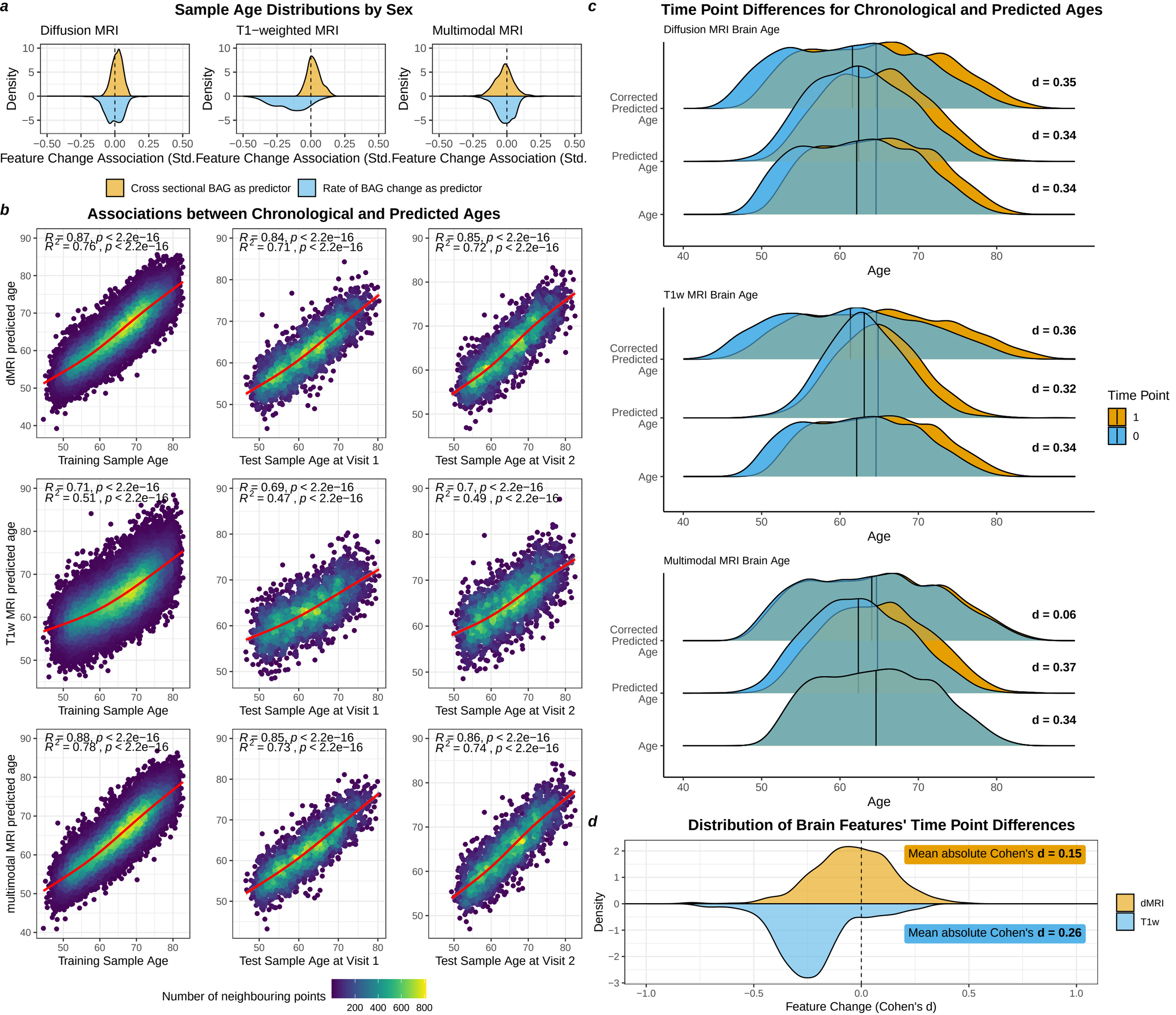
a
Sample Age Distributions by Sex
Diffusion MRI
T1−weighted MRI
Multimodal MRI
Density
Feature Change Association (Std.
Cross sectional BAG as predictor
Rate of BAG change as predictor
b
Associations between Chronological and Predicted Ages
R = 0.87, p < 2.2e−16
R2 = 0.76 , p < 2.2e−16
R = 0.84, p < 2.2e−16
R2 = 0.71 , p < 2.2e−16
R = 0.85, p < 2.2e−16
R2 = 0.72 , p < 2.2e−16
R = 0.71, p < 2.2e−16
R2 = 0.51 , p < 2.2e−16
R = 0.69, p < 2.2e−16
R2 = 0.47 , p < 2.2e−16
R = 0.7, p < 2.2e−16
R2 = 0.49 , p < 2.2e−16
R = 0.88, p < 2.2e−16
R2 = 0.78 , p < 2.2e−16
R = 0.85, p < 2.2e−16
R2 = 0.73 , p < 2.2e−16
R = 0.86, p < 2.2e−16
R2 = 0.74 , p < 2.2e−16
dMRI predicted age
T1w MRI predicted age
multimodal MRI predicted age
Training Sample Age
Test Sample Age at Visit 1
Test Sample Age at Visit 2
Number of neighbouring points
c
Time Point Differences for Chronological and Predicted Ages
Diffusion MRI Brain Age
T1w MRI Brain Age
Multimodal MRI Brain Age
Corrected Predicted Age
Predicted Age
Age
d = 0.35
d = 0.34
d = 0.34
d = 0.36
d = 0.32
d = 0.34
d = 0.06
d = 0.37
d = 0.34
Time Point
1
0
d
Distribution of Brain Features' Time Point Differences
Mean absolute Cohen's d = 0.15
Mean absolute Cohen's d = 0.26
Density
Feature Change (Cohen's d)
dMRI
T1w