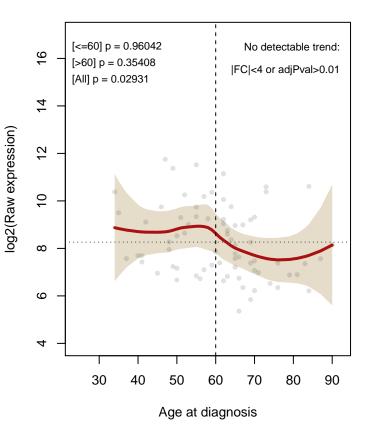
TCF7 (non-ER binding)

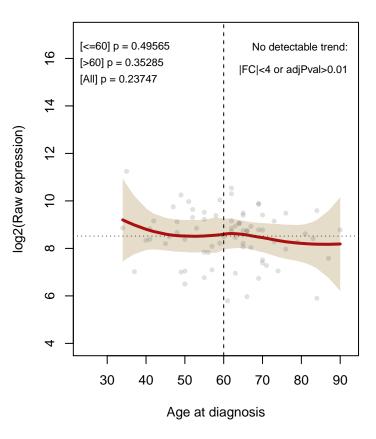






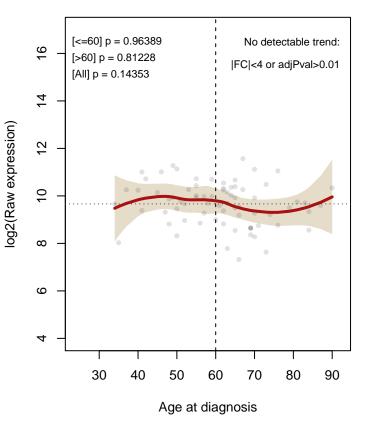
ding) TCF7L2 (non–ER binding)

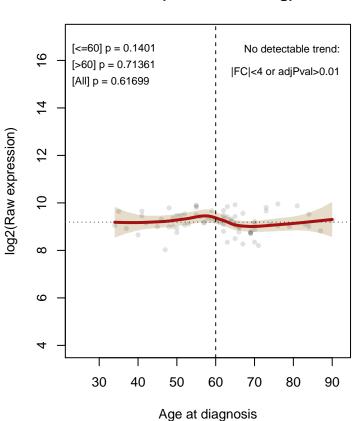


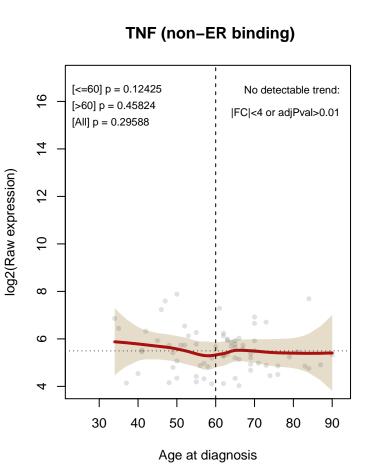


TGFB1 (non-ER binding)

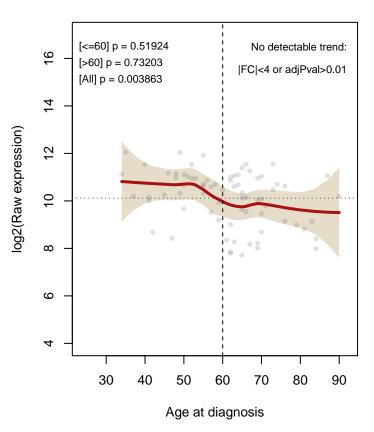
TK2 (non-ER binding)



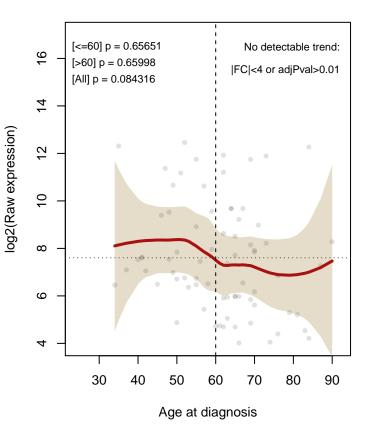




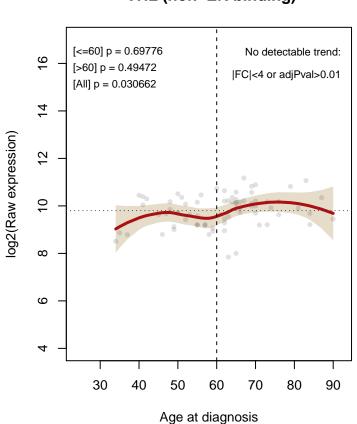
TP53 (non-ER binding)



TRIM29 (non-ER binding)

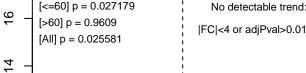


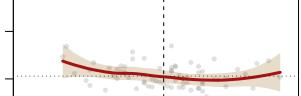
VHL (non-ER binding)



WDR5 (non-ER binding)

No detectable trend:





19 ω

log2(Raw expression)

12



50

30

40

Age at diagnosis

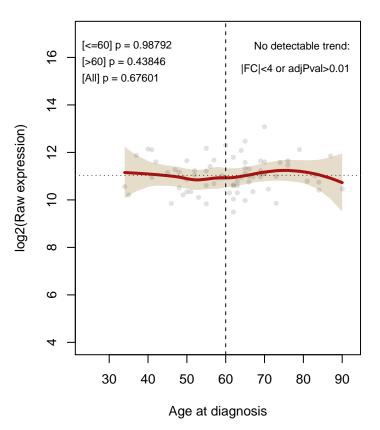
60

70

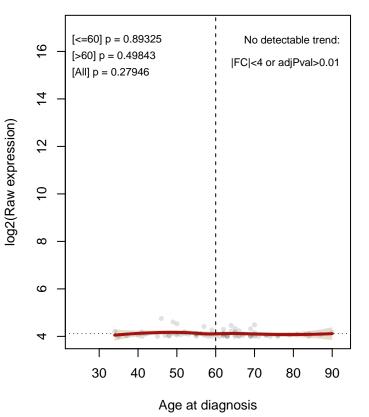
80

90

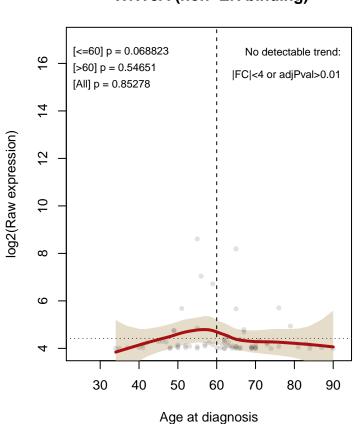
WHSC1 (non-ER binding)

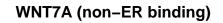


WNT1 (non-ER binding)

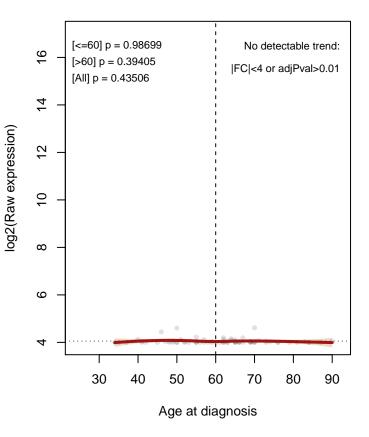


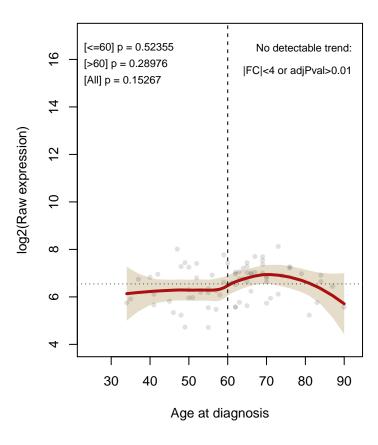
WNT3A (non-ER binding)





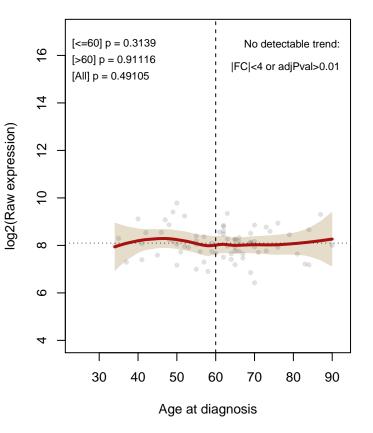
XRCC2 (non-ER binding)

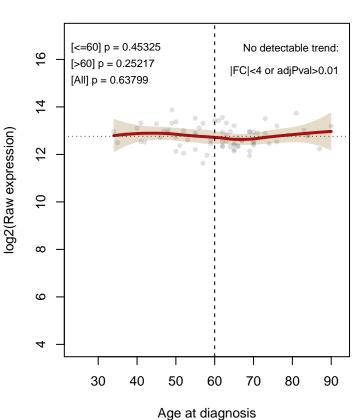




XRCC3 (non-ER binding)

XRCC6 (non-ER binding)

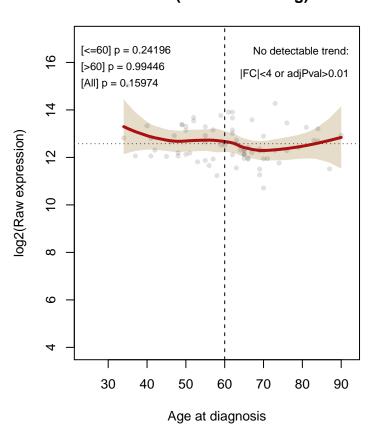




YAF2 (non-ER binding)

[<=60] p = 0.87198No detectable trend: 16 [>60] p = 0.40464 |FC|<4 or adjPval>0.01 [All] p = 0.921334 log2(Raw expression) 12 10 ω 9 4 30 40 50 60 70 80 90

YBX1 (non-ER binding)



YY1 (non-ER binding)

Age at diagnosis

