iClust 1: N = 140 iClust 2: N = 72 PgR/pr|ILMN\_1811014 (ER binding) PgR/pr|ILMN\_1811014 (ER binding) [<=60] p = 0.42281No detectable trend: [<=60] p = 0.59739No detectable trend: 16 16 [>60] p = 0.53182 |FC|<1.25 or adjPval>0.01 [>60] p = 0.09328|FC|<1.25 or adjPval>0.01 [AII] p = 0.35333[AII] p = 0.424924 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 20 40 60 80 100 40 60 80 100 Age at diagnosis Age at diagnosis iClust 3: N = 294 iClust 4: N = 344 PgR/pr|ILMN\_1811014 (ER binding) PgR/pr|ILMN\_1811014 (ER binding) [<=60] p = 0.02545Age-dependent trend: [<=60] p = 0.015606No detectable trend: 16 16 [>60] p = 0.5113 |FC|>1.25 and adjPval<0.01 [>60] p = 0.19183 |FC|<1.25 or adjPval>0.01 [AII] p = 4.419e - 06[AII] p = 0.653764 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 9 9 20 20 40 60 80 100 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 5: N = 191 iClust 6: N = 86 PgR/pr|ILMN\_1811014 (ER binding) PgR/pr|ILMN\_1811014 (ER binding) [<=60] p = 0.90701No detectable trend: [<=60] p = 0.0036676No detectable trend: 16 16 [>60] p = 0.11513 |FC|<1.25 or adjPval>0.01 [>60] p = 0.014938 |FC|<1.25 or adjPval>0.01 [AII] p = 0.22041[AII] p = 0.962944 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$  $\infty$ 9 9 20 20 40 60 80 100 40 60 80 100 Age at diagnosis Age at diagnosis iClust 7: N = 193 iClust 8: N = 300 PgR/pr|ILMN\_1811014 (ER binding) PgR/pr|ILMN\_1811014 (ER binding) [<=60] p = 0.867No detectable trend: [<=60] p = 0.002109No detectable trend: 16 16 [>60] p = 0.067478|FC|<1.25 or adjPval>0.01 [>60] p = 0.96653|FC|<1.25 or adjPval>0.01 [AII] p = 0.037816[AII] p = 0.0135934 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

iClust 9: N = 146 PgR/pr|ILMN\_1811014 (ER binding)

= 146 iClust 10: N = 226 4 (ER binding) PgR/pr|ILMN\_1811014 (ER binding)

