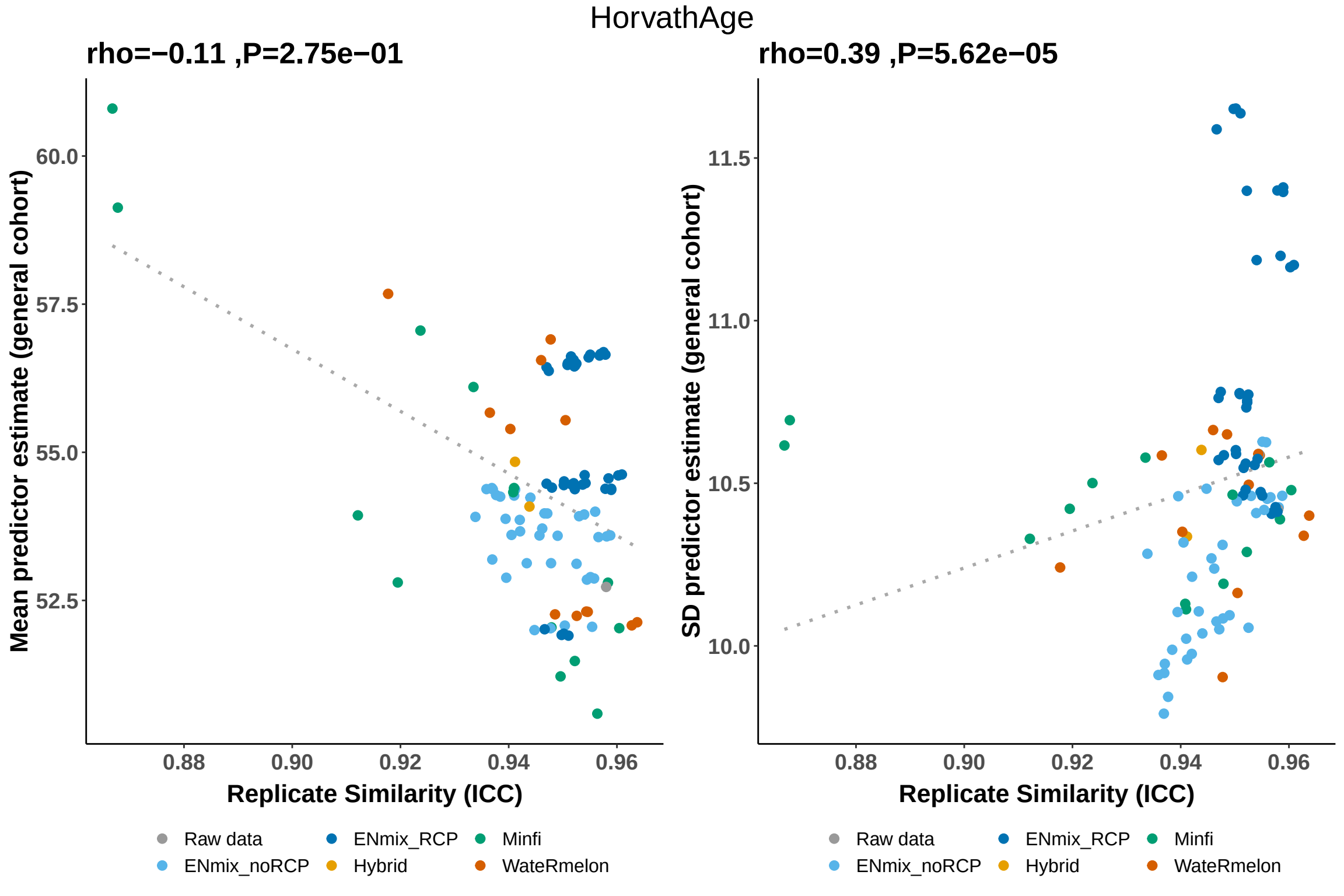
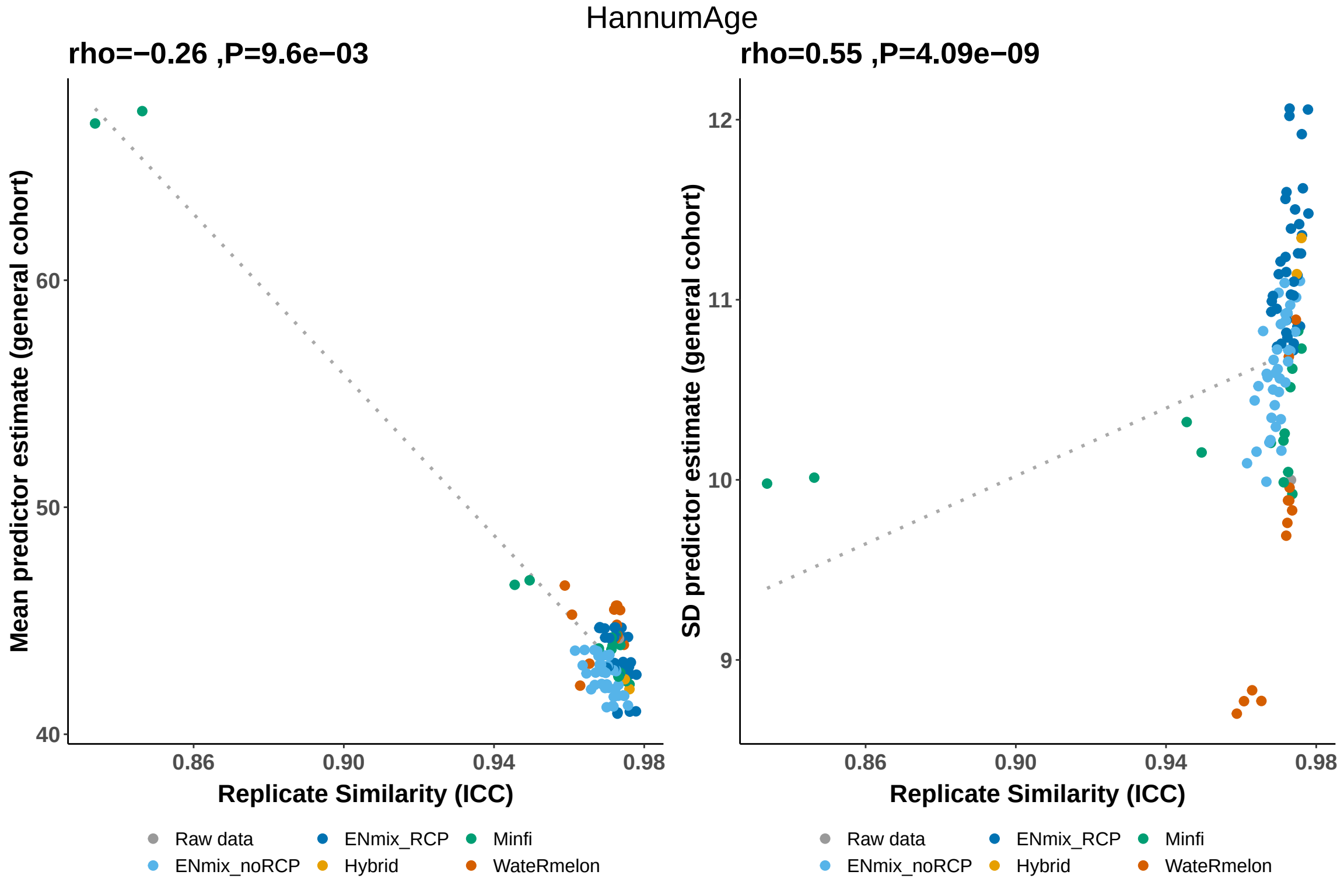
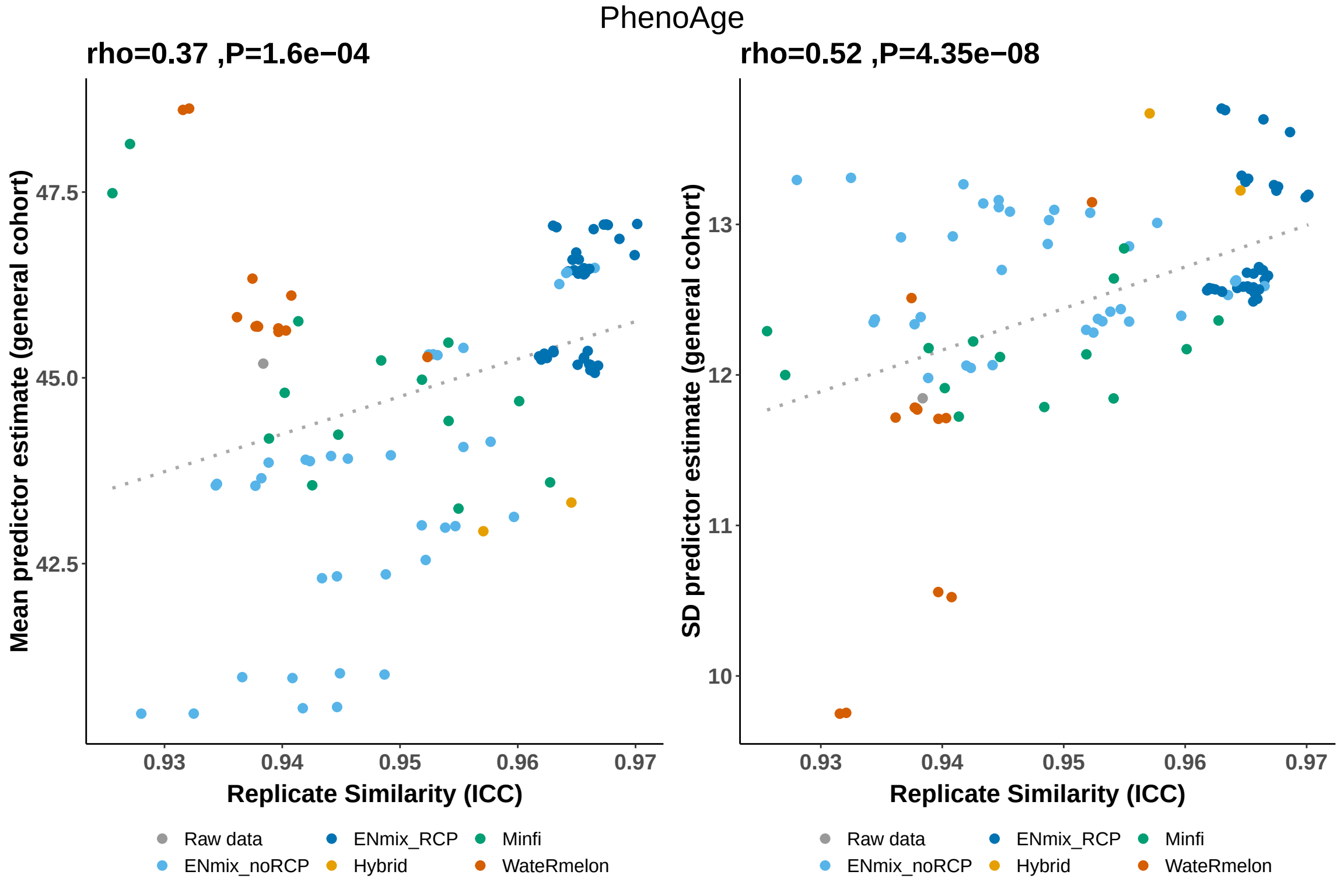
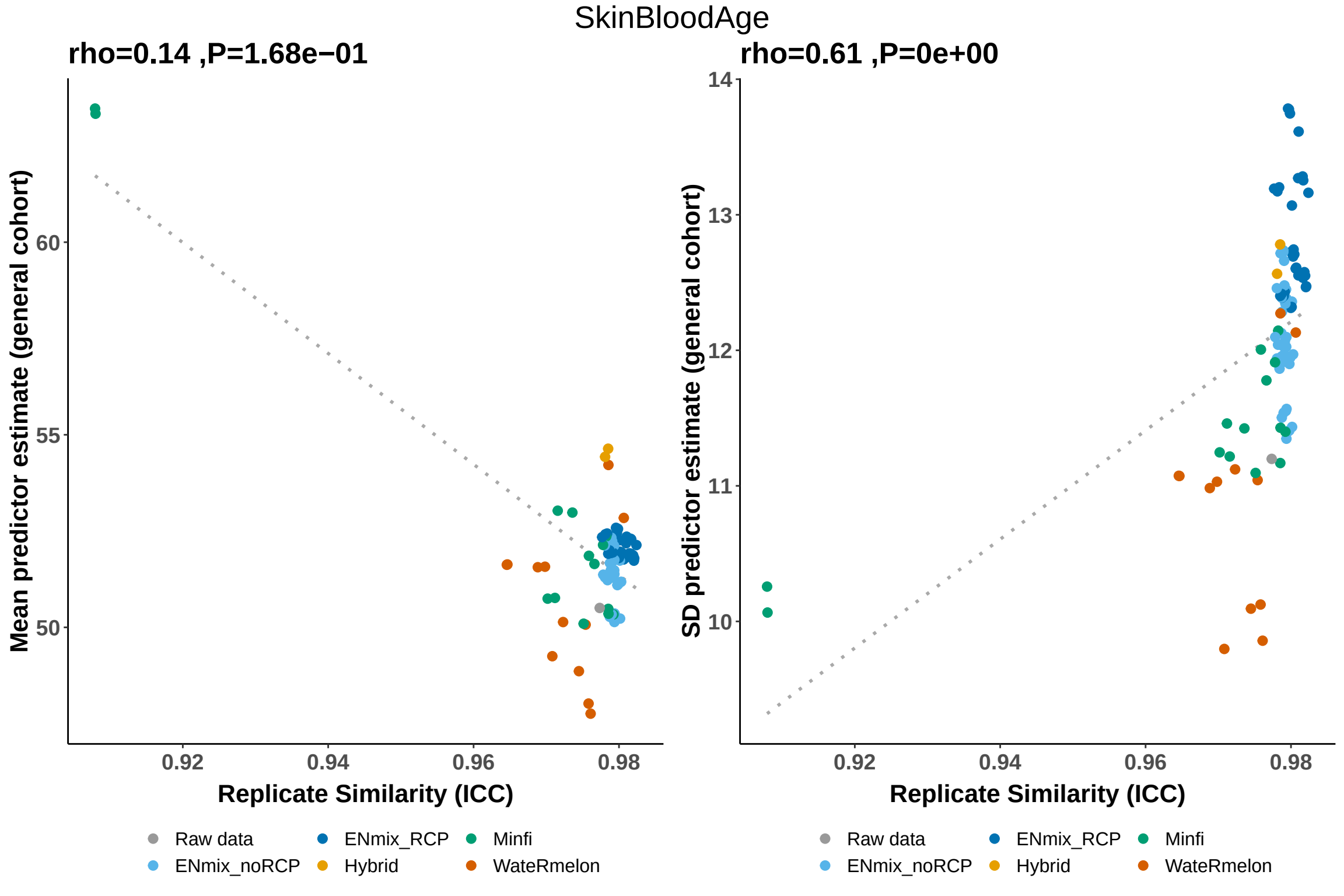
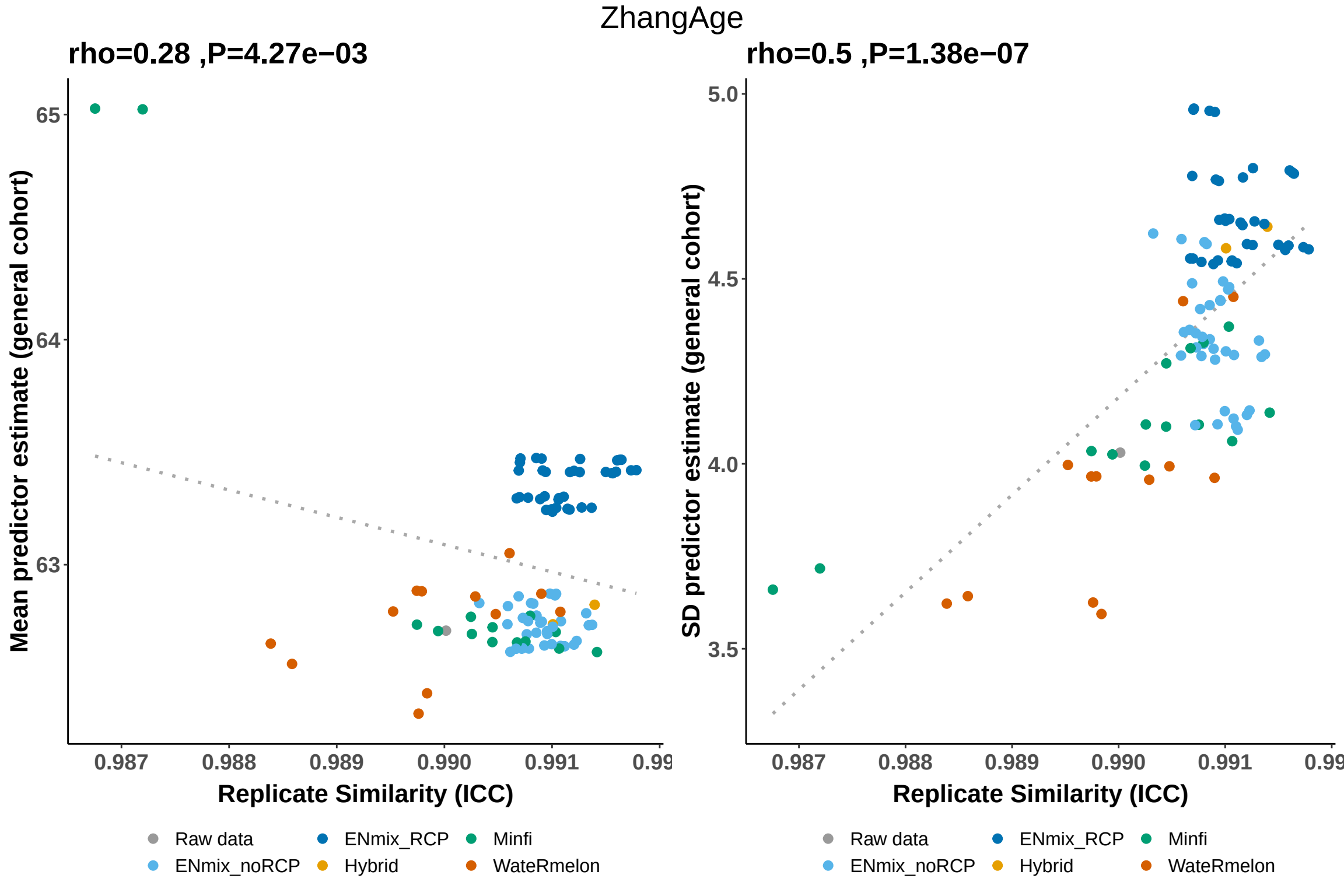
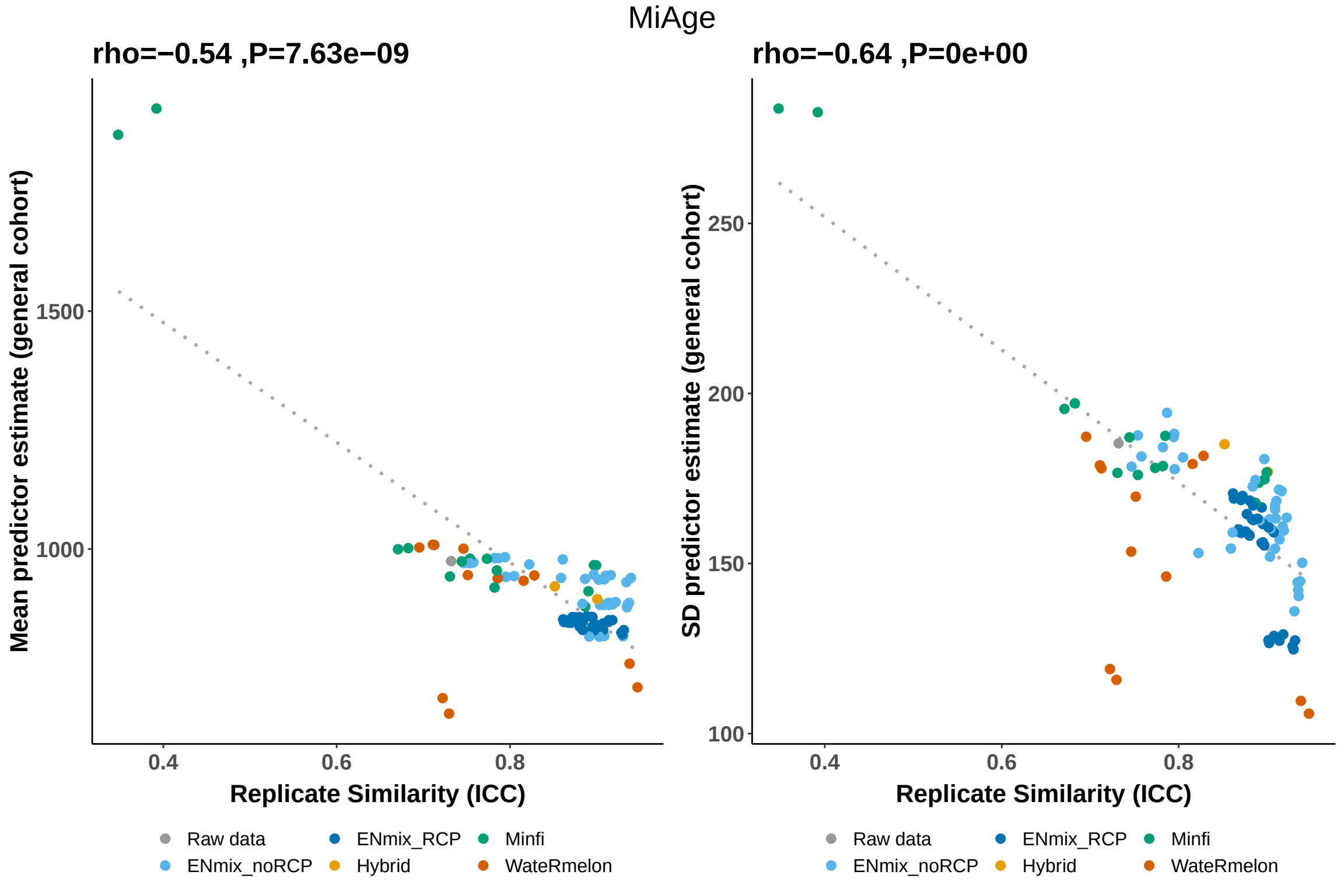

HorvathAge
rho=−0.11 ,P=2.75e−01
rho=0.39 ,P=5.62e−05
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
60.0
57.5
55.0
52.5
11.5
11.0
10.5
10.0
0.88
0.90
0.92
0.94
0.96
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

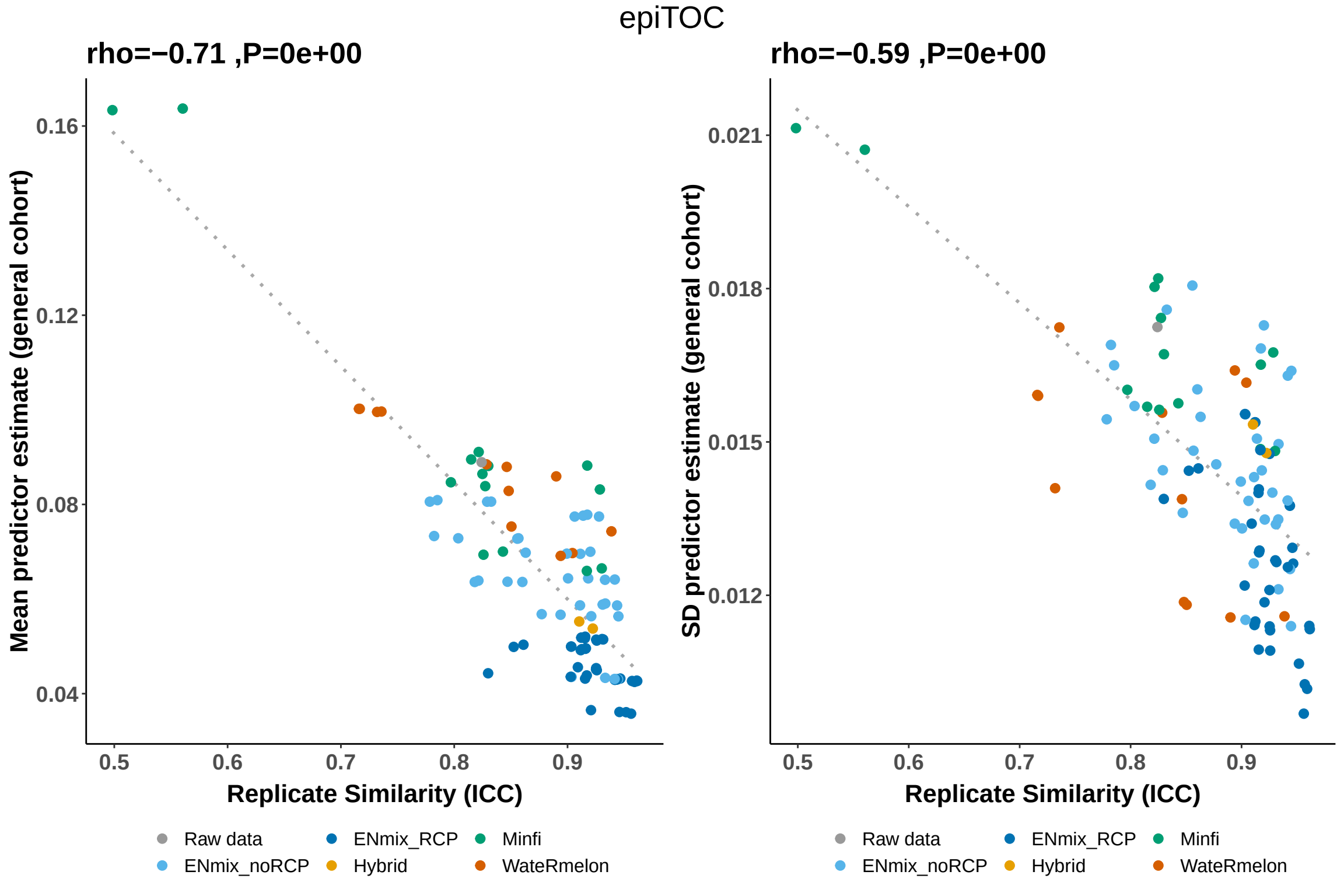

HannumAge
rho=−0.26 ,P=9.6e−03
rho=0.55 ,P=4.09e−09
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
60
50
40
12
11
10
9
0.86
0.90
0.94
0.98
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

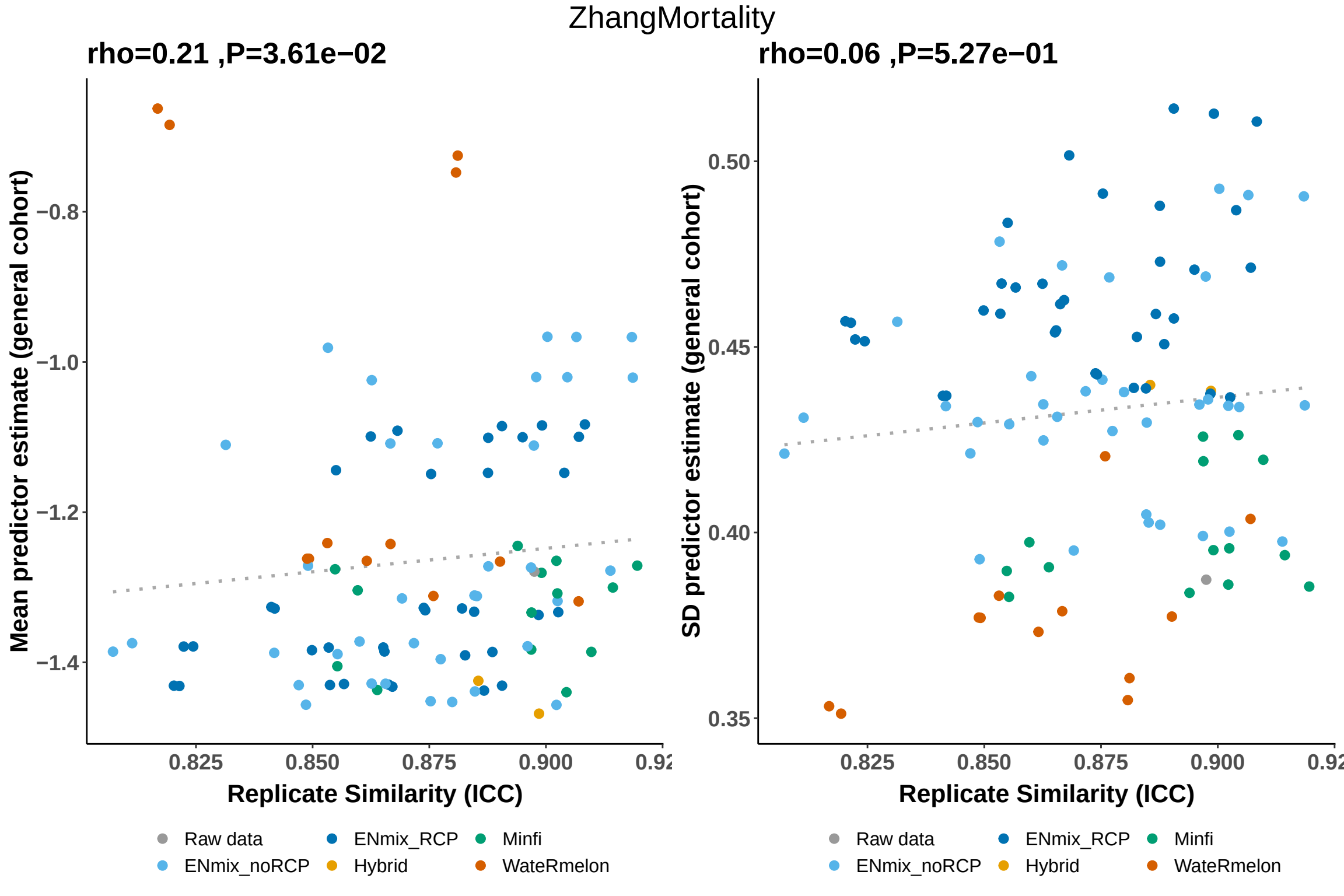

PhenoAge
rho=0.37 ,P=1.6e−04
rho=0.52 ,P=4.35e−08
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
47.5
45.0
42.5
13
12
11
10
0.93
0.94
0.95
0.96
0.97
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

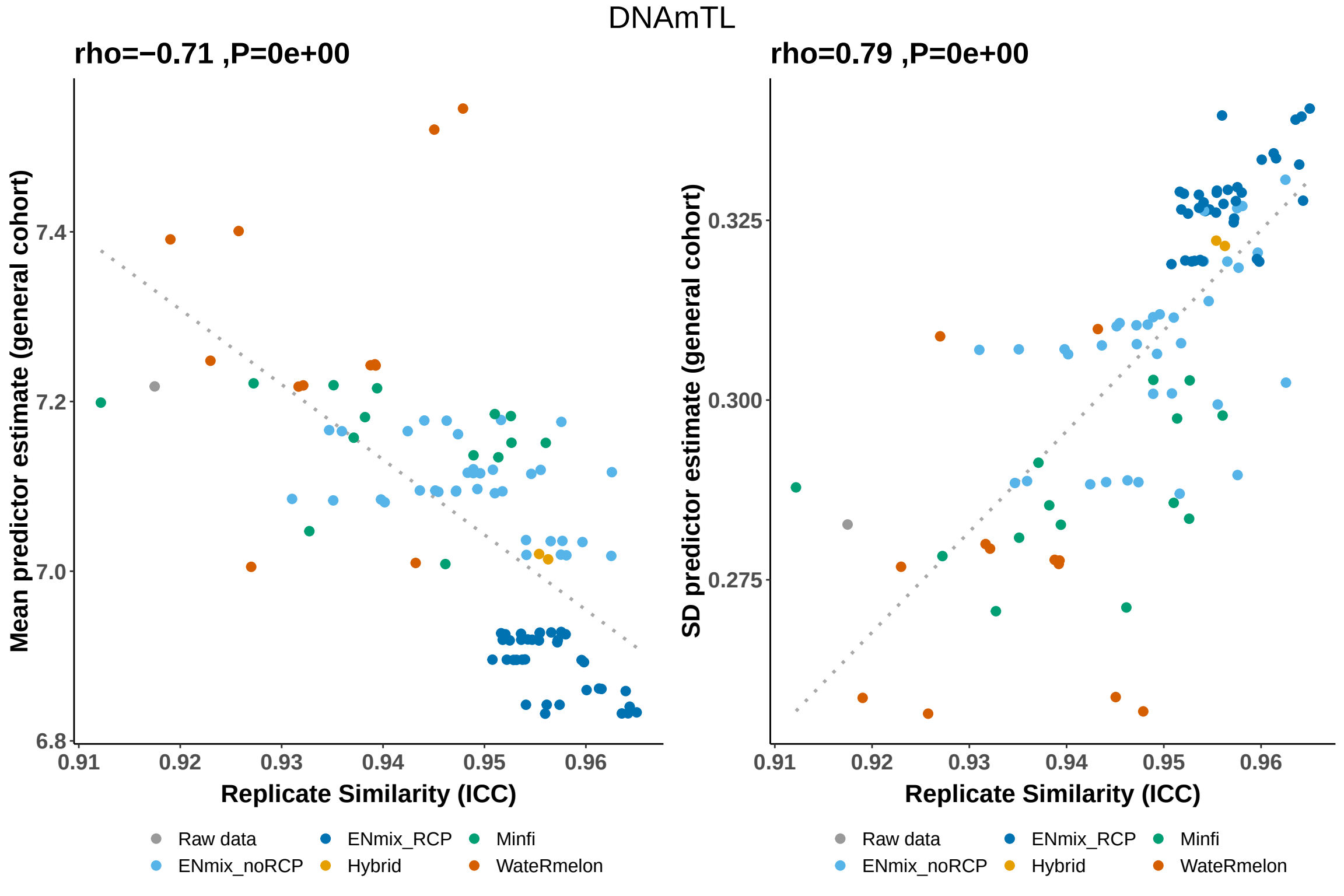

SkinBloodAge
rho=0.14 ,P=1.68e−01
rho=0.61 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
60
55
50
14
13
12
11
10
0.92
0.94
0.96
0.98
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

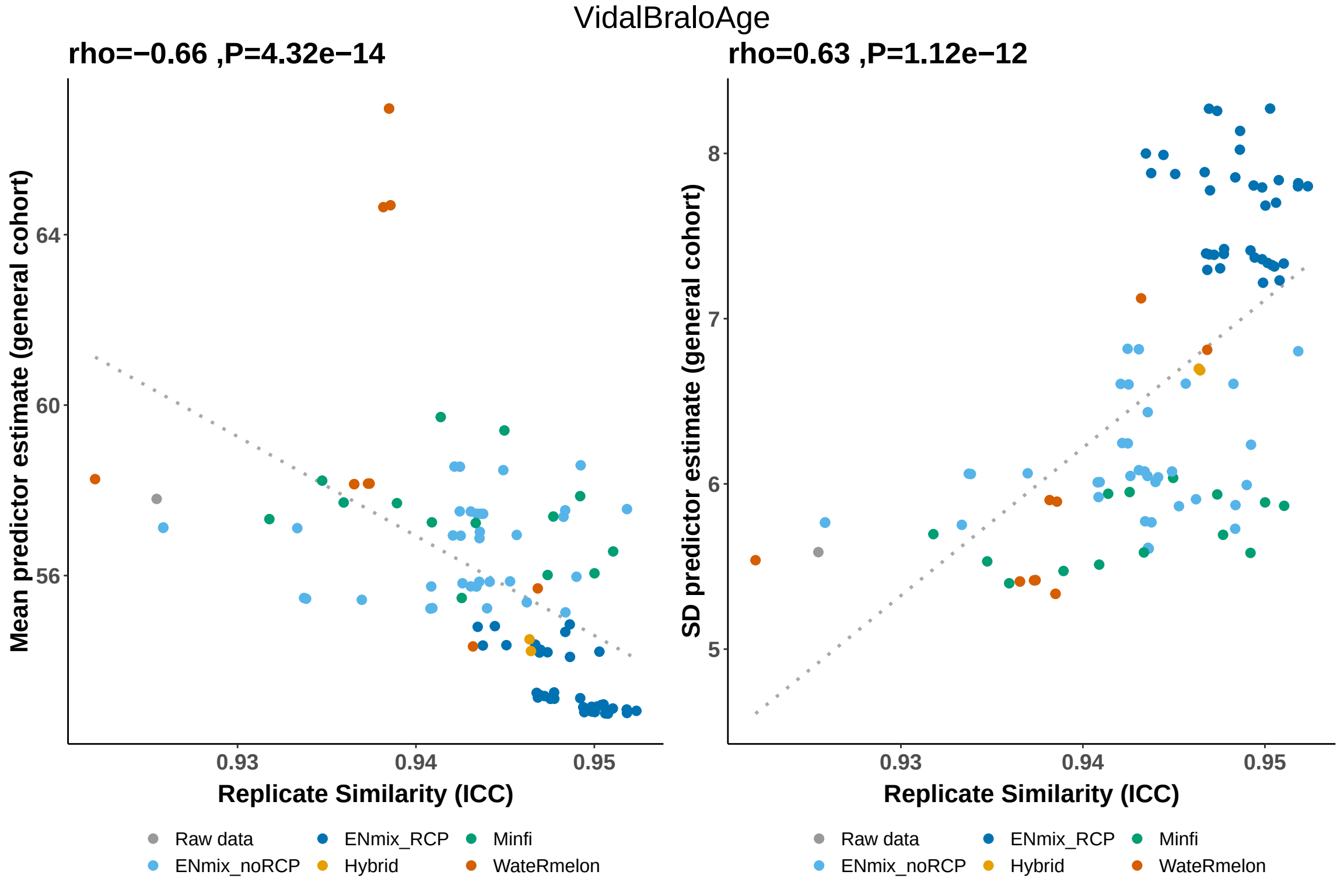

ZhangAge
rho=0.28 ,P=4.27e−03
rho=0.5 ,P=1.38e−07
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
65
64
63
5.0
4.5
4.0
3.5
0.987
0.988
0.989
0.990
0.991
0.99
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

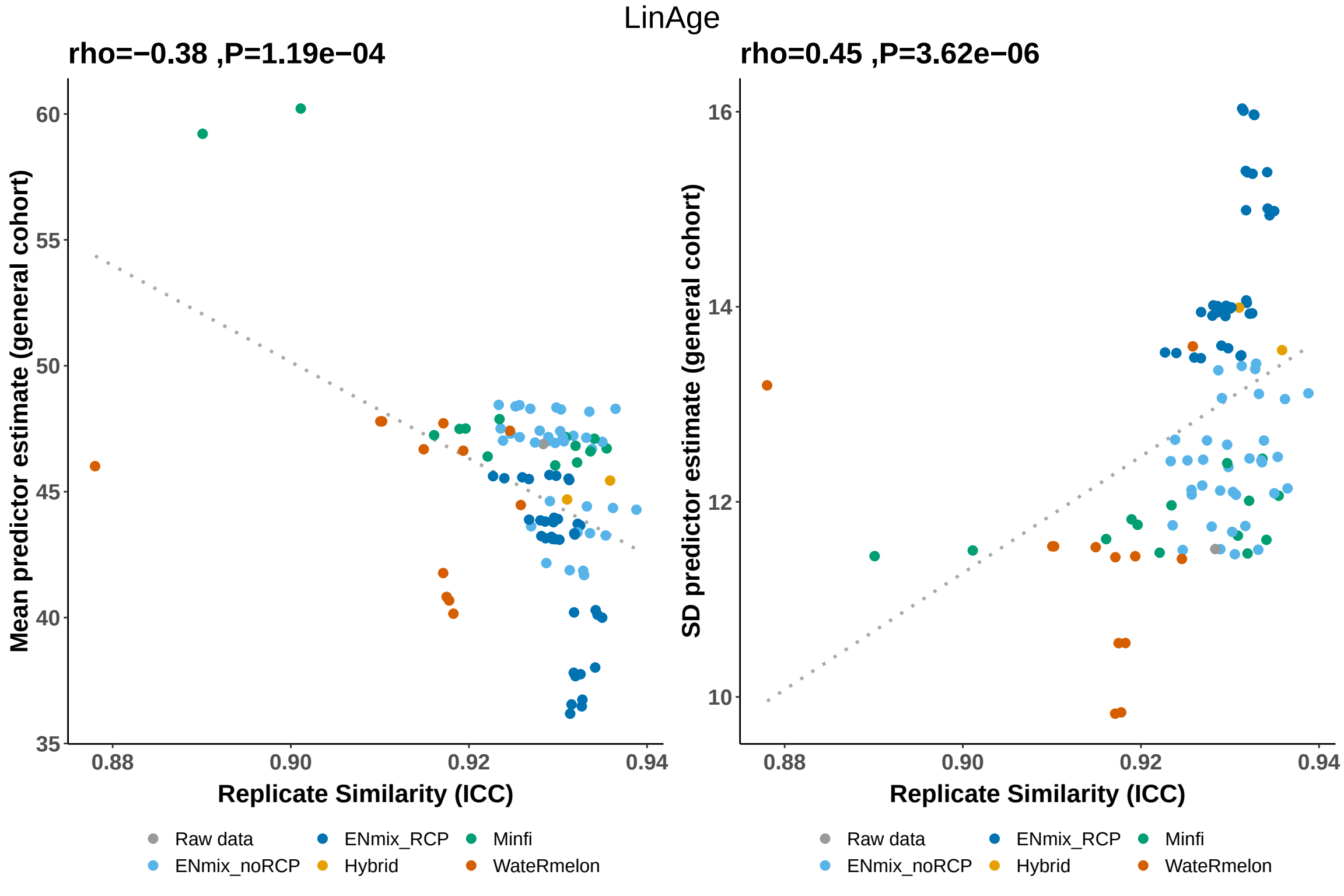

MiAge
rho=−0.54 ,P=7.63e−09
rho=−0.64 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
1500
1000
250
200
150
100
0.4
0.6
0.8
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

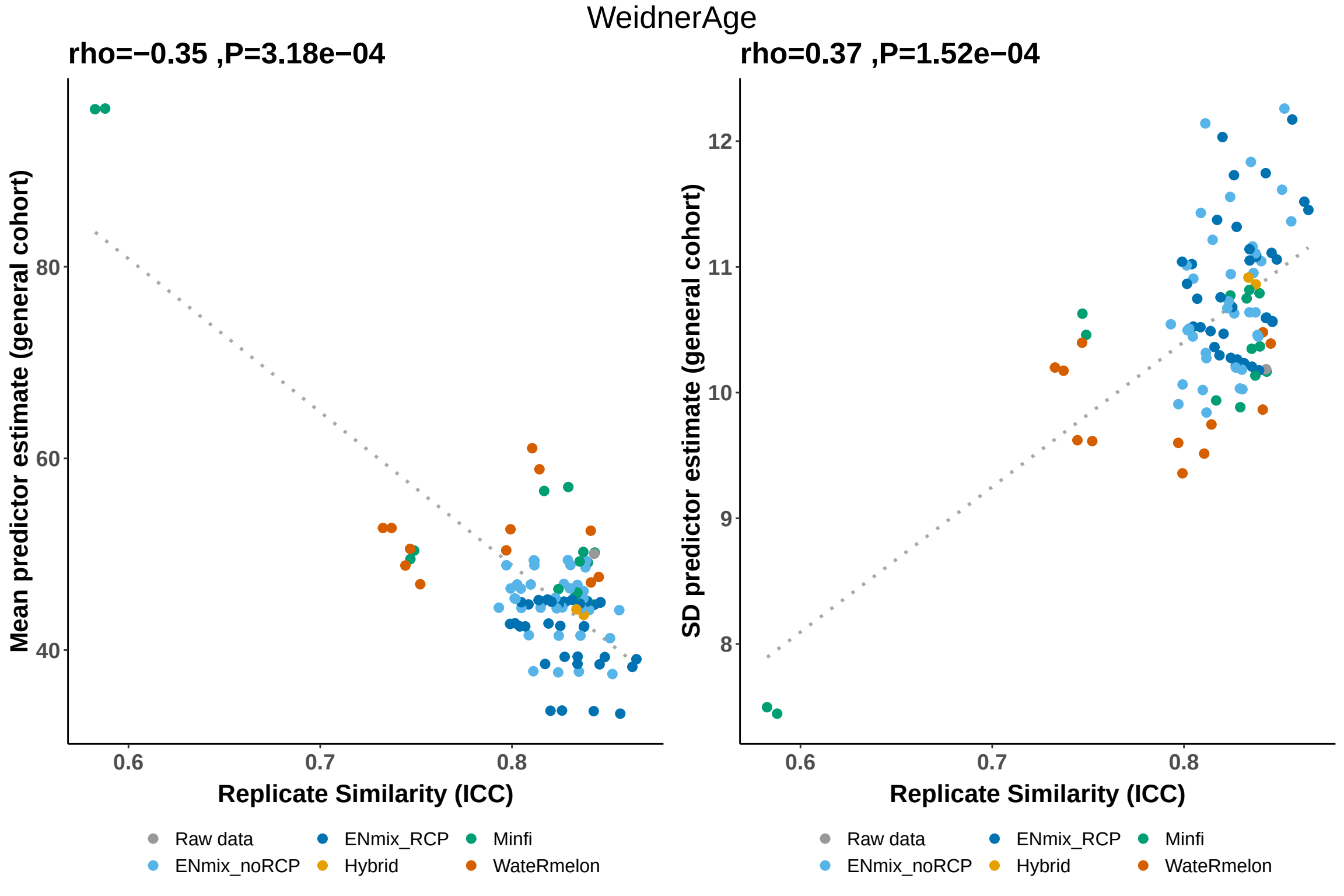

epiTOC
rho=−0.71 ,P=0e+00
rho=−0.59 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
0.16
0.12
0.08
0.04
0.021
0.018
0.015
0.012
0.5
0.6
0.7
0.8
0.9
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

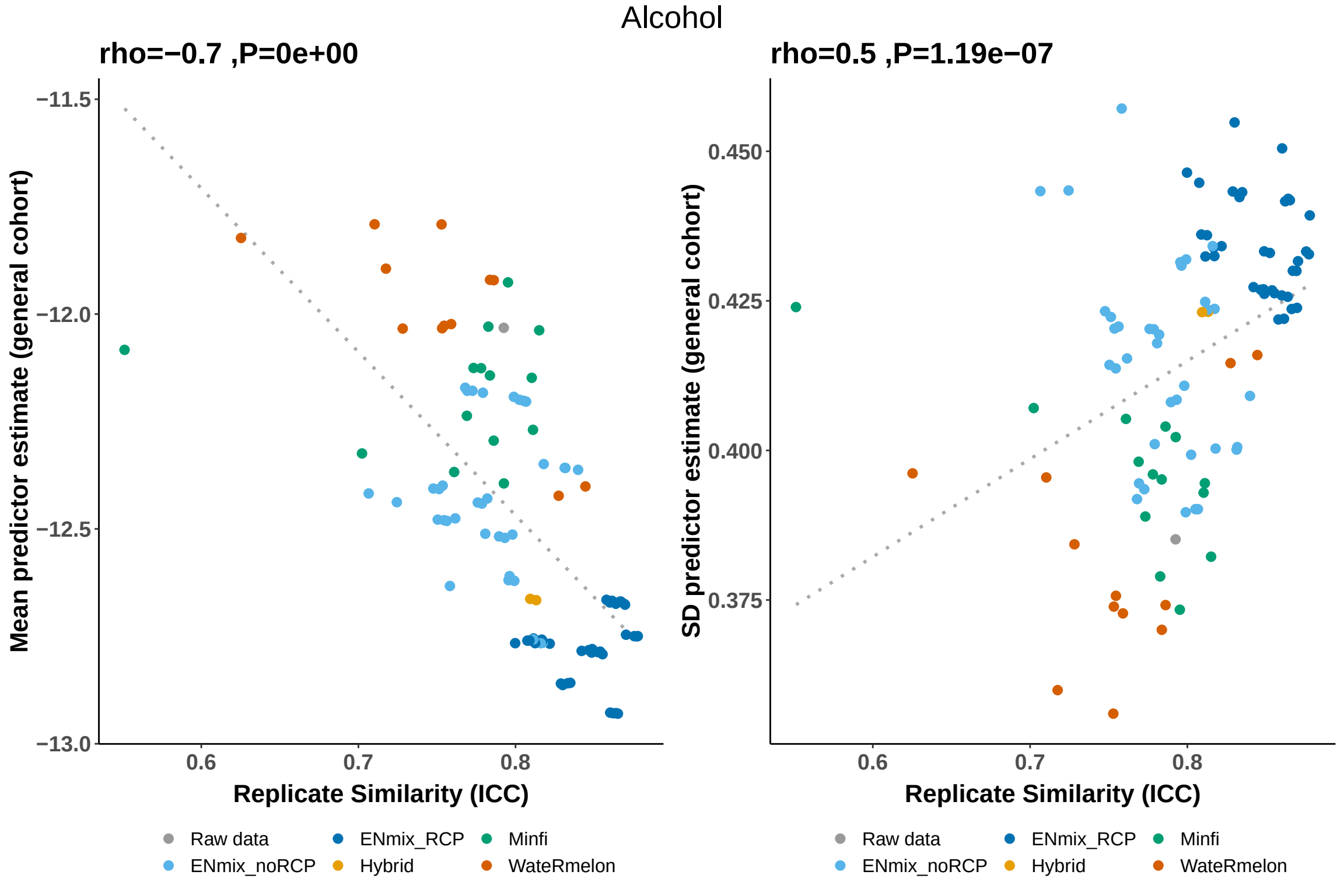

ZhangMortality
rho=0.21 ,P=3.61e−02
rho=0.06 ,P=5.27e−01
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
−0.8
−1.0
−1.2
−1.4
0.50
0.45
0.40
0.35
0.825
0.850
0.875
0.900
0.92
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

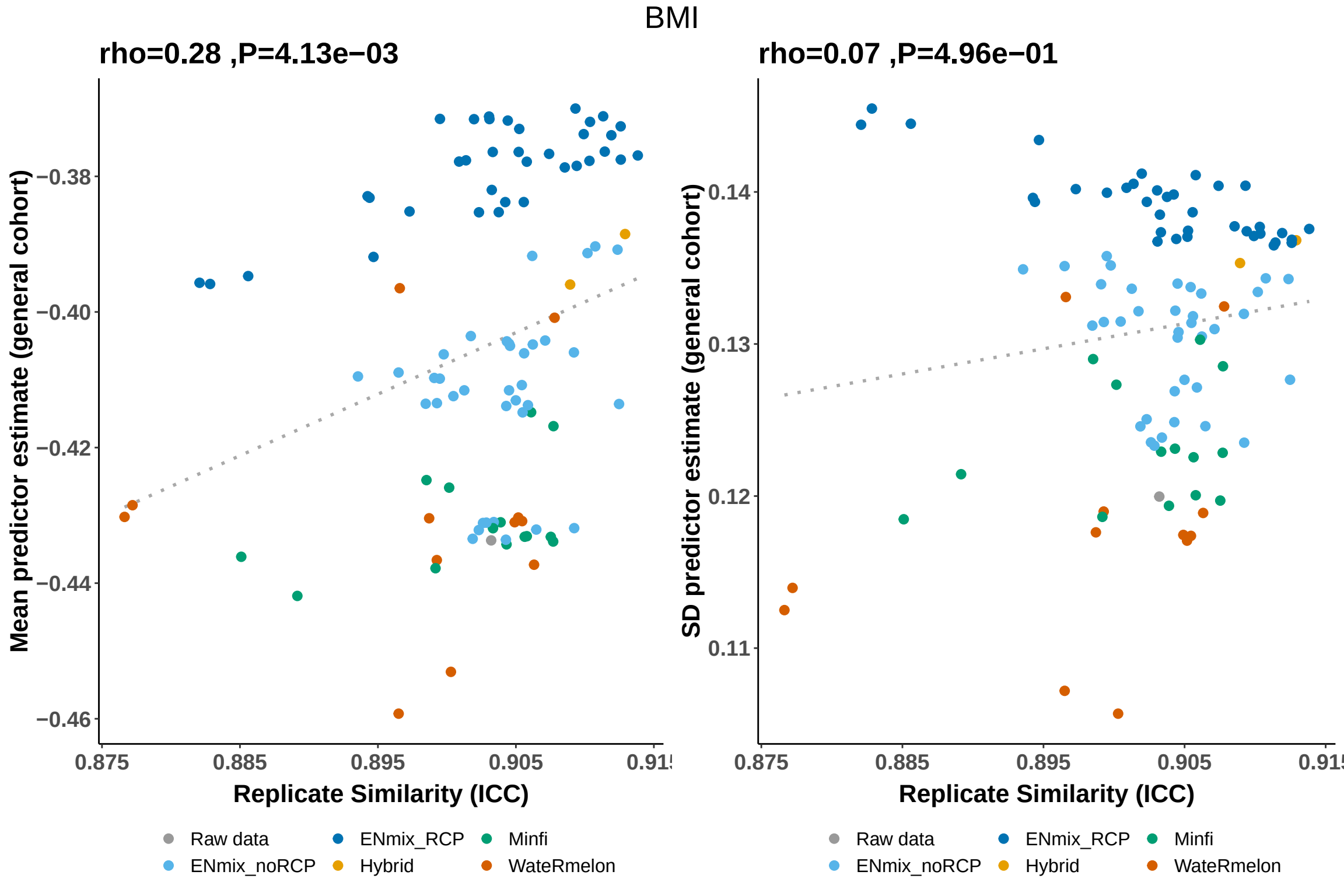

DNAmTL
rho=−0.71 ,P=0e+00
rho=0.79 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
7.4
7.2
7.0
6.8
0.325
0.300
0.275
0.91
0.92
0.93
0.94
0.95
0.96
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

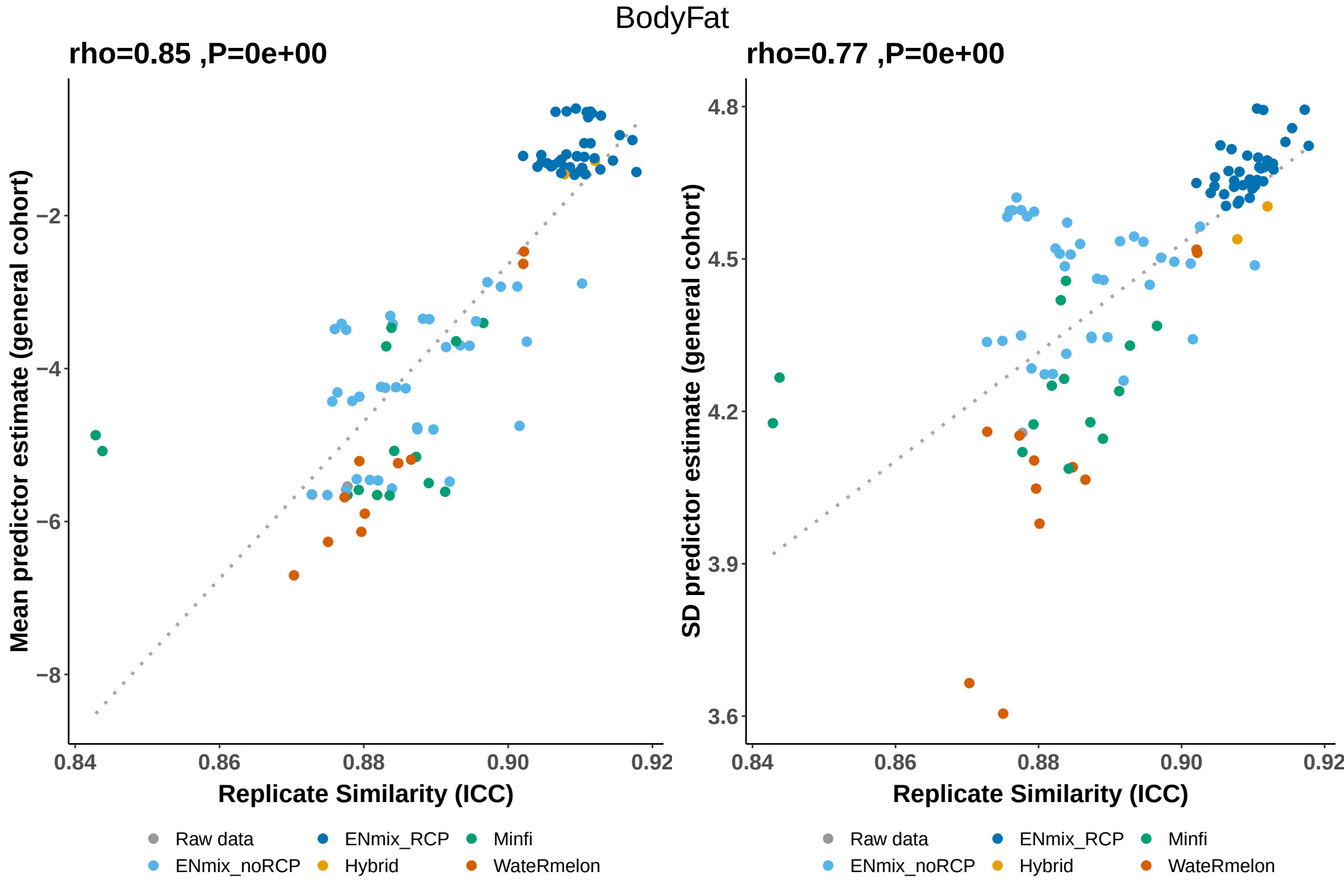

VidalBraloAge
rho=−0.66 ,P=4.32e−14
rho=0.63 ,P=1.12e−12
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
64
60
56
8
7
6
5
0.93
0.94
0.95
Replicate Similarity (ICC)
Raw data
ENmix_noRCP
ENmix_RCP
Hybrid
Minfi
WateRmelon

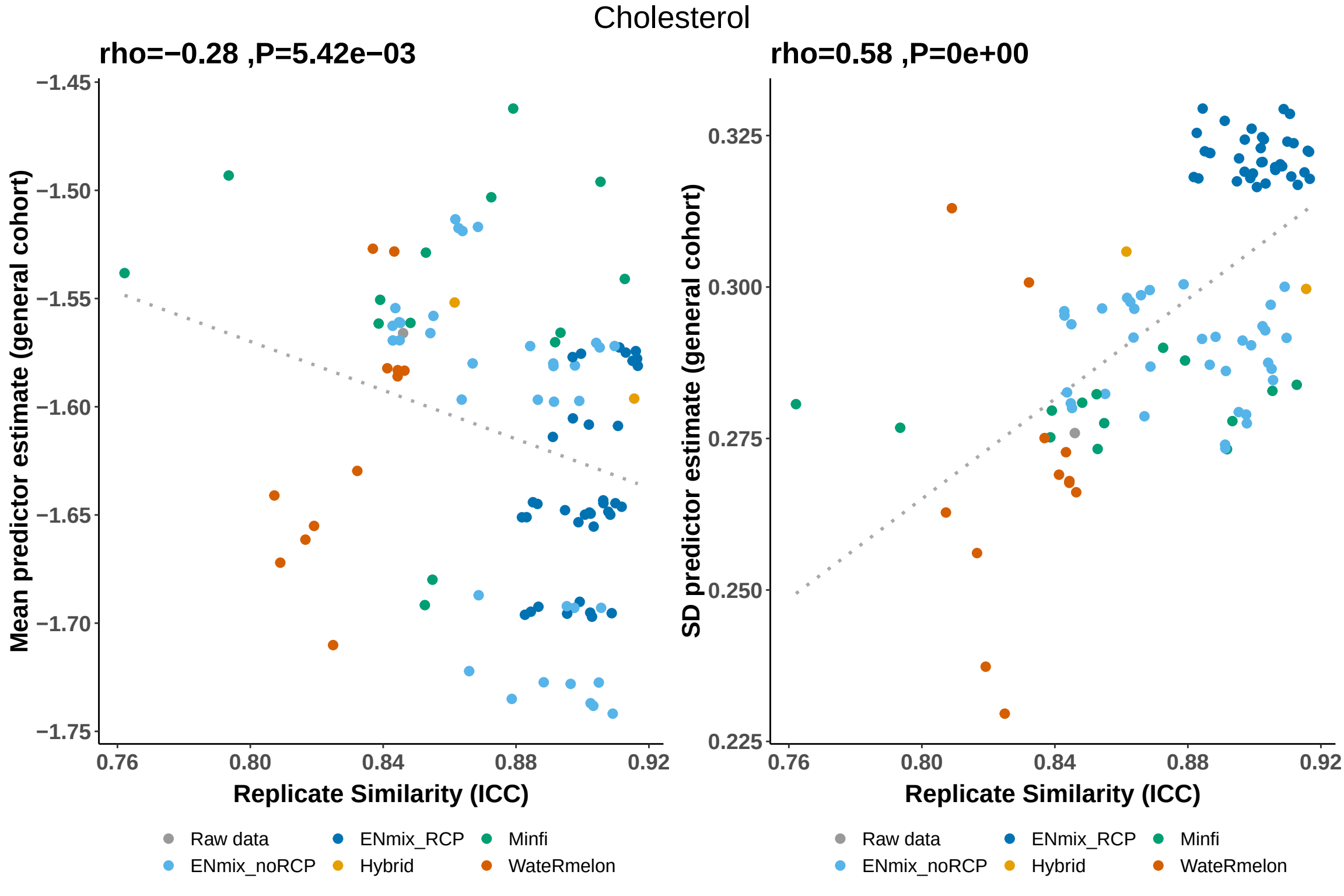

LinAge
rho=−0.38 ,P=1.19e−04
rho=0.45 ,P=3.62e−06
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
Replicate Similarity (ICC)
Replicate Similarity (ICC)
60
55
50
45
40
35
16
14
12
10
0.88
0.90
0.92
0.94
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

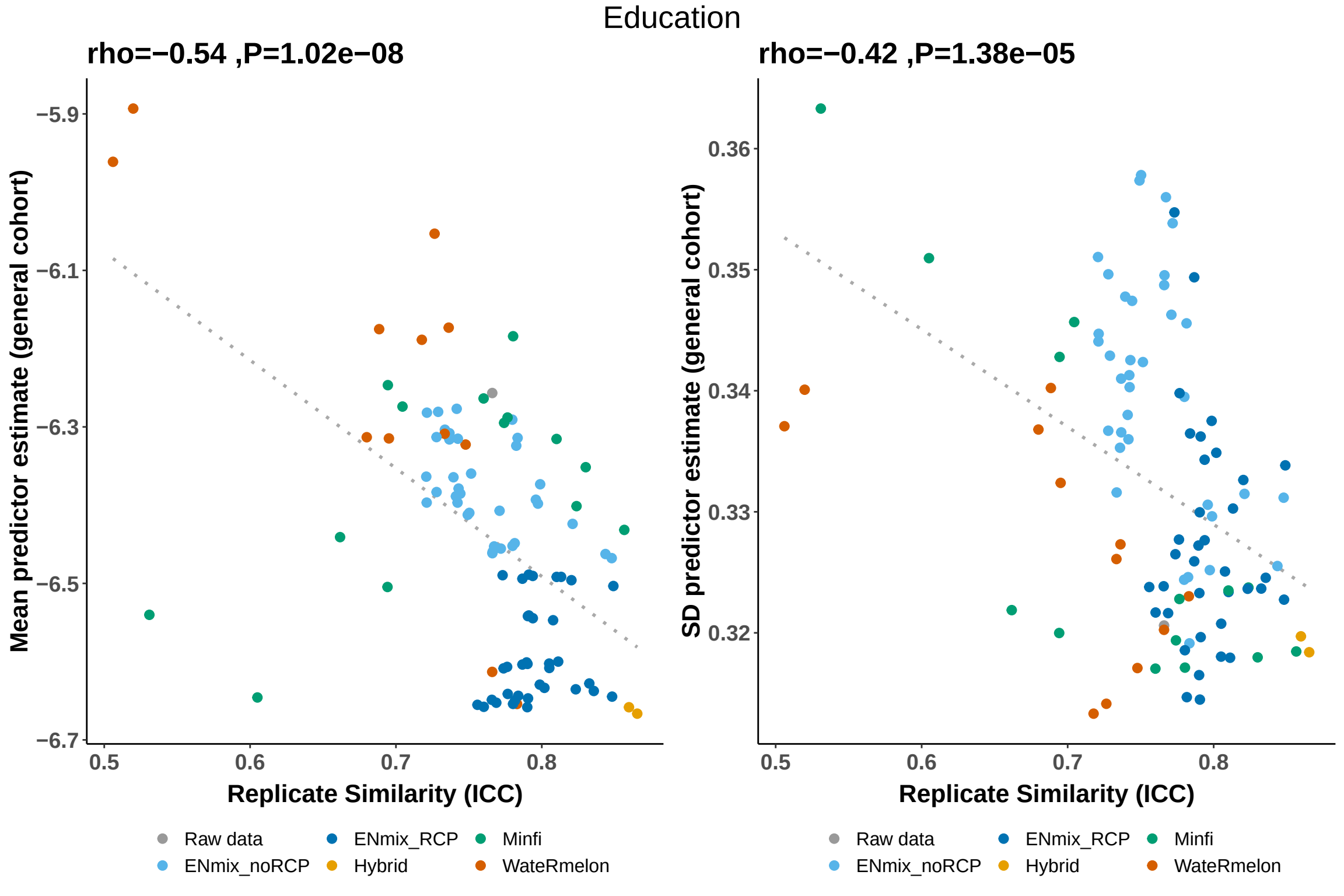

WeidnerAge
rho=−0.35 ,P=3.18e−04
rho=0.37 ,P=1.52e−04
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
Replicate Similarity (ICC)
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

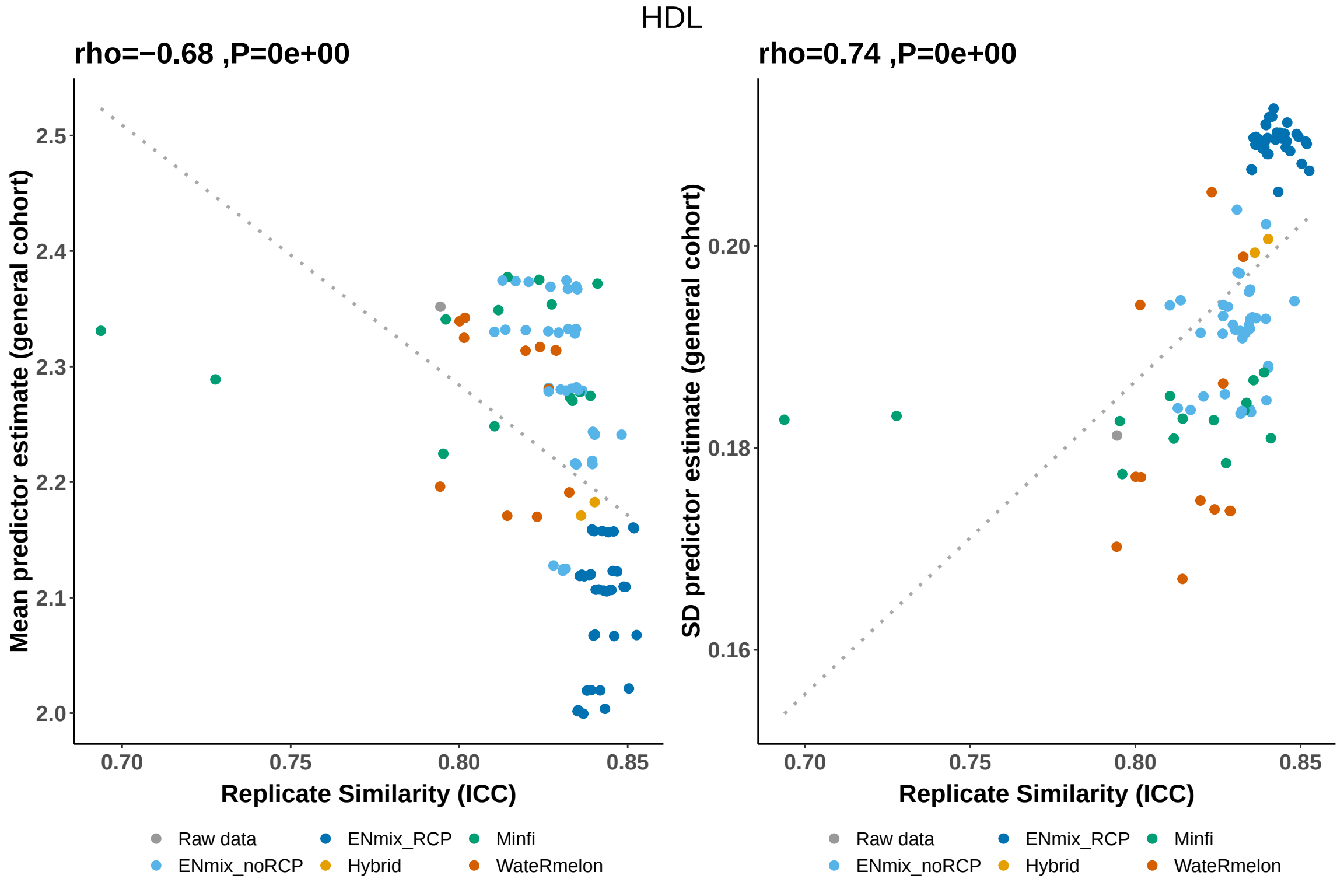

Alcohol
rho=−0.7 ,P=0e+00
rho=0.5 ,P=1.19e−07
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
−11.5
−12.0
−12.5
−13.0
0.450
0.425
0.400
0.375
0.6
0.7
0.8
Replicate Similarity (ICC)
Raw data
ENmix_noRCP
ENmix_RCP
Hybrid
Minfi
WateRmelon

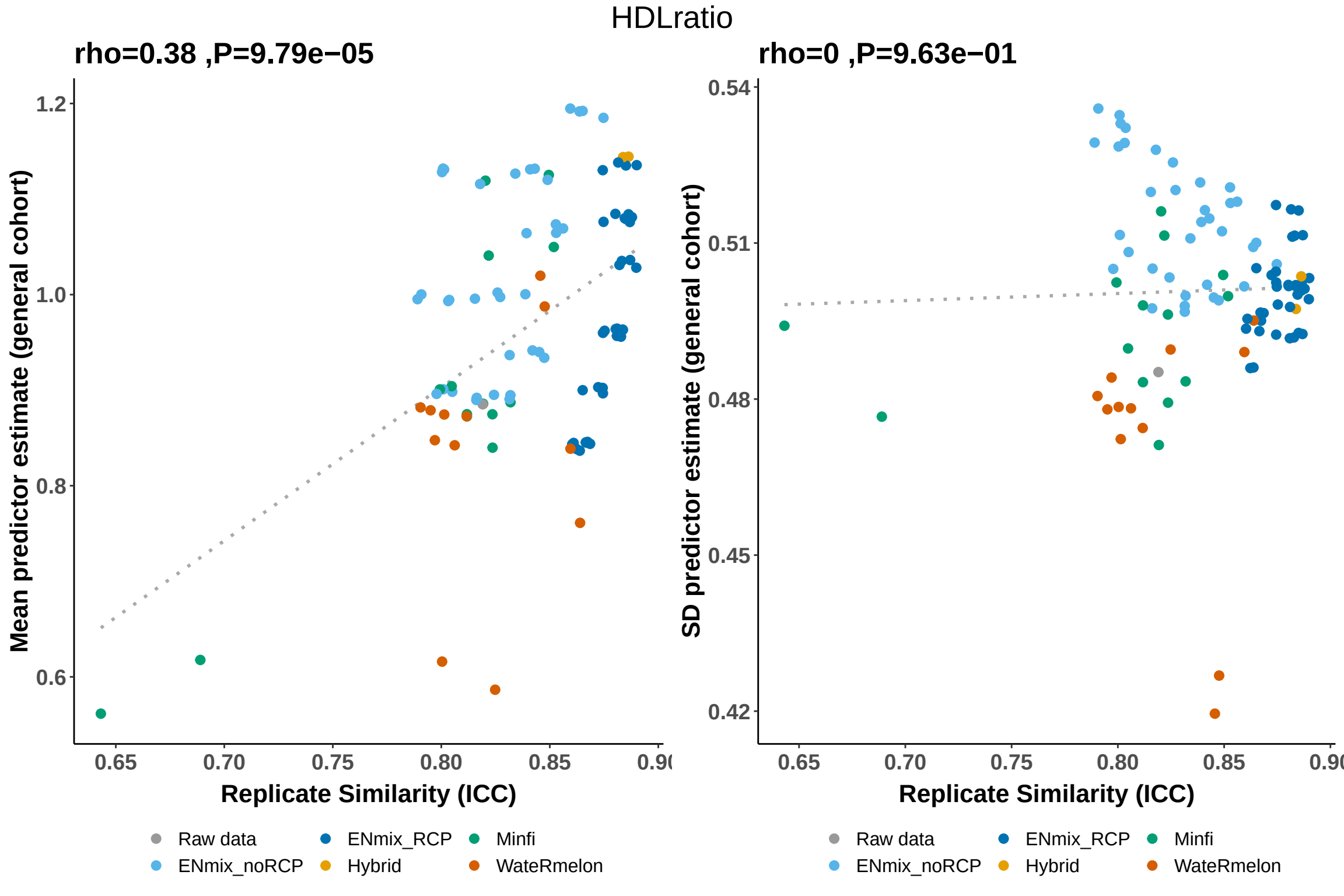

BMI
rho=0.28 ,P=4.13e−03
rho=0.07 ,P=4.96e−01
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
−0.38
−0.40
−0.42
−0.44
−0.46
0.14
0.13
0.12
0.11
0.875
0.885
0.895
0.905
0.915
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

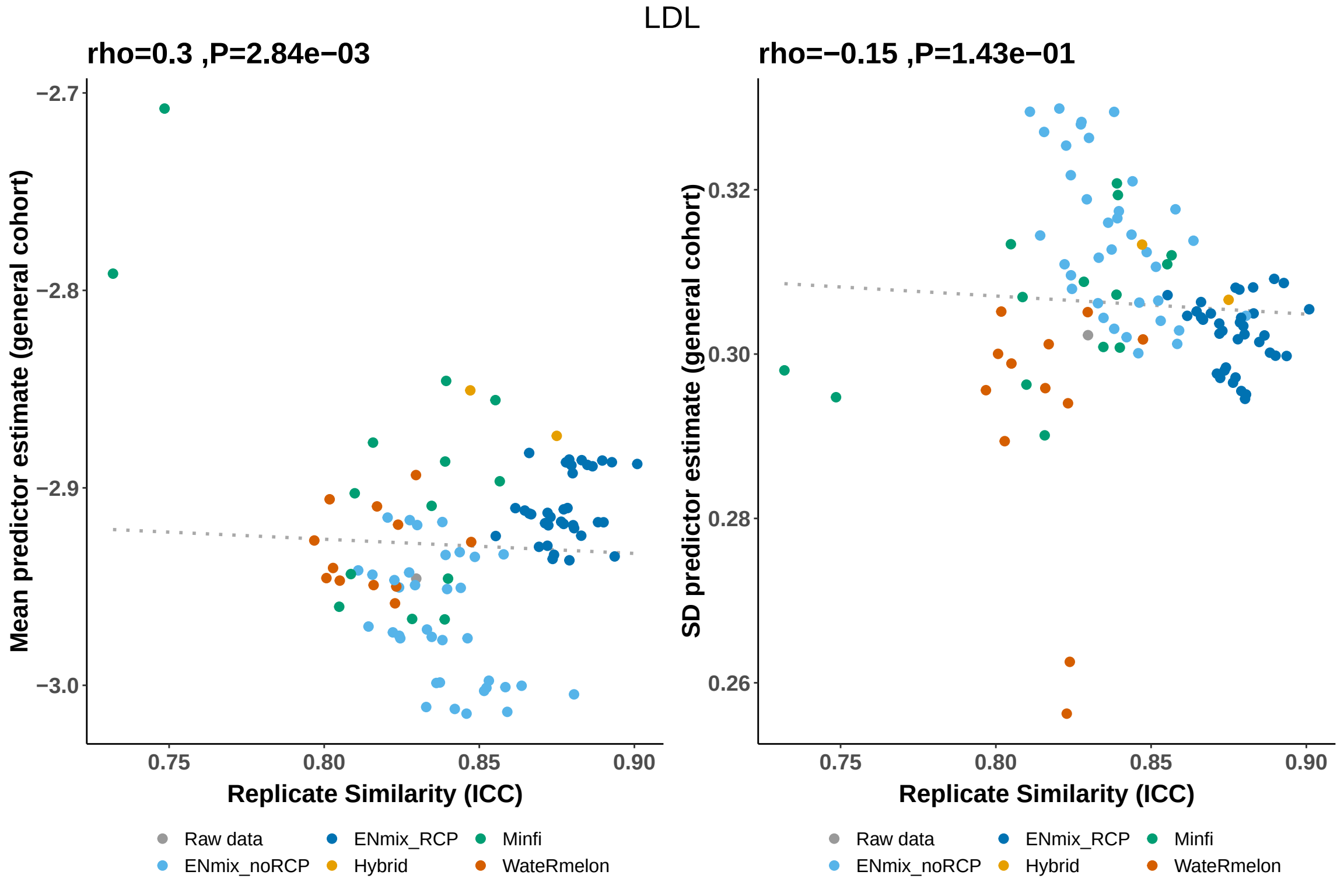

BodyFat
rho=0.85 ,P=0e+00
rho=0.77 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
−2
−4
−6
−8
4.8
4.5
4.2
3.9
3.6
0.84
0.86
0.88
0.90
0.92
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

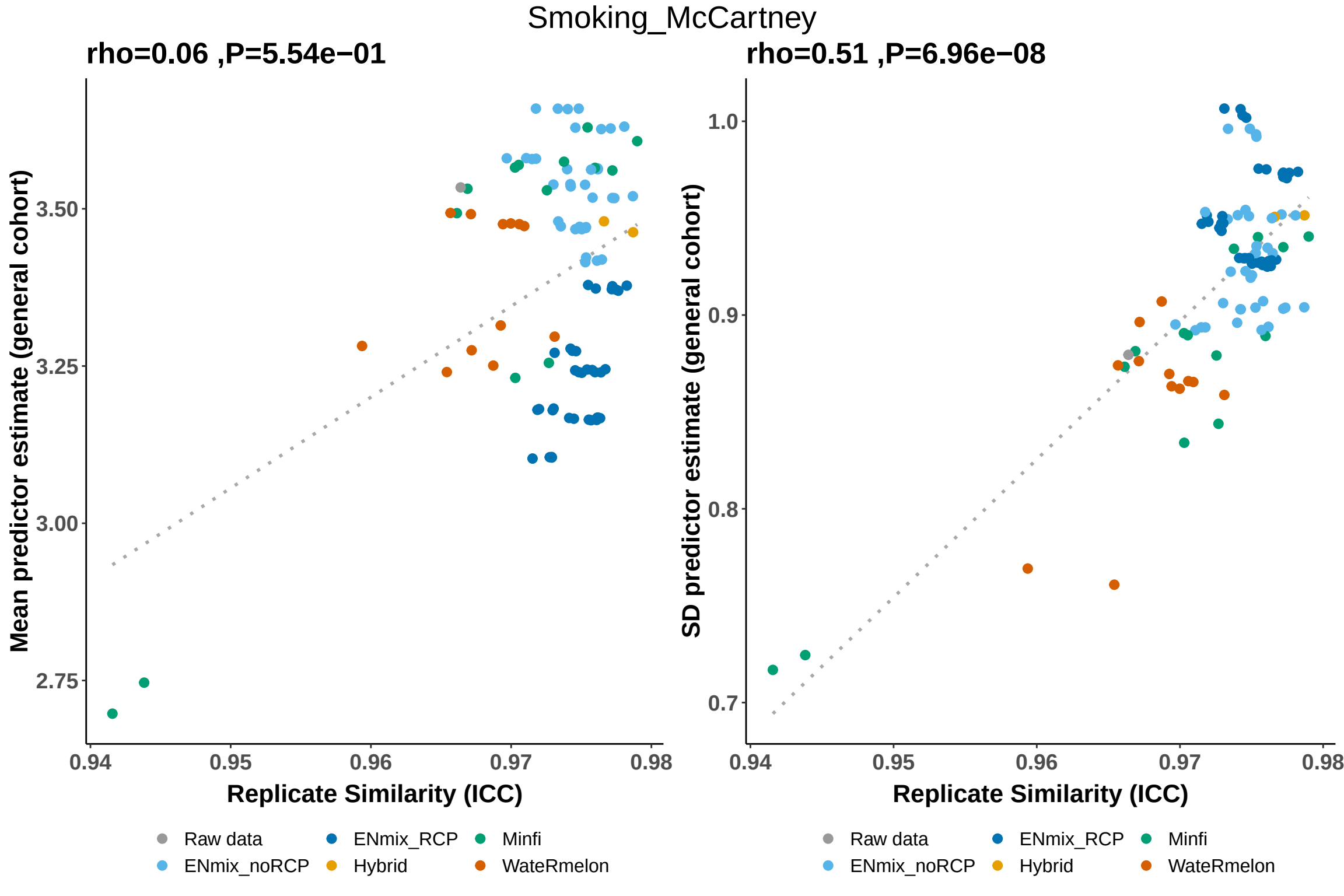

Cholesterol
rho=−0.28 ,P=5.42e−03
rho=0.58 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
Replicate Similarity (ICC)
Replicate Similarity (ICC)
−1.45
−1.50
−1.55
−1.60
−1.65
−1.70
−1.75
0.325
0.300
0.275
0.250
0.225
0.76
0.80
0.84
0.88
0.92
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

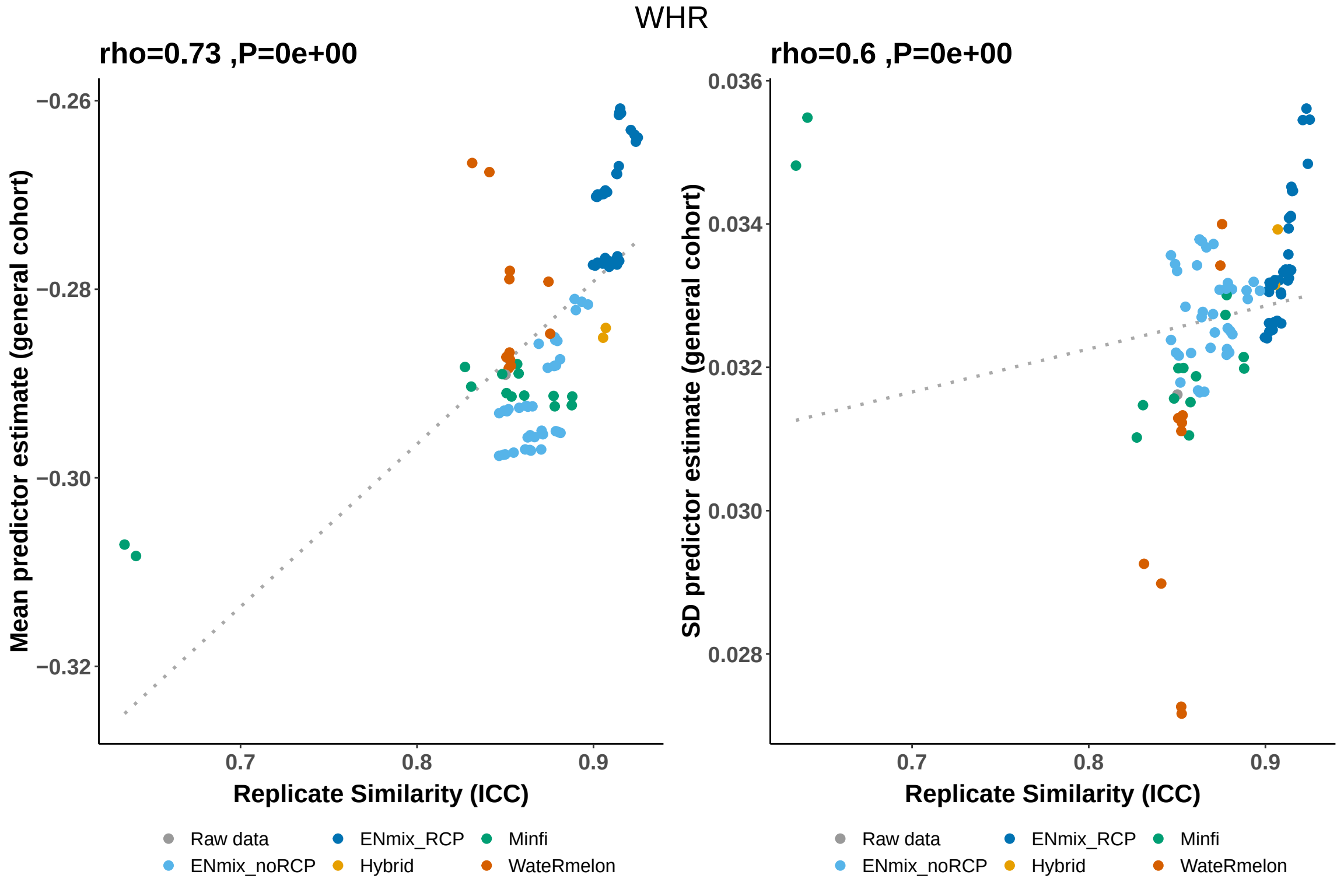

Education
rho=−0.54 ,P=1.02e−08
rho=−0.42 ,P=1.38e−05
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
−5.9
−6.1
−6.3
−6.5
−6.7
0.36
0.35
0.34
0.33
0.32
0.5
0.6
0.7
0.8
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

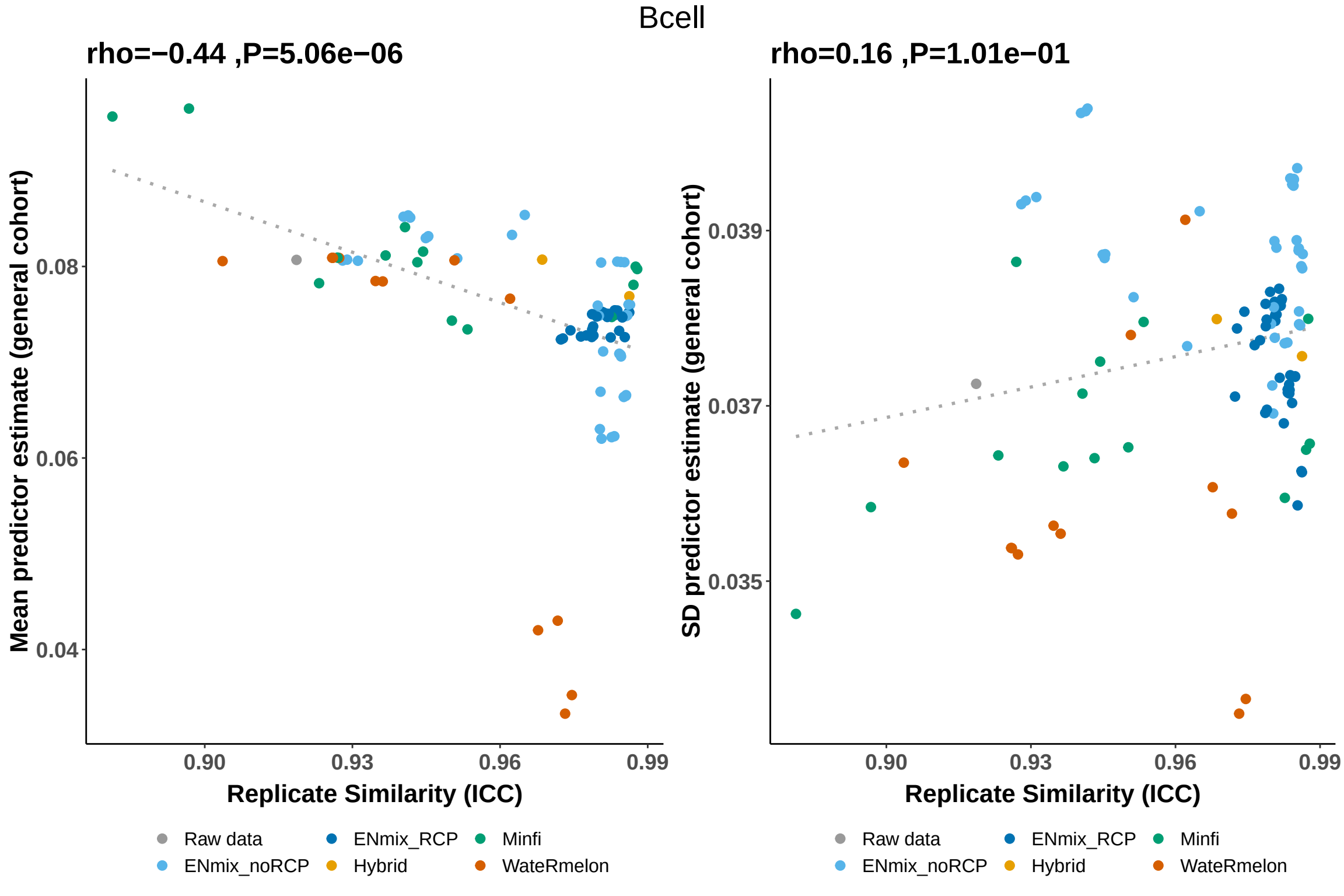

HDL
rho=−0.68 ,P=0e+00
rho=0.74 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
2.5
2.4
2.3
2.2
2.1
2.0
0.20
0.18
0.16
0.70
0.75
0.80
0.85
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

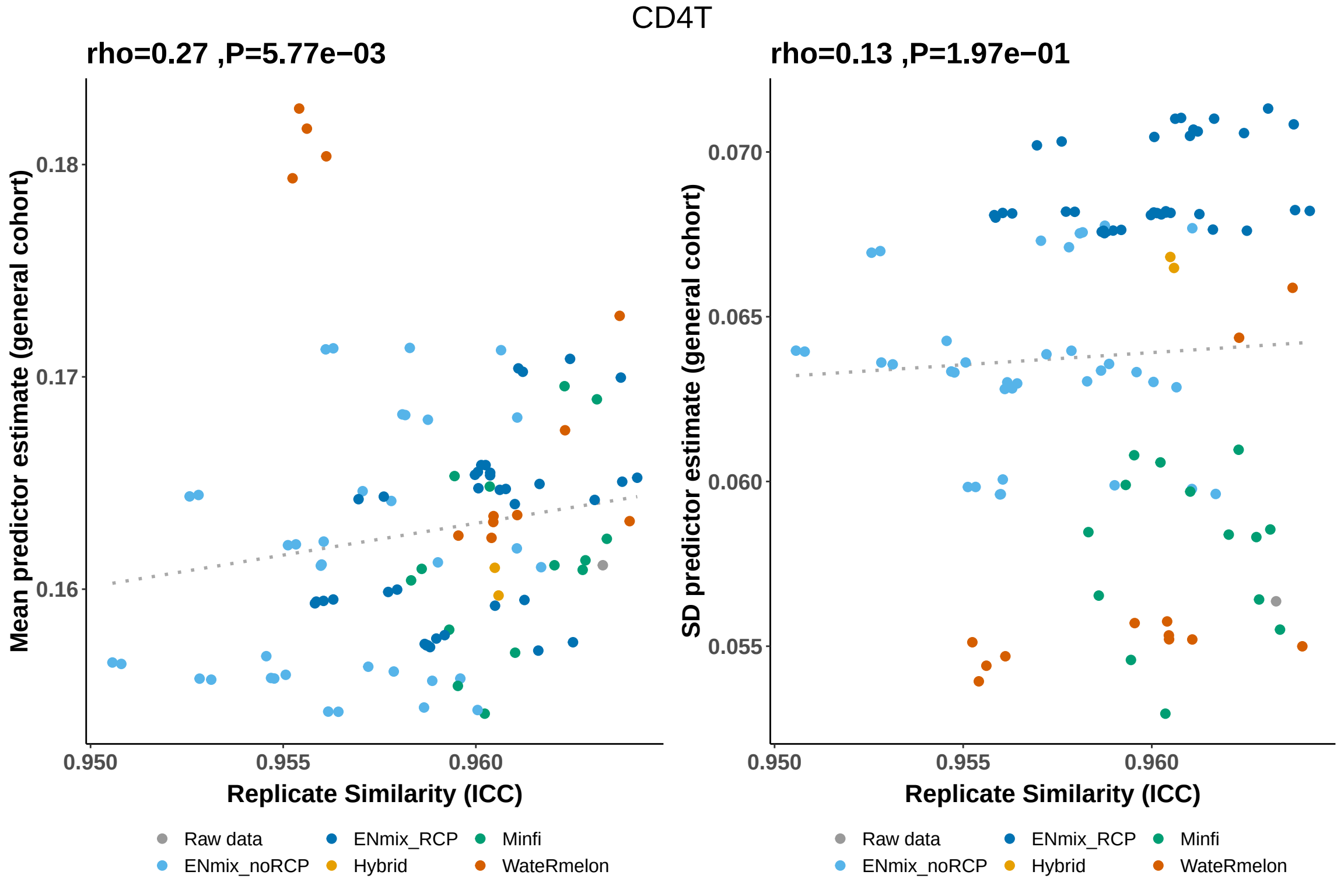

HDLratio
rho=0.38 ,P=9.79e−05
rho=0 ,P=9.63e−01
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
Replicate Similarity (ICC)
Replicate Similarity (ICC)
1.2
1.0
0.8
0.6
0.54
0.51
0.48
0.45
0.42
0.65
0.70
0.75
0.80
0.85
0.90
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

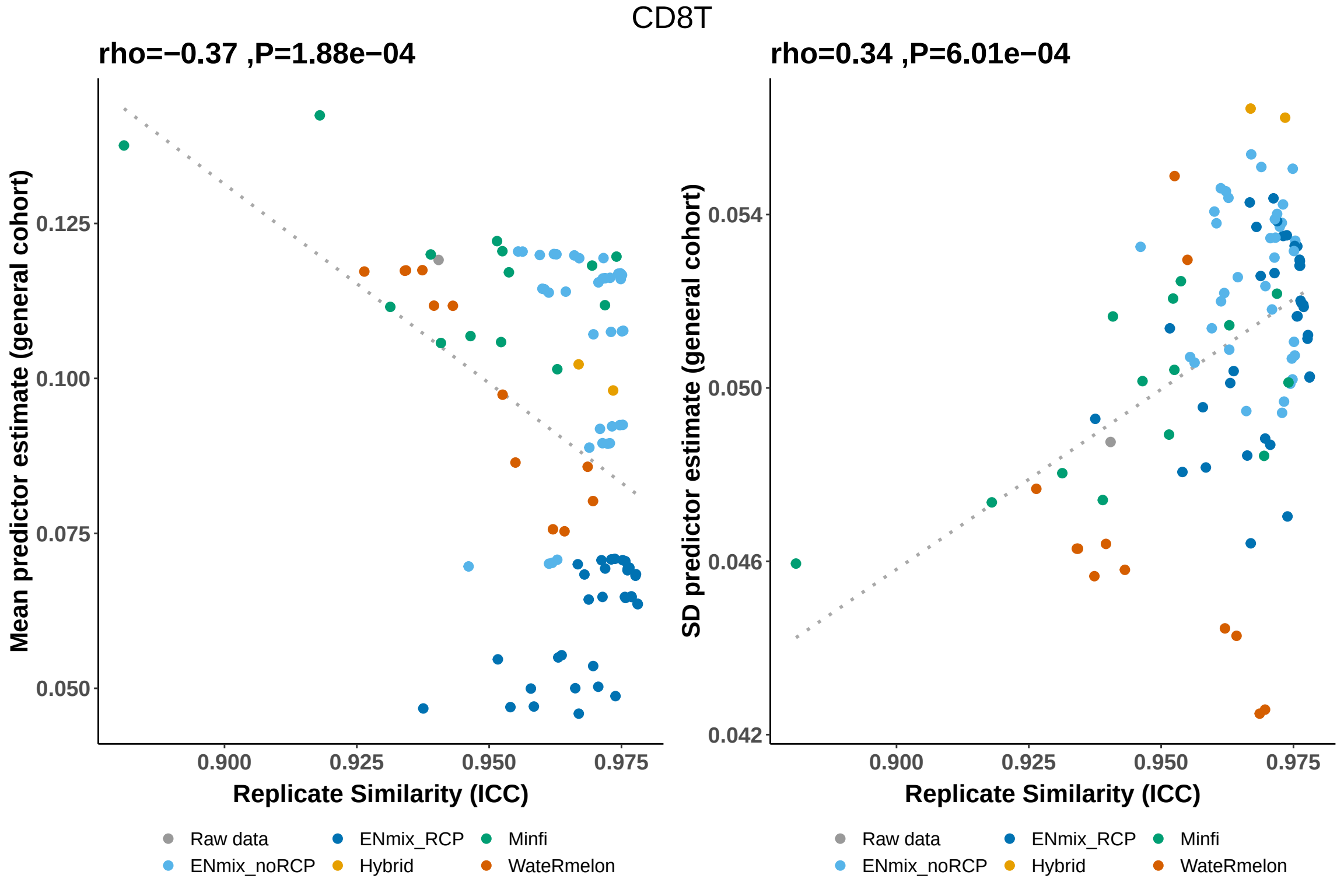

LDL
rho=0.3 ,P=2.84e−03
rho=−0.15 ,P=1.43e−01
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
−2.7
−2.8
−2.9
−3.0
0.32
0.30
0.28
0.26
0.75
0.80
0.85
0.90
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

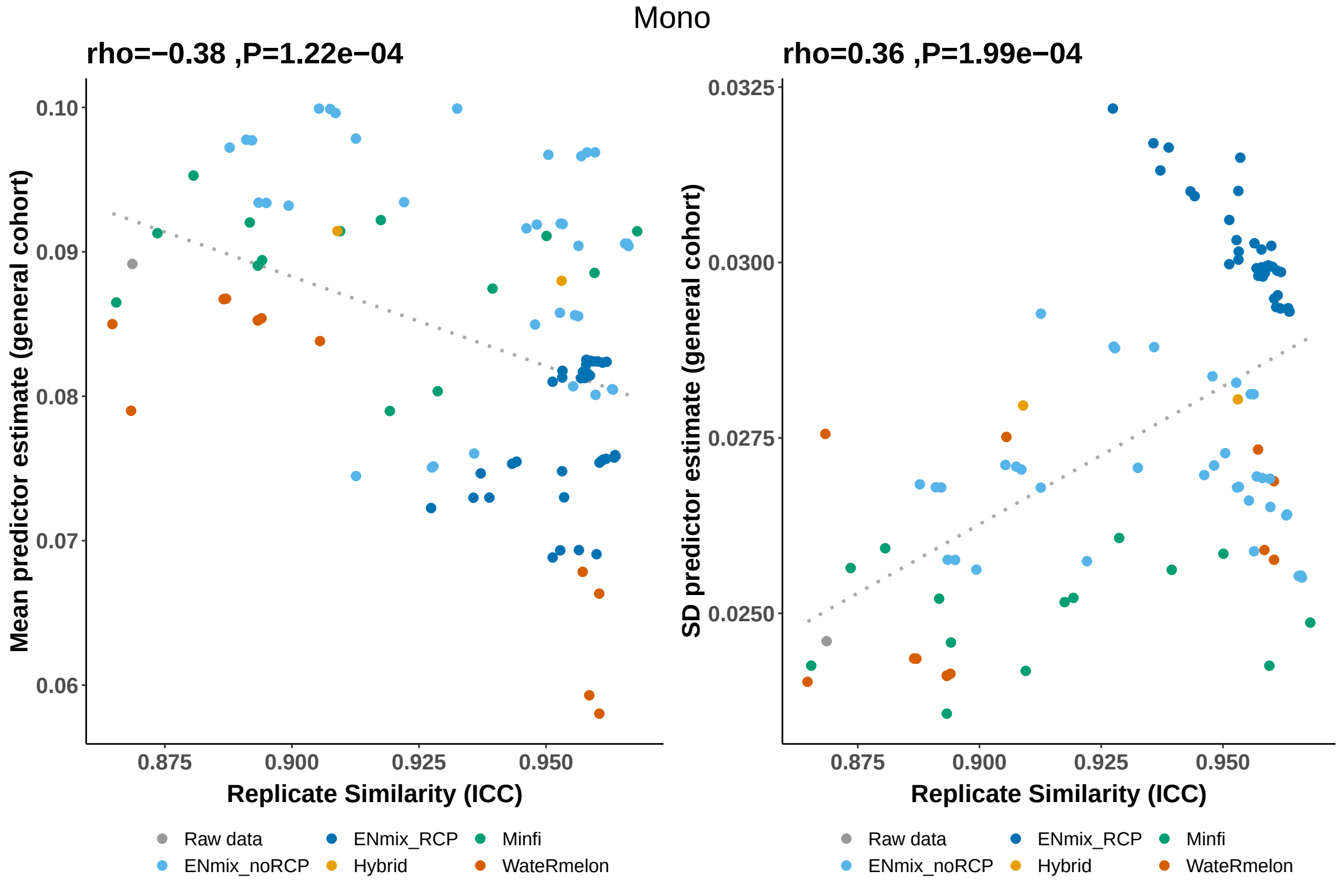

Smoking_McCartney
rho=0.06 ,P=5.54e−01
rho=0.51 ,P=6.96e−08
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
3.50
3.25
3.00
2.75
1.0
0.9
0.8
0.7
0.94
0.95
0.96
0.97
0.98
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

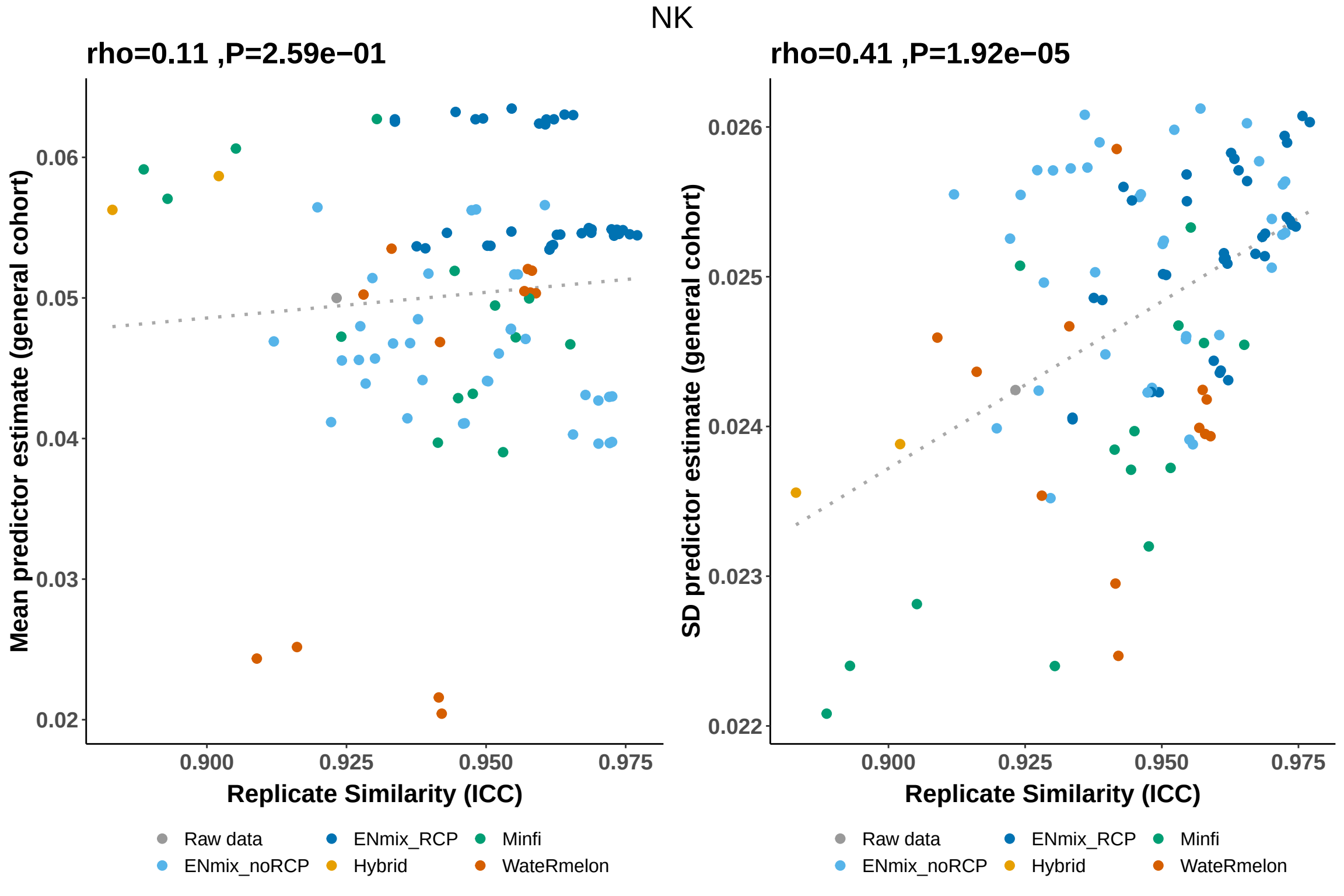

WHR
rho=0.73 ,P=0e+00
rho=0.6 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
−0.26
−0.28
−0.30
−0.32
0.036
0.034
0.032
0.030
0.028
0.7
0.8
0.9
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

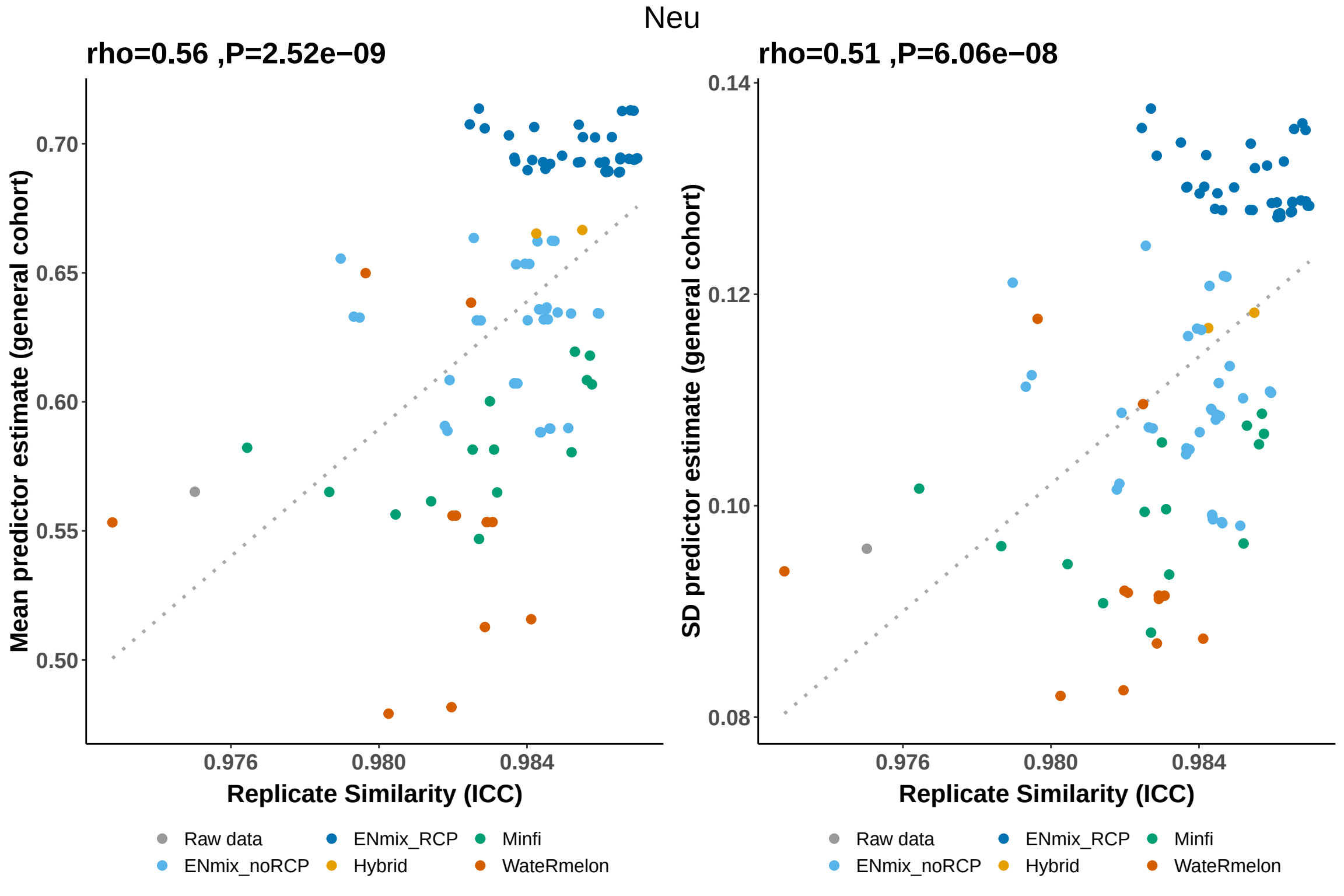

Bcell
rho=−0.44 ,P=5.06e−06
rho=0.16 ,P=1.01e−01
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
0.08
0.06
0.04
0.039
0.037
0.035
0.90
0.93
0.96
0.99
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

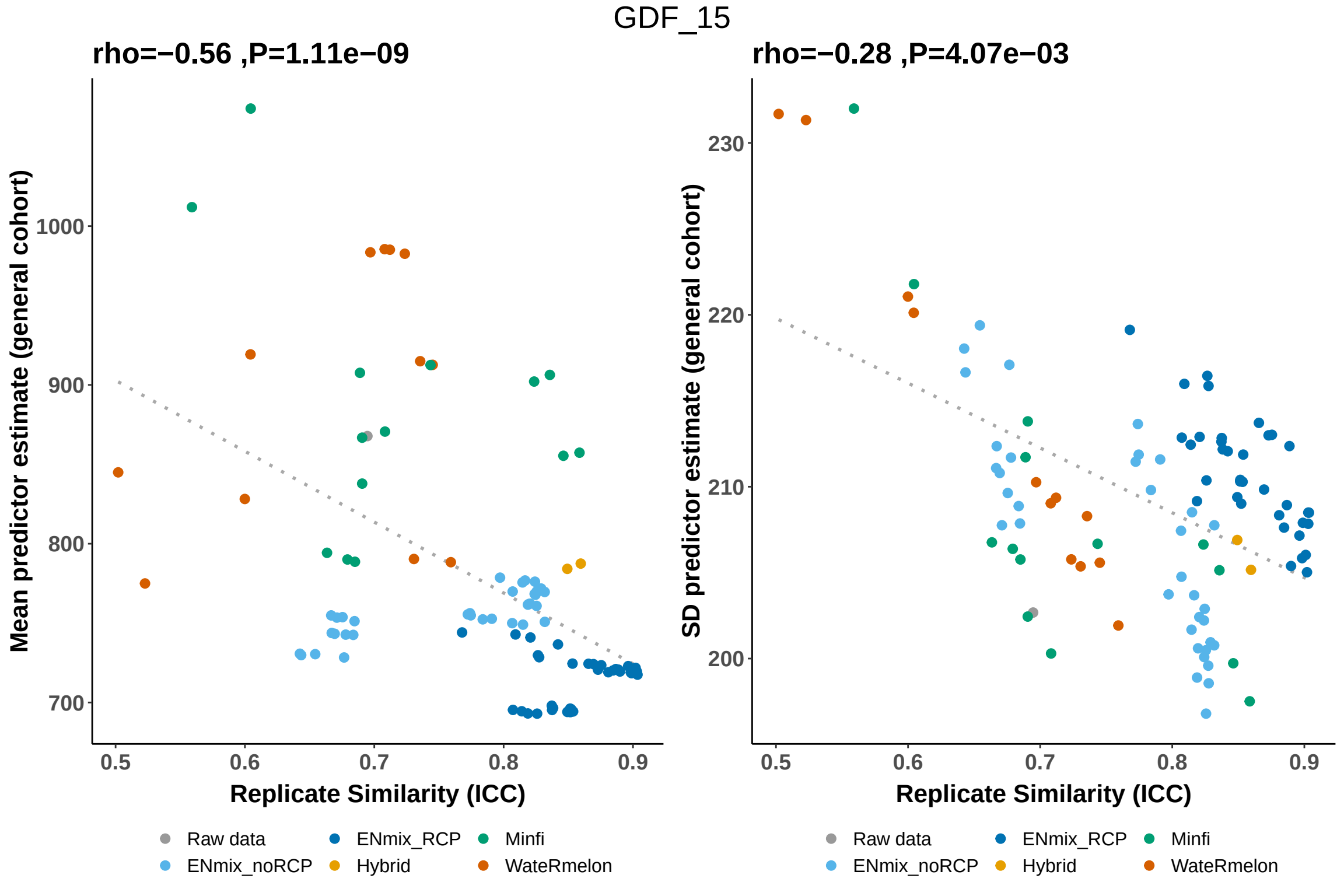

CD4T
rho=0.27 ,P=5.77e−03
rho=0.13 ,P=1.97e−01
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
0.18
0.17
0.16
0.070
0.065
0.060
0.055
0.950
0.955
0.960
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

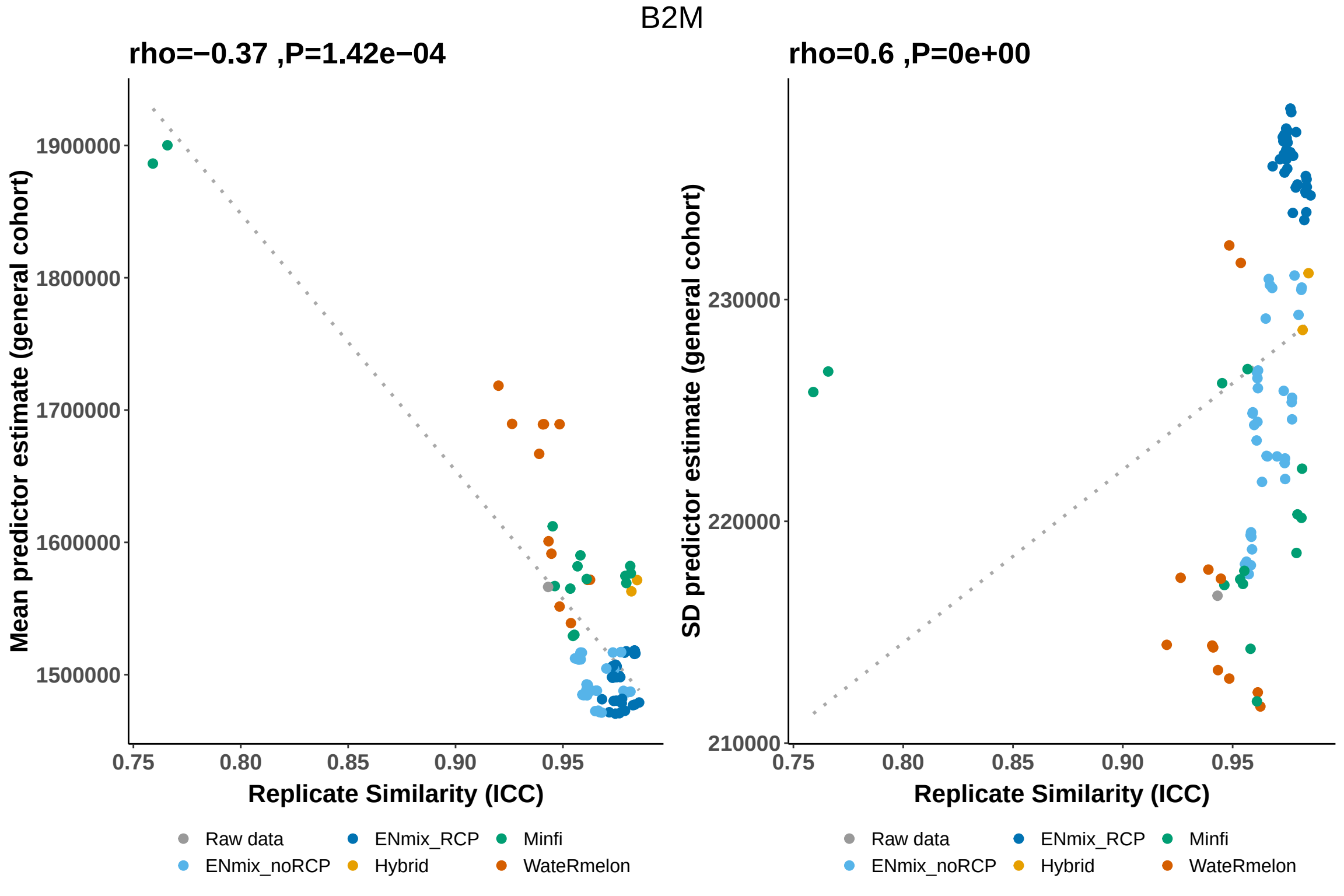

CD8T
rho=−0.37 ,P=1.88e−04
rho=0.34 ,P=6.01e−04
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
0.125
0.100
0.075
0.050
0.054
0.050
0.046
0.042
0.900
0.925
0.950
0.975
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

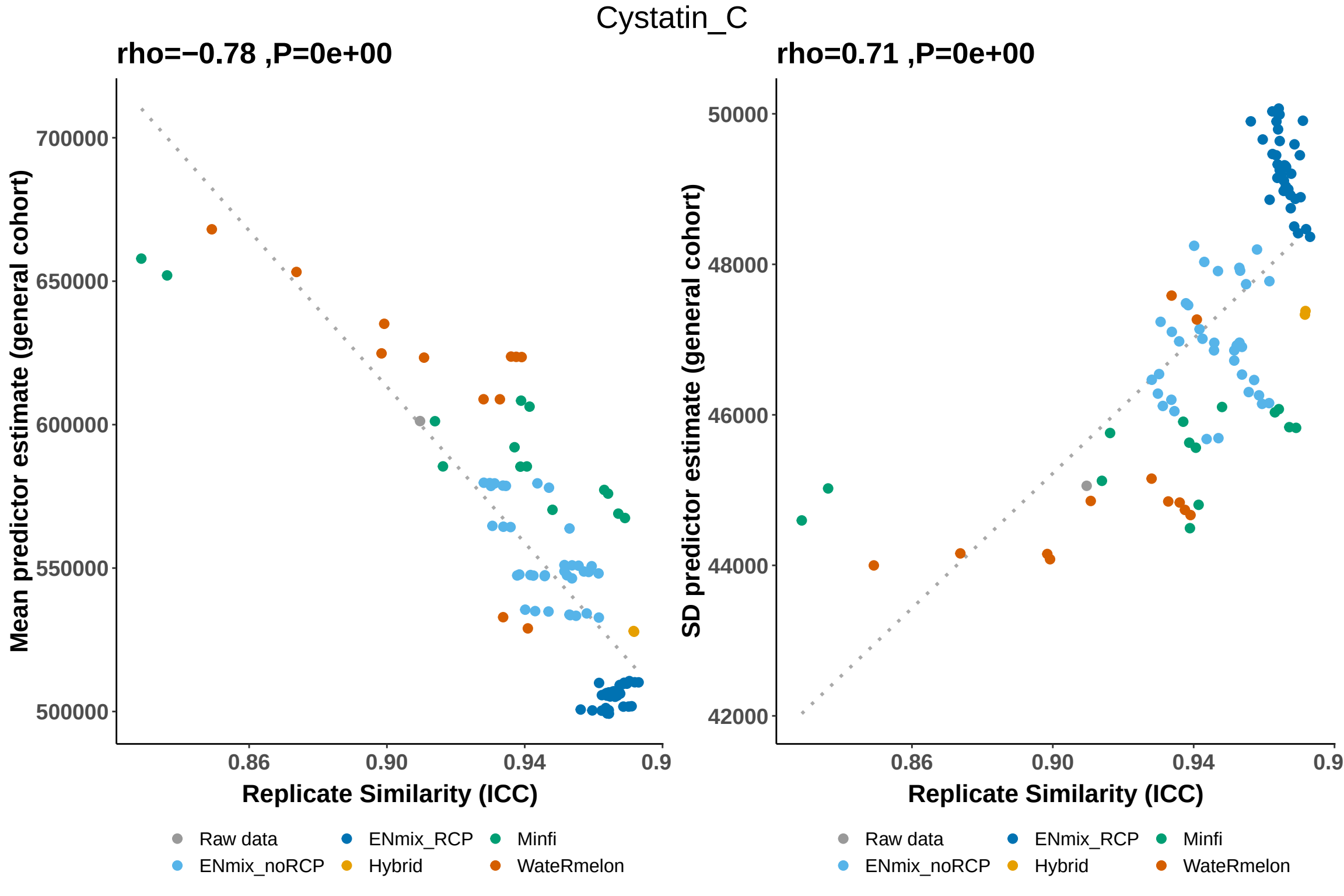

Mono
rho=−0.38 ,P=1.22e−04
rho=0.36 ,P=1.99e−04
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
0.10
0.09
0.08
0.07
0.06
0.0325
0.0300
0.0275
0.0250
0.875
0.900
0.925
0.950
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

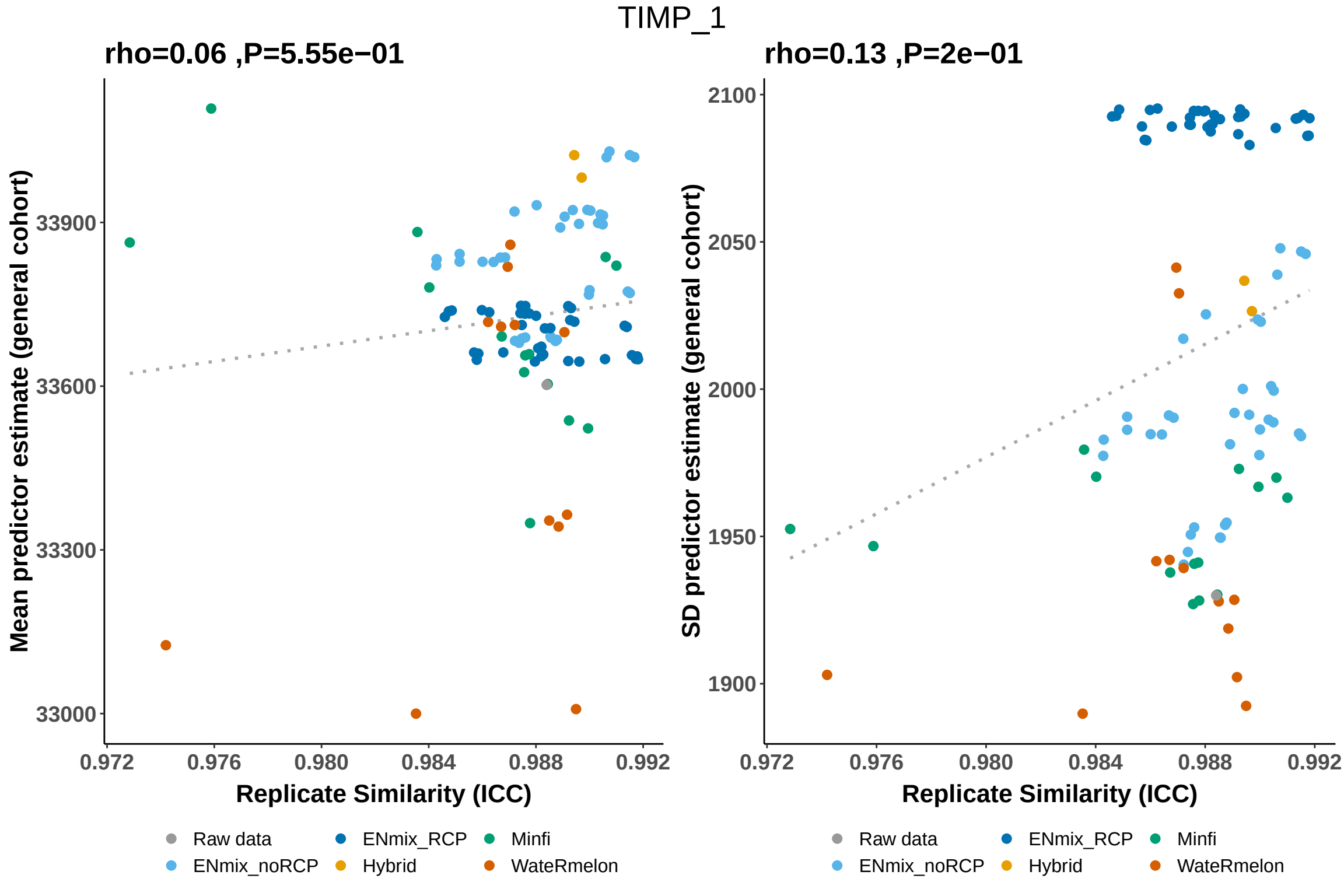

NK
rho=0.11 ,P=2.59e−01
rho=0.41 ,P=1.92e−05
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
0.06
0.05
0.04
0.03
0.02
0.026
0.025
0.024
0.023
0.022
0.900
0.925
0.950
0.975
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

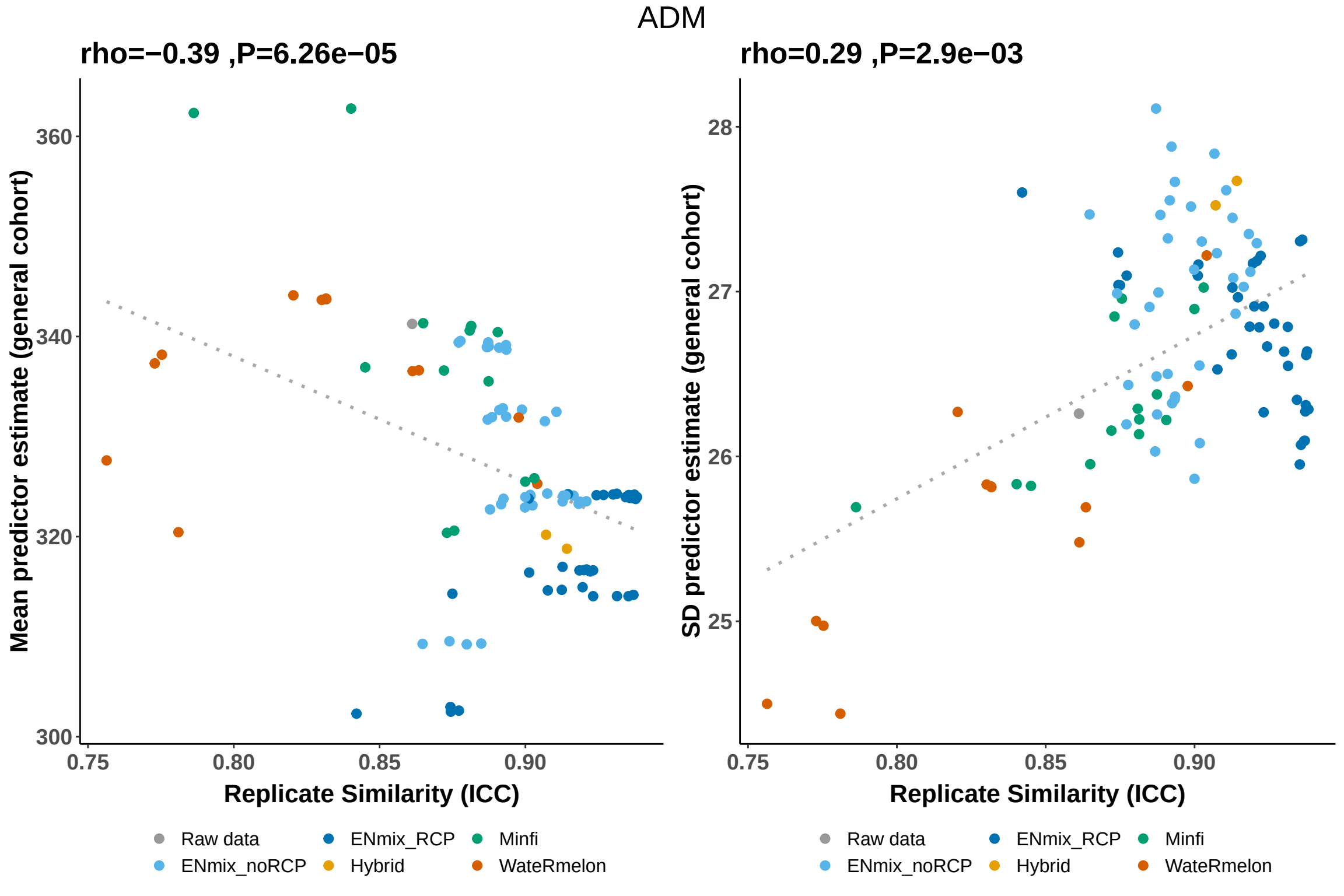

Neu
rho=0.56 ,P=2.52e−09
rho=0.51 ,P=6.06e−08
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
0.70
0.65
0.60
0.55
0.50
0.14
0.12
0.10
0.08
0.976
0.980
0.984
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

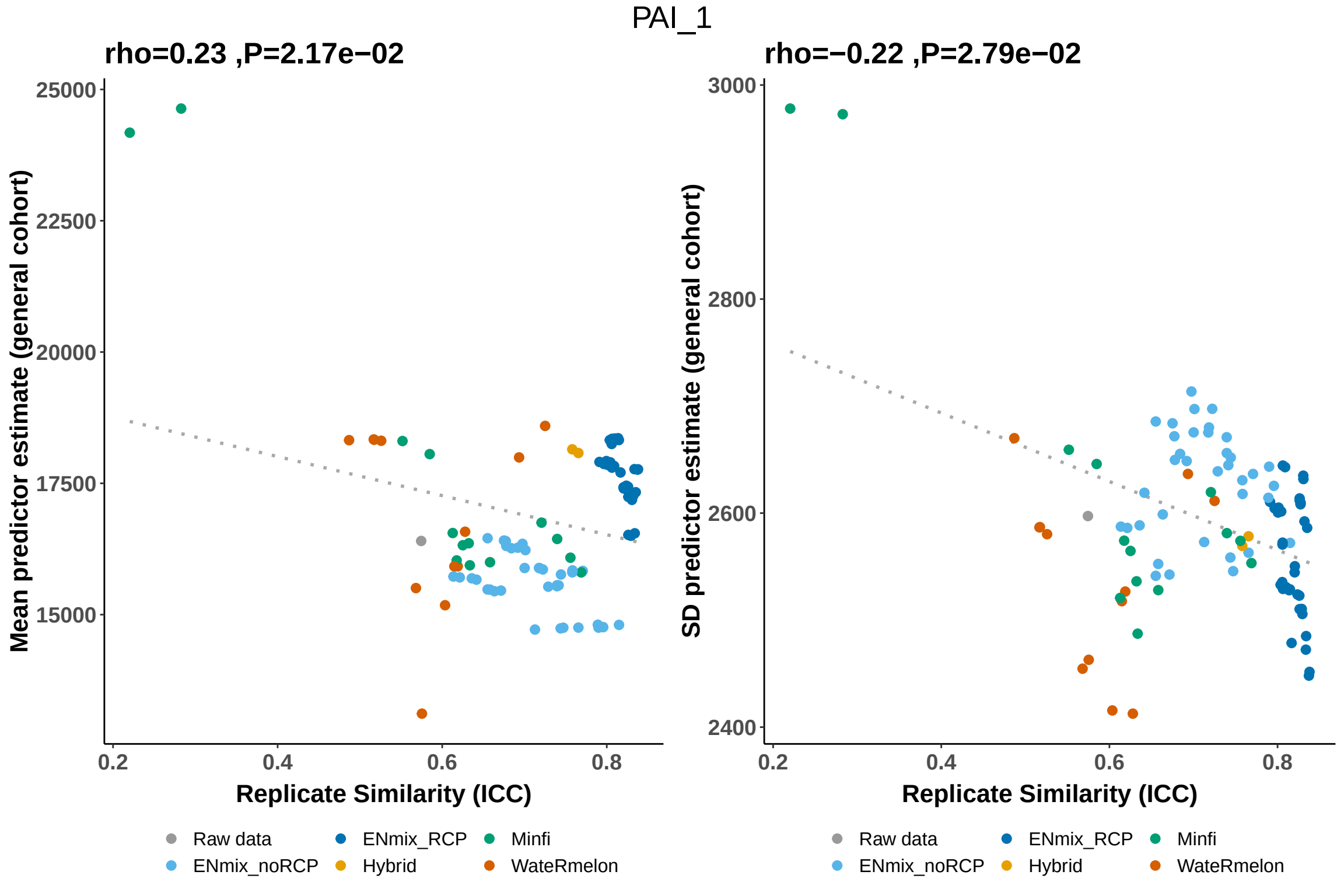

GDF_15
rho=−0.56 ,P=1.11e−09
rho=−0.28 ,P=4.07e−03
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
1000
900
800
700
230
220
210
200
0.5
0.6
0.7
0.8
0.9
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

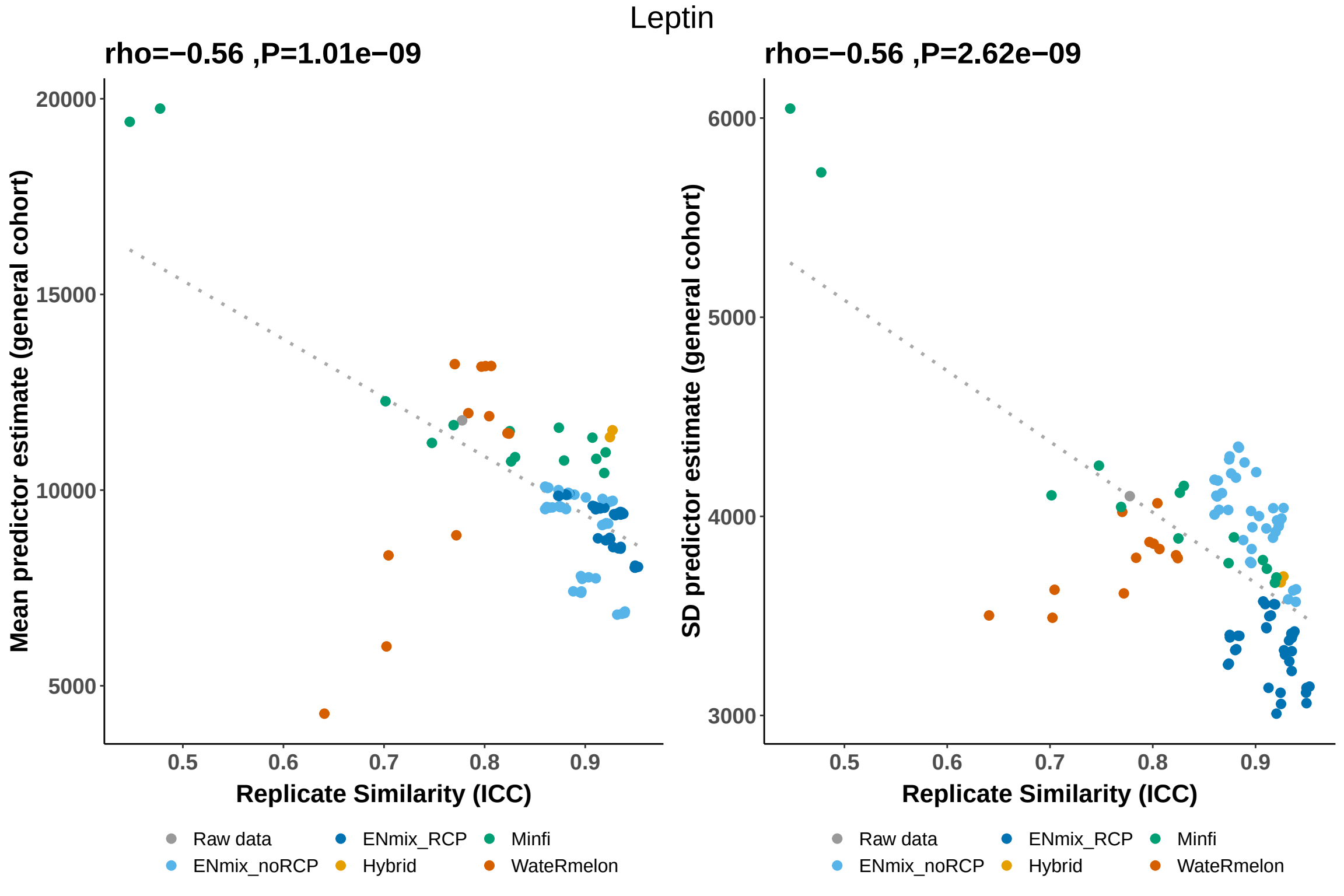

B2M
rho=−0.37 ,P=1.42e−04
rho=0.6 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
1900000
1800000
1700000
1600000
1500000
230000
220000
210000
0.75
0.80
0.85
0.90
0.95
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

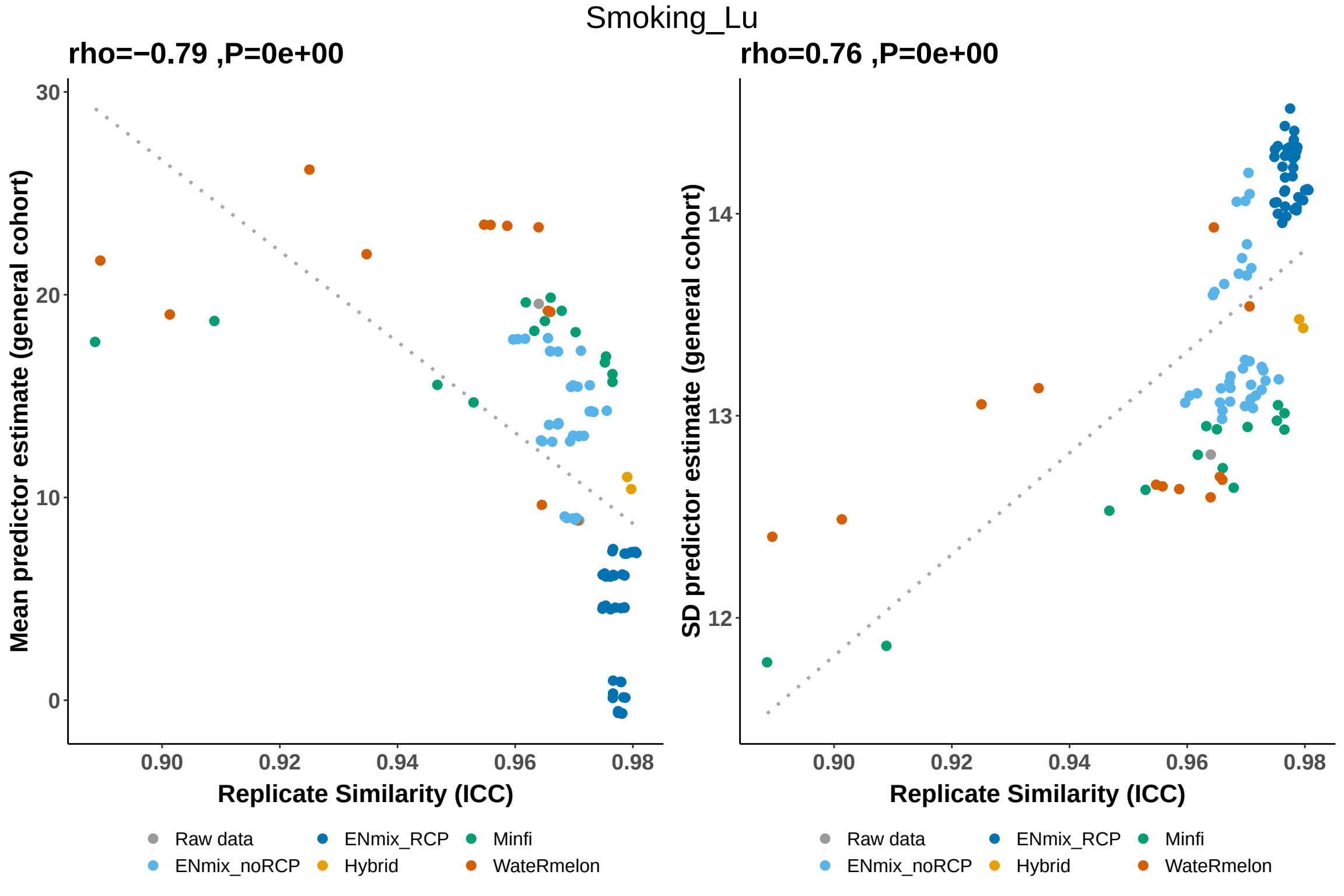

Cystatin_C
rho=−0.78 ,P=0e+00
rho=0.71 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
700000
650000
600000
550000
500000
50000
48000
46000
44000
42000
0.86
0.90
0.94
0.9
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

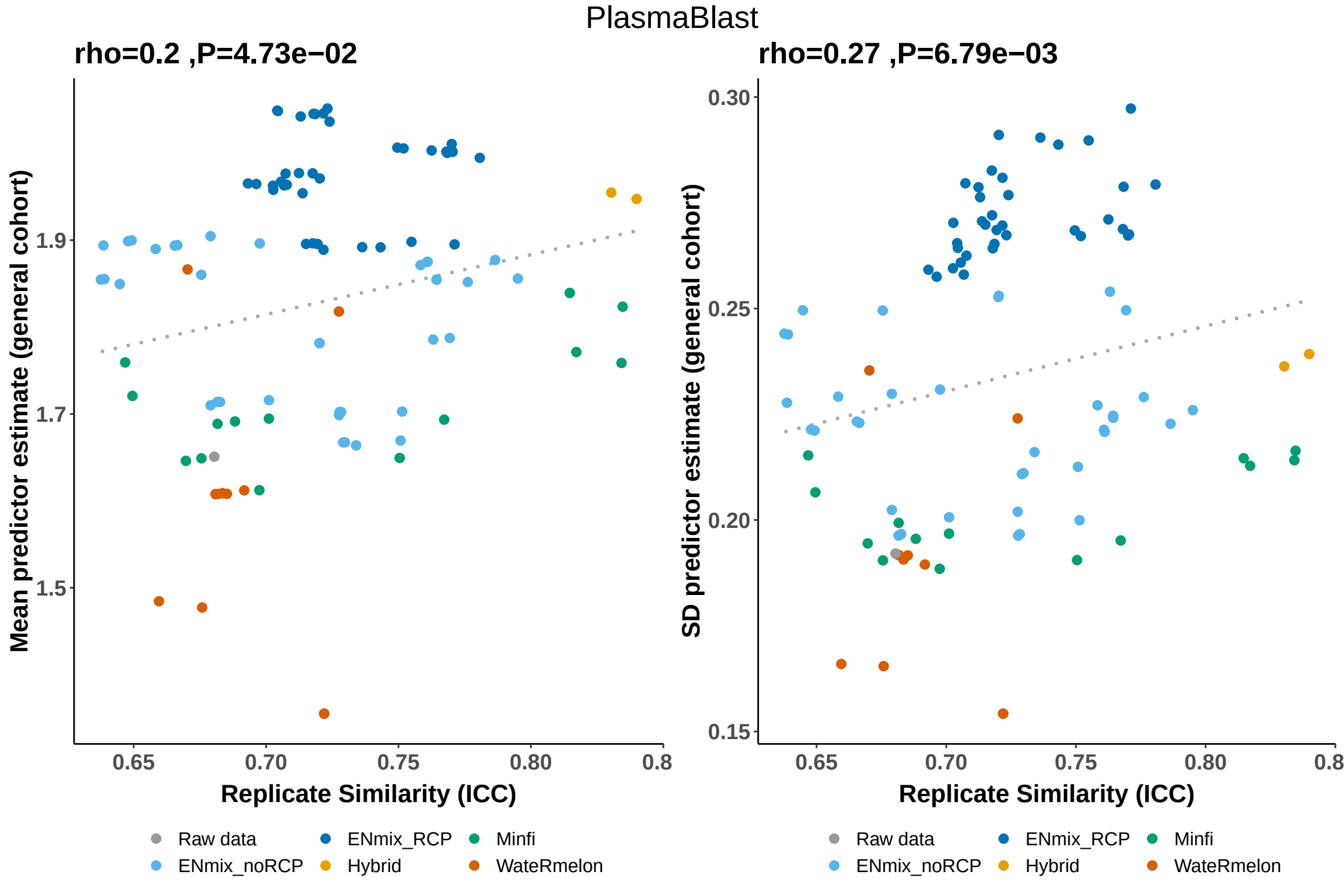

TIMP_1
rho=0.06 ,P=5.55e−01
rho=0.13 ,P=2e−01
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
33900
33600
33300
33000
2100
2050
2000
1950
1900
0.972
0.976
0.980
0.984
0.988
0.992
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

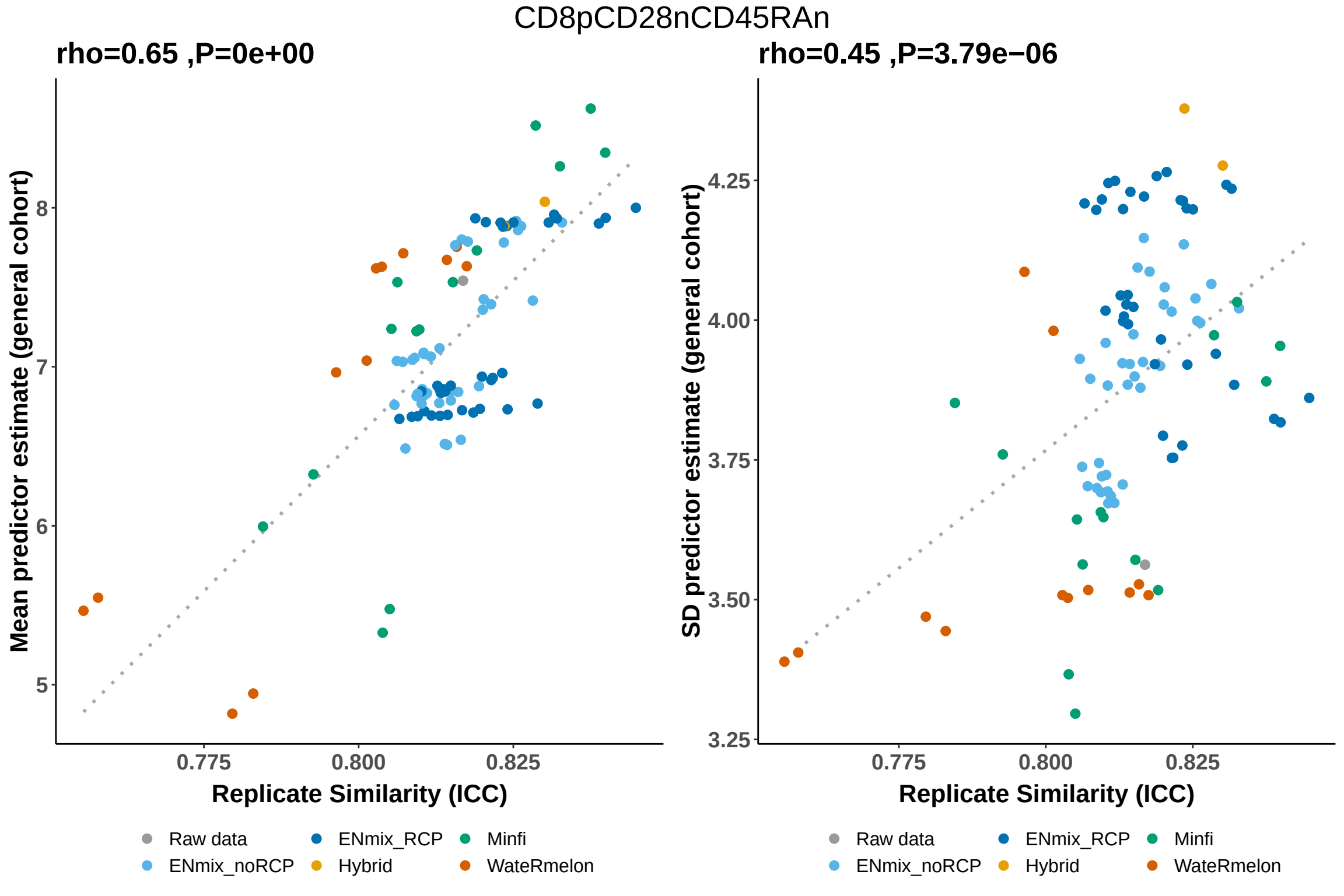

ADM
rho=−0.39 ,P=6.26e−05
rho=0.29 ,P=2.9e−03
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
Replicate Similarity (ICC)
Replicate Similarity (ICC)
360
340
320
300
28
27
26
25
0.75
0.80
0.85
0.90
Raw data
ENmix_noRCP
ENmix_RCP
Hybrid
Minfi
WateRmelon

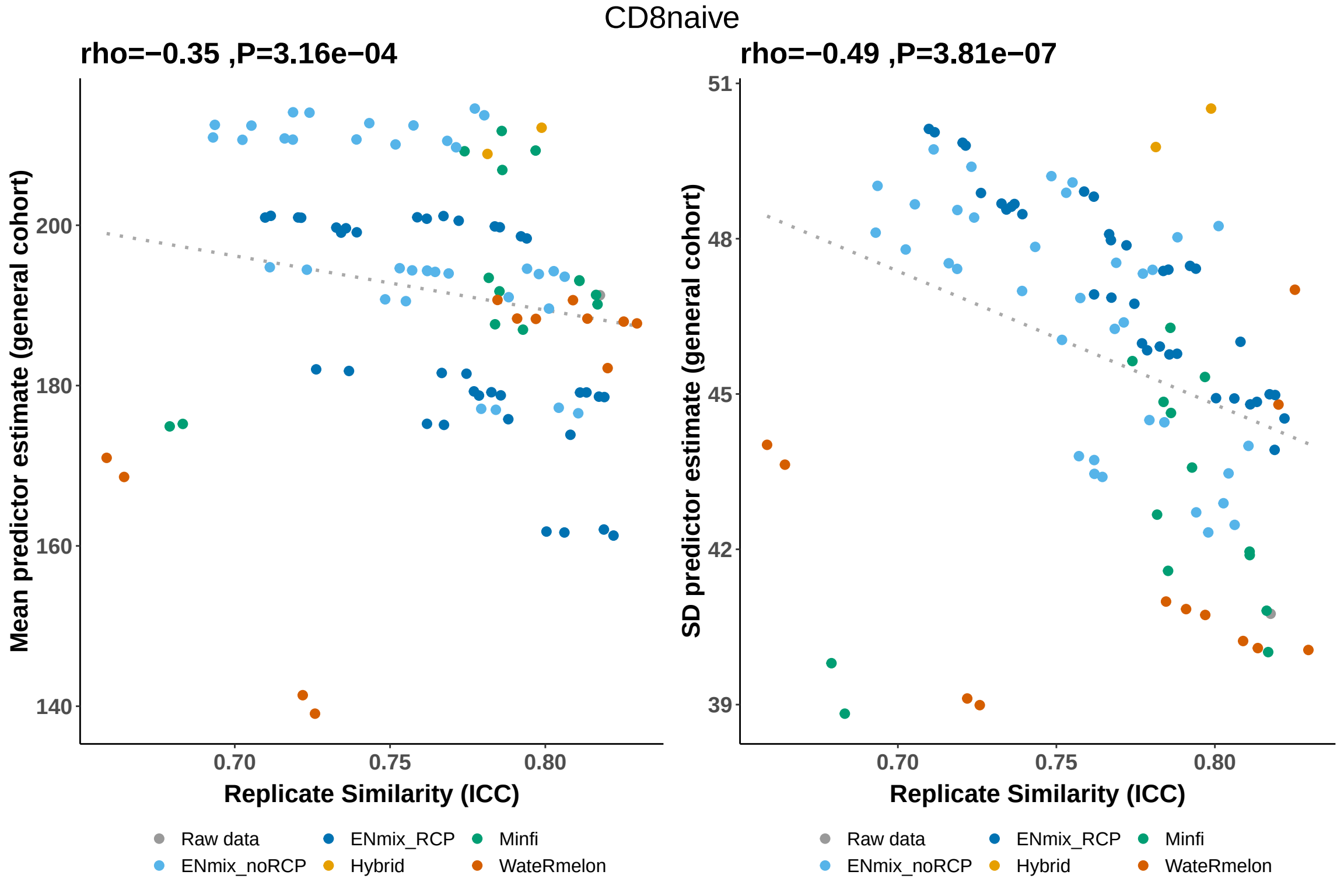

PAI_1
rho=0.23 ,P=2.17e−02
rho=−0.22 ,P=2.79e−02
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
25000
22500
20000
17500
15000
3000
2800
2600
2400
0.2
0.4
0.6
0.8
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon

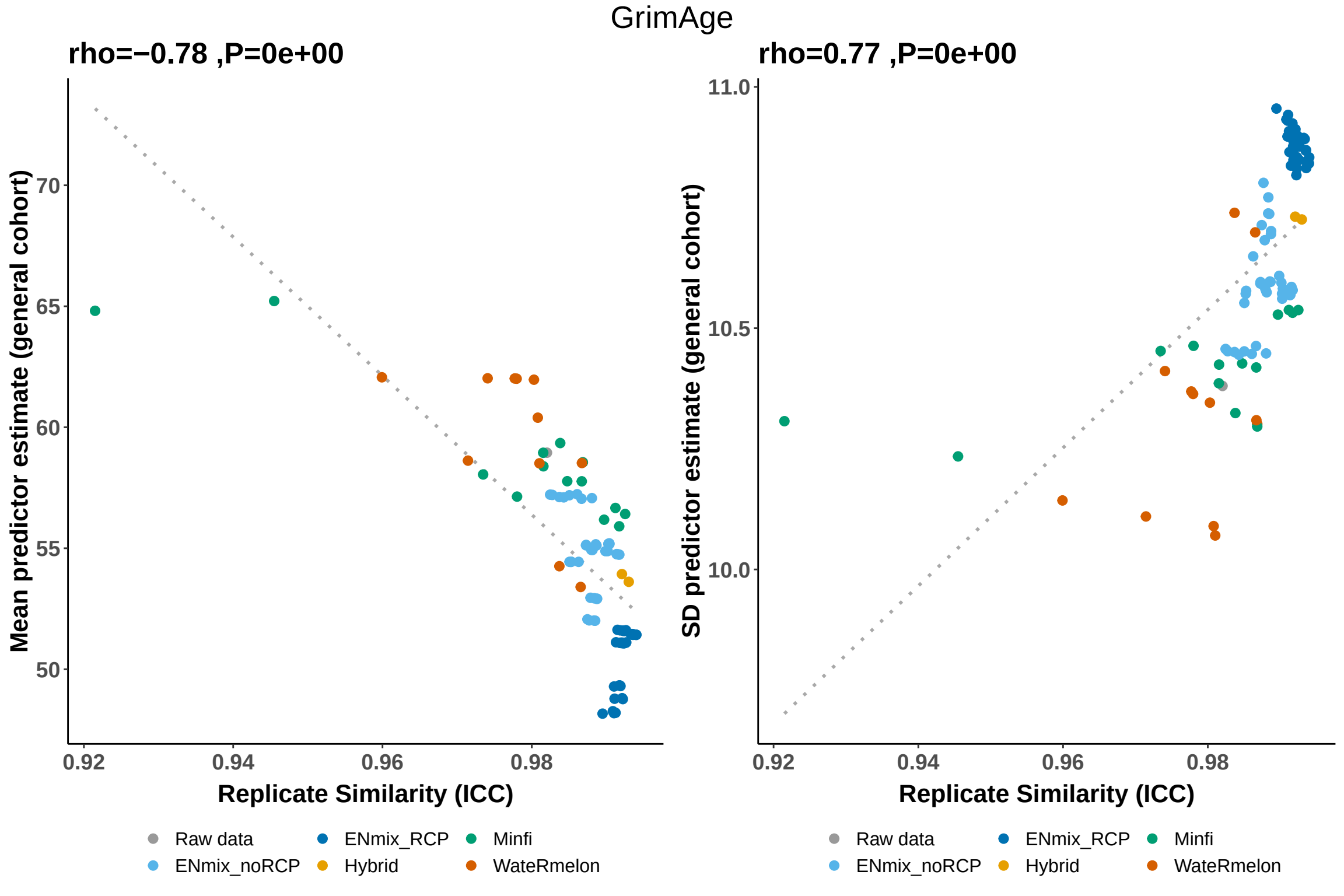

Leptin
rho=−0.56 ,P=1.01e−09
rho=−0.56 ,P=2.62e−09
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
20000
15000
10000
5000
6000
5000
4000
3000
0.5
0.6
0.7
0.8
0.9
Replicate Similarity (ICC)
Raw data
ENmix_noRCP
ENmix_RCP
Hybrid
Minfi
WateRmelon

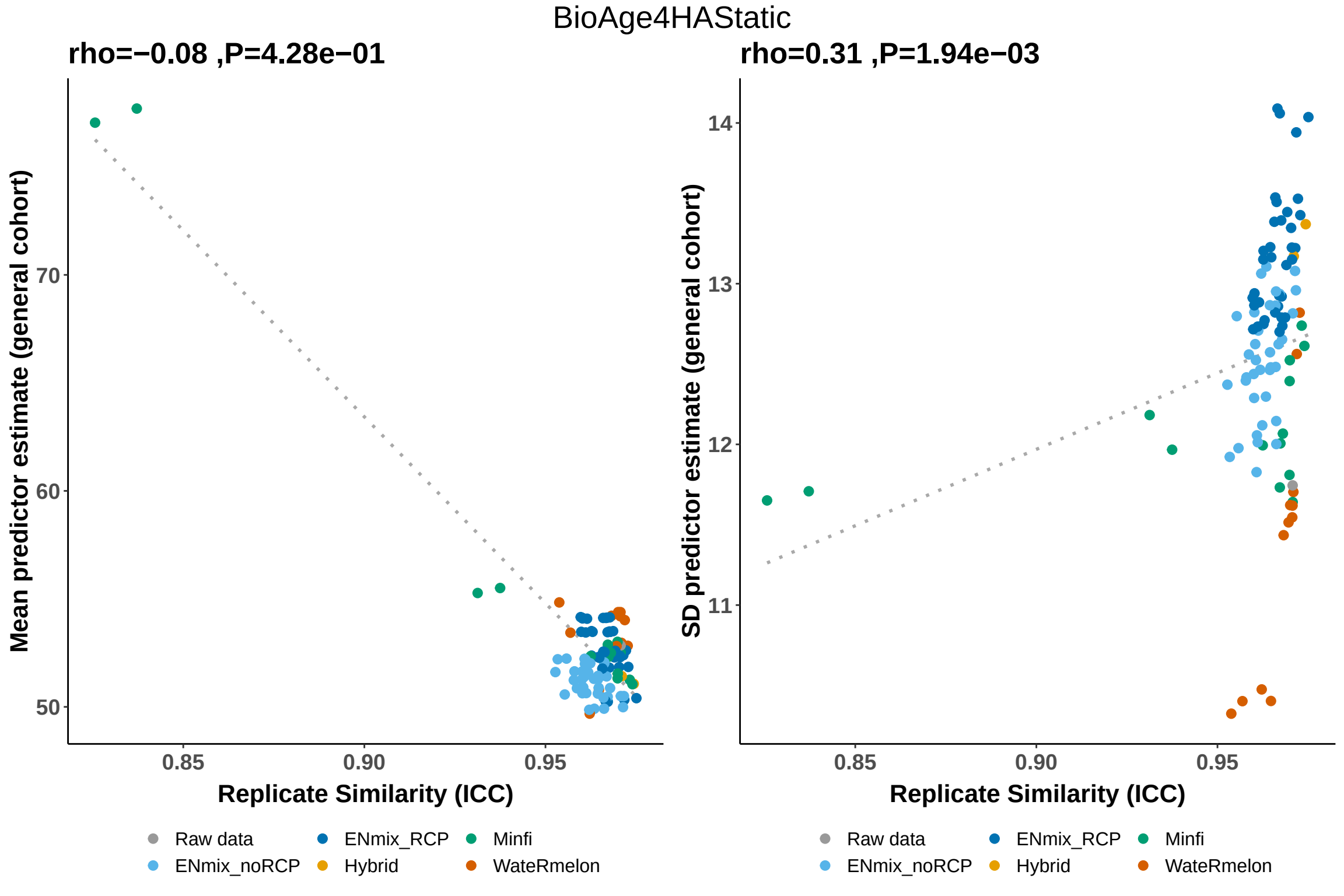

Smoking_Lu
rho=−0.79 ,P=0e+00
rho=0.76 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
Replicate Similarity (ICC)
Replicate Similarity (ICC)
30
20
10
0
14
13
12
0.90
0.92
0.94
0.96
0.98
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon


PlasmaBlast
rho=0.2 ,P=4.73e−02
rho=0.27 ,P=6.79e−03
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
1.9
1.7
1.5
0.30
0.25
0.20
0.15
0.65
0.70
0.75
0.80
0.8
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon


CD8pCD28nCD45RAn
rho=0.65 ,P=0e+00
rho=0.45 ,P=3.79e−06
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
Replicate Similarity (ICC)
Replicate Similarity (ICC)
8
7
6
5
4.25
4.00
3.75
3.50
3.25
0.775
0.800
0.825
0.775
0.800
0.825
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon


CD8naive
rho=−0.35 ,P=3.16e−04
rho=−0.49 ,P=3.81e−07
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
200
180
160
140
51
48
45
42
39
0.70
0.75
0.80
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon


GrimAge
rho=−0.78 ,P=0e+00
rho=0.77 ,P=0e+00
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
70
65
60
55
50
11.0
10.5
10.0
0.92
0.94
0.96
0.98
Replicate Similarity (ICC)
Raw data
ENmix_noRCP
ENmix_RCP
Hybrid
Minfi
WateRmelon


BioAge4HAStatic
rho=−0.08 ,P=4.28e−01
rho=0.31 ,P=1.94e−03
Mean predictor estimate (general cohort)
SD predictor estimate (general cohort)
70
60
50
14
13
12
11
0.85
0.90
0.95
Replicate Similarity (ICC)
Raw data
ENmix_RCP
Minfi
ENmix_noRCP
Hybrid
WateRmelon