**PAM50 LumA: N = 721 PAM50 LumB: N = 492** TNF-alpha|ILMN\_1728106 (non-ER binding) TNF-alpha|ILMN\_1728106 (non-ER binding) [<=60] p = 0.47571 No detectable trend: [<=60] p = 0.99144No detectable trend: 16 16 [>60] p = 0.21598 |FC|<4 or adjPval>0.01 [>60] p = 0.29405 |FC|<4 or adjPval>0.01 [AII] p = 0.71457[AII] p = 0.761984 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis PAM50 Her2: N = 240 **PAM50 Basal: N = 331** TNF-alpha|ILMN\_1728106 (non-ER binding) TNF-alpha|ILMN\_1728106 (non-ER binding) [<=60] p = 0.090178No detectable trend: [<=60] p = 0.20234No detectable trend: 16 16 [>60] p = 0.73296|FC|<4 or adjPval>0.01 [>60] p = 0.16392|FC|<4 or adjPval>0.01 [AII] p = 0.25048[All] p = 0.492574 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

## PAM50 Normal: N = 202 TNF-alpha|ILMN\_1728106 (non-ER binding)

