**PAM50 LumA: N = 721 PAM50 LumB: N = 492** SCMH1|ILMN\_1653861 SCMH1|ILMN\_1653861 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.45557No detectable trend: [<=60] p = 0.26947No detectable trend: 16 16 [>60] p = 0.93643[>60] p = 0.87369|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.62256[All] p = 0.17624 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$ 9 9 20 40 60 80 20 40 60 80 100 100 Age at diagnosis Age at diagnosis PAM50 Her2: N = 240 **PAM50** Basal: **N** = 331 SCMH1|ILMN\_1653861 SCMH1|ILMN\_1653861 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.49741No detectable trend: [<=60] p = 0.8907No detectable trend: 16 16 [>60] p = 0.97664[>60] p = 0.62791 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.59131[All] p = 0.373724 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$ 9 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 SCMH1|ILMN\_1653861

NKI Tier 1: non-ER binding; Tier 2: ER binding

