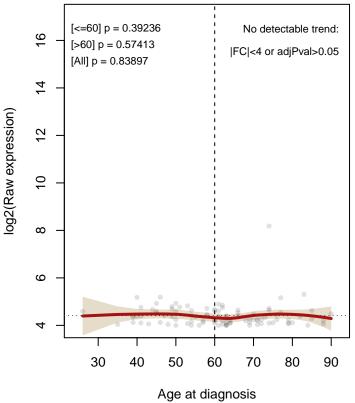
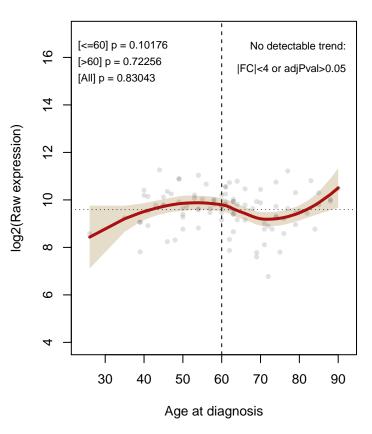


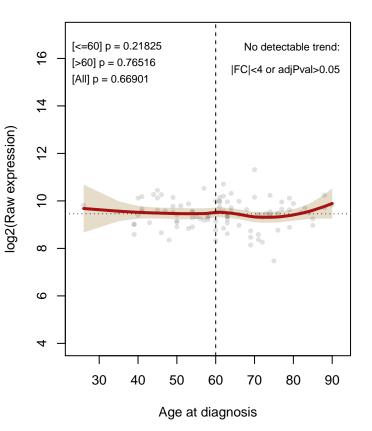
#### ATM (non-ER binding)

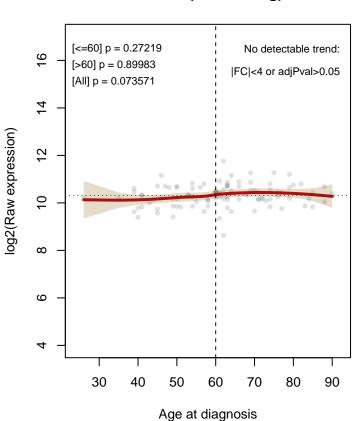




ATR (non-ER binding)

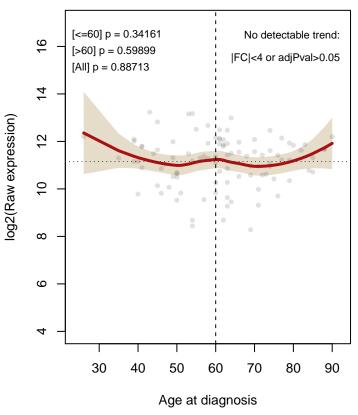
**AXIN1 (ER binding)** 

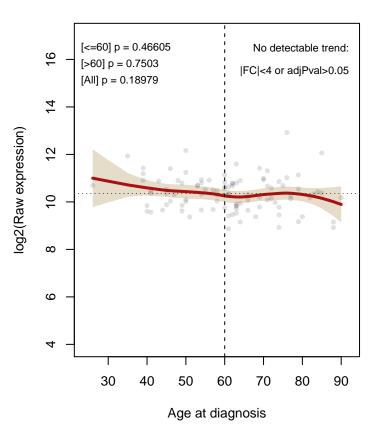






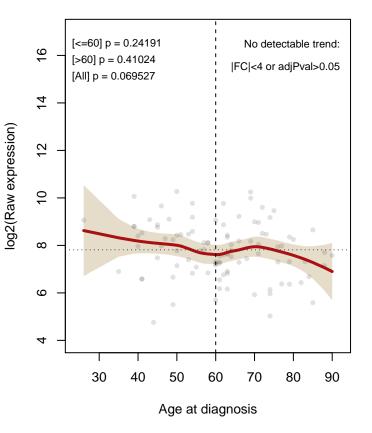
#### **BCL3 (non-ER binding)**

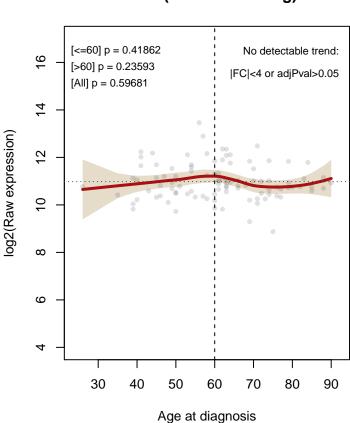




**BIRC5** (non-ER binding)

**BMI1 (non-ER binding)** 





#### BMX (non-ER binding) **BRCA1** (non-ER binding) [<=60] p = 0.18821No detectable trend: [<=60] p = 0.54307No detectable trend: 16 16 [>60] p = 0.14052 [>60] p = 0.49657 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [AII] p = 0.047826[All] p = 0.720194 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis CA9 (non-ER binding) **CBX1** (non-ER binding) [<=60] p = 0.74092No detectable trend: [<=60] p = 0.85373No detectable trend: 16 16 [>60] p = 0.75273 [>60] p = 0.86678 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [AII] p = 0.90938[All] p = 0.613334 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9

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Age at diagnosis

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Age at diagnosis

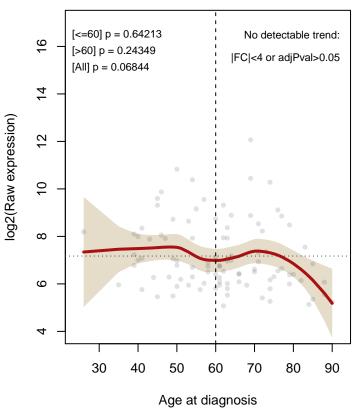
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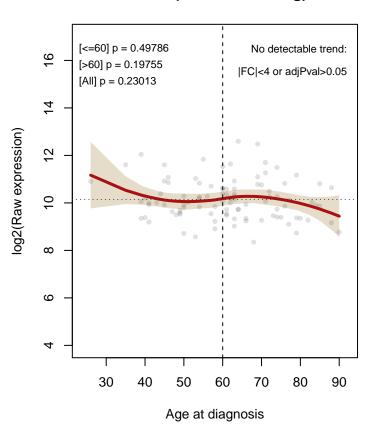
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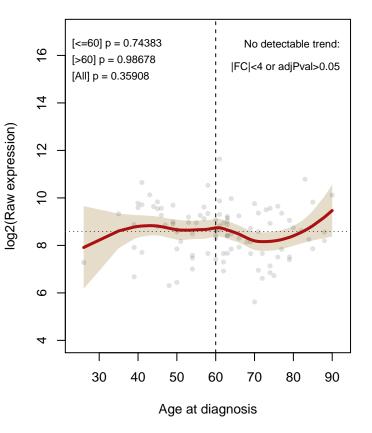
#### CBX4 (non-ER binding)

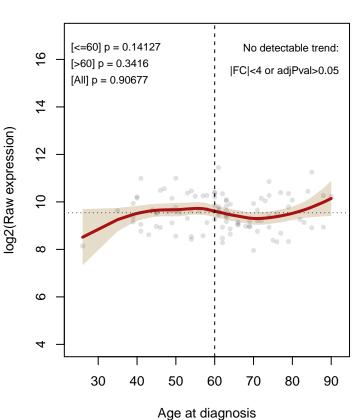




## CBX6 (non-ER binding)

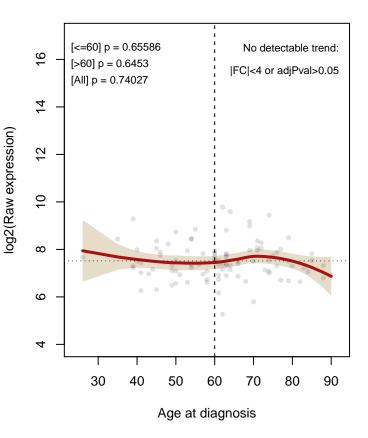
#### CBX7 (non-ER binding)

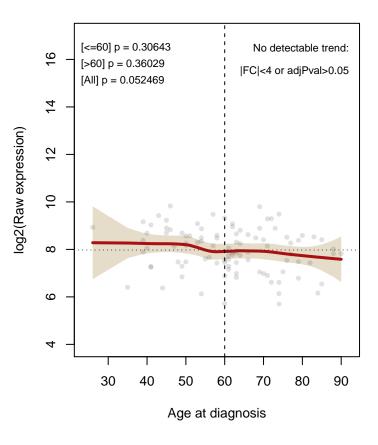






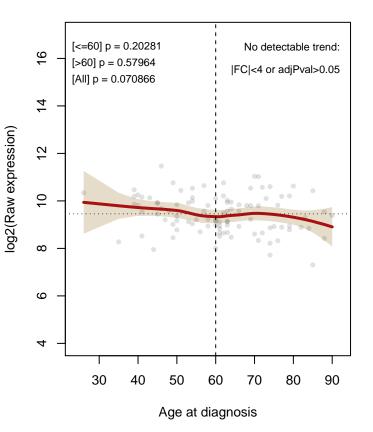
#### CCNA2 (non-ER binding)

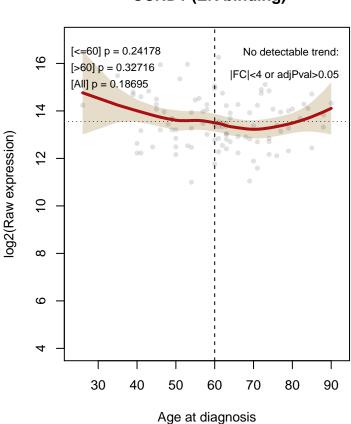




#### CCNB1 (non-ER binding)

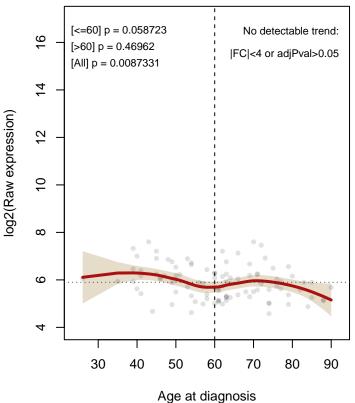
**CCND1 (ER binding)** 

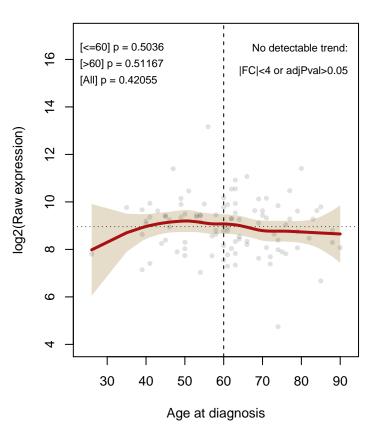






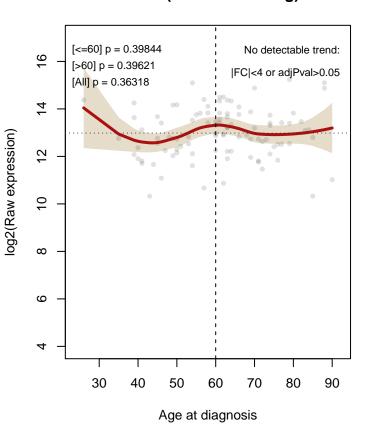
#### CD163 (non-ER binding)

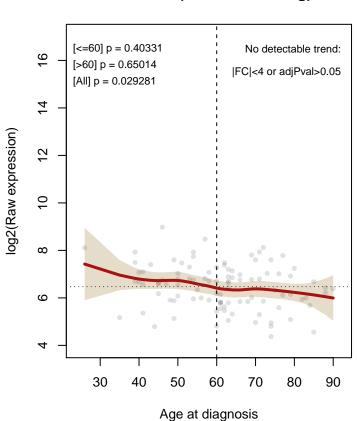


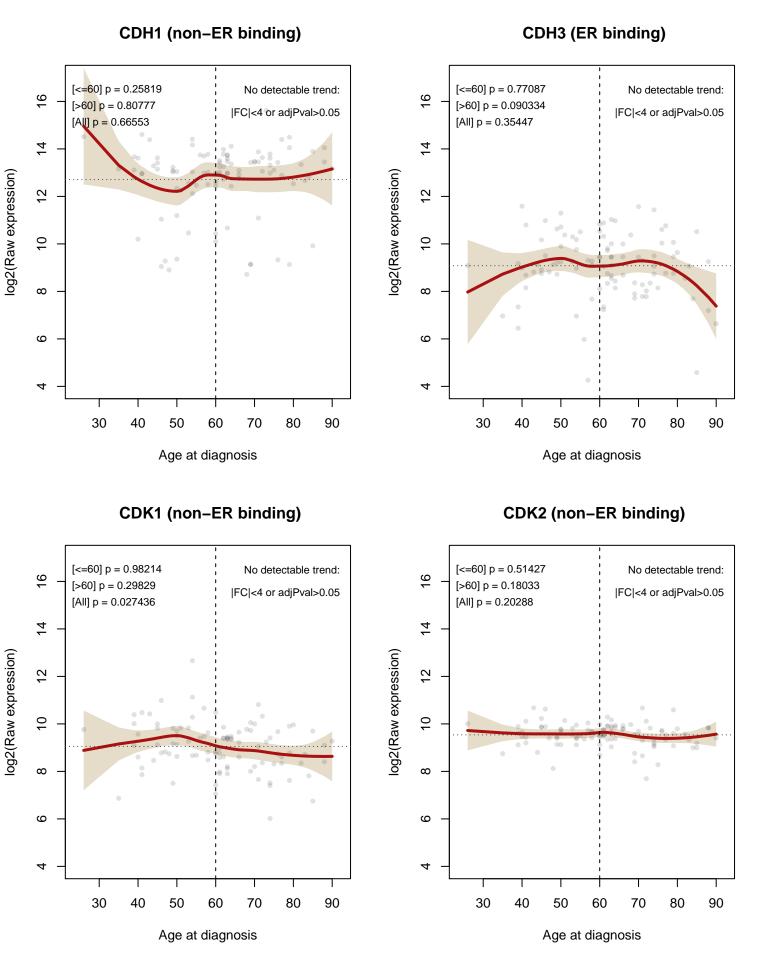


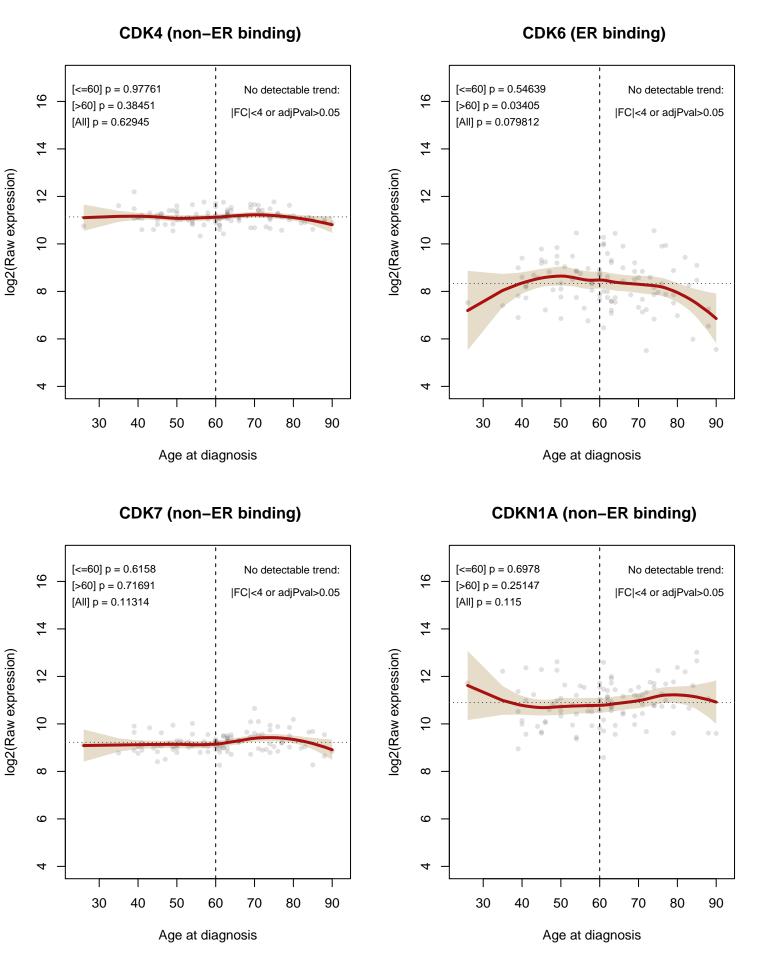
CD44 (non-ER binding)

CDC25C (non-ER binding)



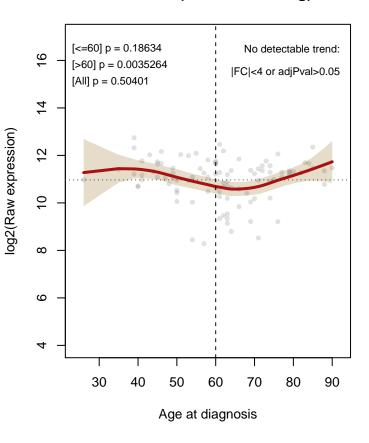


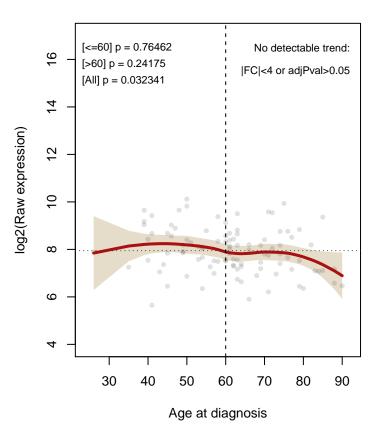




#### CDKN1B (non-ER binding)

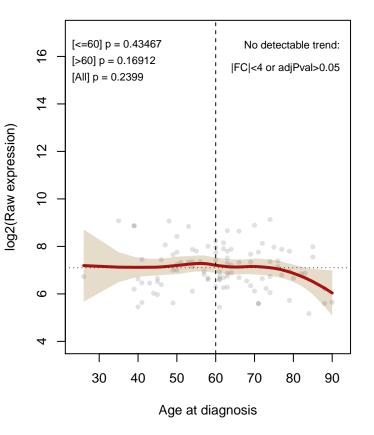
#### CDKN1C (non-ER binding)

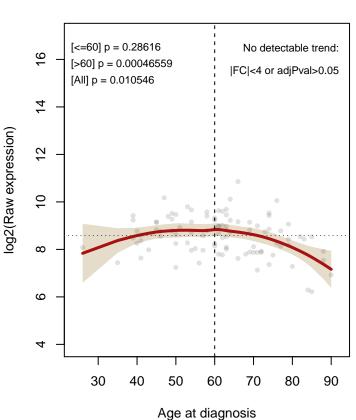




#### CDKN2A (non-ER binding)

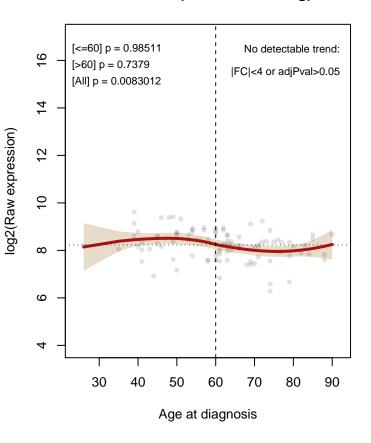
#### CDKN2B (non-ER binding)

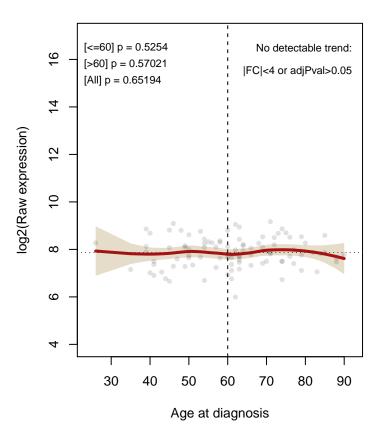




#### CDKN2C (non-ER binding)

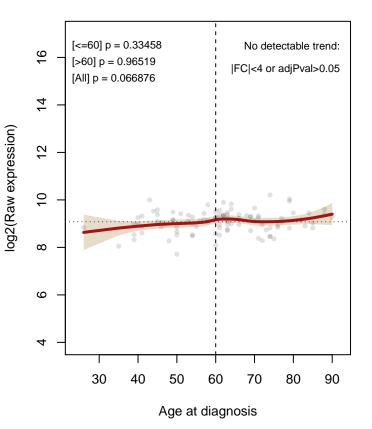
#### CDKN2D (non-ER binding)

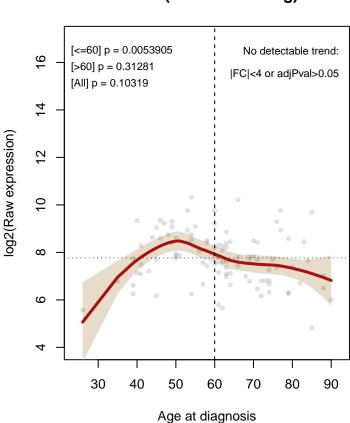




#### CHUK (non-ER binding)

CIITA (non-ER binding)

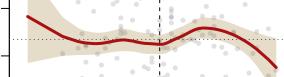




#### CLDN3 (non-ER binding)









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log2(Raw expression)

log2(Raw expression)

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# Age at diagnosis

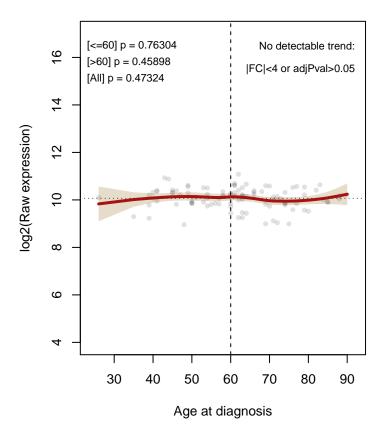
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#### CREB1 (non-ER binding)

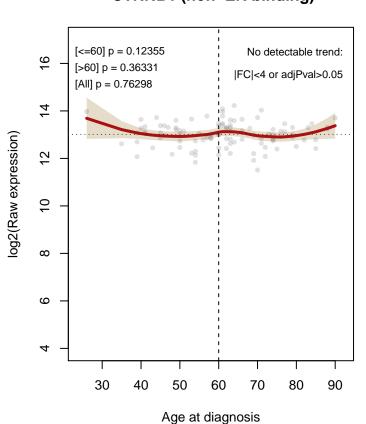


#### **CRYAB** (non-ER binding)

# [<=60] p = 0.12838No detectable trend: 16 [>60] p = 0.15664 |FC|<4 or adjPval>0.05 [All] p = 0.115344 12 19 ω 9 30 40 50 60 70 80 90

Age at diagnosis

#### CTNNB1 (non-ER binding)



#### **DLC1 (ER binding)** DMAP1 (non-ER binding) [<=60] p = 0.10342No detectable trend: [<=60] p = 0.71853No detectable trend: 16 16 [>60] p = 0.044422 [>60] p = 0.16018 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [All] p = 0.81118[AII] p = 5.3258e - 054 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 = 0.90284No detectable trend: [<=60] p = 0.012384No detectable trend: 16 16 [>60] p = 0.45963 [>60] p = 0.82821 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [All] p = 0.13869[All] p = 0.0273764 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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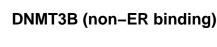
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Age at diagnosis

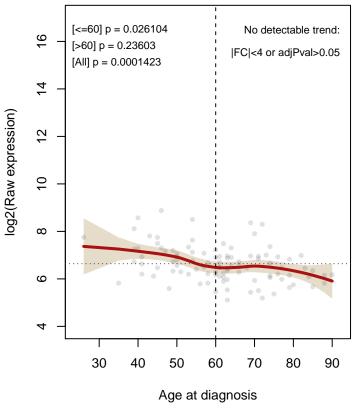
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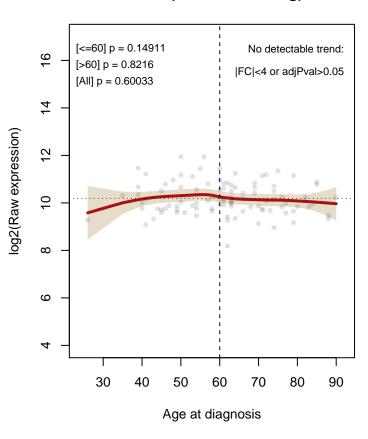
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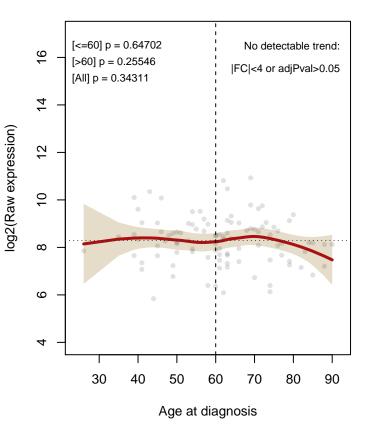
#### **DVL1 (non-ER binding)**

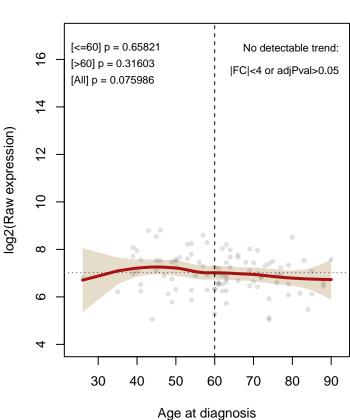


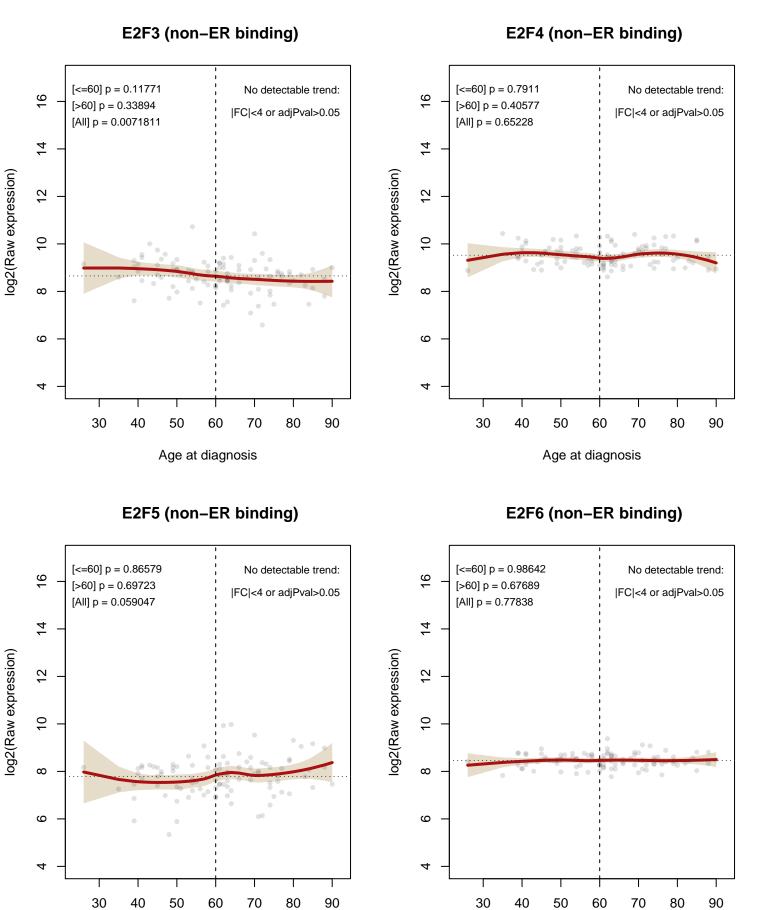


E2F1 (non-ER binding)

E2F2 (non-ER binding)

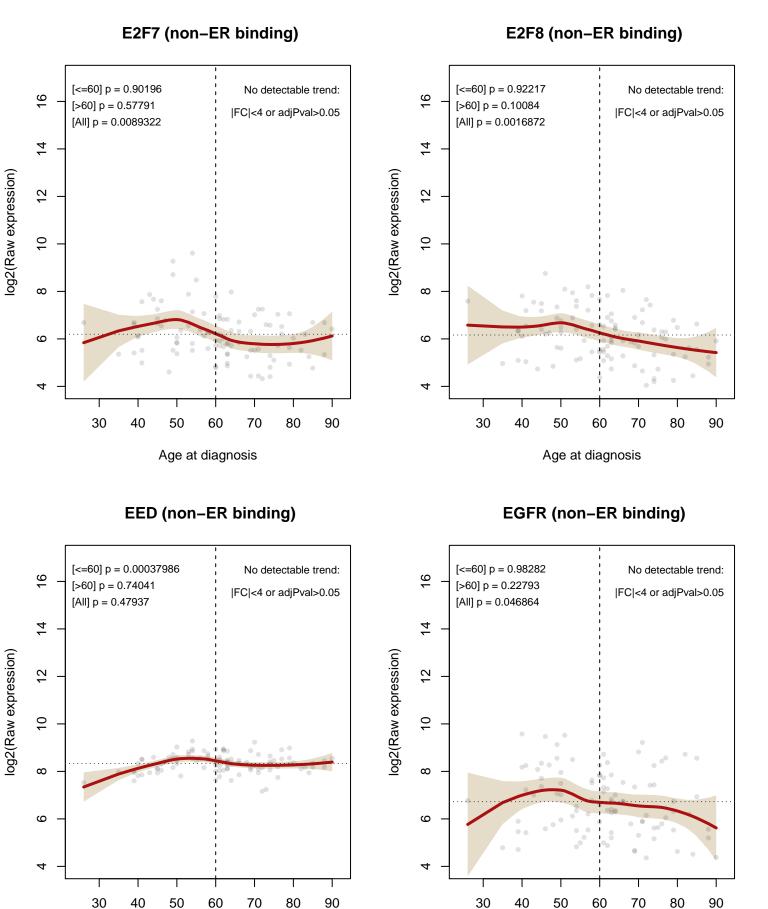






Age at diagnosis

Age at diagnosis

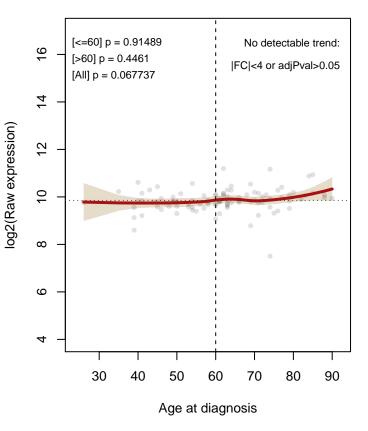


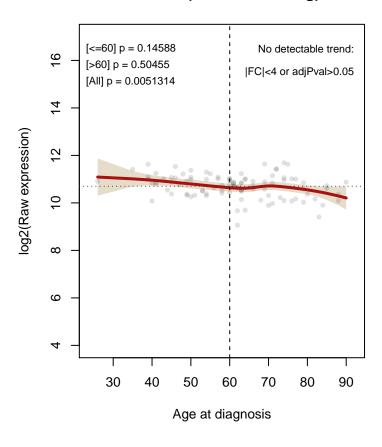
Age at diagnosis

Age at diagnosis



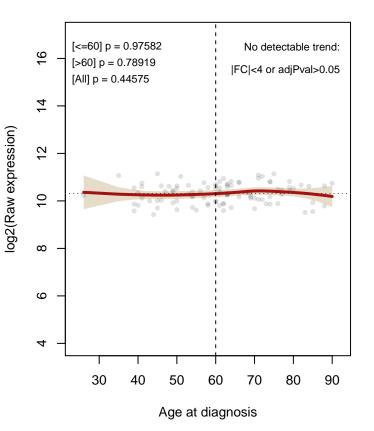
#### EHMT2 (non-ER binding)

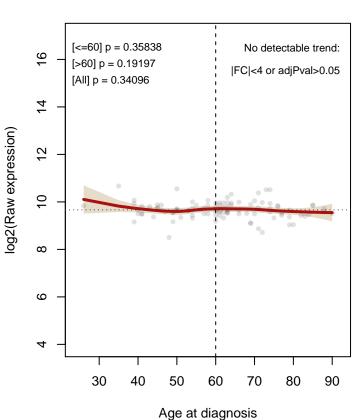




**ELAC2 (non-ER binding)** 

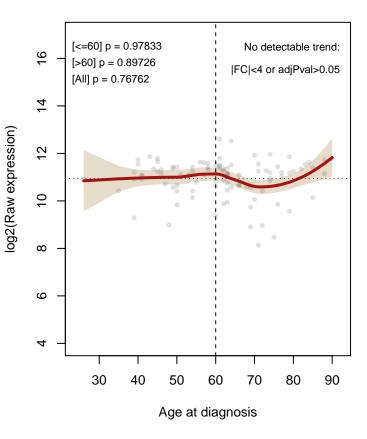
**ELK1 (non-ER binding)** 

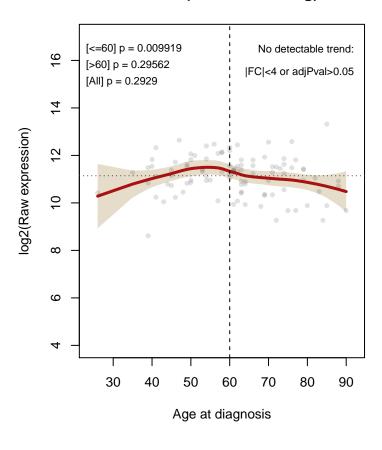






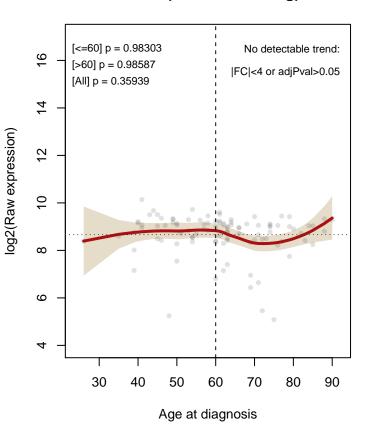
#### **EPAS1** (non-ER binding)

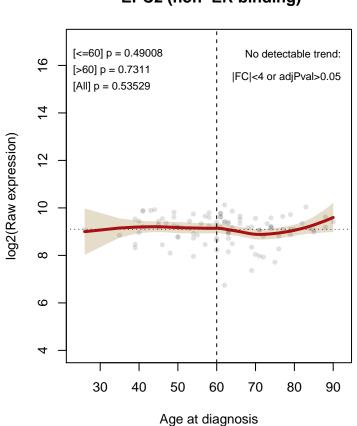


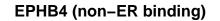


**EPC1 (non-ER binding)** 

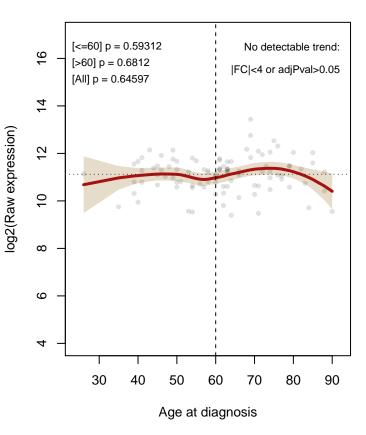
**EPC2** (non-ER binding)

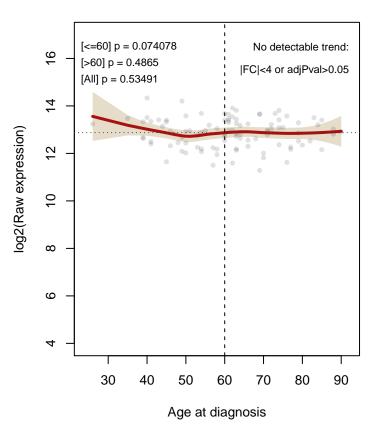






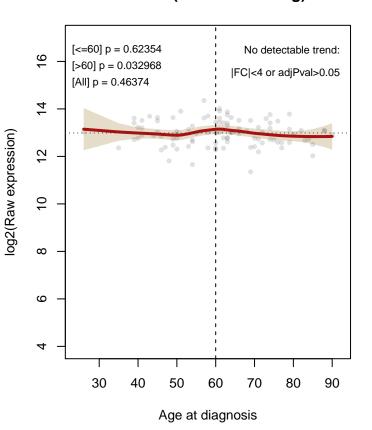
#### ERBB2 (non-ER binding)

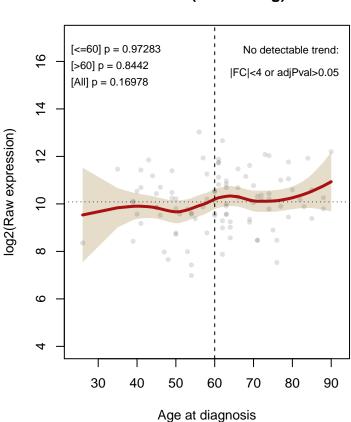


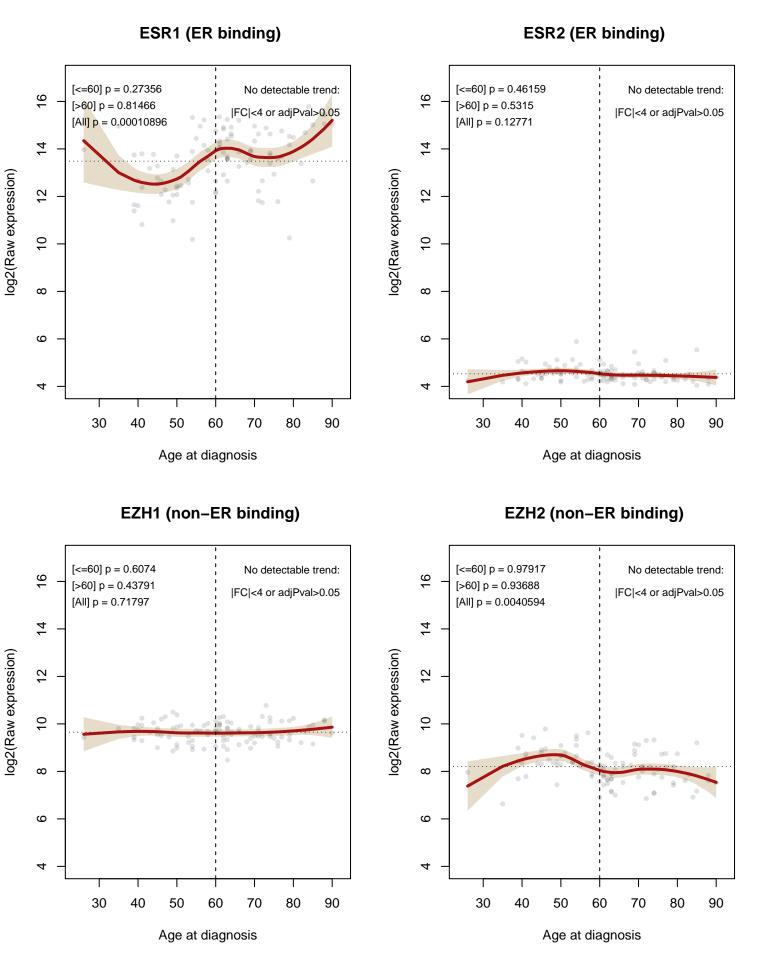


## ERBB3 (non-ER binding)

**ERBB4 (ER binding)** 

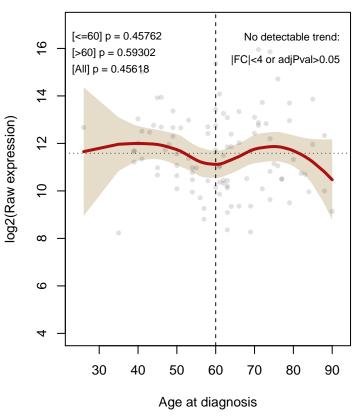


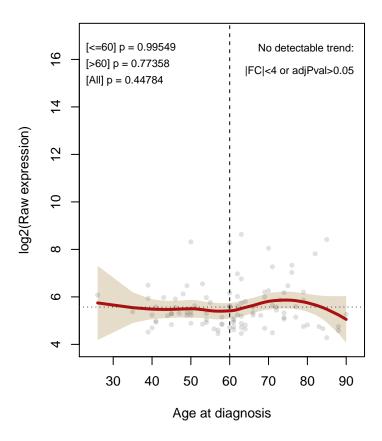






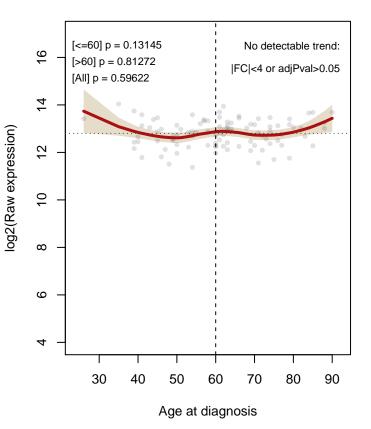
#### FOSL1 (non-ER binding)

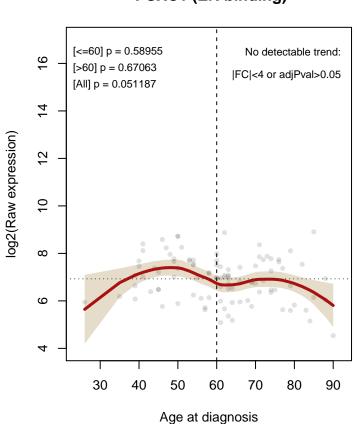


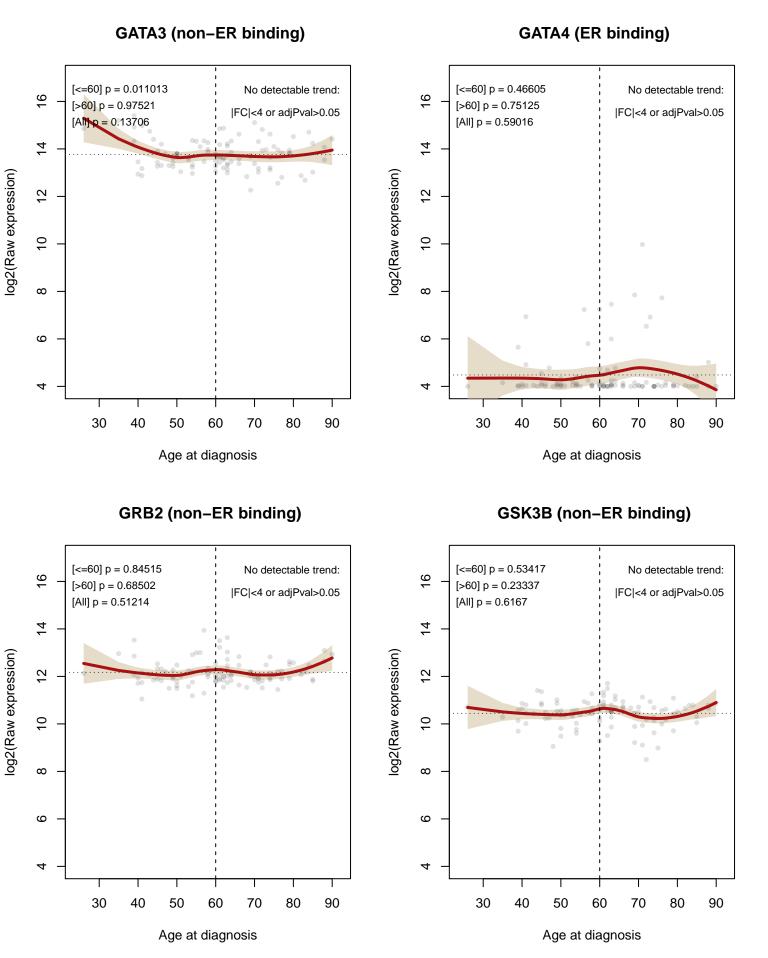


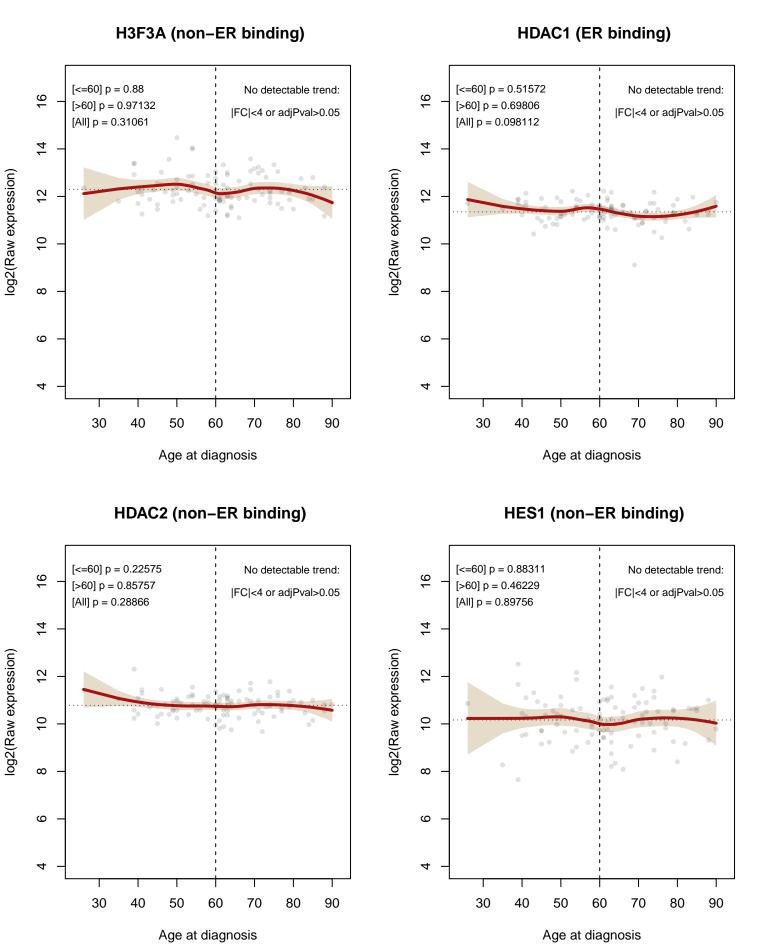
FOXA1 (ER binding)

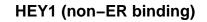
FOXC1 (ER binding)



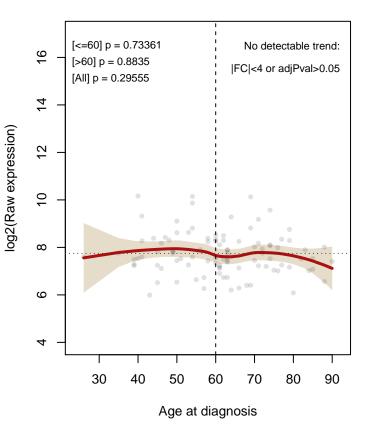


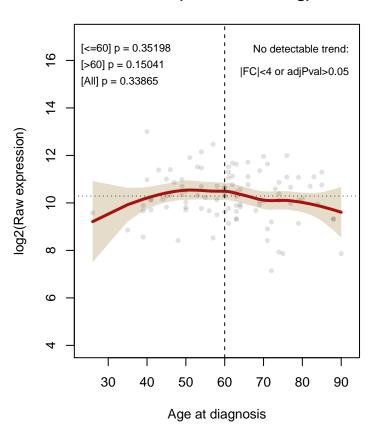






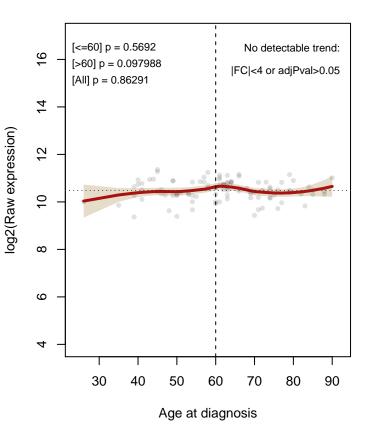
#### HIF1A (non-ER binding)

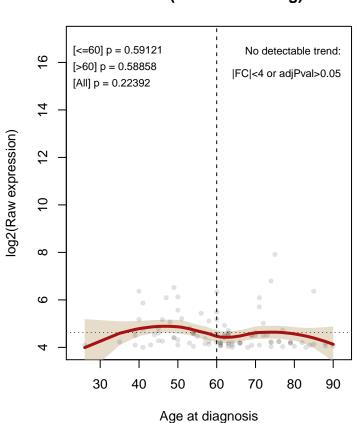




### HIF1AN (non-ER binding)

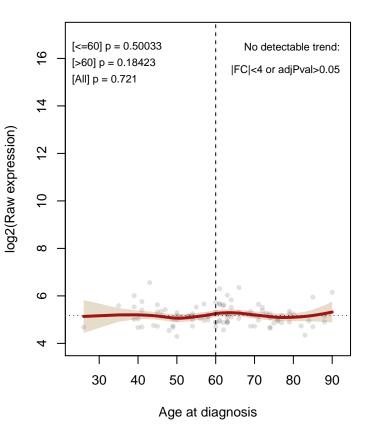
HIF3A (non-ER binding)

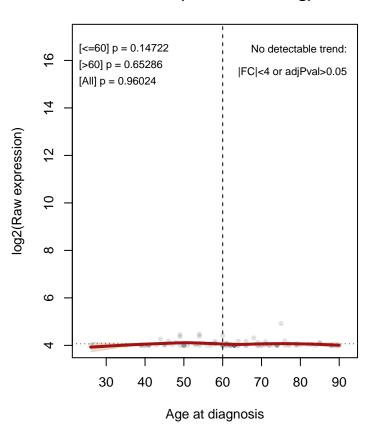






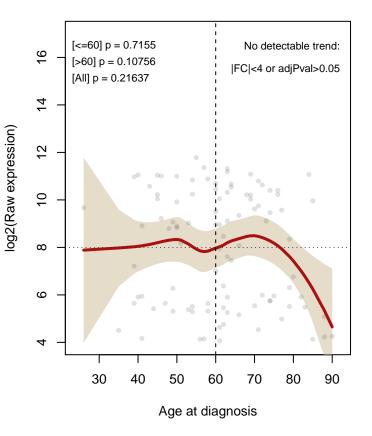
#### HNF1B (non-ER binding)

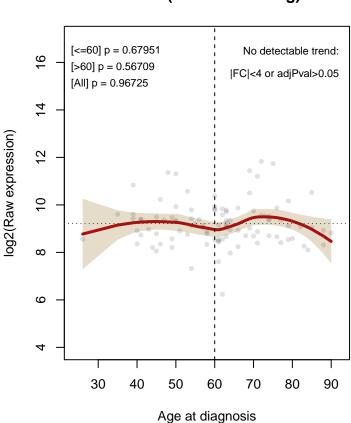




#### **HOXC10 (non-ER binding)**

#### HRAS (non-ER binding)





#### **HSPB1** (non-ER binding) IGF1R (ER binding) [<=60] p = 0.18721 No detectable trend: [<=60] p = 0.10765No detectable trend: 16 16 [>60] p = 0.5615 [>60] p = 0.4845 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [AII] p = 0.5507[AII] p = 0.706724 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω 9 9 30 40 50 70 80 90 30 40 50 60 70 80 90 60 Age at diagnosis Age at diagnosis IGFBP2 (non-ER binding) **IKBKB (ER binding)** [<=60] p = 0.48148No detectable trend: [<=60] p = 0.81323No detectable trend: 16 16 [>60] p = 0.98478 [>60] p = 0.76062 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [AII] p = 0.59447[All] p = 0.718084 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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Age at diagnosis

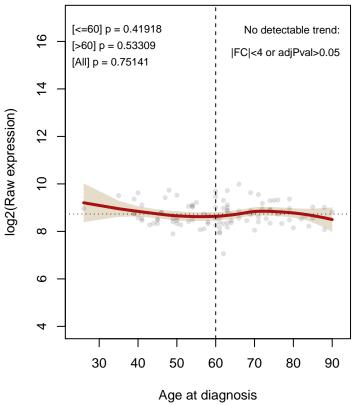
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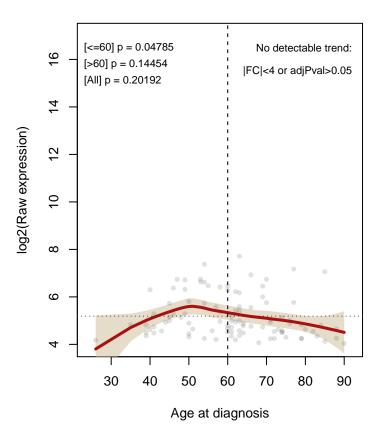
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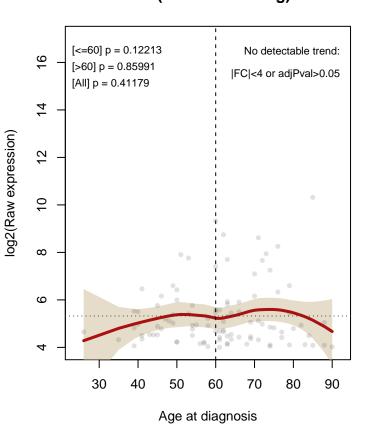
#### IL2RA (non-ER binding)

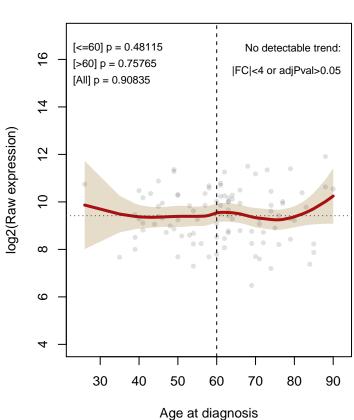


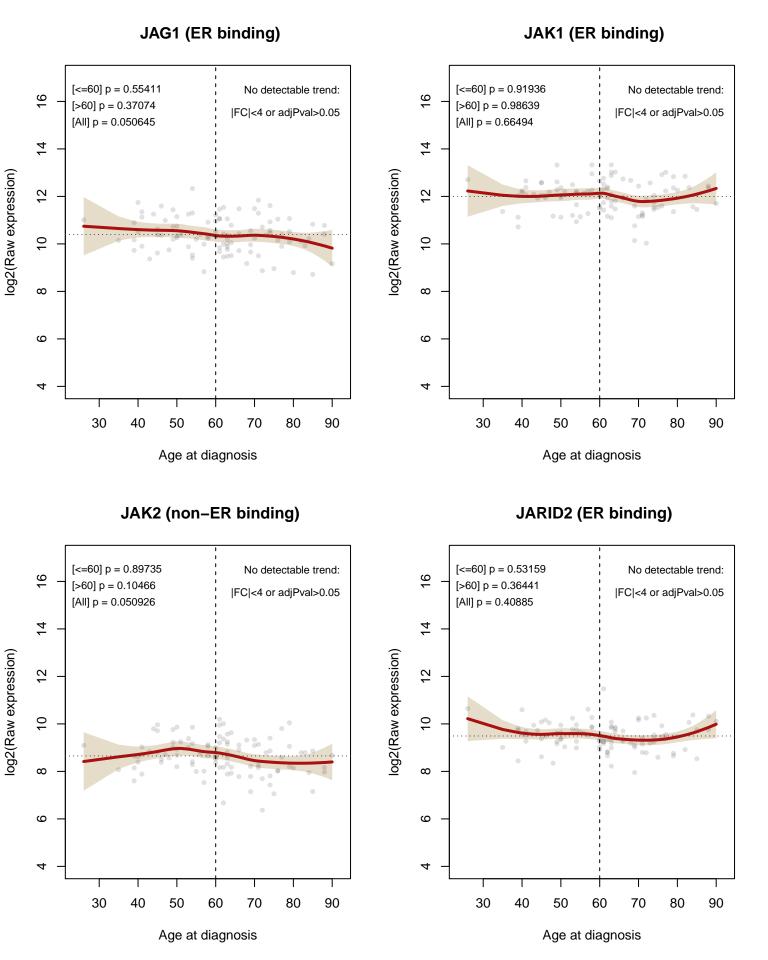


IL6 (non-ER binding)

INPP4B (non-ER binding)

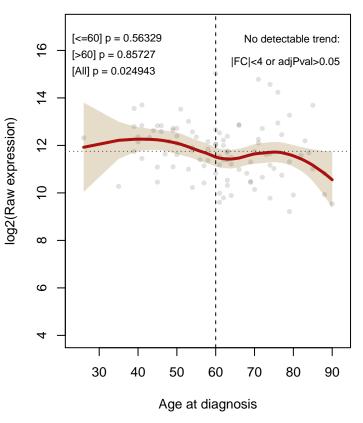


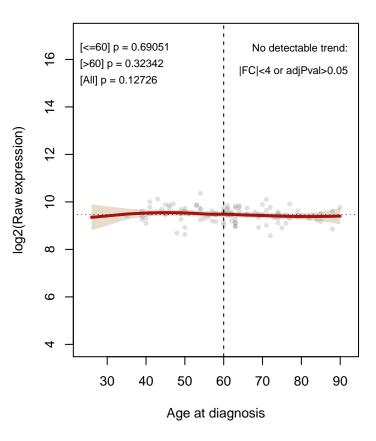






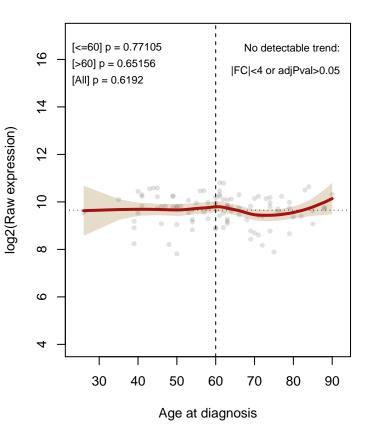
#### KDM2B (non-ER binding)

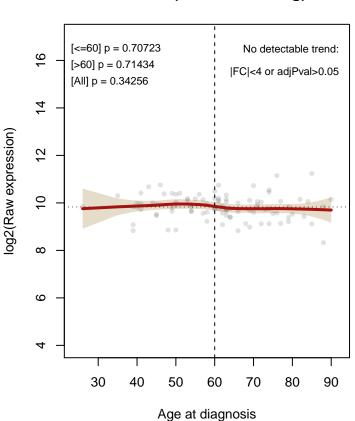


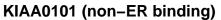


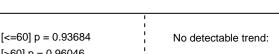
## KDM6A (non-ER binding)

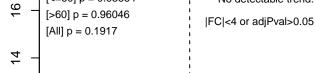
#### KDM6B (non-ER binding)







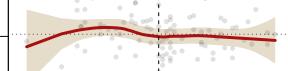






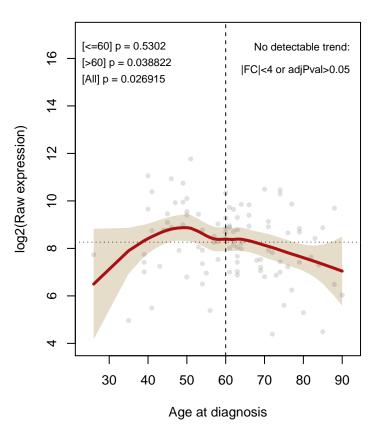
log2(Raw expression)

ω

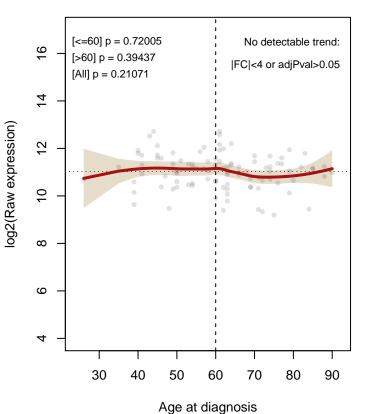


#### Age at diagnosis

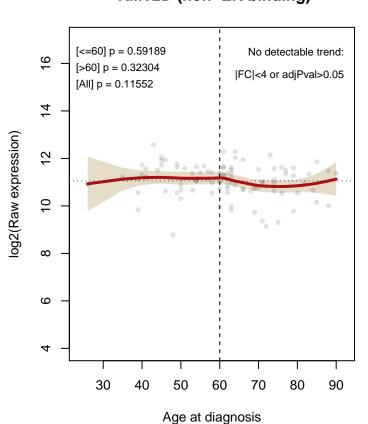
KIT (non-ER binding)

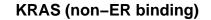


### KMT2C (non-ER binding)

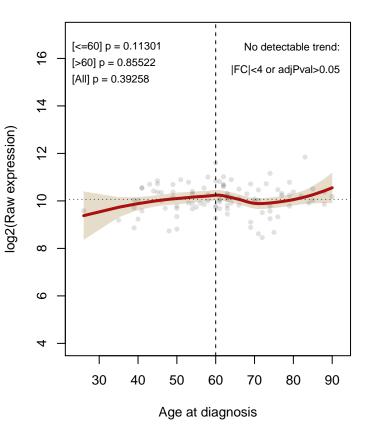


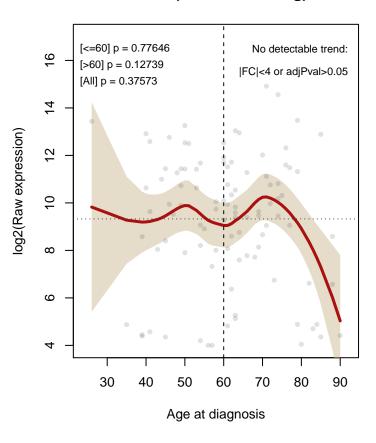
#### KMT2D (non-ER binding)





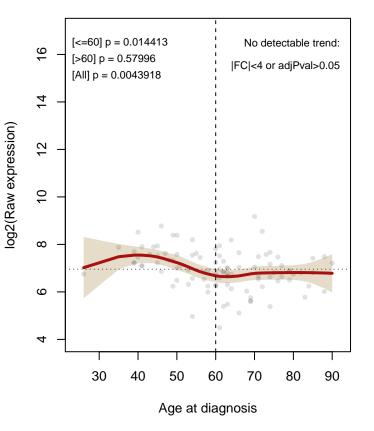
#### KRT5 (non-ER binding)

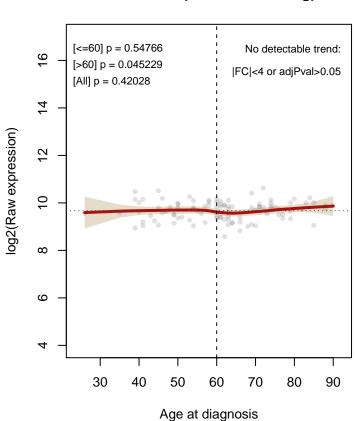




### L3MBTL1 (non-ER binding)

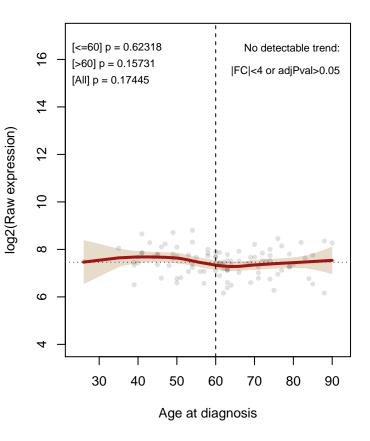
#### L3MBTL2 (non-ER binding)

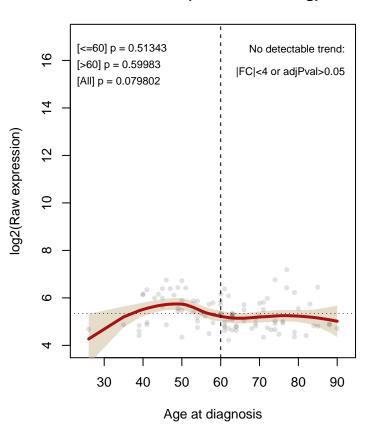




#### L3MBTL3 (ER binding)

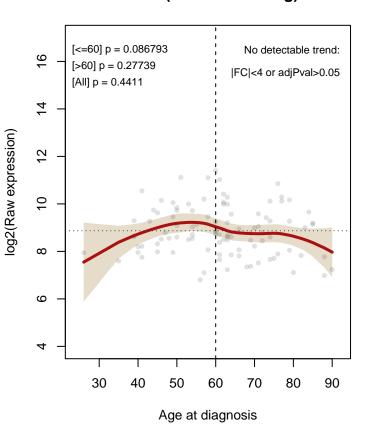
# L3MBTL4 (non-ER binding)

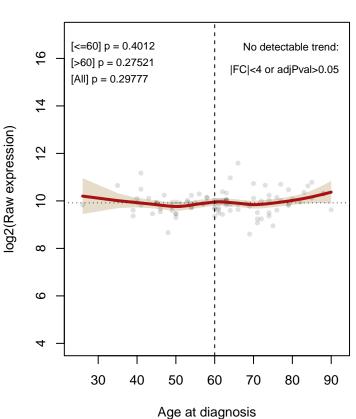




## LEF1 (non-ER binding)

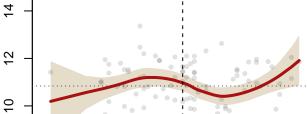
#### MAP2K1 (non-ER binding)





#### MAP3K1 (non-ER binding)



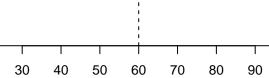


log2(Raw expression)

ω

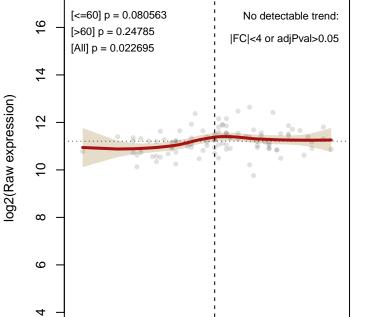
9





# MAPK3 (non-ER binding)

Age at diagnosis



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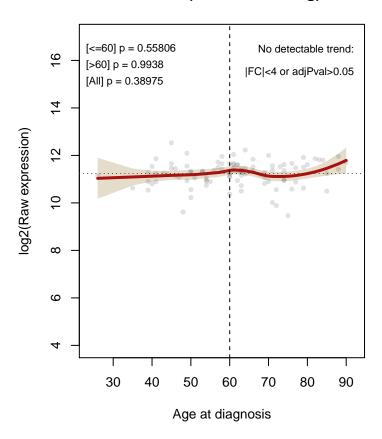
Age at diagnosis

70

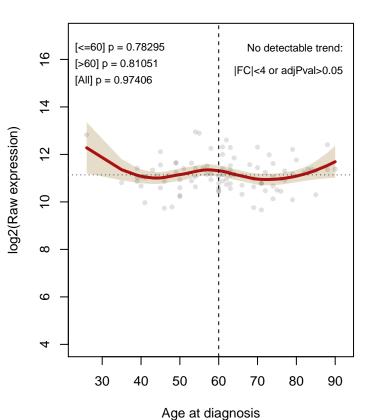
80

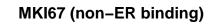
90

#### MAPK1 (non-ER binding)

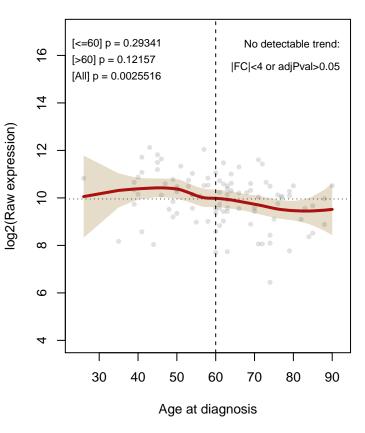


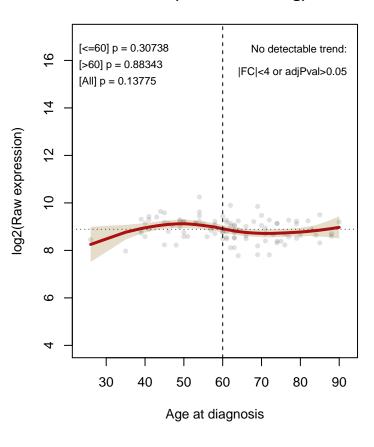
#### MDM2 (non-ER binding)





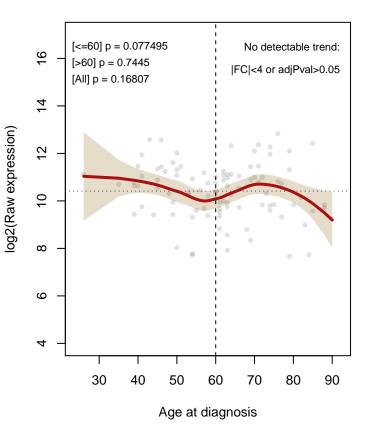
#### MTF2 (non-ER binding)

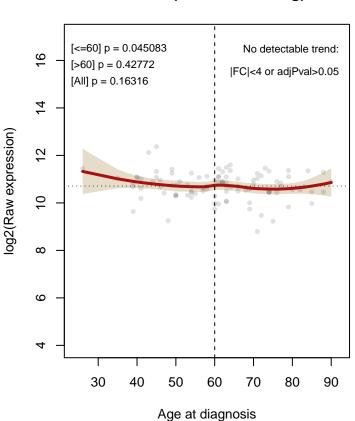




#### MYC (non-ER binding)

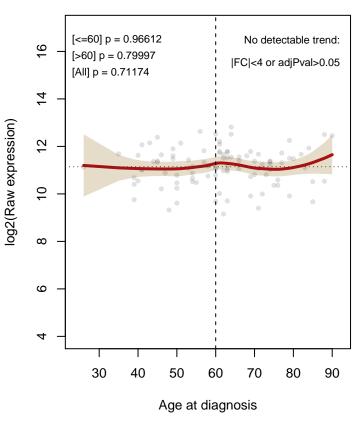
#### NCOA6 (non-ER binding)

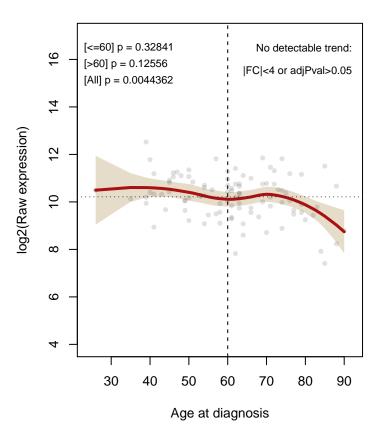






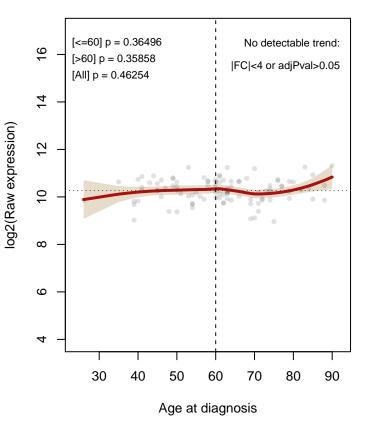
#### **NES (non-ER binding)**

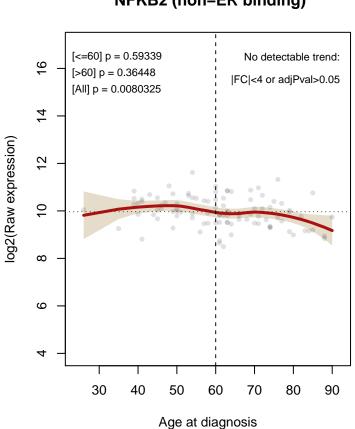




#### NFKB1 (non-ER binding)

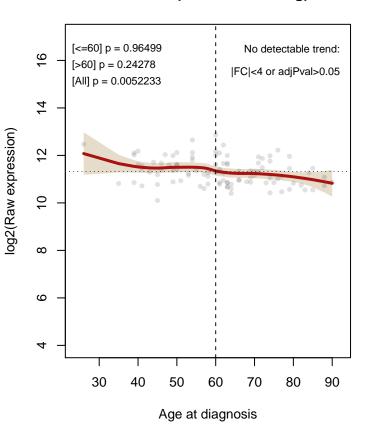
#### NFKB2 (non-ER binding)

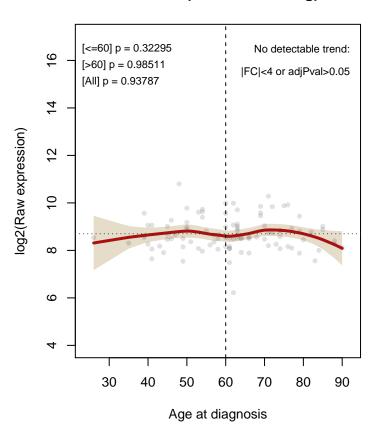




#### NFKBIA (non-ER binding)

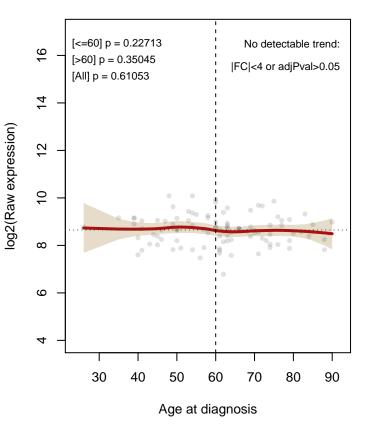
#### NFKBIB (non-ER binding)

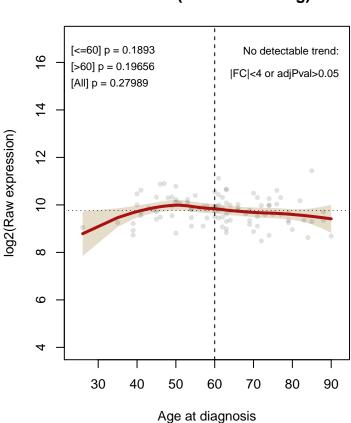




#### NFKBIE (non-ER binding)

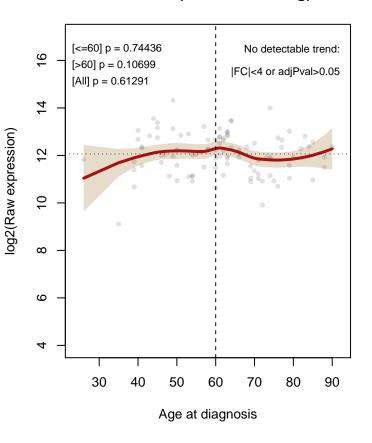
#### **NOTCH1** (non-ER binding)

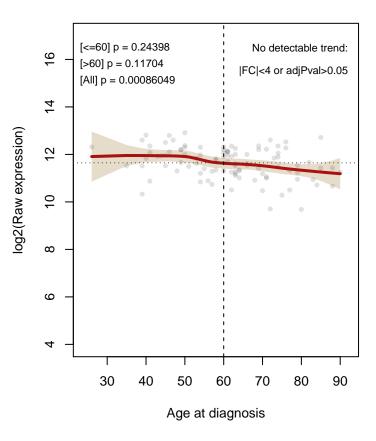




#### **NOTCH2** (non-ER binding)

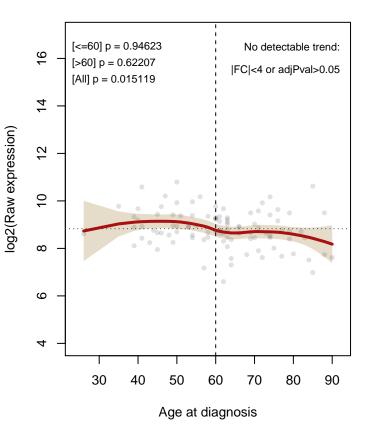
#### NOTCH3 (non-ER binding)

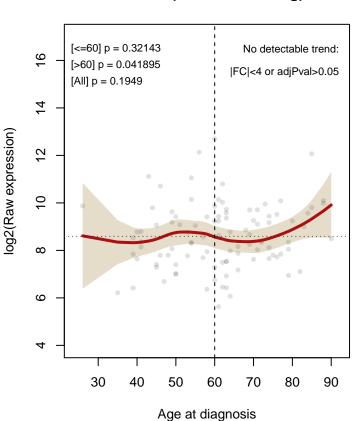


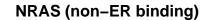


#### NOTCH4 (non-ER binding)

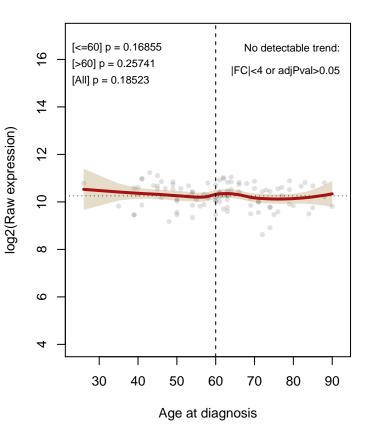
#### NR4A2 (non-ER binding)

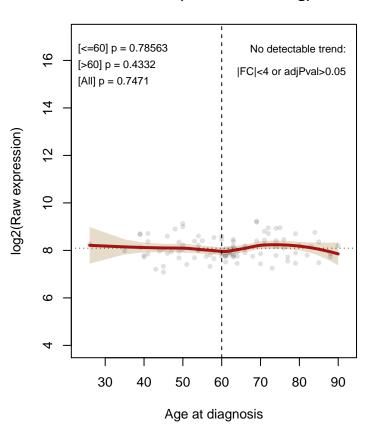






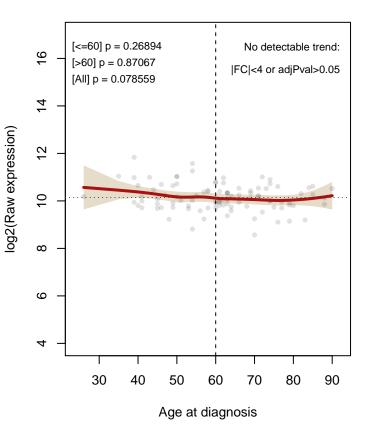
#### PCGF1 (non-ER binding)

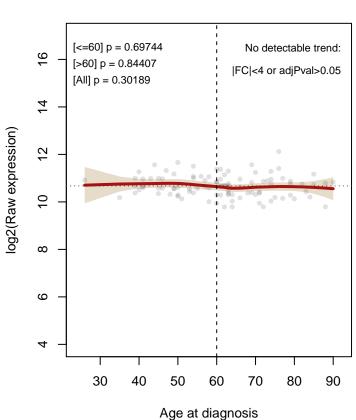


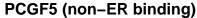


#### PCGF2 (non-ER binding)

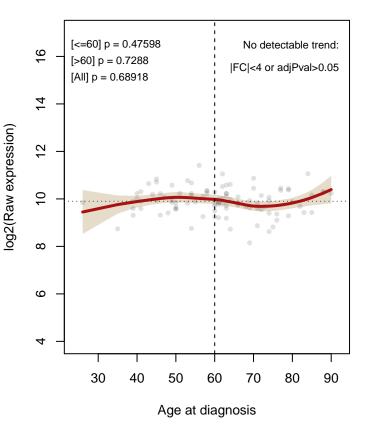
#### PCGF3 (non-ER binding)

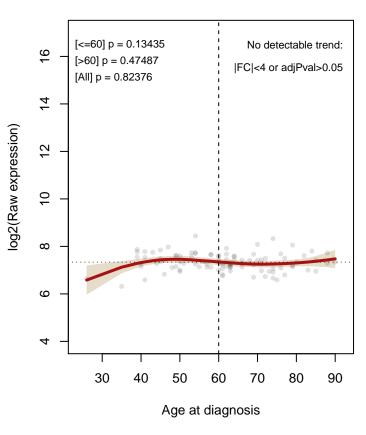






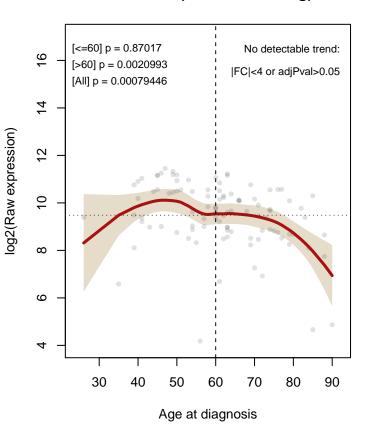
### PCGF6 (non-ER binding)

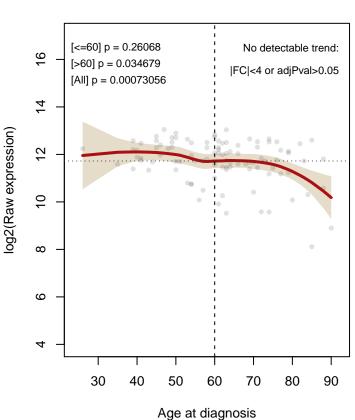


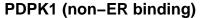


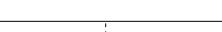
#### PDGFRA (non-ER binding)

#### PDGFRB (non-ER binding)





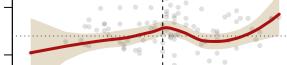








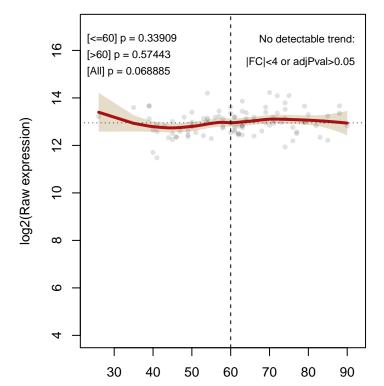
log2(Raw expression)



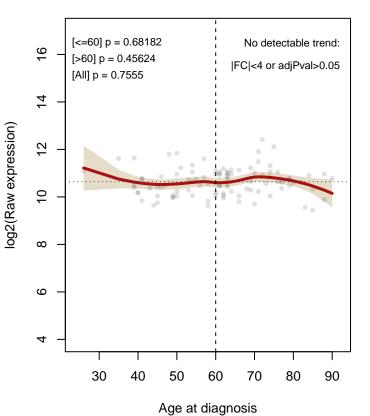


Age at diagnosis

## PEBP1 (non-ER binding)

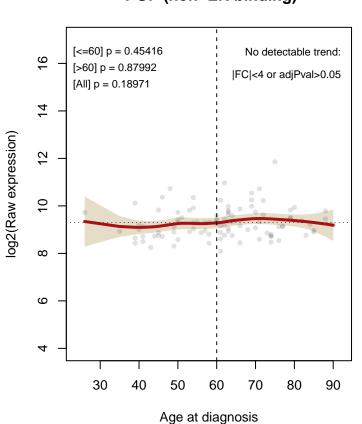


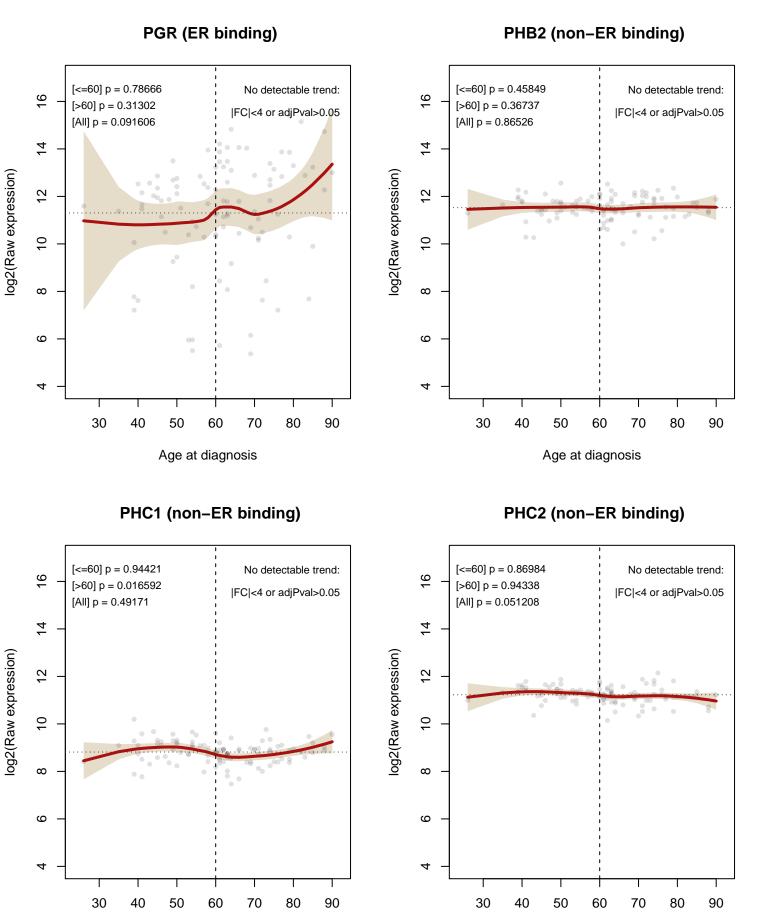
#### PELP1 (non-ER binding)



#### PGP (non-ER binding)

Age at diagnosis





Age at diagnosis

Age at diagnosis

#### PHC3 (non-ER binding) PHF1 (non-ER binding) [<=60] p = 0.81055No detectable trend: [<=60] p = 0.52661No detectable trend: 16 16 [>60] p = 0.43863 [>60] p = 0.37319 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [All] p = 0.63663[All] p = 0.497154 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 PHF19 (non-ER binding) PIK3CA (non-ER binding) [<=60] p = 0.48691No detectable trend: [<=60] p = 0.65547No detectable trend: 16 16 [>60] p = 0.96335 [>60] p = 0.37864 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [AII] p = 0.0026308[All] p = 0.748724 4 log2(Raw expression) log2(Raw expression) 12 12 19 10 ω ω

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Age at diagnosis

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Age at diagnosis

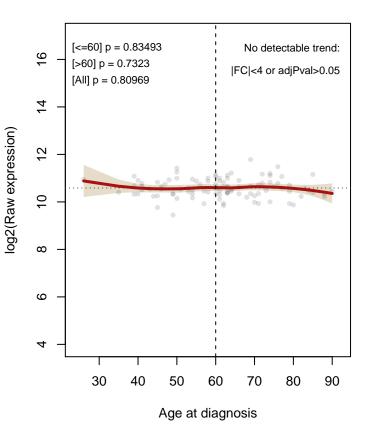
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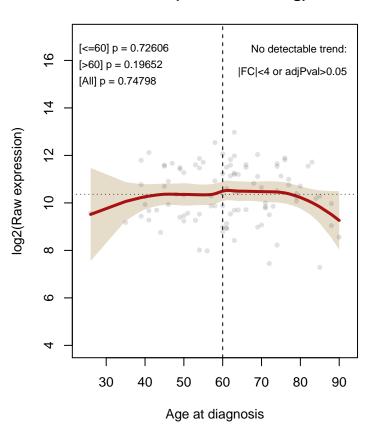
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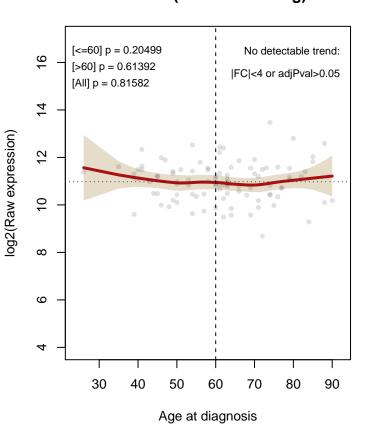
#### PLAU (non-ER binding)

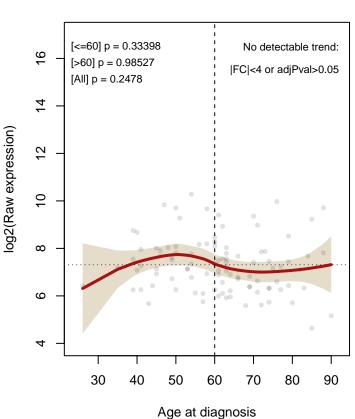


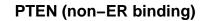


#### PODXL (non-ER binding)

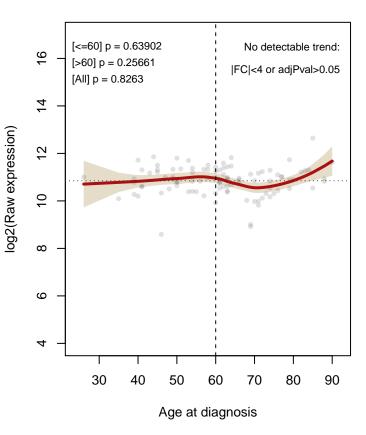
#### **PPARG (ER binding)**

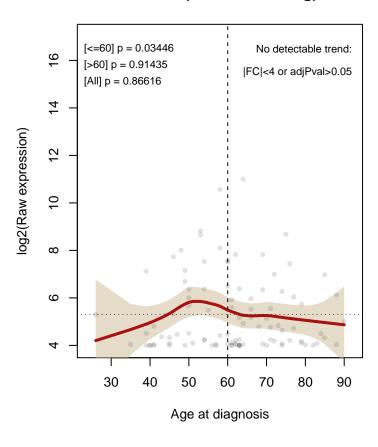






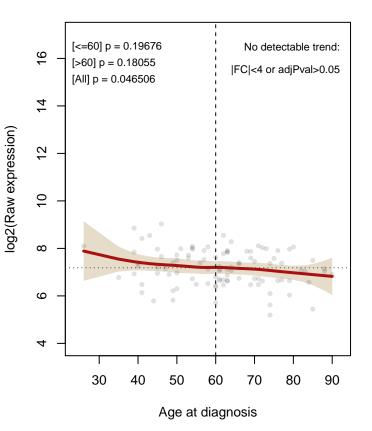
#### **PYDC1** (non-ER binding)

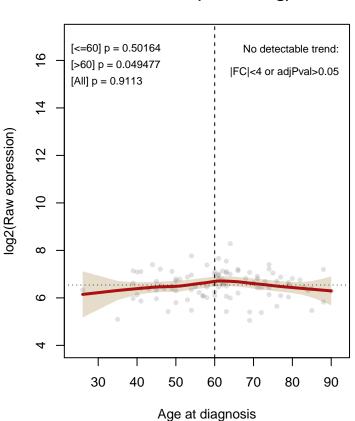




#### RAD51 (non-ER binding)

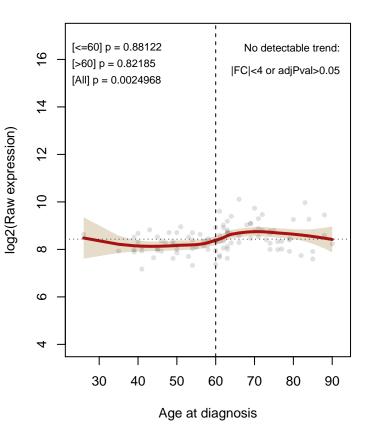
#### RAD51B (ER binding)

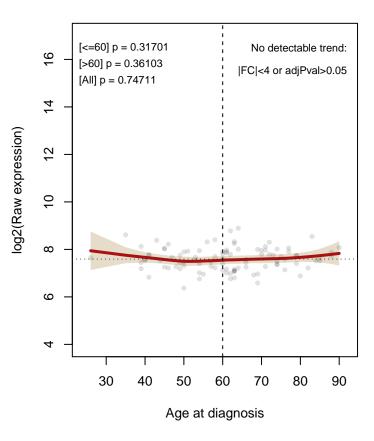




#### RAD51C (non-ER binding)

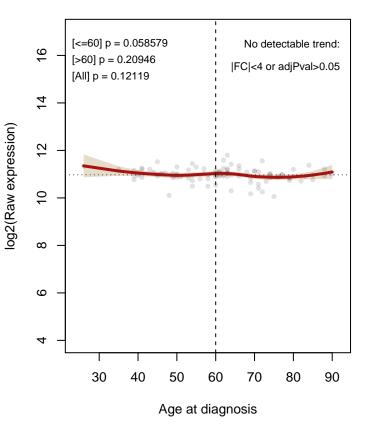
#### RAD51D (non-ER binding)

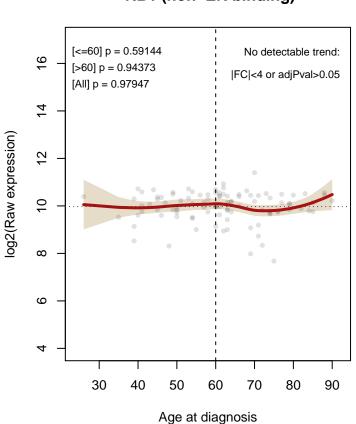


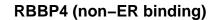


RAF1 (non-ER binding)

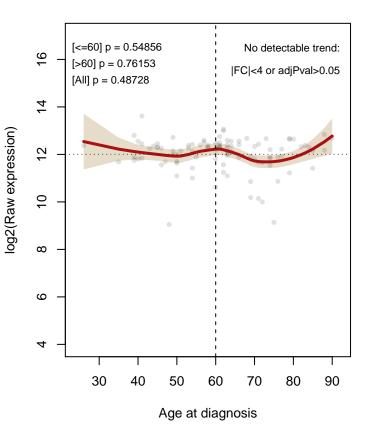
**RB1 (non-ER binding)** 

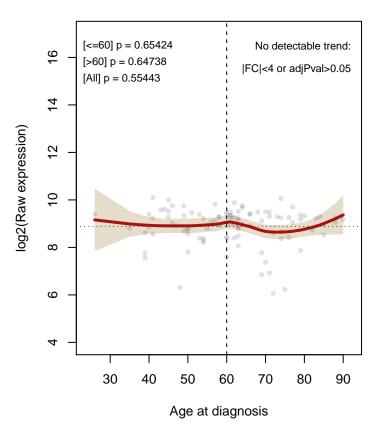






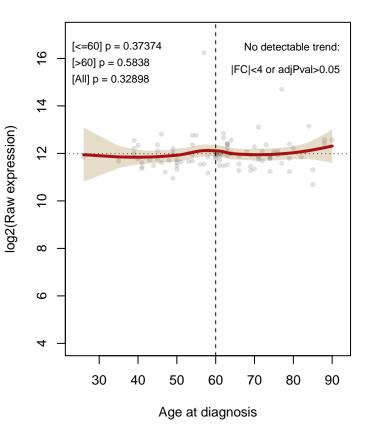
#### RBBP5 (non-ER binding)

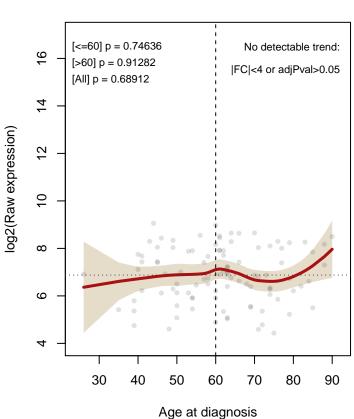


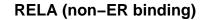


#### RBBP7 (non-ER binding)

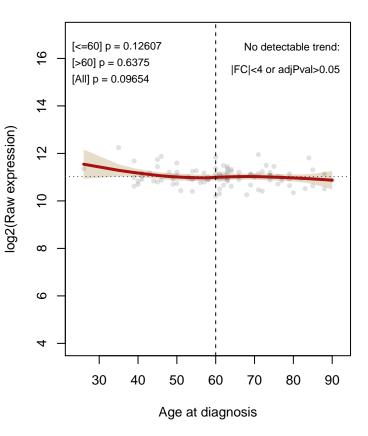
**REL** (non-ER binding)

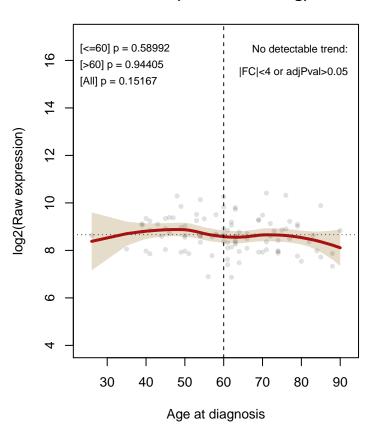






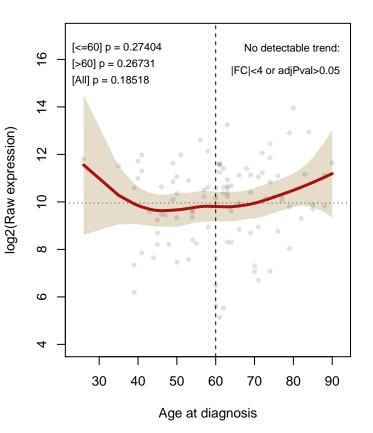
#### **RELB** (non-ER binding)

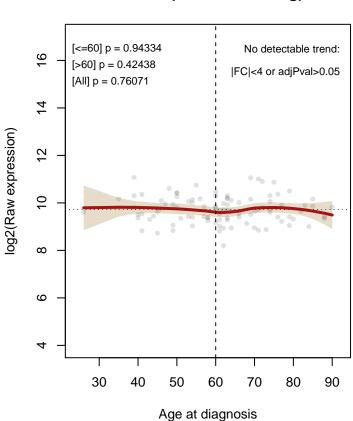




#### **RET (ER binding)**

RING1 (non-ER binding)





#### RNF2 (non-ER binding) **RUNX1 (ER binding)** [<=60] p = 0.60042No detectable trend: [<=60] p = 0.28227No detectable trend: 16 16 [>60] p = 0.54213 [>60] p = 0.77755 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [All] p = 0.65542[AII] p = 0.130064 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 = 0.0088146No detectable trend: [<=60] p = 0.18207No detectable trend: 16 16 [>60] p = 0.1937 [>60] p = 0.8546 |FC|<4 or adjPval>0.05 |FC|<4 or adjPval>0.05 [All] p = 0.16708[All] p = 0.505434 4 log2(Raw expression) log2(Raw expression) 12 12 10 10 ω ω

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Age at diagnosis

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60

Age at diagnosis

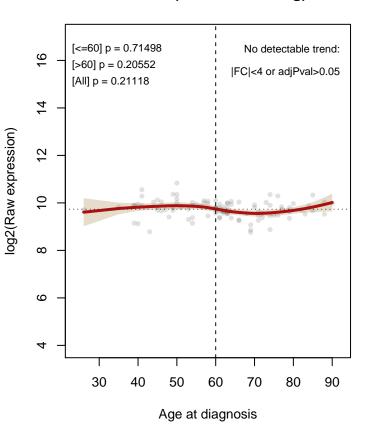
70

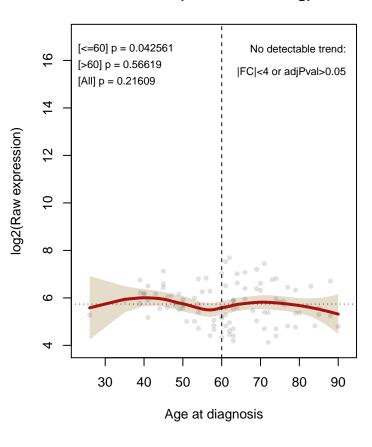
80

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#### **SCMH1** (non-ER binding)

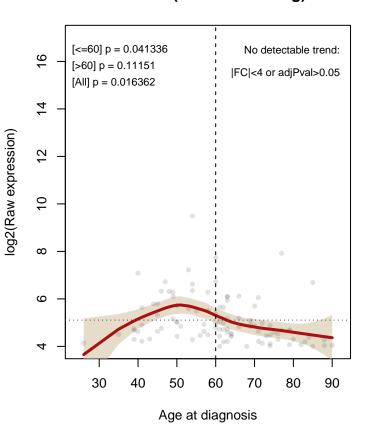
#### SCML2 (non-ER binding)

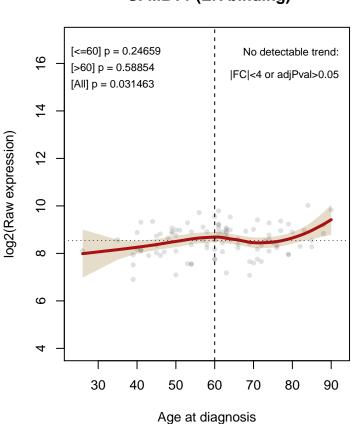




#### SCML4 (non-ER binding)

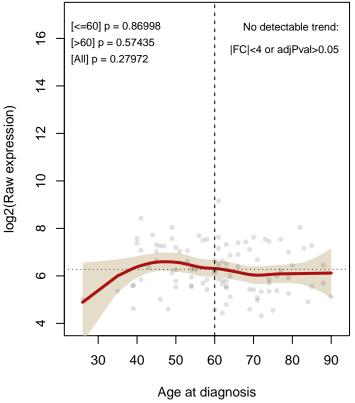
SFMBT1 (ER binding)

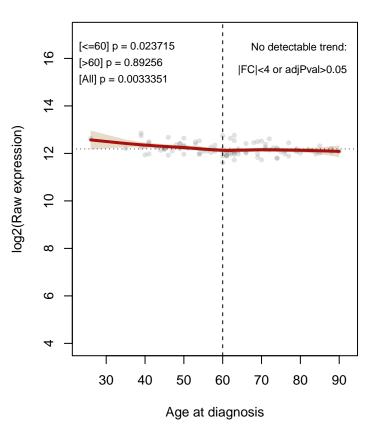




# SFMBT2 (ER binding) [<=60] p = 0.86998 | No detecta [>60] p = 0.57435 | |FC|<4 or adji

#### SFPQ (non-ER binding)



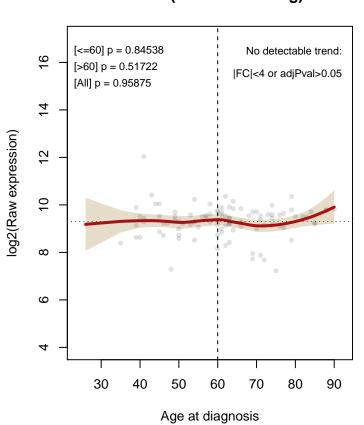


SHC1 (non-ER binding)

[<=60] p = 0.044495No detectable trend: 16 [>60] p = 0.64748 |FC|<4 or adjPval>0.05 [All] p = 0.0117634 log2(Raw expression) 12 10 ω 9 30 40 50 60 70 80 90

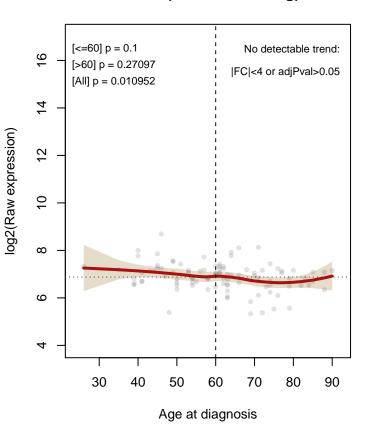
Age at diagnosis

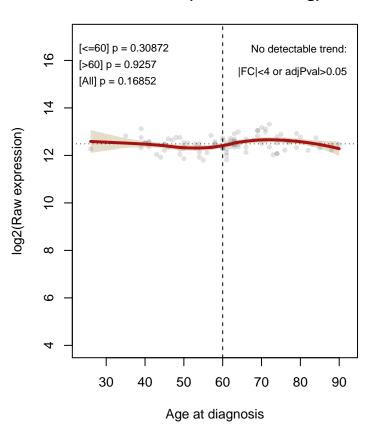
#### SIRT1 (non-ER binding)



#### SKP2 (non-ER binding)

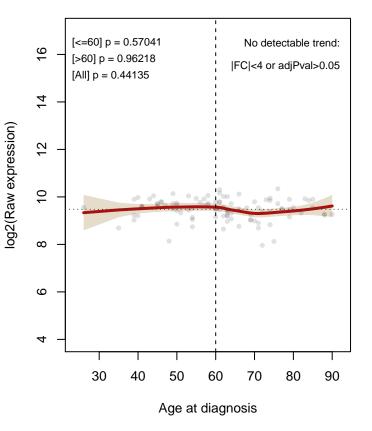
#### SLC25A3 (non-ER binding)

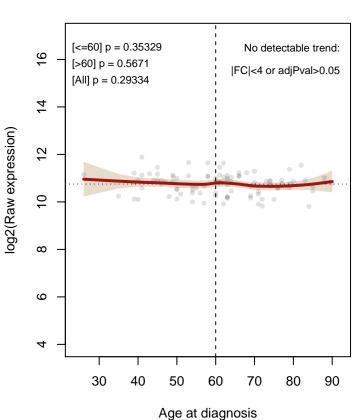




#### SMAD1 (non-ER binding)

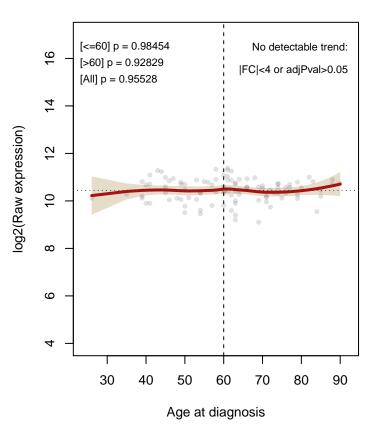
#### SMAD2 (non-ER binding)





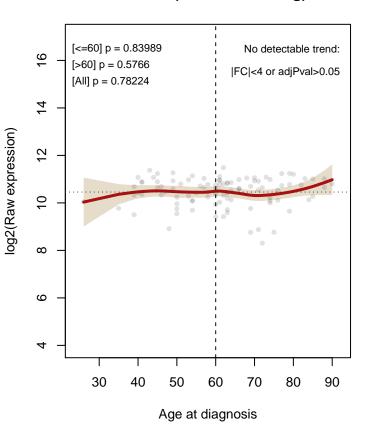
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#### SMAD4 (non-ER binding)

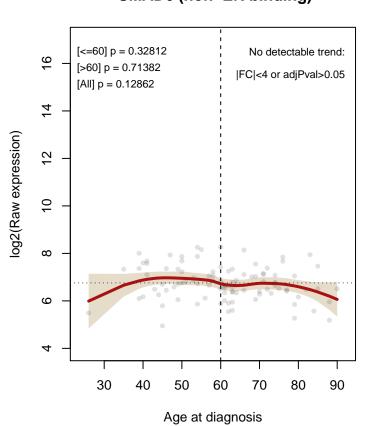


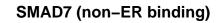
**SMAD5** (non-ER binding)

Age at diagnosis

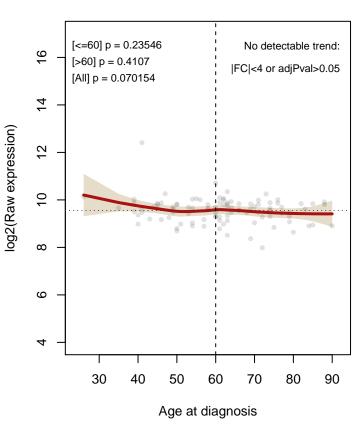


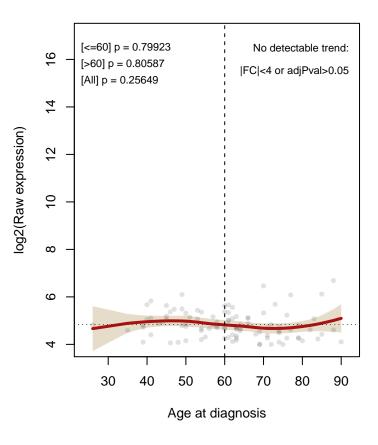
#### SMAD6 (non-ER binding)





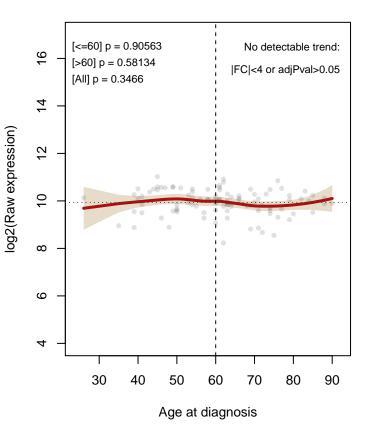
#### SMAD9 (non-ER binding)

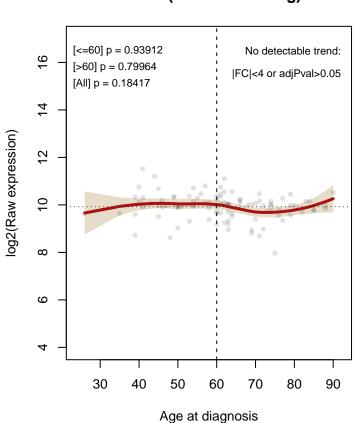


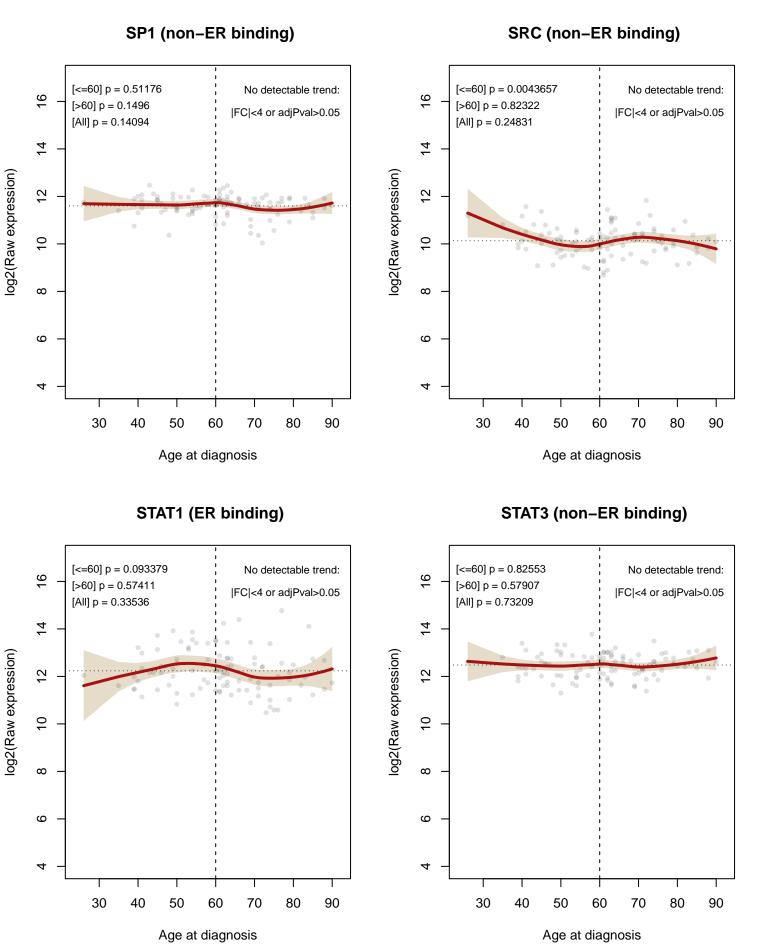


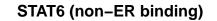
#### SOS1 (non-ER binding)

SOS2 (non-ER binding)

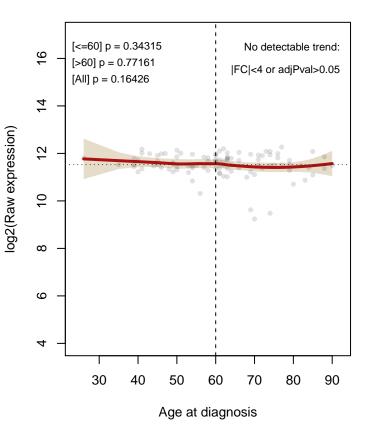


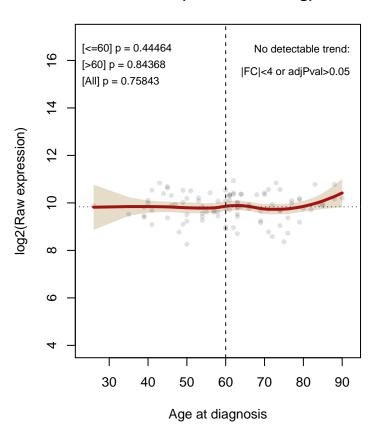






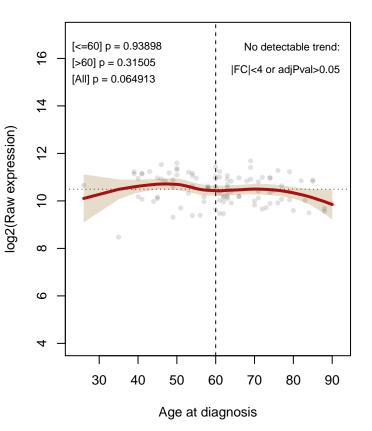
#### SUZ12 (non-ER binding)

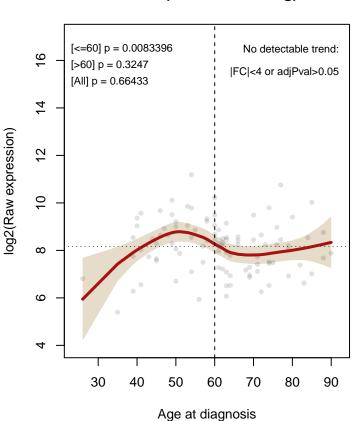




#### TCF3 (non-ER binding)

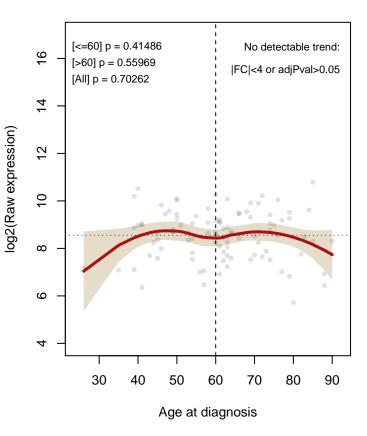
TCF7 (non-ER binding)

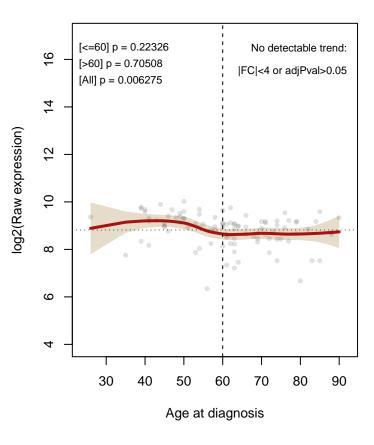






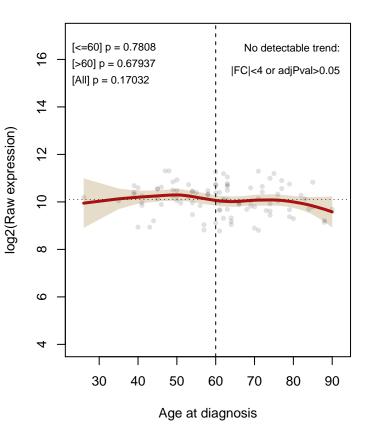
## TCF7L2 (non-ER binding)

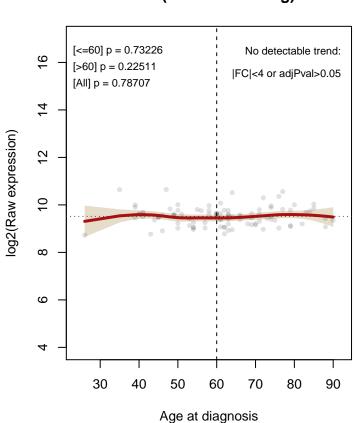


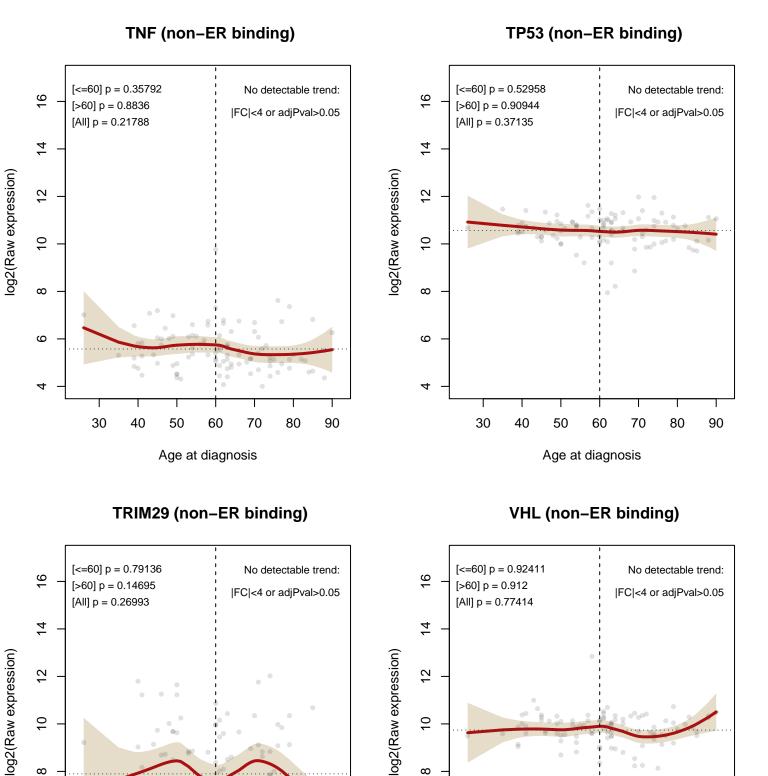


#### TGFB1 (non-ER binding)

TK2 (non-ER binding)







ω

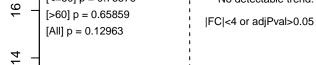
Age at diagnosis

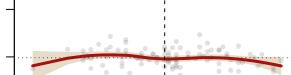
ω

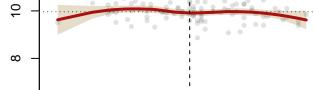
Age at diagnosis



## [<=60] p = 0.76576No detectable trend:



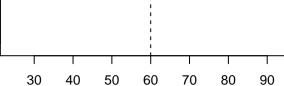




log2(Raw expression)

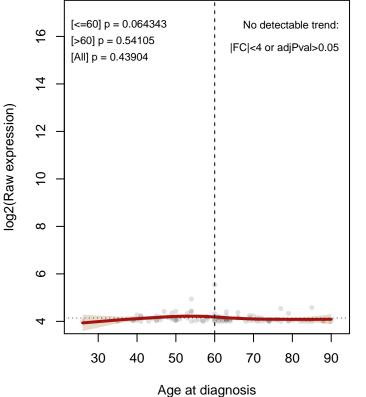
12

9

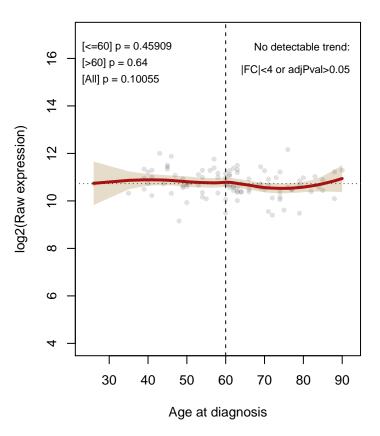


# WNT1 (non-ER binding)

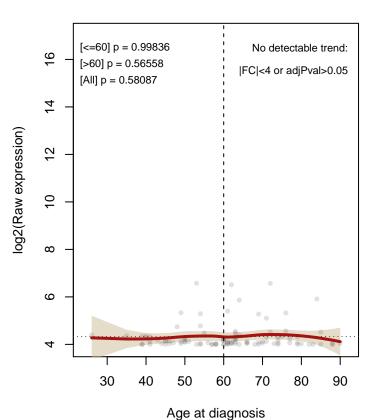
Age at diagnosis



#### WHSC1 (non-ER binding)



#### WNT3A (non-ER binding)



# WNT7A (non-ER binding) [<=60] p = 0.11194No detectable trend: 16 [>60] p = 0.80107 |FC|<4 or adjPval>0.05 [All] p = 0.555154 log2(Raw expression) 12 10

ω

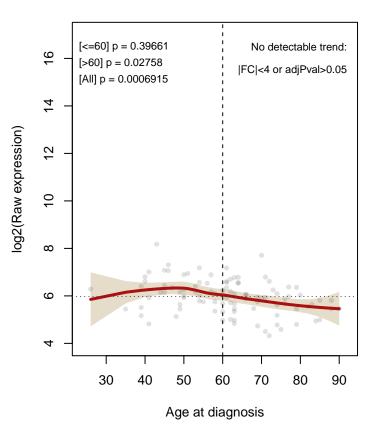
9

30

40

50

#### XRCC2 (non-ER binding)



XRCC3 (non-ER binding)

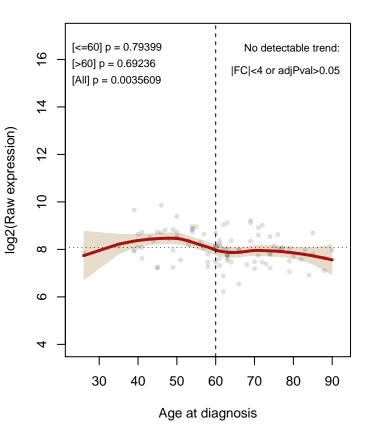
Age at diagnosis

60

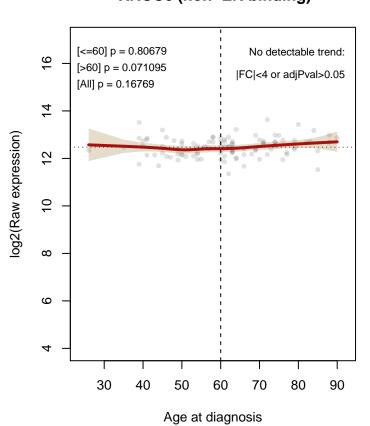
70

80

90



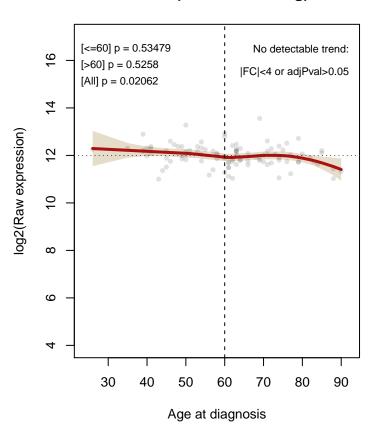
#### XRCC6 (non-ER binding)



#### YAF2 (non-ER binding)

# 

#### YBX1 (non-ER binding)



#### YY1 (non-ER binding)

Age at diagnosis

