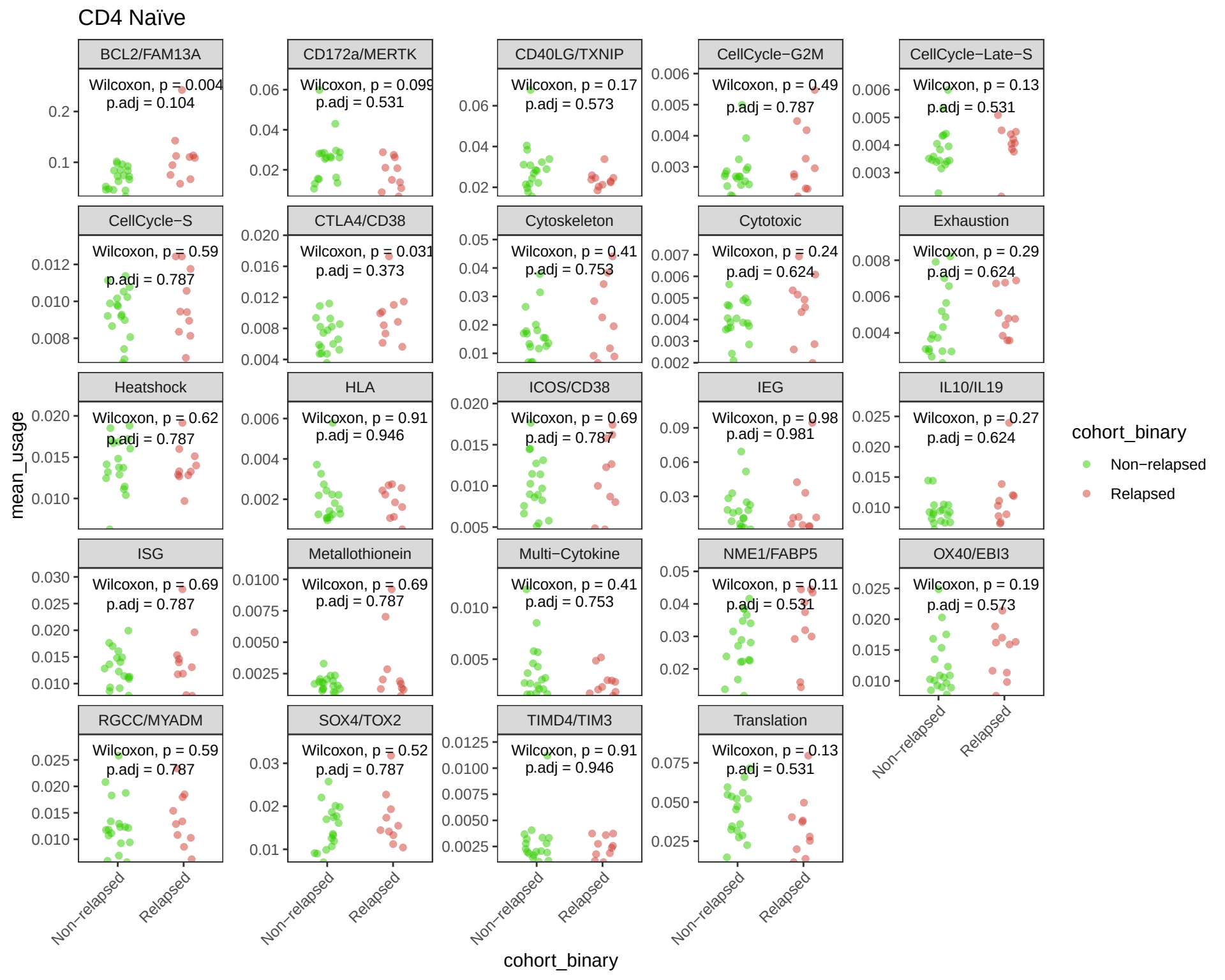
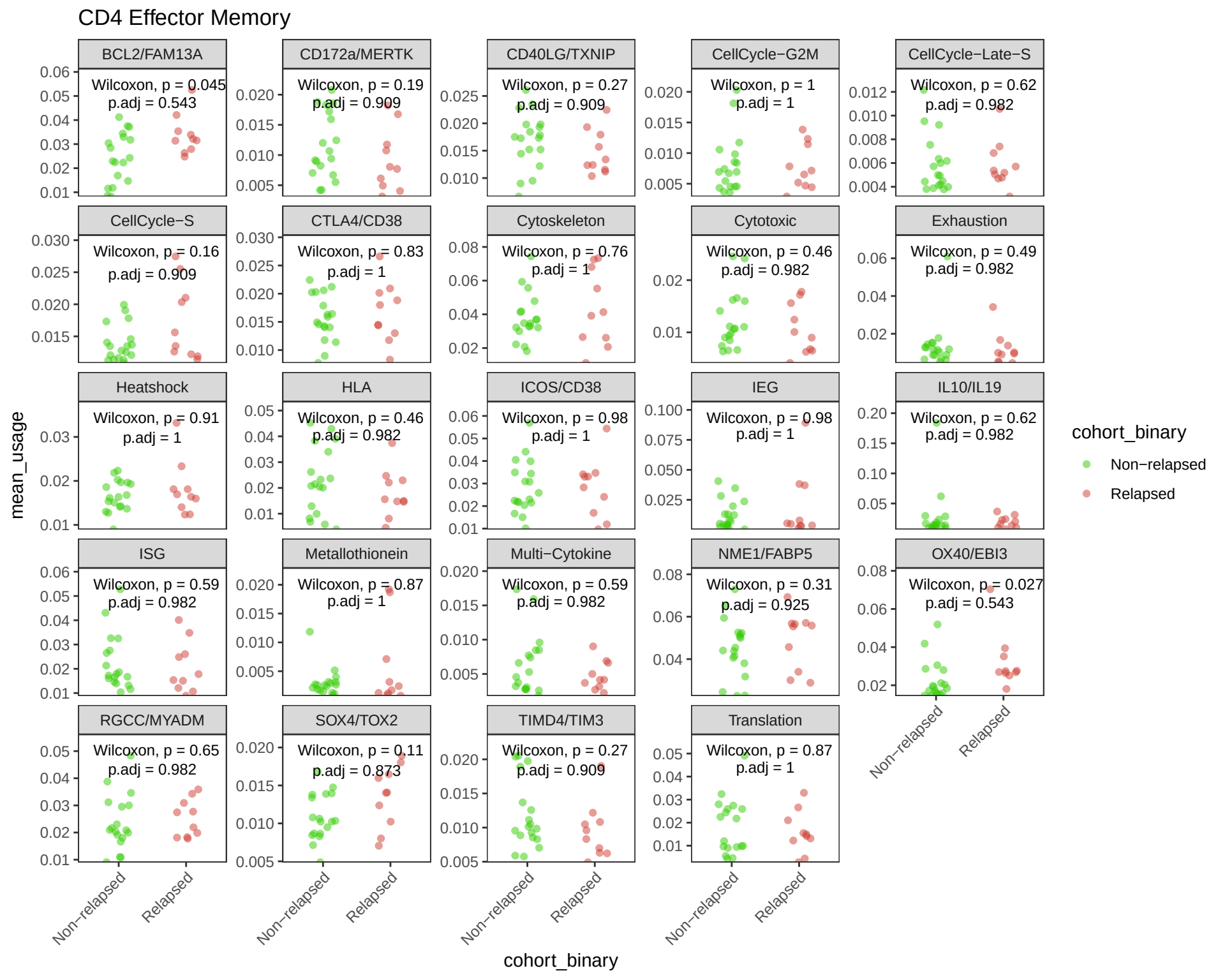
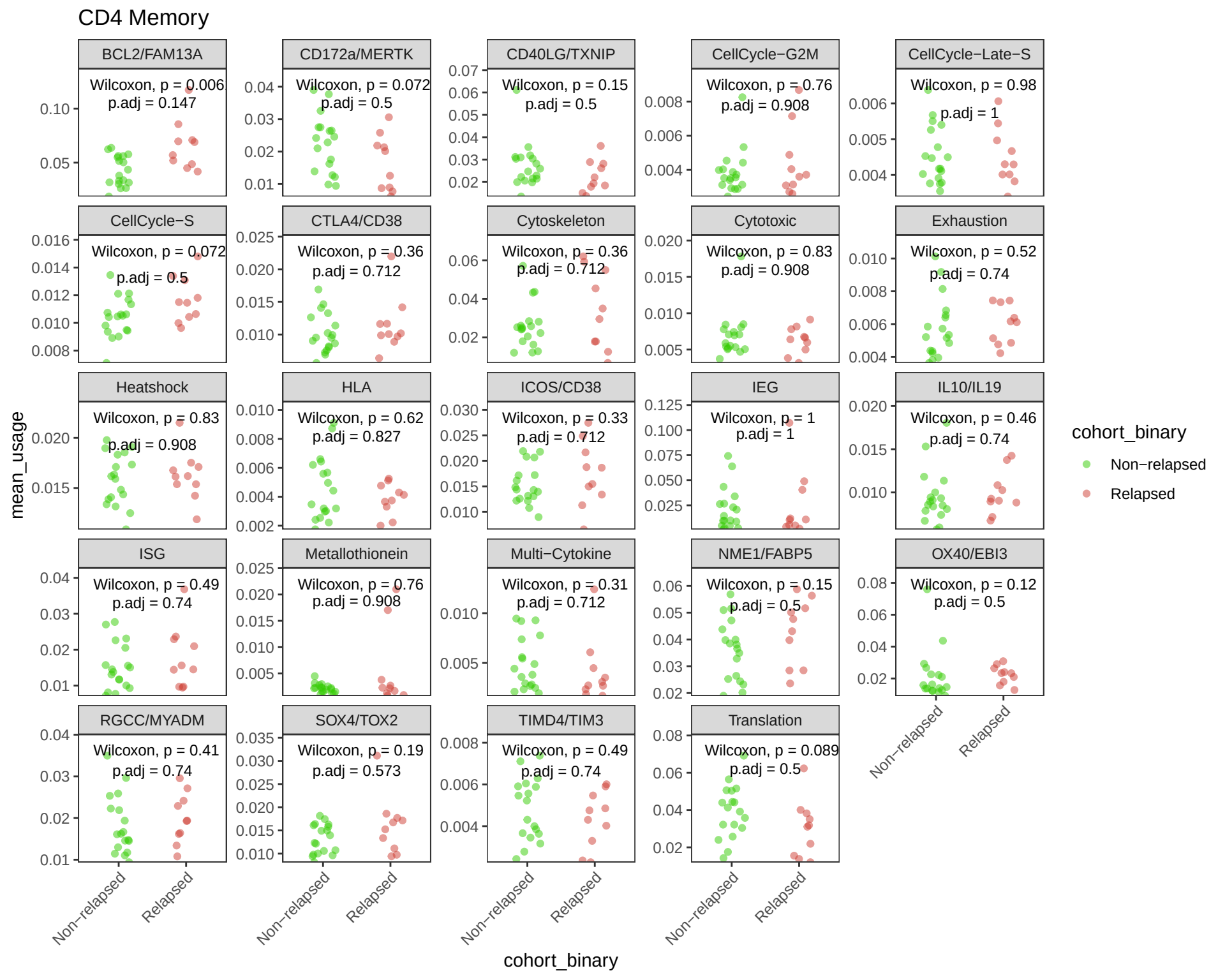
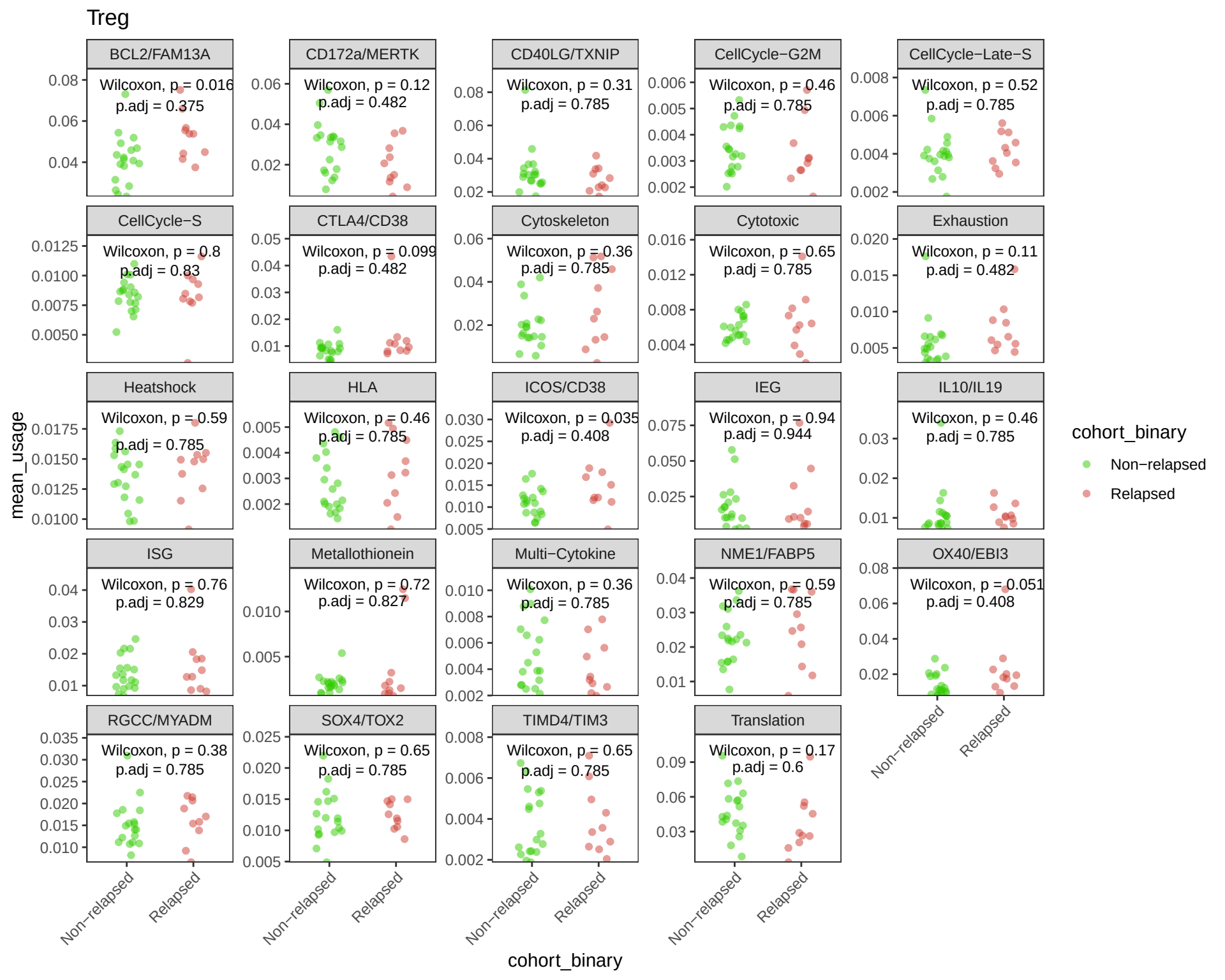
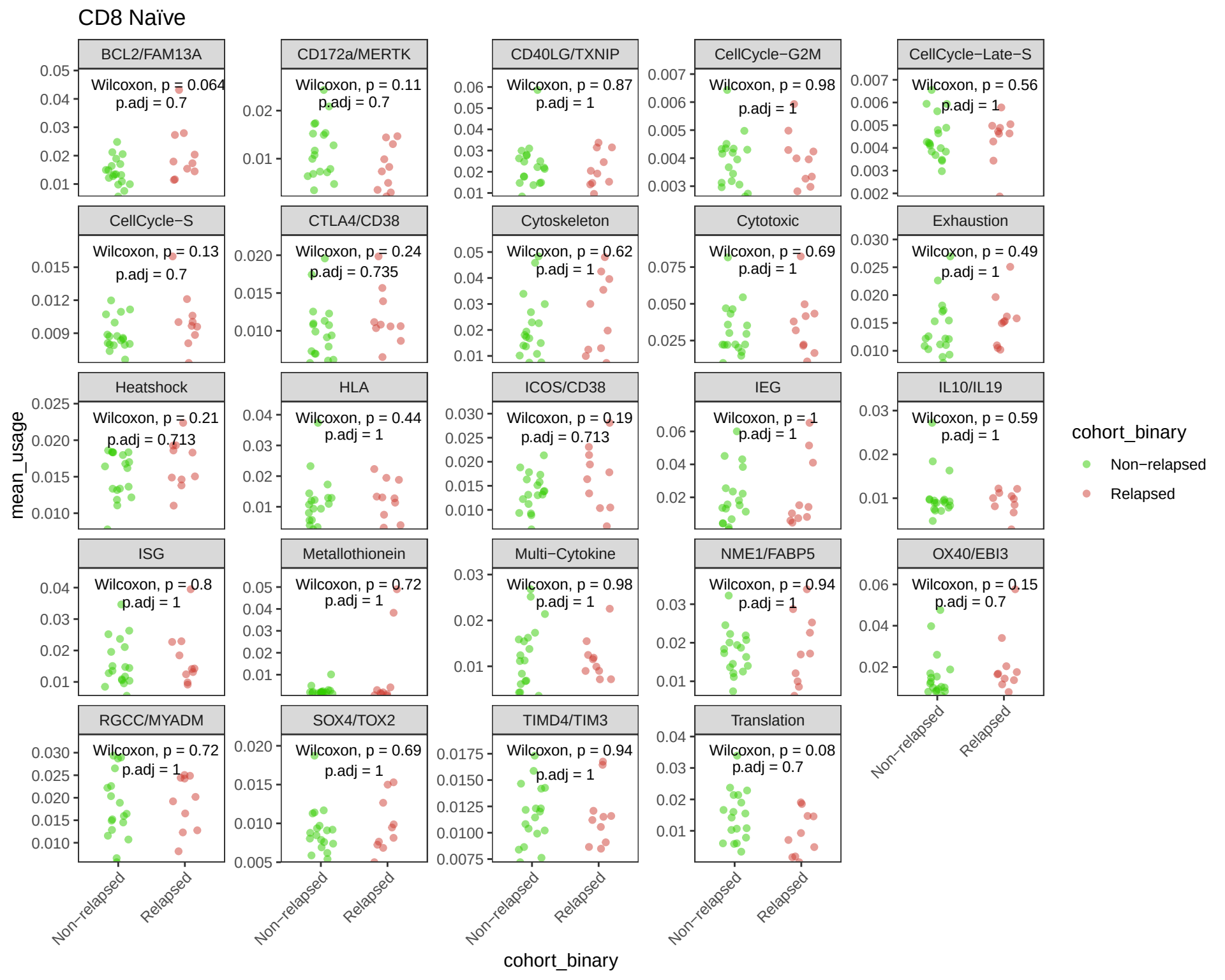
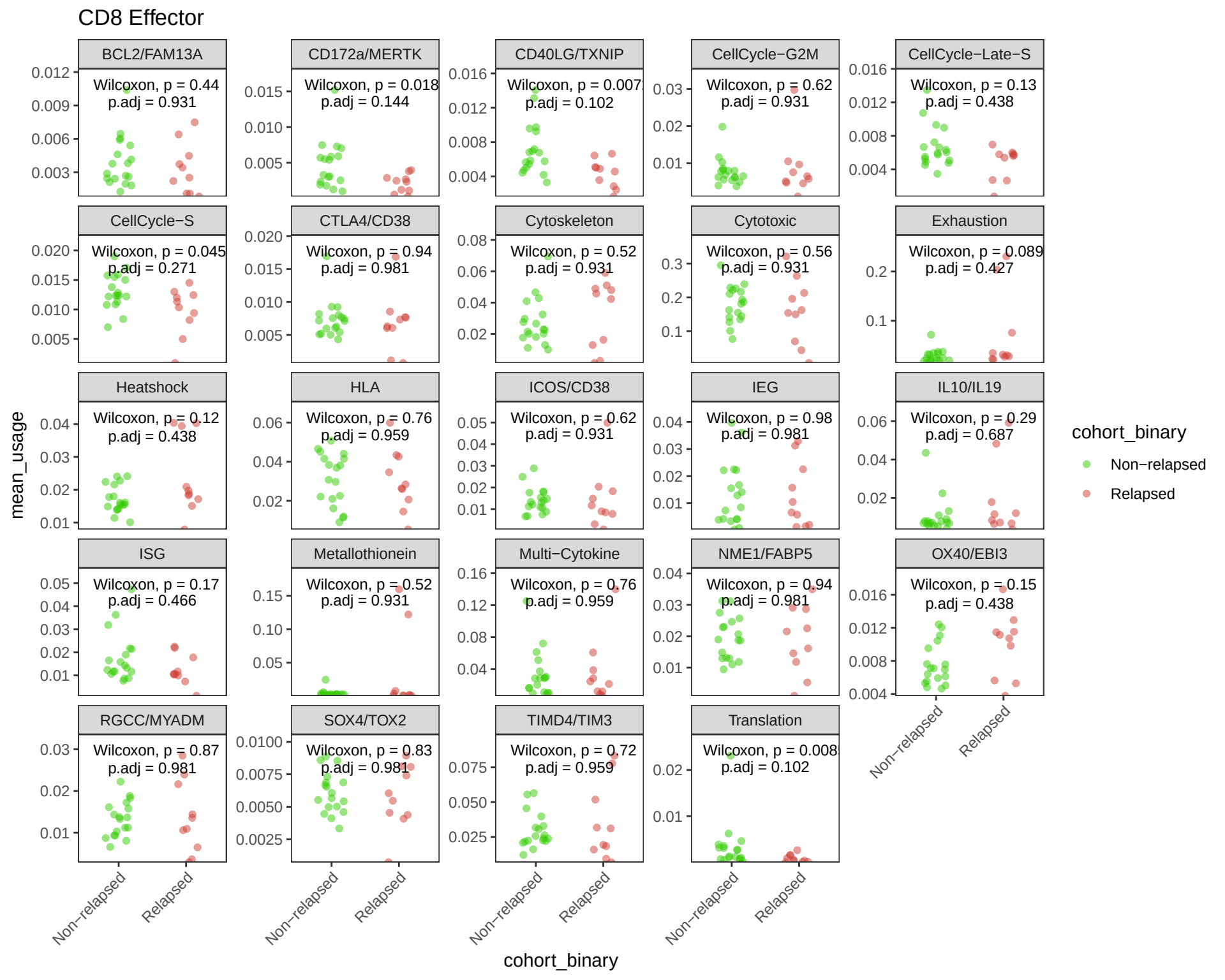

CD4 Naïve
BCL2/FAM13A
Wilcoxon, p = 0.004
p.adj = 0.104
CD172a/MERTK
Wilcoxon, p = 0.099
p.adj = 0.531
CD40LG/TXNIP
Wilcoxon, p = 0.17
p.adj = 0.573
CellCycle−G2M
Wilcoxon, p = 0.49
p.adj = 0.787
CellCycle−Late−S
Wilcoxon, p = 0.13
p.adj = 0.531
CellCycle−S
Wilcoxon, p = 0.59
p.adj = 0.787
CTLA4/CD38
Wilcoxon, p = 0.031
p.adj = 0.373
Cytoskeleton
Wilcoxon, p = 0.41
p.adj = 0.753
Cytotoxic
Wilcoxon, p = 0.24
p.adj = 0.624
Exhaustion
Wilcoxon, p = 0.29
p.adj = 0.624
Heatshock
Wilcoxon, p = 0.62
p.adj = 0.787
HLA
Wilcoxon, p = 0.91
p.adj = 0.946
ICOS/CD38
Wilcoxon, p = 0.69
p.adj = 0.787
IEG
Wilcoxon, p = 0.98
p.adj = 0.981
IL10/IL19
Wilcoxon, p = 0.27
p.adj = 0.624
ISG
Wilcoxon, p = 0.69
p.adj = 0.787
Metallothionein
Wilcoxon, p = 0.69
p.adj = 0.787
Multi−Cytokine
Wilcoxon, p = 0.41
p.adj = 0.753
NME1/FABP5
Wilcoxon, p = 0.11
p.adj = 0.531
OX40/EBI3
Wilcoxon, p = 0.19
p.adj = 0.573
RGCC/MYADM
Wilcoxon, p = 0.59
p.adj = 0.787
SOX4/TOX2
Wilcoxon, p = 0.52
p.adj = 0.787
TIMD4/TIM3
Wilcoxon, p = 0.91
p.adj = 0.946
Translation
Wilcoxon, p = 0.13
p.adj = 0.531
mean_usage
Non−relapsed
Relapsed
cohort_binary
cohort_binary
Non−relapsed
Relapsed

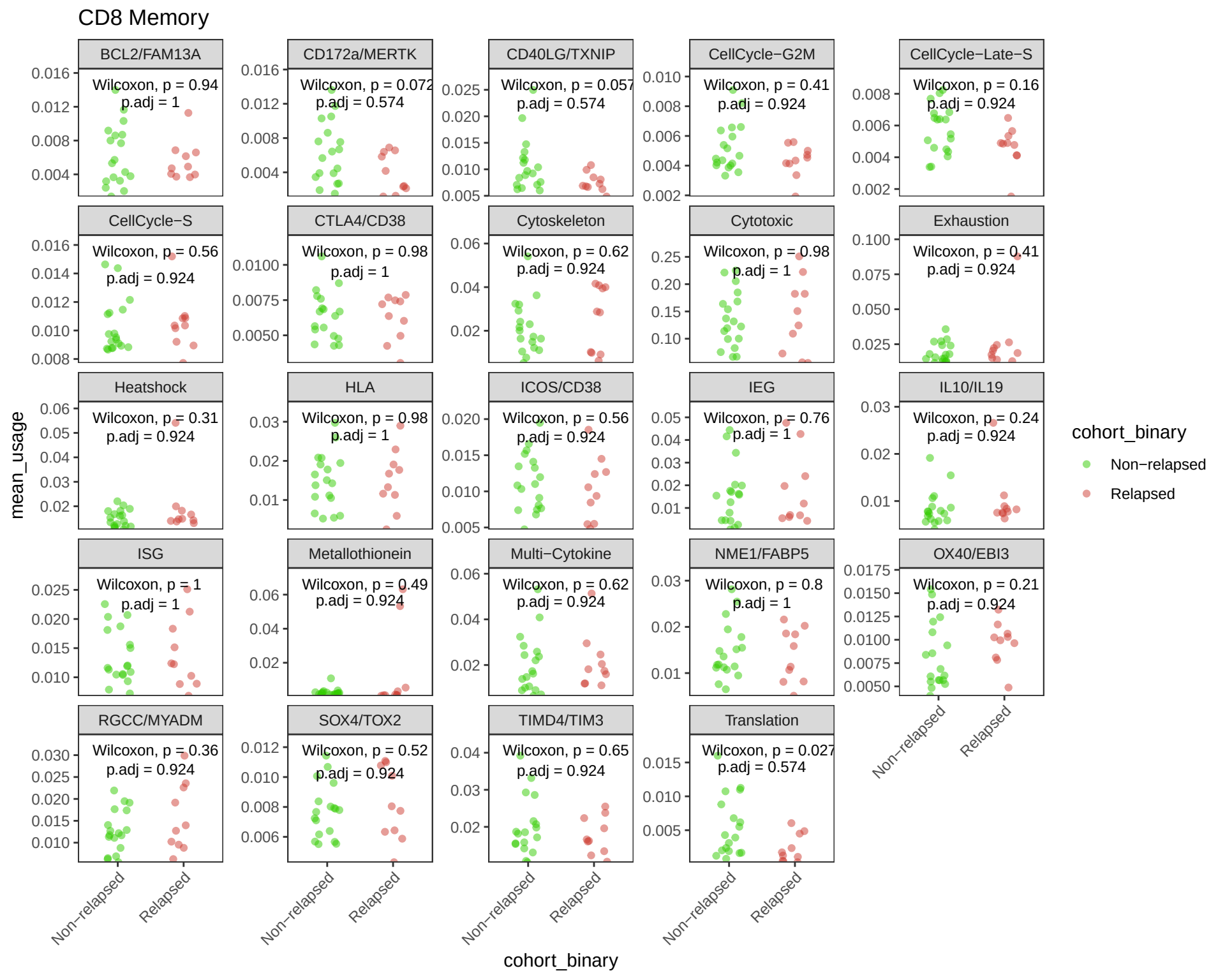

CD4 Effector Memory
BCL2/FAM13A
Wilcoxon, p = 0.045
p.adj = 0.543
CD172a/MERTK
Wilcoxon, p = 0.19
p.adj = 0.909
CD40LG/TXNIP
Wilcoxon, p = 0.27
p.adj = 0.909
CellCycle−G2M
Wilcoxon, p = 1
p.adj = 1
CellCycle−Late−S
Wilcoxon, p = 0.62
p.adj = 0.982
CellCycle−S
Wilcoxon, p = 0.16
p.adj = 0.909
CTLA4/CD38
Wilcoxon, p = 0.83
p.adj = 1
Cytoskeleton
Wilcoxon, p = 0.76
p.adj = 1
Cytotoxic
Wilcoxon, p = 0.46
p.adj = 0.982
Exhaustion
Wilcoxon, p = 0.49
p.adj = 0.982
Heatshock
Wilcoxon, p = 0.91
p.adj = 1
HLA
Wilcoxon, p = 0.46
p.adj = 0.982
ICOS/CD38
Wilcoxon, p = 0.98
p.adj = 1
IEG
Wilcoxon, p = 0.98
p.adj = 1
IL10/IL19
Wilcoxon, p = 0.62
p.adj = 0.982
ISG
Wilcoxon, p = 0.59
p.adj = 0.982
Metallothionein
Wilcoxon, p = 0.87
p.adj = 1
Multi−Cytokine
Wilcoxon, p = 0.59
p.adj = 0.982
NME1/FABP5
Wilcoxon, p = 0.31
p.adj = 0.925
OX40/EBI3
Wilcoxon, p = 0.027
p.adj = 0.543
RGCC/MYADM
Wilcoxon, p = 0.65
p.adj = 0.982
SOX4/TOX2
Wilcoxon, p = 0.11
p.adj = 0.873
TIMD4/TIM3
Wilcoxon, p = 0.27
p.adj = 0.909
Translation
Wilcoxon, p = 0.87
p.adj = 1
mean_usage
cohort_binary
Non−relapsed
Relapsed
cohort_binary
Non−relapsed
Relapsed

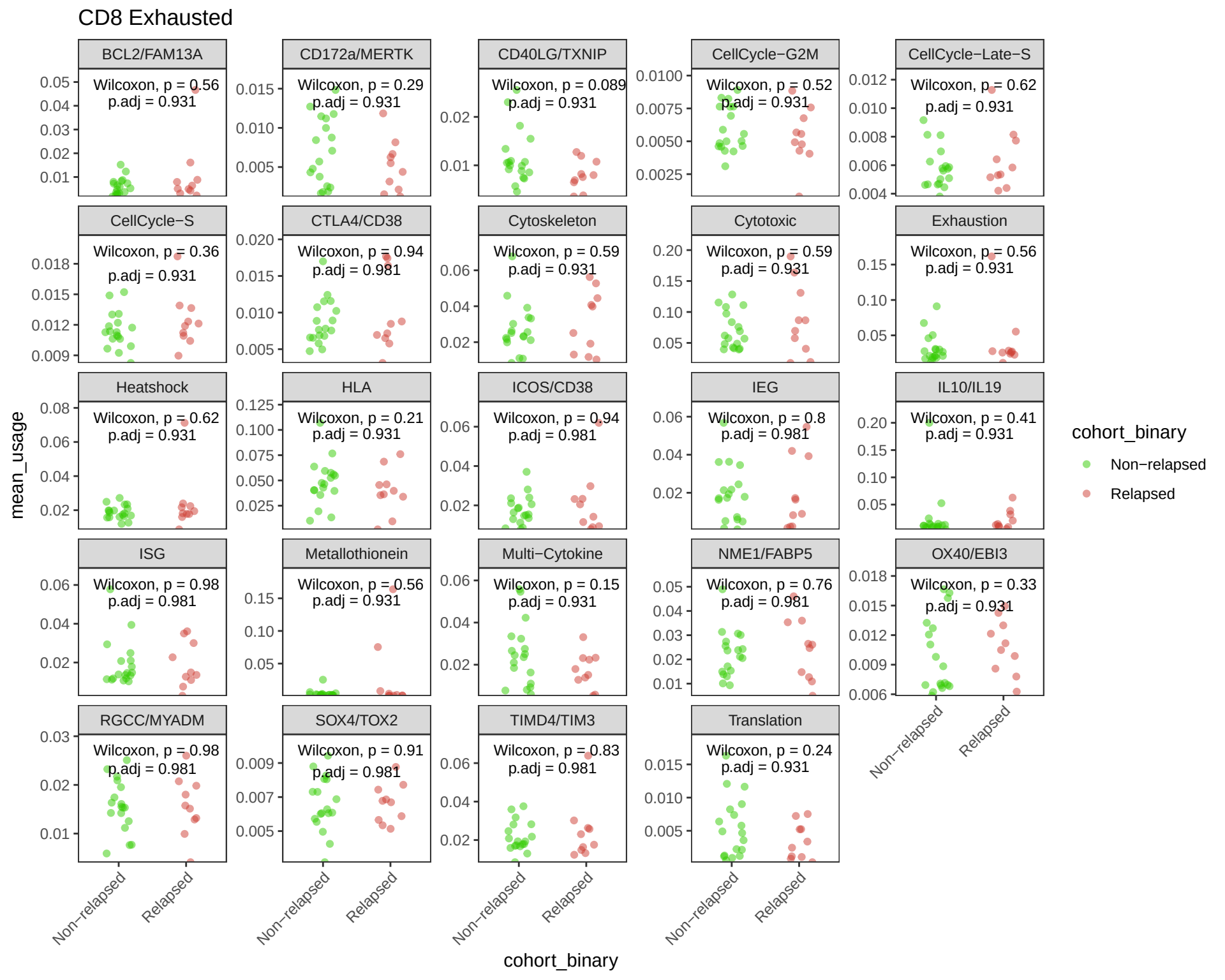

CD4 Memory
BCL2/FAM13A
Wilcoxon, p = 0.006
p.adj = 0.147
CD172a/MERTK
Wilcoxon, p = 0.072
p.adj = 0.5
CD40LG/TXNIP
Wilcoxon, p = 0.15
p.adj = 0.5
CellCycle−G2M
Wilcoxon, p = 0.76
p.adj = 0.908
CellCycle−Late−S
Wilcoxon, p = 0.98
p.adj = 1
CellCycle−S
Wilcoxon, p = 0.072
p.adj = 0.5
CTLA4/CD38
Wilcoxon, p = 0.36
p.adj = 0.712
Cytoskeleton
Wilcoxon, p = 0.36
p.adj = 0.712
Cytotoxic
Wilcoxon, p = 0.83
p.adj = 0.908
Exhaustion
Wilcoxon, p = 0.52
p.adj = 0.74
Heatshock
Wilcoxon, p = 0.83
p.adj = 0.908
HLA
Wilcoxon, p = 0.62
p.adj = 0.827
ICOS/CD38
Wilcoxon, p = 0.33
p.adj = 0.712
IEG
Wilcoxon, p = 1
p.adj = 1
IL10/IL19
Wilcoxon, p = 0.46
p.adj = 0.74
ISG
Wilcoxon, p = 0.49
p.adj = 0.74
Metallothionein
Wilcoxon, p = 0.76
p.adj = 0.908
Multi−Cytokine
Wilcoxon, p = 0.31
p.adj = 0.712
NME1/FABP5
Wilcoxon, p = 0.15
p.adj = 0.5
OX40/EBI3
Wilcoxon, p = 0.12
p.adj = 0.5
RGCC/MYADM
Wilcoxon, p = 0.41
p.adj = 0.74
SOX4/TOX2
Wilcoxon, p = 0.19
p.adj = 0.573
TIMD4/TIM3
Wilcoxon, p = 0.49
p.adj = 0.74
Translation
Wilcoxon, p = 0.089
p.adj = 0.5
mean_usage
cohort_binary
Non−relapsed
Relapsed


Treg
BCL2/FAM13A
Wilcoxon, p = 0.016
p.adj = 0.375
CD172a/MERTK
Wilcoxon, p = 0.12
p.adj = 0.482
CD40LG/TXNIP
Wilcoxon, p = 0.31
p.adj = 0.785
CellCycle−G2M
Wilcoxon, p = 0.46
p.adj = 0.785
CellCycle−Late−S
Wilcoxon, p = 0.52
p.adj = 0.785
CellCycle−S
Wilcoxon, p = 0.8
p.adj = 0.83
CTLA4/CD38
Wilcoxon, p = 0.099
p.adj = 0.482
Cytoskeleton
Wilcoxon, p = 0.36
p.adj = 0.785
Cytotoxic
Wilcoxon, p = 0.65
p.adj = 0.785
Exhaustion
Wilcoxon, p = 0.11
p.adj = 0.482
Heatshock
Wilcoxon, p = 0.59
p.adj = 0.785
HLA
Wilcoxon, p = 0.46
p.adj = 0.785
ICOS/CD38
Wilcoxon, p = 0.035
p.adj = 0.408
IEG
Wilcoxon, p = 0.94
p.adj = 0.944
IL10/IL19
Wilcoxon, p = 0.46
p.adj = 0.785
ISG
Wilcoxon, p = 0.76
p.adj = 0.829
Metallothionein
Wilcoxon, p = 0.72
p.adj = 0.827
Multi−Cytokine
Wilcoxon, p = 0.36
p.adj = 0.785
NME1/FABP5
Wilcoxon, p = 0.59
p.adj = 0.785
OX40/EBI3
Wilcoxon, p = 0.051
p.adj = 0.408
RGCC/MYADM
Wilcoxon, p = 0.38
p.adj = 0.785
SOX4/TOX2
Wilcoxon, p = 0.65
p.adj = 0.785
TIMD4/TIM3
Wilcoxon, p = 0.65
p.adj = 0.785
Translation
Wilcoxon, p = 0.17
p.adj = 0.6
mean_usage
cohort_binary
Non−relapsed
Relapsed
cohort_binary
Non−relapsed
Relapsed

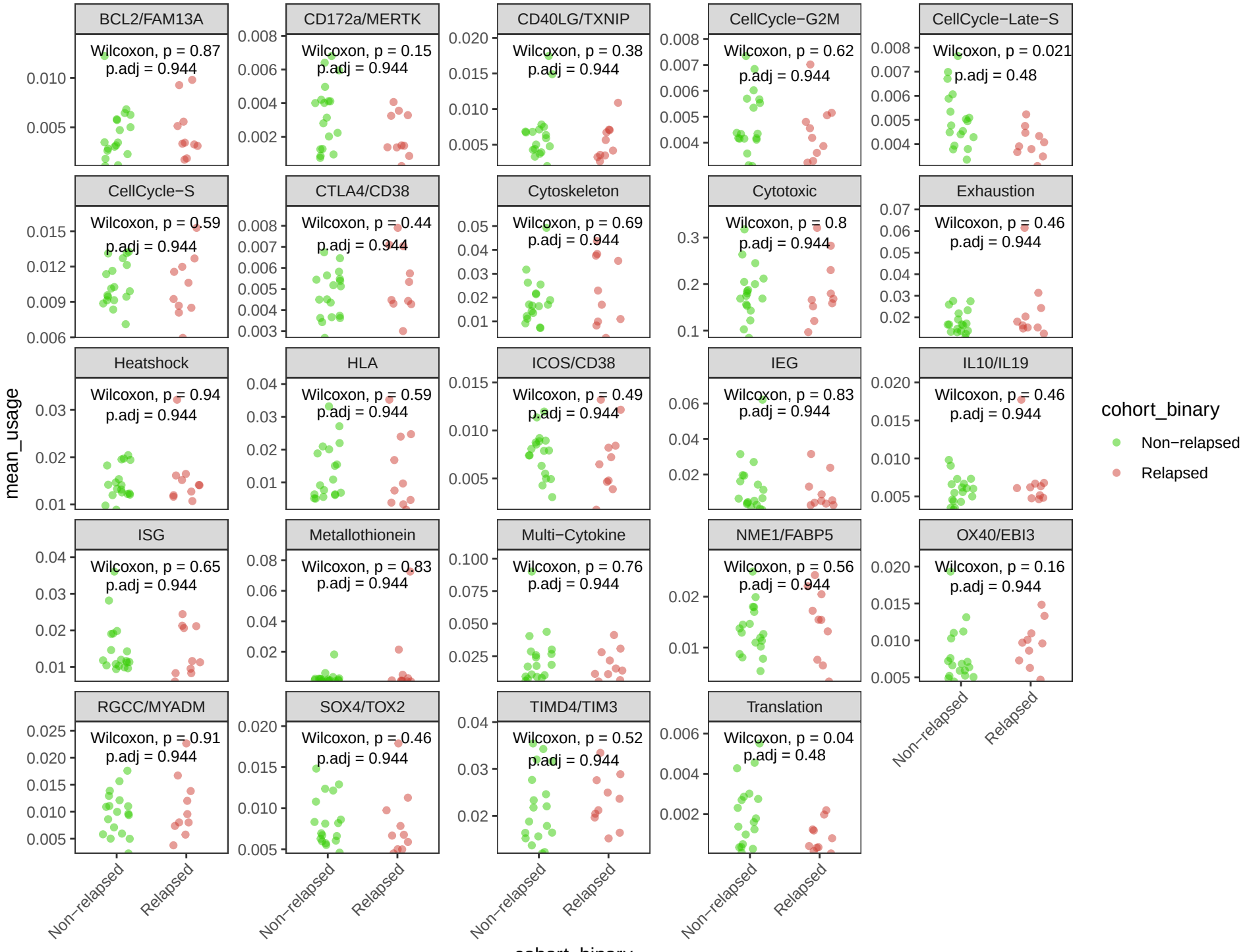

CD8 Naïve
BCL2/FAM13A
Wilcoxon, p = 0.064
p.adj = 0.7
CD172a/MERTK
Wilcoxon, p = 0.11
p.adj = 0.7
CD40LG/TXNIP
Wilcoxon, p = 0.87
p.adj = 1
CellCycle−G2M
Wilcoxon, p = 0.98
p.adj = 1
CellCycle−Late−S
Wilcoxon, p = 0.56
p.adj = 1
CellCycle−S
Wilcoxon, p = 0.13
p.adj = 0.7
CTLA4/CD38
Wilcoxon, p = 0.24
p.adj = 0.735
Cytoskeleton
Wilcoxon, p = 0.62
p.adj = 1
Cytotoxic
Wilcoxon, p = 0.69
p.adj = 1
Exhaustion
Wilcoxon, p = 0.49
p.adj = 1
Heatshock
Wilcoxon, p = 0.21
p.adj = 0.713
HLA
Wilcoxon, p = 0.44
p.adj = 1
ICOS/CD38
Wilcoxon, p = 0.19
p.adj = 0.713
IEG
Wilcoxon, p = 1
p.adj = 1
IL10/IL19
Wilcoxon, p = 0.59
p.adj = 1
ISG
Wilcoxon, p = 0.8
p.adj = 1
Metallothionein
Wilcoxon, p = 0.72
p.adj = 1
Multi−Cytokine
Wilcoxon, p = 0.98
p.adj = 1
NME1/FABP5
Wilcoxon, p = 0.94
p.adj = 1
OX40/EBI3
Wilcoxon, p = 0.15
p.adj = 0.7
RGCC/MYADM
Wilcoxon, p = 0.72
p.adj = 1
SOX4/TOX2
Wilcoxon, p = 0.69
p.adj = 1
TIMD4/TIM3
Wilcoxon, p = 0.94
p.adj = 1
Translation
Wilcoxon, p = 0.08
p.adj = 0.7
mean_usage
Non−relapsed
Relapsed
cohort_binary
cohort_binary
Non−relapsed
Relapsed


CD8 Effector
BCL2/FAM13A
Wilcoxon, p = 0.44
p.adj = 0.931
CD172a/MERTK
Wilcoxon, p = 0.018
p.adj = 0.144
CD40LG/TXNIP
Wilcoxon, p = 0.007
p.adj = 0.102
CellCycle−G2M
Wilcoxon, p = 0.62
p.adj = 0.931
CellCycle−Late−S
Wilcoxon, p = 0.13
p.adj = 0.438
CellCycle−S
Wilcoxon, p = 0.045
p.adj = 0.271
CTLA4/CD38
Wilcoxon, p = 0.94
p.adj = 0.981
Cytoskeleton
Wilcoxon, p = 0.52
p.adj = 0.931
Cytotoxic
Wilcoxon, p = 0.56
p.adj = 0.931
Exhaustion
Wilcoxon, p = 0.089
p.adj = 0.427
Heatshock
Wilcoxon, p = 0.12
p.adj = 0.438
HLA
Wilcoxon, p = 0.76
p.adj = 0.959
ICOS/CD38
Wilcoxon, p = 0.62
p.adj = 0.931
IEG
Wilcoxon, p = 0.98
p.adj = 0.981
IL10/IL19
Wilcoxon, p = 0.29
p.adj = 0.687
ISG
Wilcoxon, p = 0.17
p.adj = 0.466
Metallothionein
Wilcoxon, p = 0.52
p.adj = 0.931
Multi−Cytokine
Wilcoxon, p = 0.76
p.adj = 0.959
NME1/FABP5
Wilcoxon, p = 0.94
p.adj = 0.981
OX40/EBI3
Wilcoxon, p = 0.15
p.adj = 0.438
RGCC/MYADM
Wilcoxon, p = 0.87
p.adj = 0.981
SOX4/TOX2
Wilcoxon, p = 0.83
p.adj = 0.981
TIMD4/TIM3
Wilcoxon, p = 0.72
p.adj = 0.959
Translation
Wilcoxon, p = 0.008
p.adj = 0.102
mean_usage
Non−relapsed
Relapsed
cohort_binary
cohort_binary
Non−relapsed
Relapsed


CD8 Memory
BCL2/FAM13A
Wilcoxon, p = 0.94
p.adj = 1
CD172a/MERTK
Wilcoxon, p = 0.072
p.adj = 0.574
CD40LG/TXNIP
Wilcoxon, p = 0.057
p.adj = 0.574
CellCycle−G2M
Wilcoxon, p = 0.41
p.adj = 0.924
CellCycle−Late−S
Wilcoxon, p = 0.16
p.adj = 0.924
CellCycle−S
Wilcoxon, p = 0.56
p.adj = 0.924
CTLA4/CD38
Wilcoxon, p = 0.98
p.adj = 1
Cytoskeleton
Wilcoxon, p = 0.62
p.adj = 0.924
Cytotoxic
Wilcoxon, p = 0.98
p.adj = 1
Exhaustion
Wilcoxon, p = 0.41
p.adj = 0.924
Heatshock
Wilcoxon, p = 0.31
p.adj = 0.924
HLA
Wilcoxon, p = 0.98
p.adj = 1
ICOS/CD38
Wilcoxon, p = 0.56
p.adj = 0.924
IEG
Wilcoxon, p = 0.76
p.adj = 1
IL10/IL19
Wilcoxon, p = 0.24
p.adj = 0.924
ISG
Wilcoxon, p = 1
p.adj = 1
Metallothionein
Wilcoxon, p = 0.49
p.adj = 0.924
Multi−Cytokine
Wilcoxon, p = 0.62
p.adj = 0.924
NME1/FABP5
Wilcoxon, p = 0.8
p.adj = 1
OX40/EBI3
Wilcoxon, p = 0.21
p.adj = 0.924
RGCC/MYADM
Wilcoxon, p = 0.36
p.adj = 0.924
SOX4/TOX2
Wilcoxon, p = 0.52
p.adj = 0.924
TIMD4/TIM3
Wilcoxon, p = 0.65
p.adj = 0.924
Translation
Wilcoxon, p = 0.027
p.adj = 0.574
mean_usage
cohort_binary
Non−relapsed
Relapsed
cohort_binary
Non−relapsed
Relapsed


CD8 Exhausted
BCL2/FAM13A
Wilcoxon, p = 0.56
p.adj = 0.931
CD172a/MERTK
Wilcoxon, p = 0.29
p.adj = 0.931
CD40LG/TXNIP
Wilcoxon, p = 0.089
p.adj = 0.931
CellCycle−G2M
Wilcoxon, p = 0.52
p.adj = 0.931
CellCycle−Late−S
Wilcoxon, p = 0.62
p.adj = 0.931
CellCycle−S
Wilcoxon, p = 0.36
p.adj = 0.931
CTLA4/CD38
Wilcoxon, p = 0.94
p.adj = 0.981
Cytoskeleton
Wilcoxon, p = 0.59
p.adj = 0.931
Cytotoxic
Wilcoxon, p = 0.59
p.adj = 0.931
Exhaustion
Wilcoxon, p = 0.56
p.adj = 0.931
Heatshock
Wilcoxon, p = 0.62
p.adj = 0.931
HLA
Wilcoxon, p = 0.21
p.adj = 0.931
ICOS/CD38
Wilcoxon, p = 0.94
p.adj = 0.981
IEG
Wilcoxon, p = 0.8
p.adj = 0.981
IL10/IL19
Wilcoxon, p = 0.41
p.adj = 0.931
ISG
Wilcoxon, p = 0.98
p.adj = 0.981
Metallothionein
Wilcoxon, p = 0.56
p.adj = 0.931
Multi−Cytokine
Wilcoxon, p = 0.15
p.adj = 0.931
NME1/FABP5
Wilcoxon, p = 0.76
p.adj = 0.981
OX40/EBI3
Wilcoxon, p = 0.33
p.adj = 0.931
RGCC/MYADM
Wilcoxon, p = 0.98
p.adj = 0.981
SOX4/TOX2
Wilcoxon, p = 0.91
p.adj = 0.981
TIMD4/TIM3
Wilcoxon, p = 0.83
p.adj = 0.981
Translation
Wilcoxon, p = 0.24
p.adj = 0.931
mean_usage
Non−relapsed
Relapsed
cohort_binary
cohort_binary
Non−relapsed
Relapsed

.. T


BCL2/FAM13A
Wilcoxon, p = 0.87
p.adj = 0.944
CD172a/MERTK
Wilcoxon, p = 0.15
p.adj = 0.944
CD40LG/TXNIP
Wilcoxon, p = 0.38
p.adj = 0.944
CellCycle−G2M
Wilcoxon, p = 0.62
p.adj = 0.944
CellCycle−Late−S
Wilcoxon, p = 0.021
p.adj = 0.48
CellCycle−S
Wilcoxon, p = 0.59
p.adj = 0.944
CTLA4/CD38
Wilcoxon, p = 0.44
p.adj = 0.944
Cytoskeleton
Wilcoxon, p = 0.69
p.adj = 0.944
Cytotoxic
Wilcoxon, p = 0.8
p.adj = 0.944
Exhaustion
Wilcoxon, p = 0.46
p.adj = 0.944
Heatshock
Wilcoxon, p = 0.94
p.adj = 0.944
HLA
Wilcoxon, p = 0.59
p.adj = 0.944
ICOS/CD38
Wilcoxon, p = 0.49
p.adj = 0.944
IEG
Wilcoxon, p = 0.83
p.adj = 0.944
IL10/IL19
Wilcoxon, p = 0.46
p.adj = 0.944
ISG
Wilcoxon, p = 0.65
p.adj = 0.944
Metallothionein
Wilcoxon, p = 0.83
p.adj = 0.944
Multi−Cytokine
Wilcoxon, p = 0.76
p.adj = 0.944
NME1/FABP5
Wilcoxon, p = 0.56
p.adj = 0.944
OX40/EBI3
Wilcoxon, p = 0.16
p.adj = 0.944
RGCC/MYADM
Wilcoxon, p = 0.91
p.adj = 0.944
SOX4/TOX2
Wilcoxon, p = 0.46
p.adj = 0.944
TIMD4/TIM3
Wilcoxon, p = 0.52
p.adj = 0.944
Translation
Wilcoxon, p = 0.04
p.adj = 0.48
mean_usage
cohort_binary
Non−relapsed
Relapsed