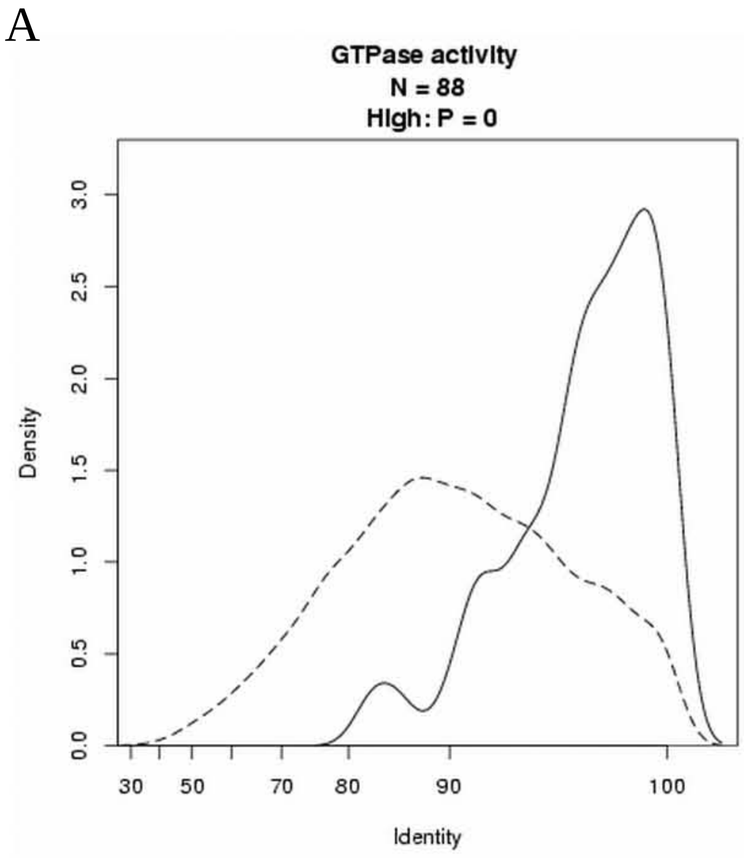
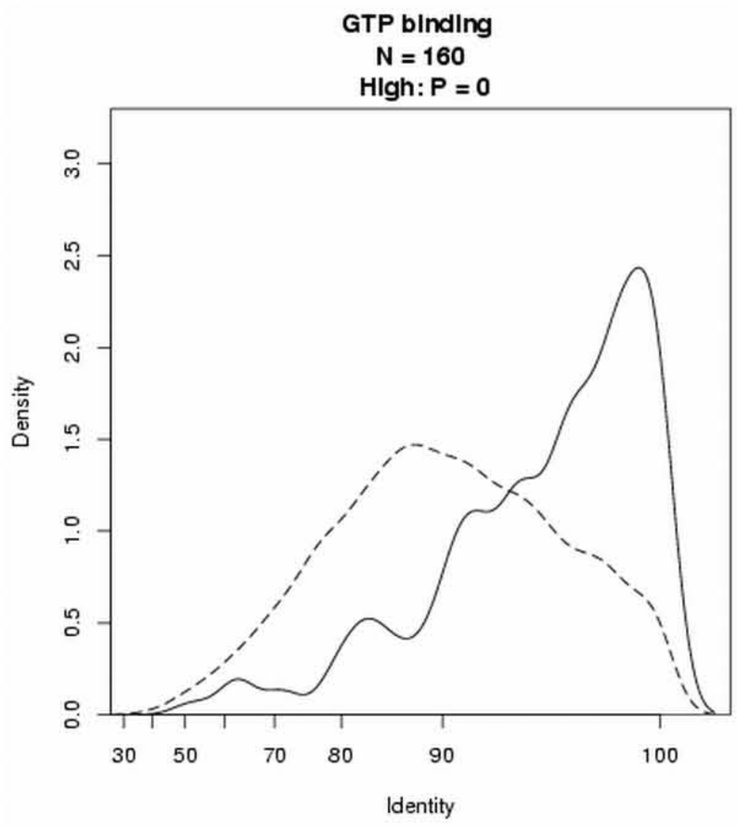
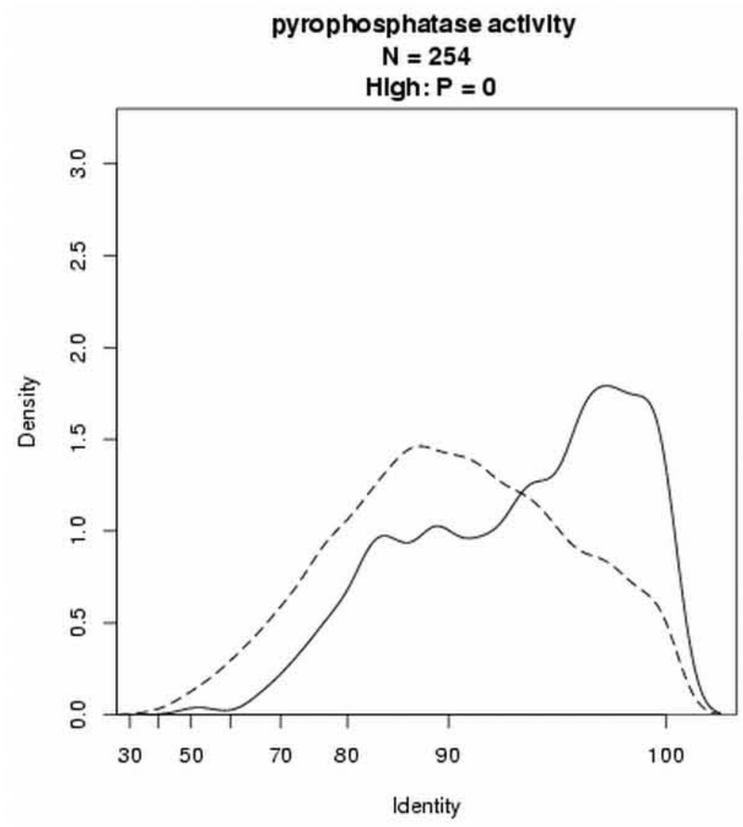
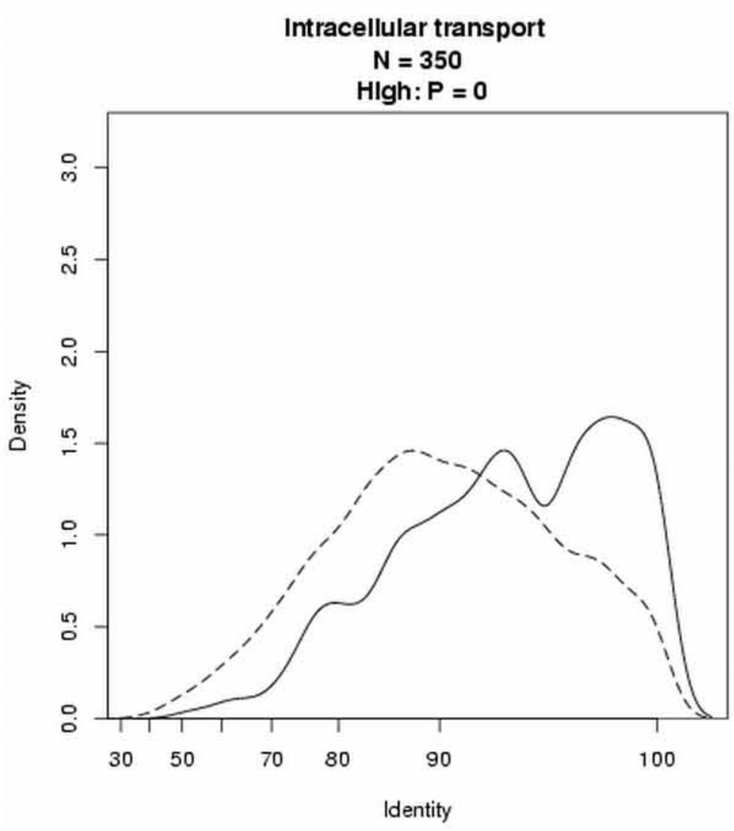
Additional file 6

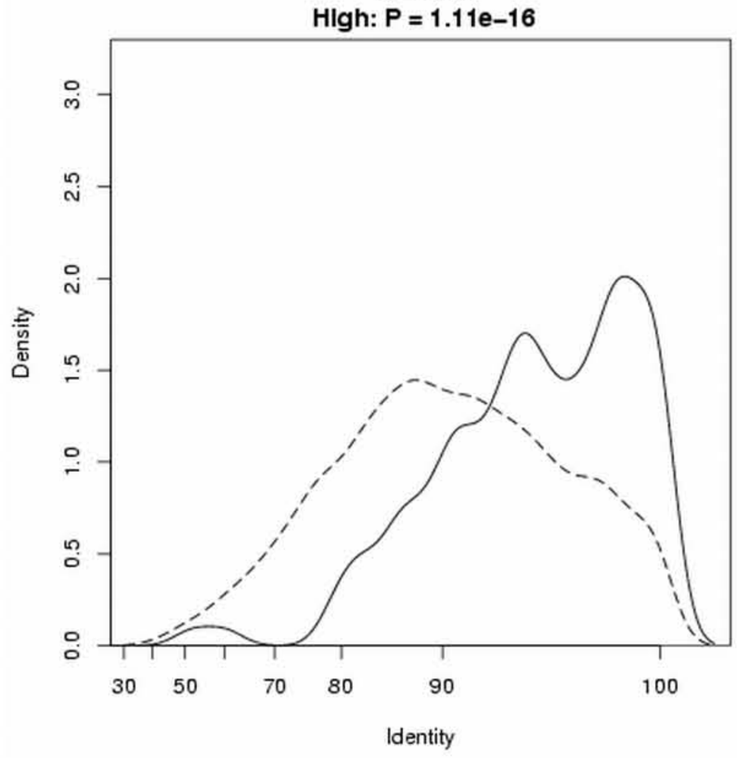
A

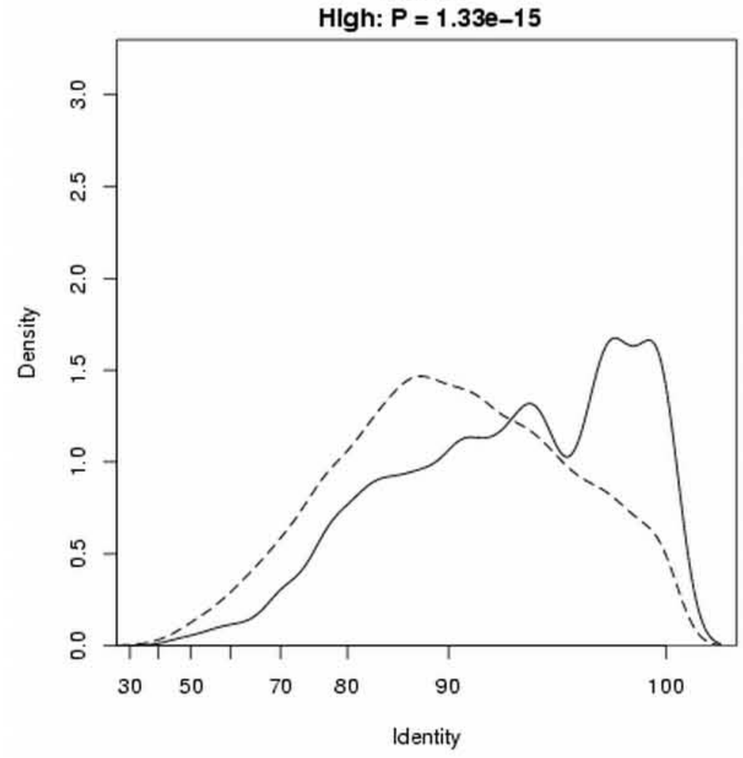


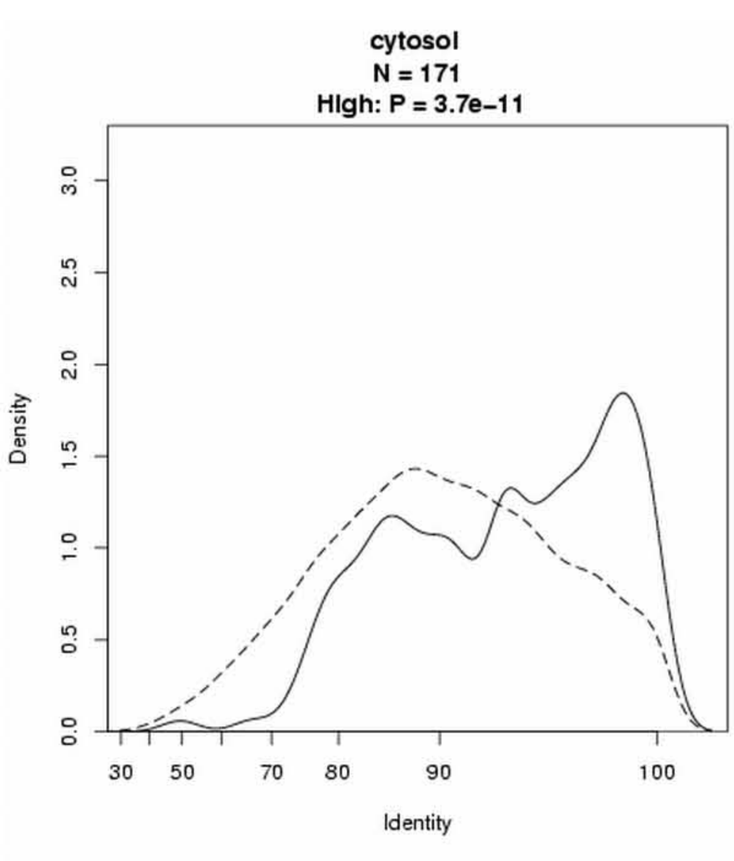


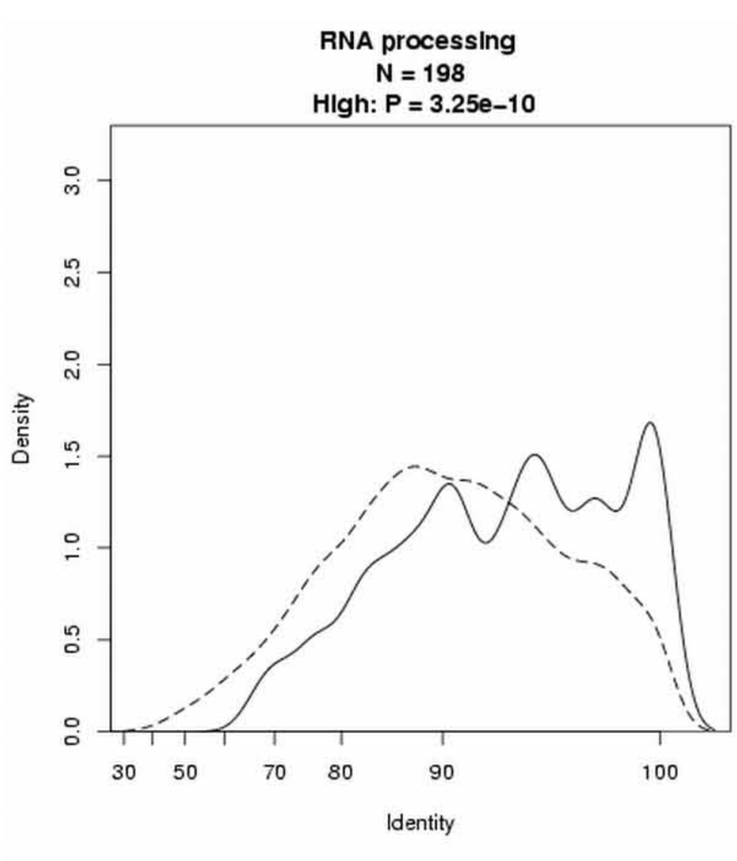


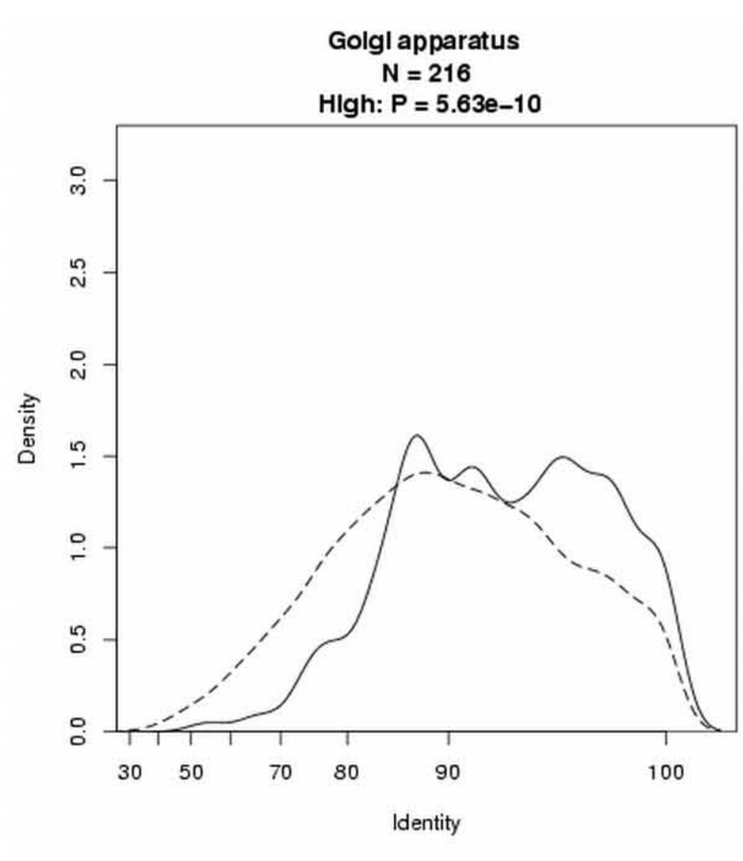


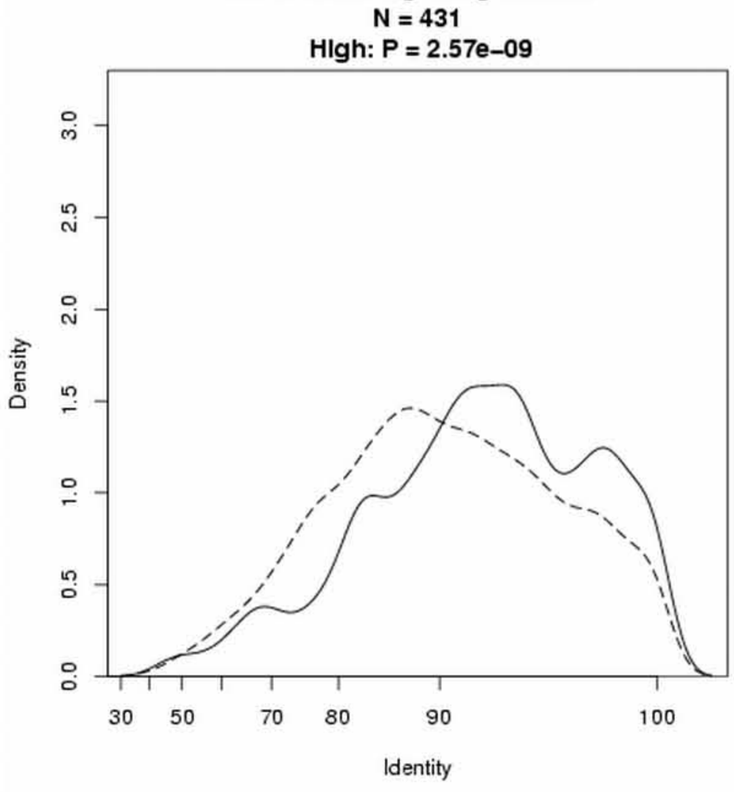


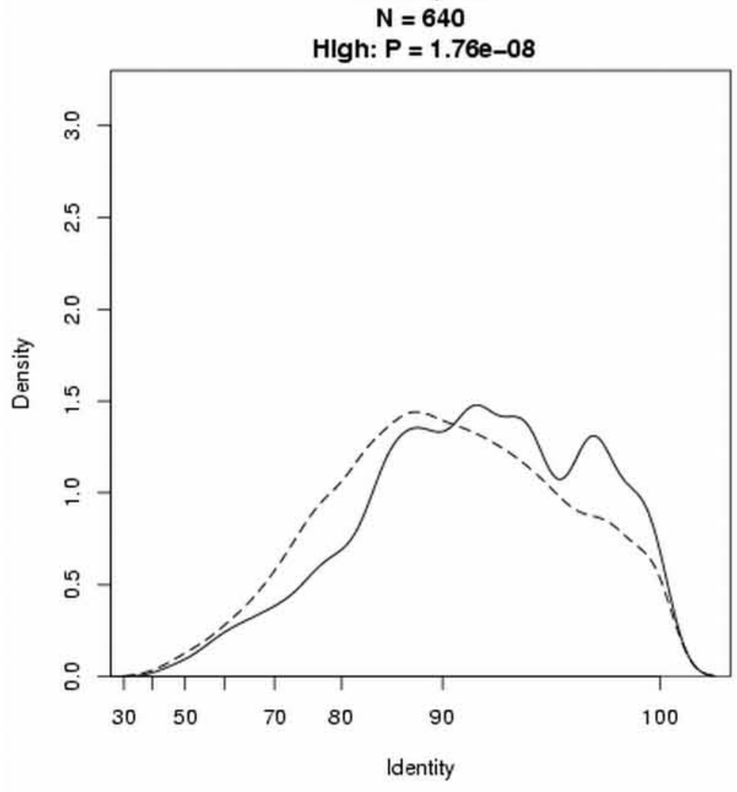


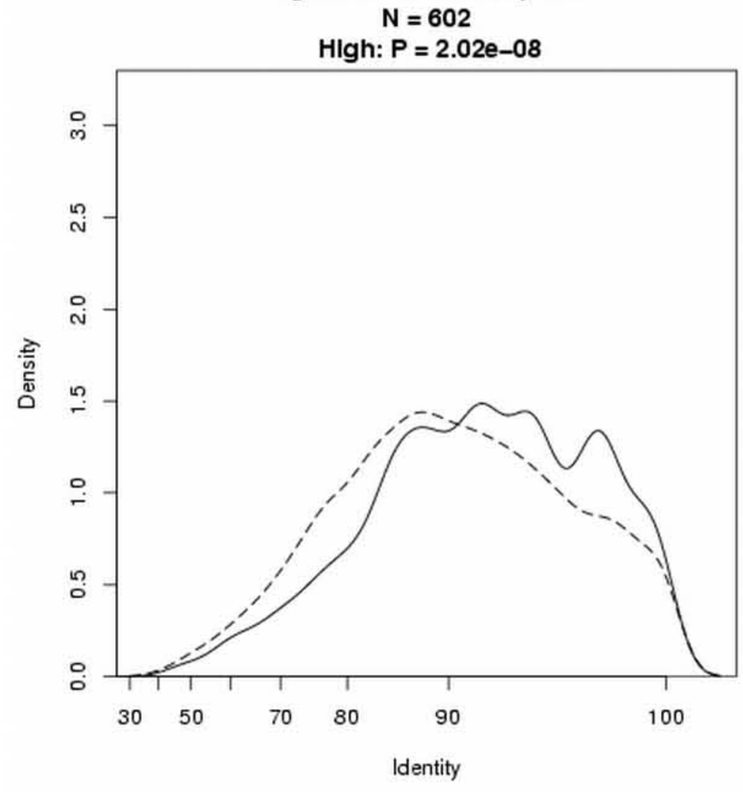


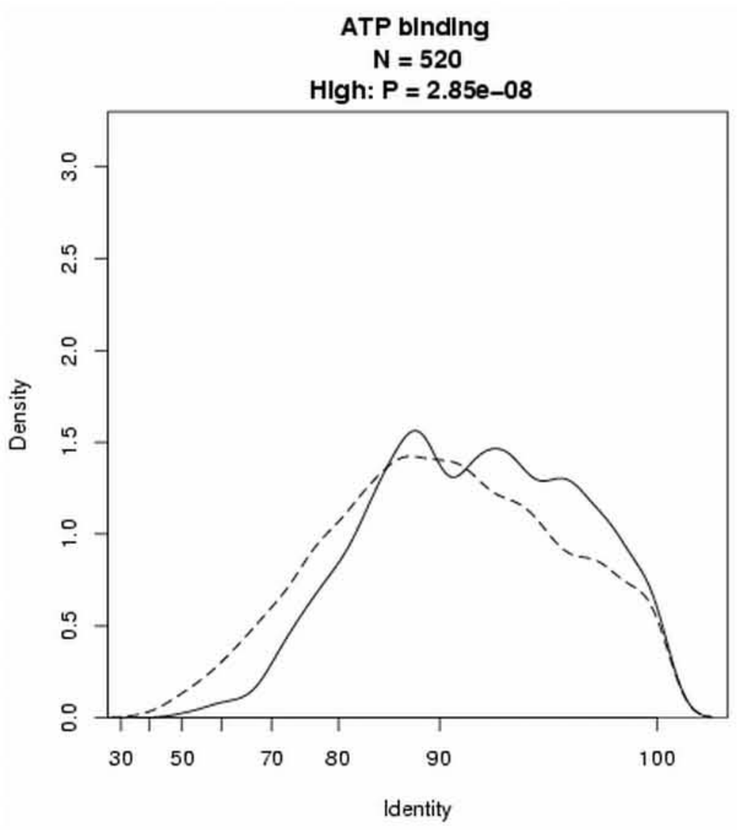


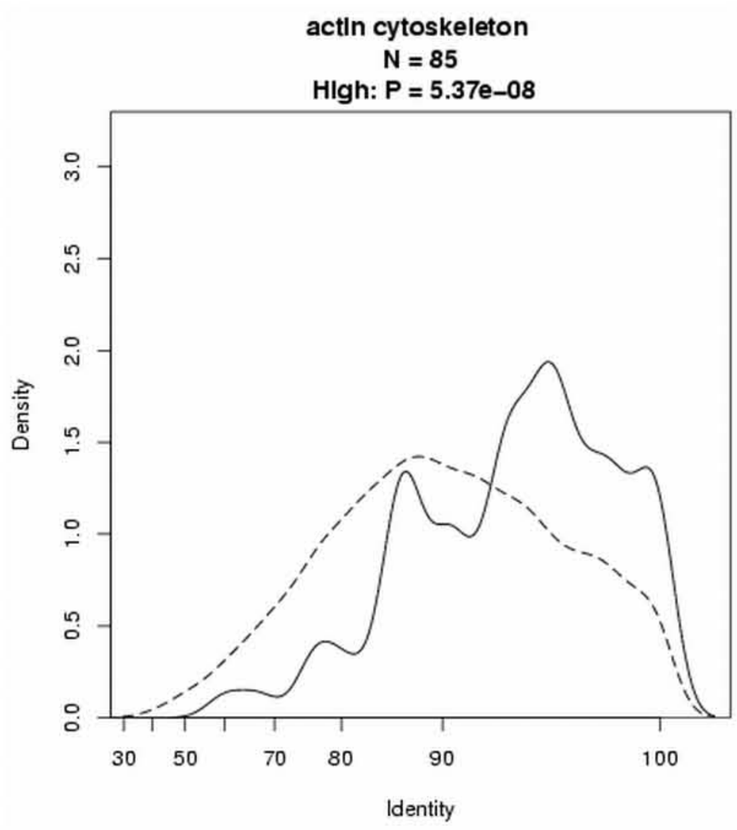


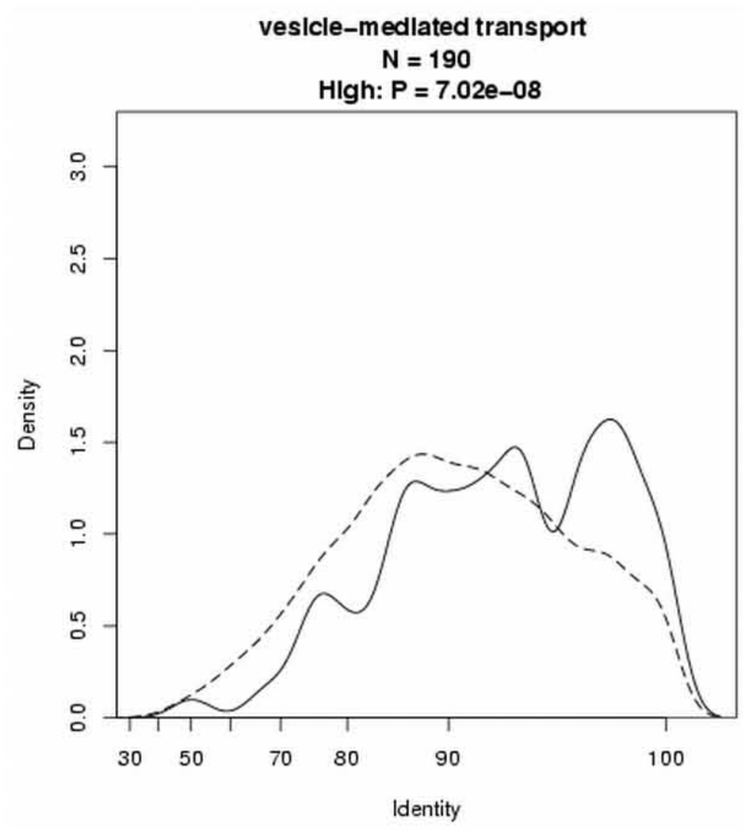


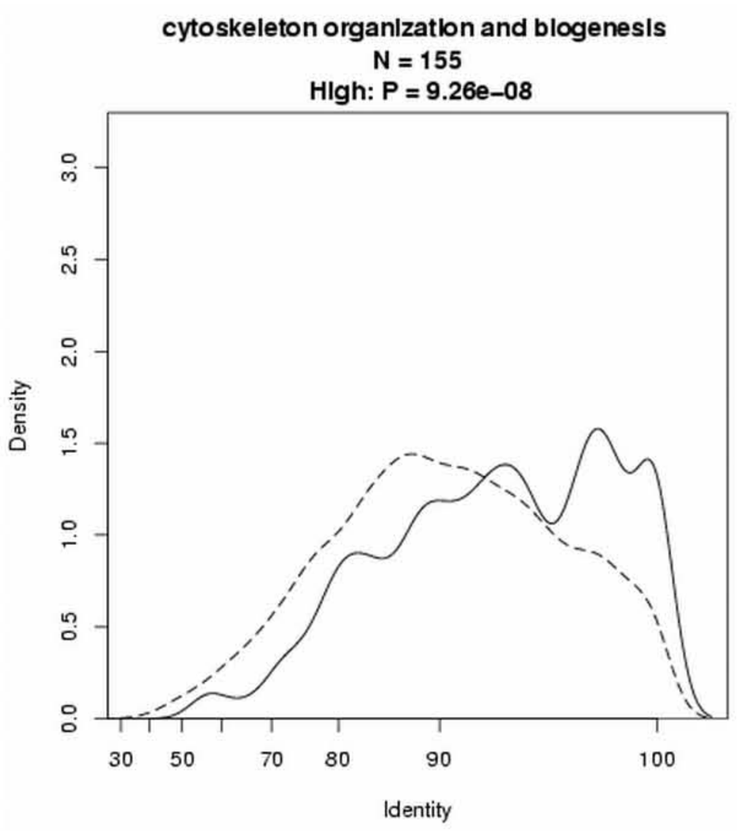


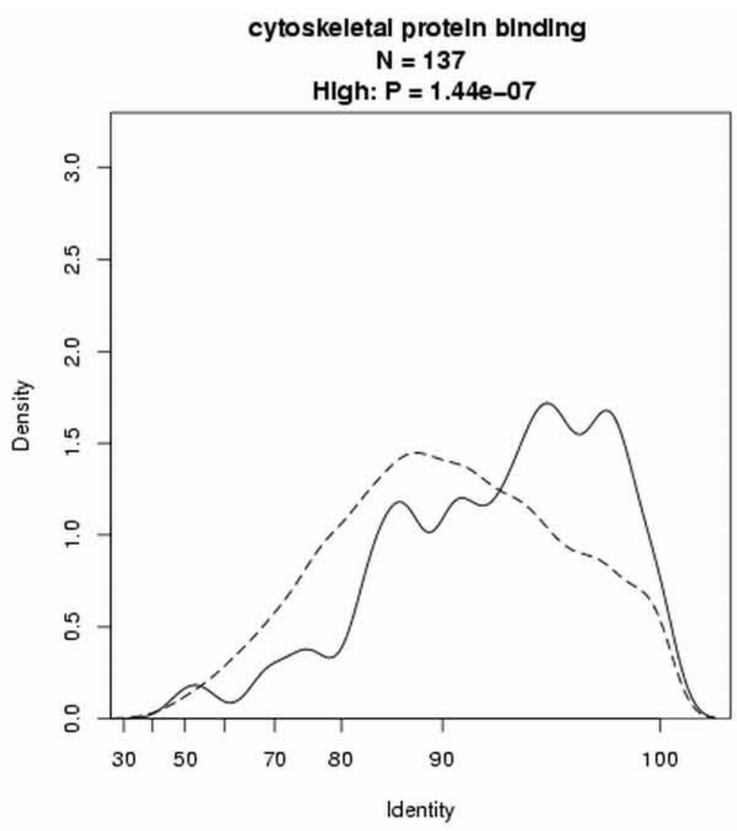


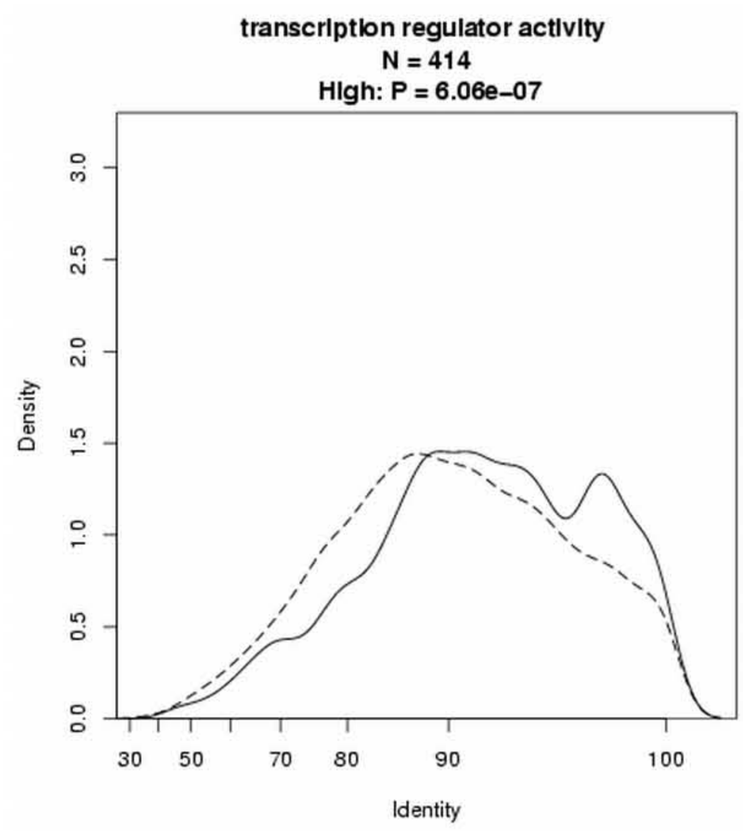

ATP binding
N = 520
High: P = 2.85e−08
Density
Identity

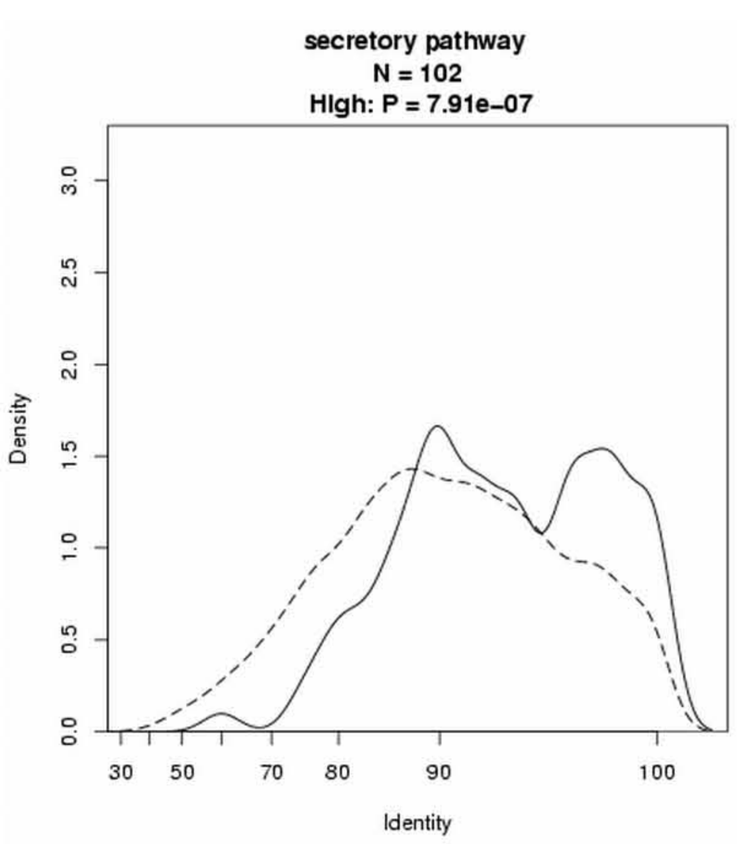

actin cytoskeleton
N = 85
High: P = 5.37e−08
Density
Identity

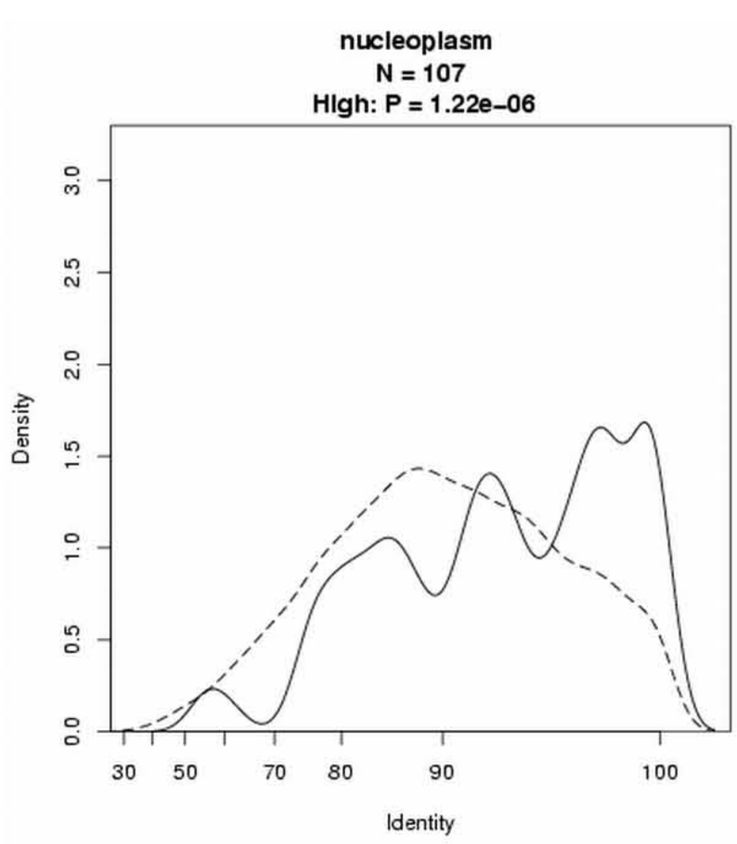

vesicle−mediated transport
N = 190
High: P = 7.02e−08
Density
Identity

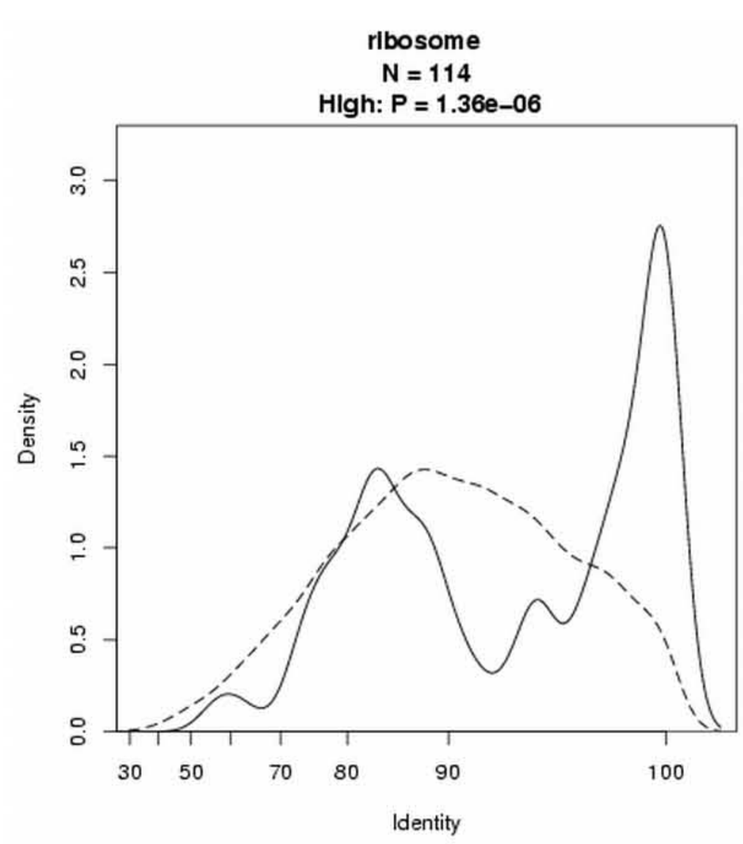

cytoskeleton organization and biogenesis
N = 155
High: P = 9.26e−08
Density
Identity

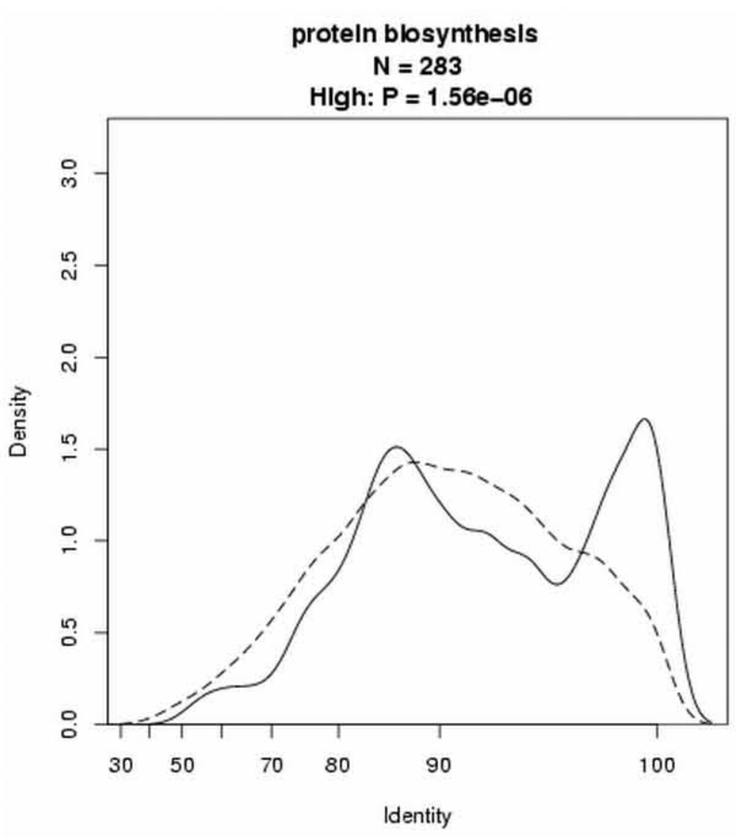

cytoskeletal protein binding
N = 137
High: P = 1.44e−07
Density
Identity

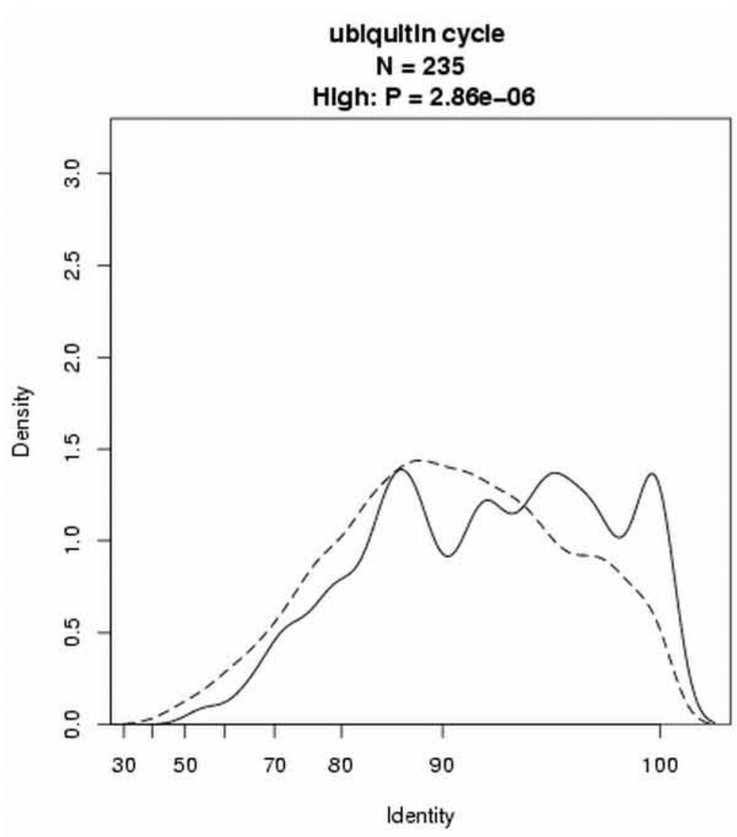

transcription regulator activity
N = 414
High: P = 6.06e−07
Density
Identity

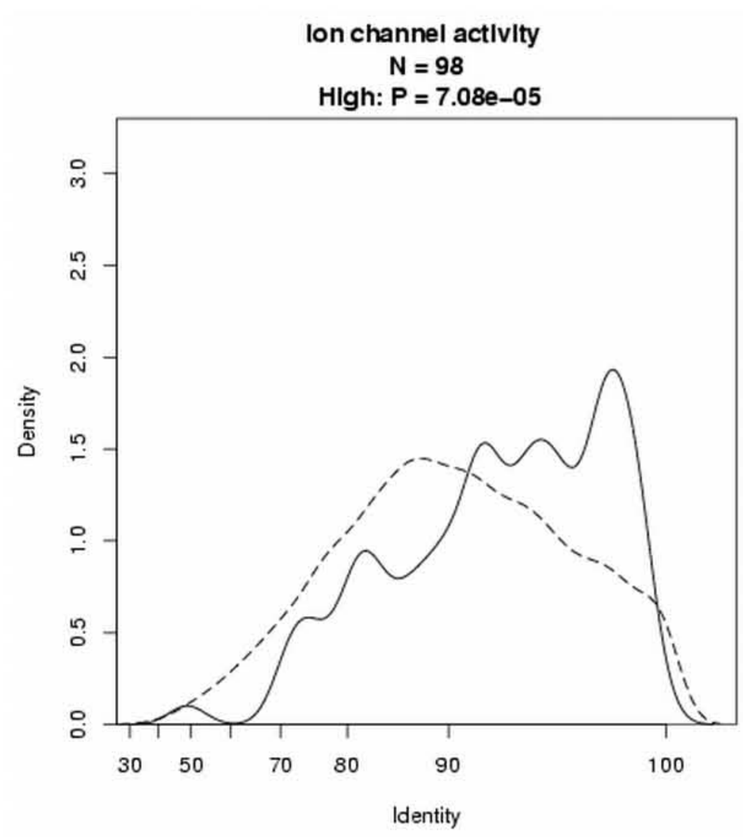

secretory pathway
N = 102
High: P = 7.91e−07
Density
Identity

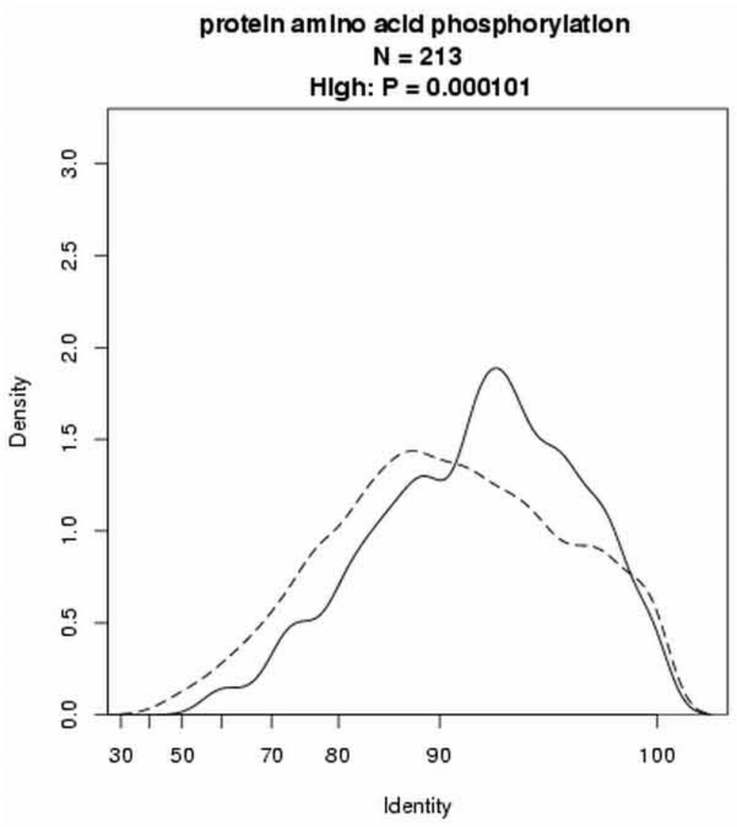

nucleoplasm
N = 107
High: P = 1.22e−06
Density
Identity

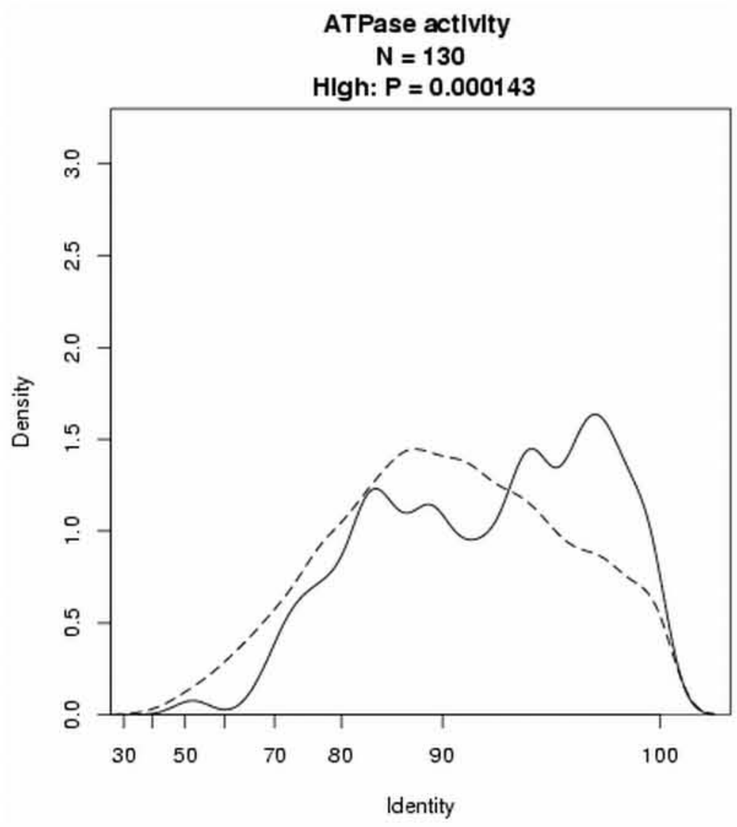

ribosome
N = 114
High: P = 1.36e−06
Density
Identity

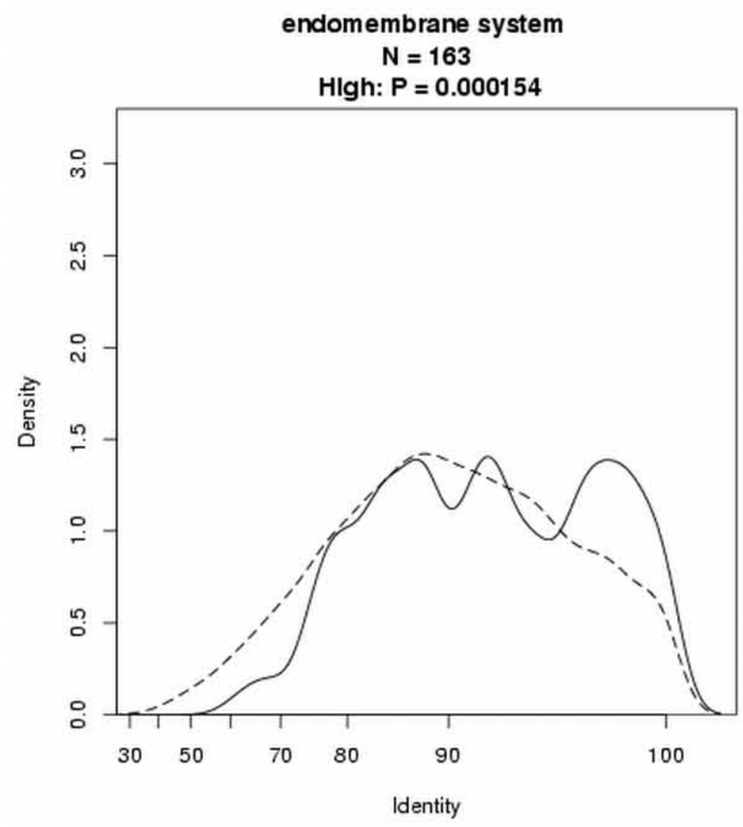

protein biosynthesis
N = 283
High: P = 1.56e−06
Density
Identity

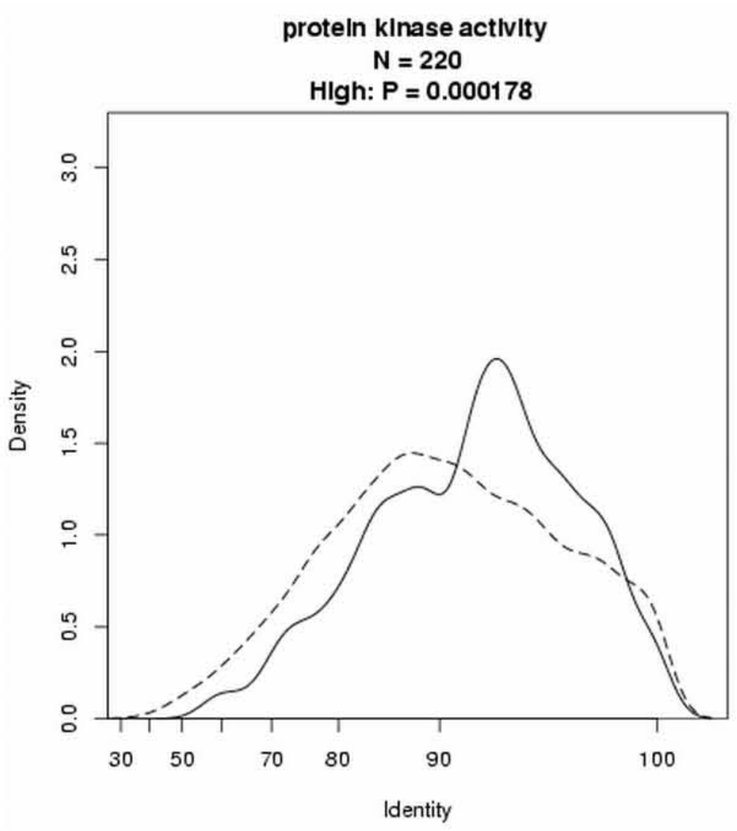

ubiquitin cycle
N = 235
High: P = 2.86e−06
Density
Identity

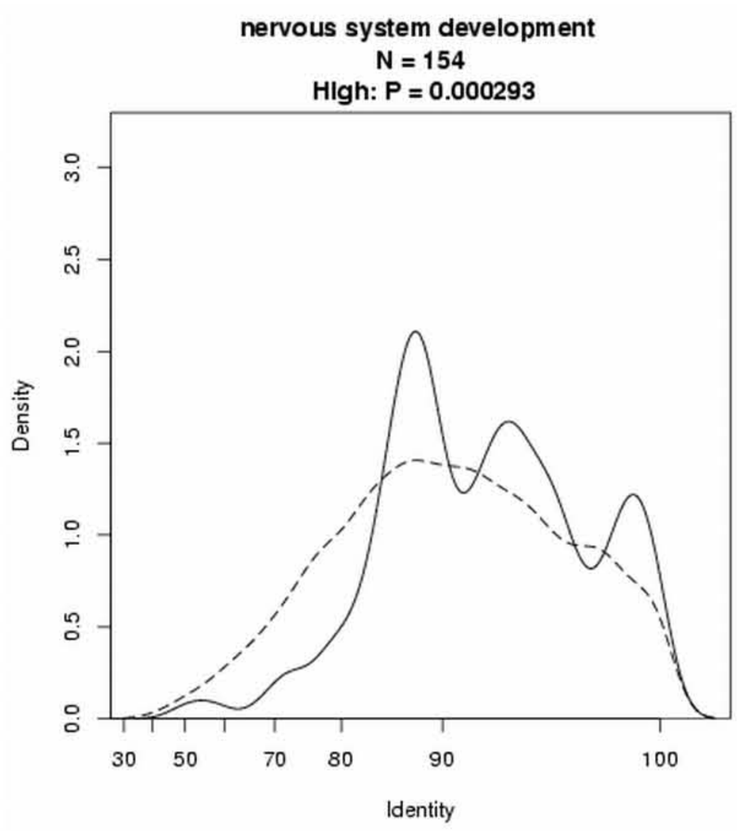

ion channel activity
N = 98
High: P = 7.08e−05
Density
Identity

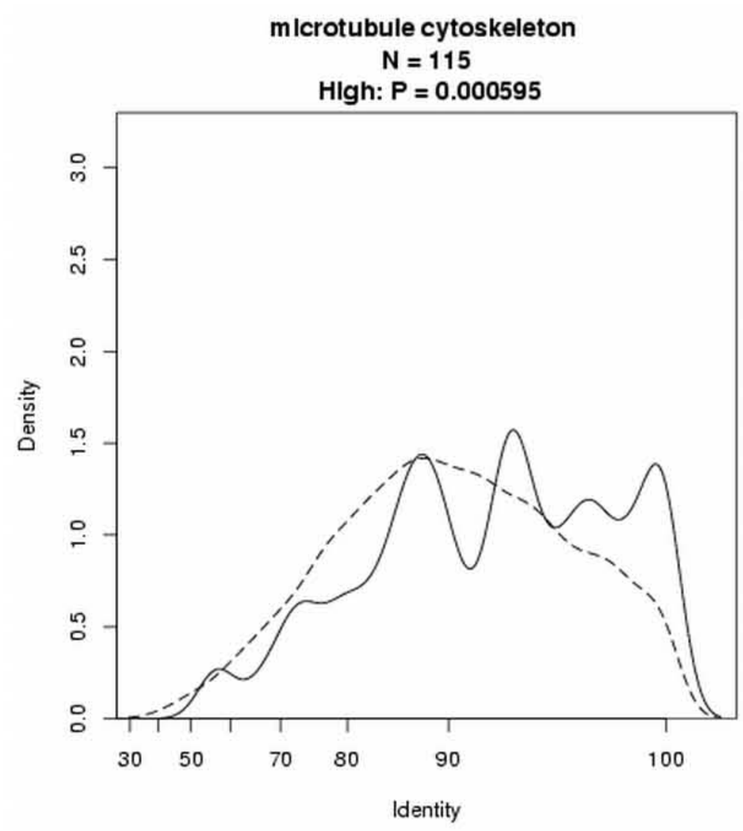

protein amino acid phosphorylation
N = 213
High: P = 0.000101
Density
Identity

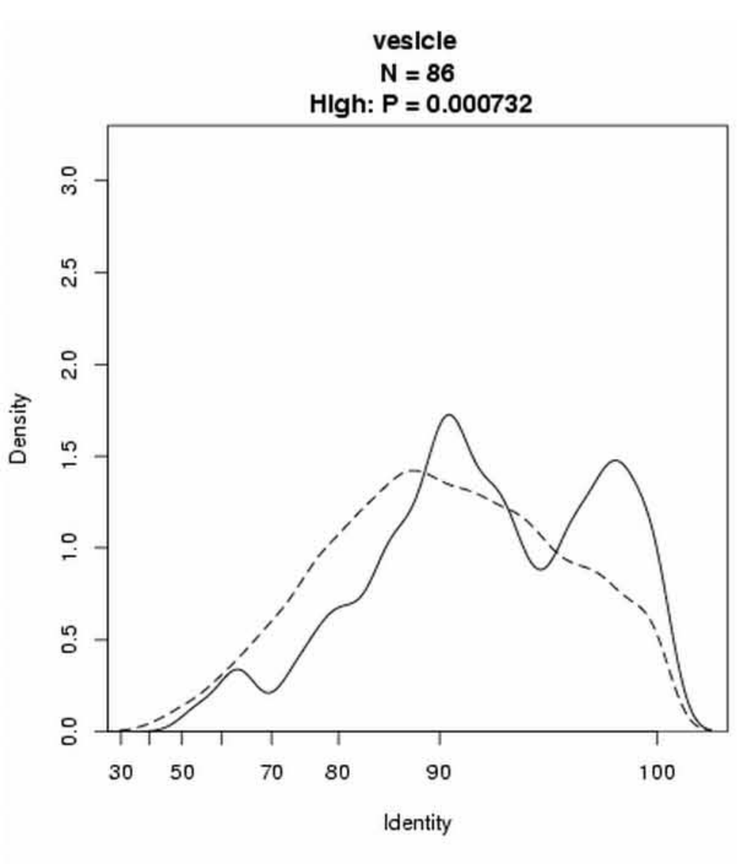

ATPase activity
N = 130
High: P = 0.000143
Density
Identity

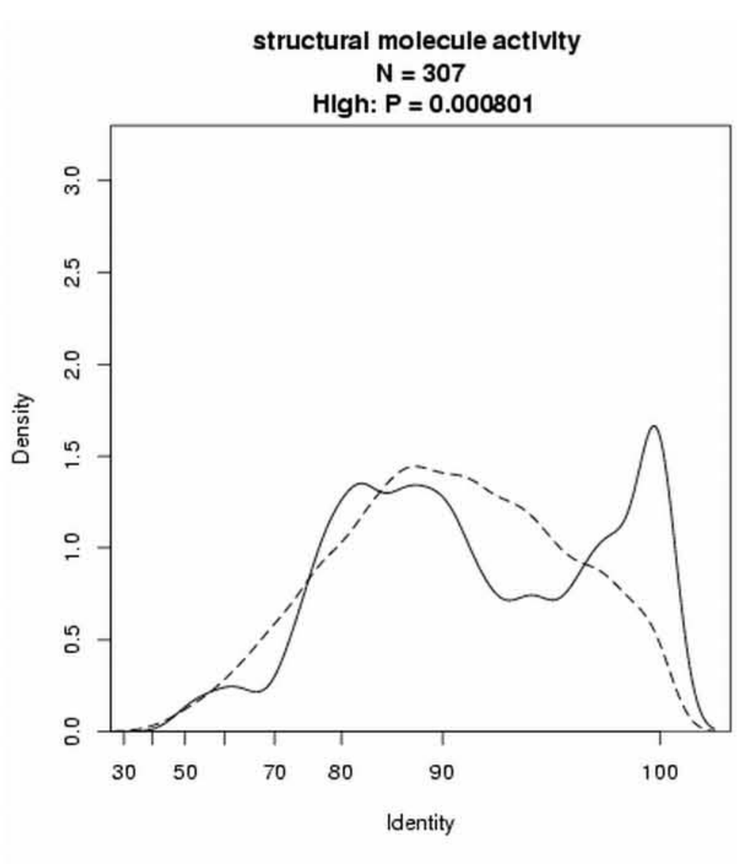

endomembrane system
N = 163
High: P = 0.000154
Density
Identity

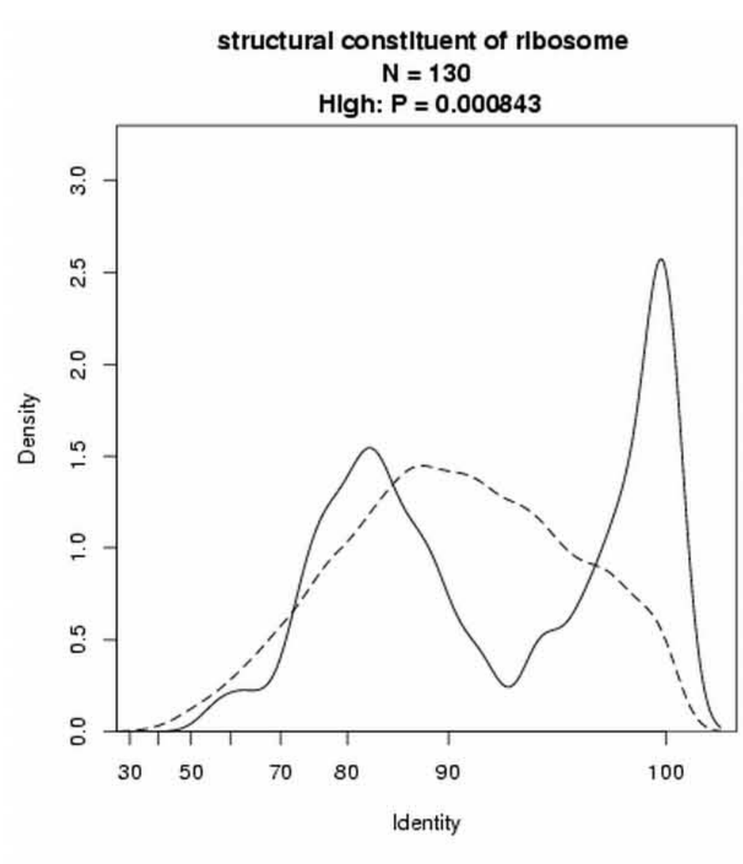

protein kinase activity
N = 220
High: P = 0.000178
Density
Identity

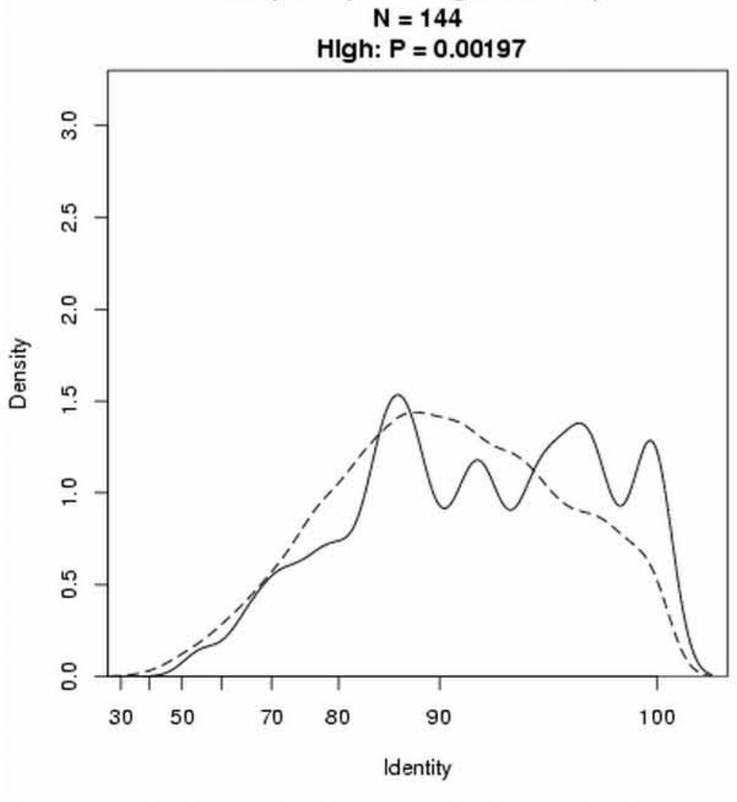

nervous system development
N = 154
High: P = 0.000293
Density
Identity

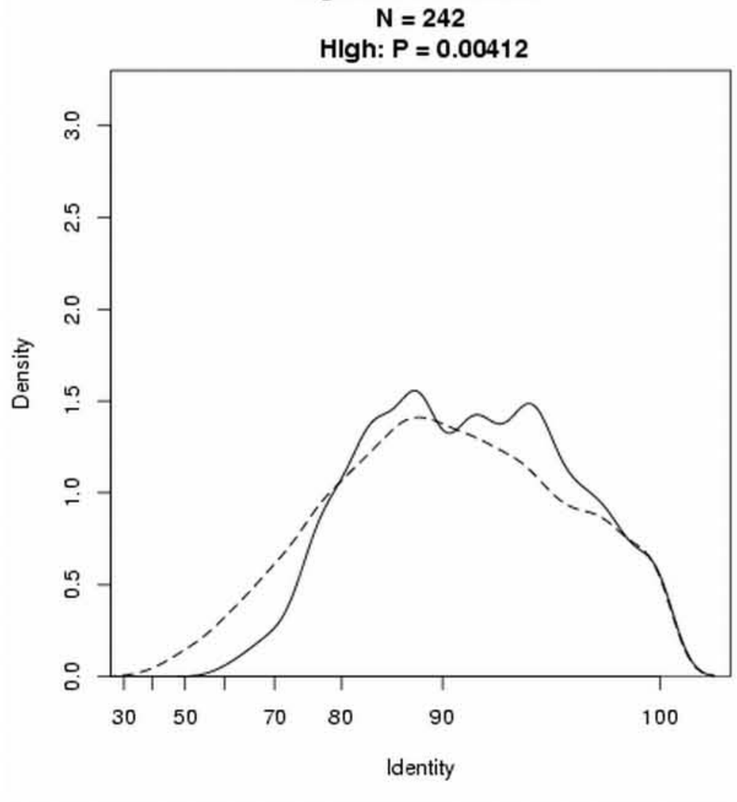

microtubule cytoskeleton
N = 115
High: P = 0.000595
Density
Identity

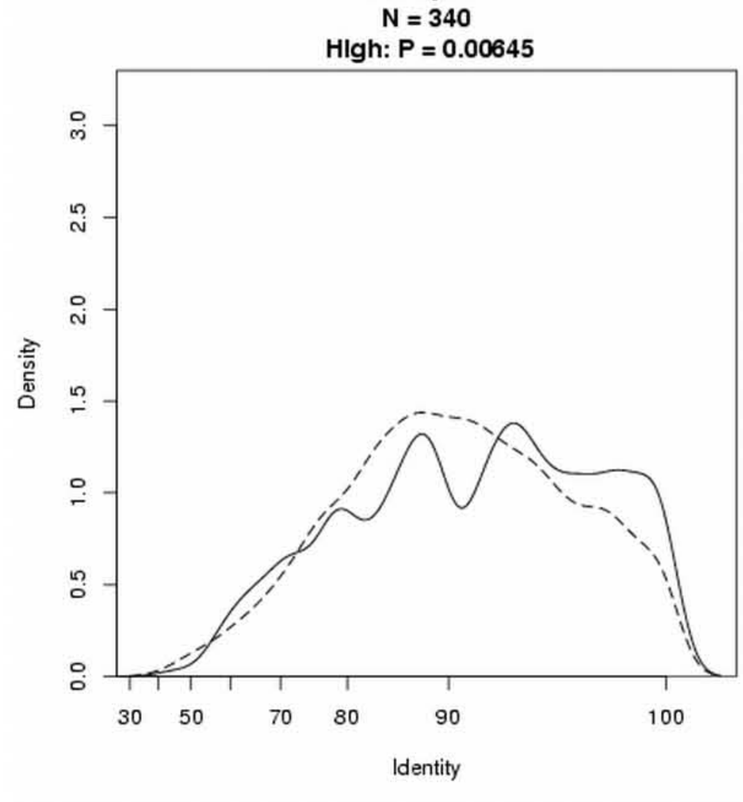

vesicle
N = 86
High: P = 0.000732
Density
Identity


structural molecule activity
N = 307
High: P = 0.000801
Density
Identity

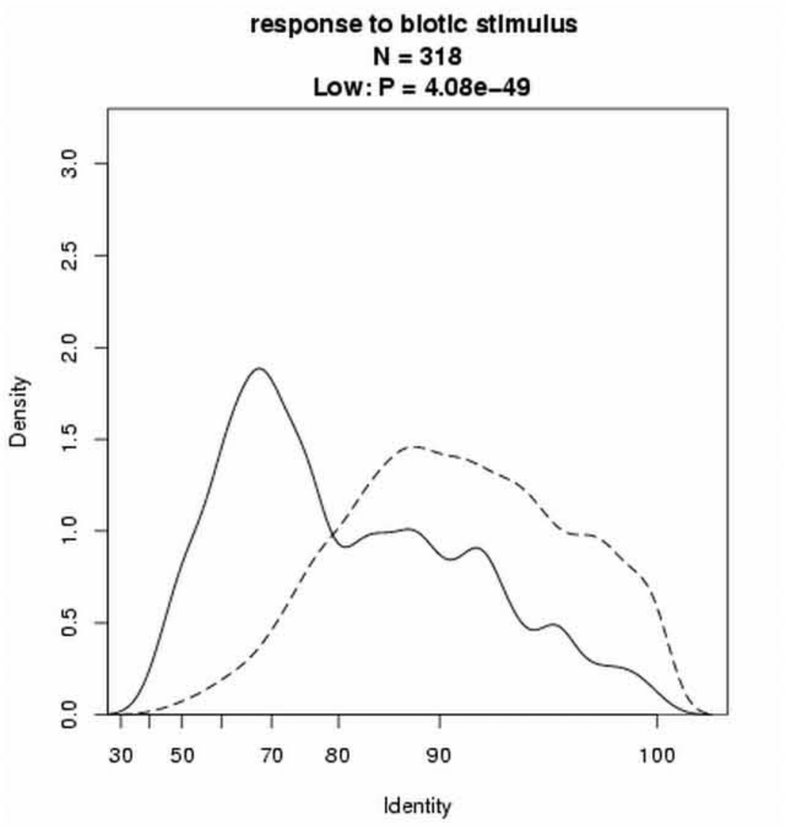

structural constituent of ribosome
N = 130
High: P = 0.000843
Density
Identity

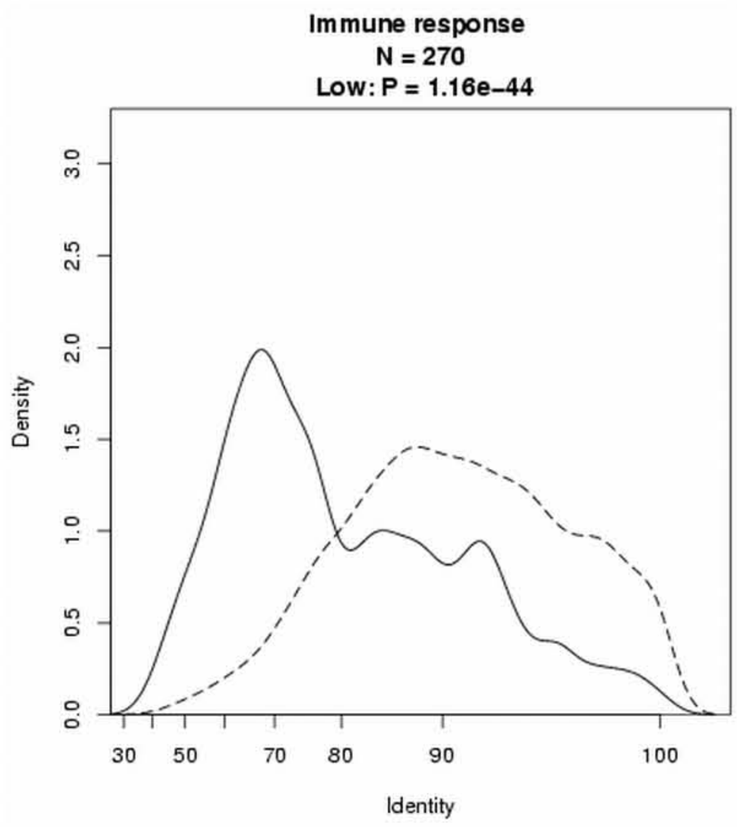

ubiquitin−protein ligase activity
N = 144
High: P = 0.00197
Density
Identity

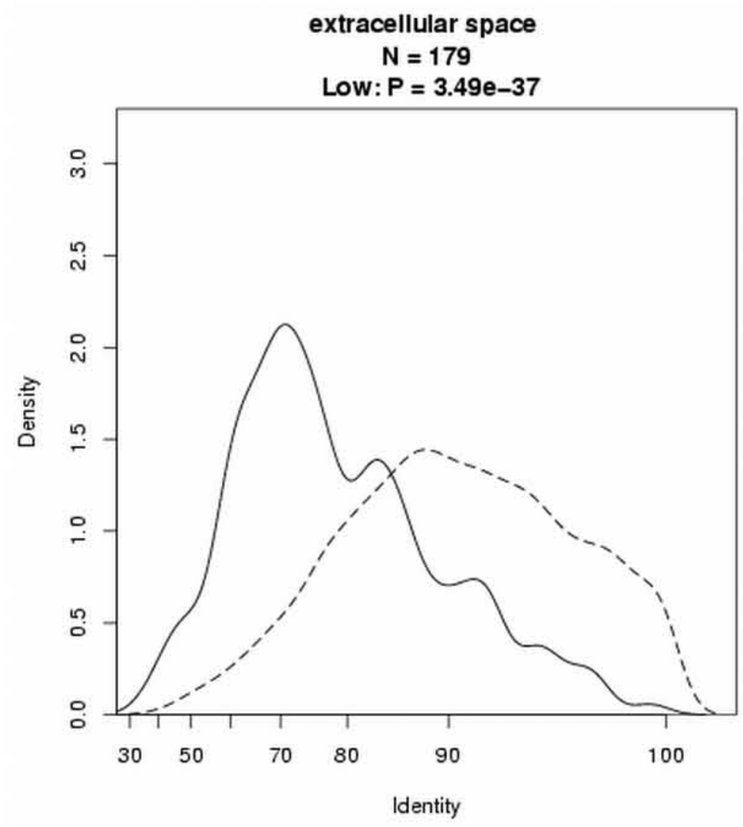

organelle membrane
N = 242
High: P = 0.00412
Density
Identity

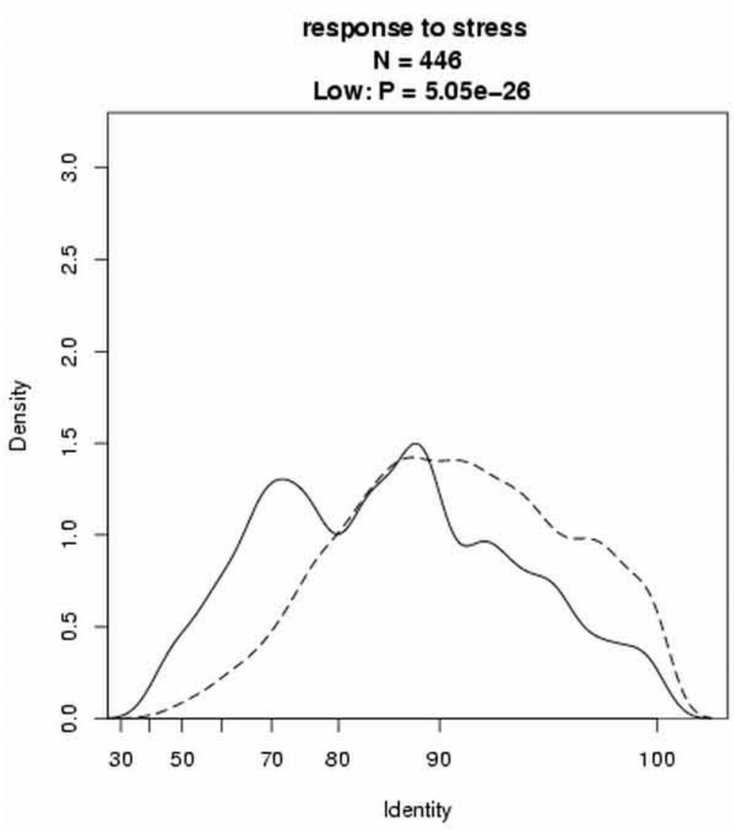

cell cycle
N = 340
High: P = 0.00645
Density
Identity

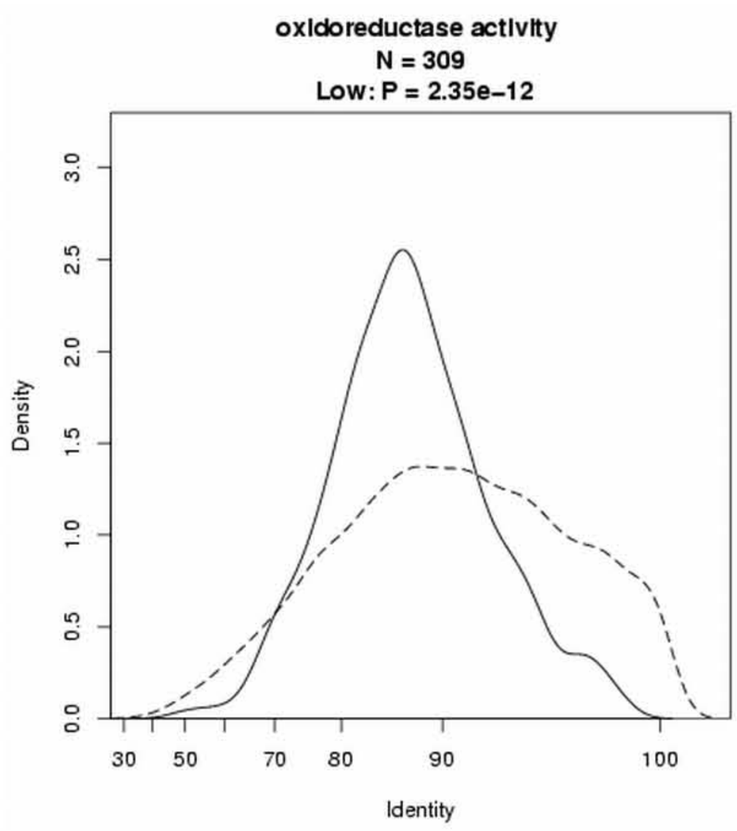
B

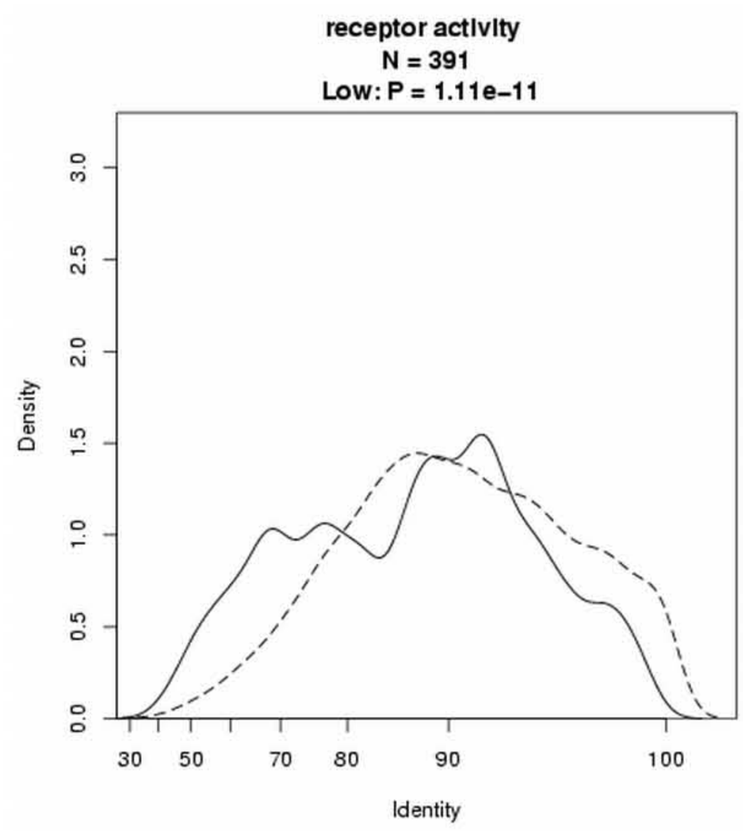

response to biotic stimulus
N = 318
Low: P = 4.08e−49
Density
Identity

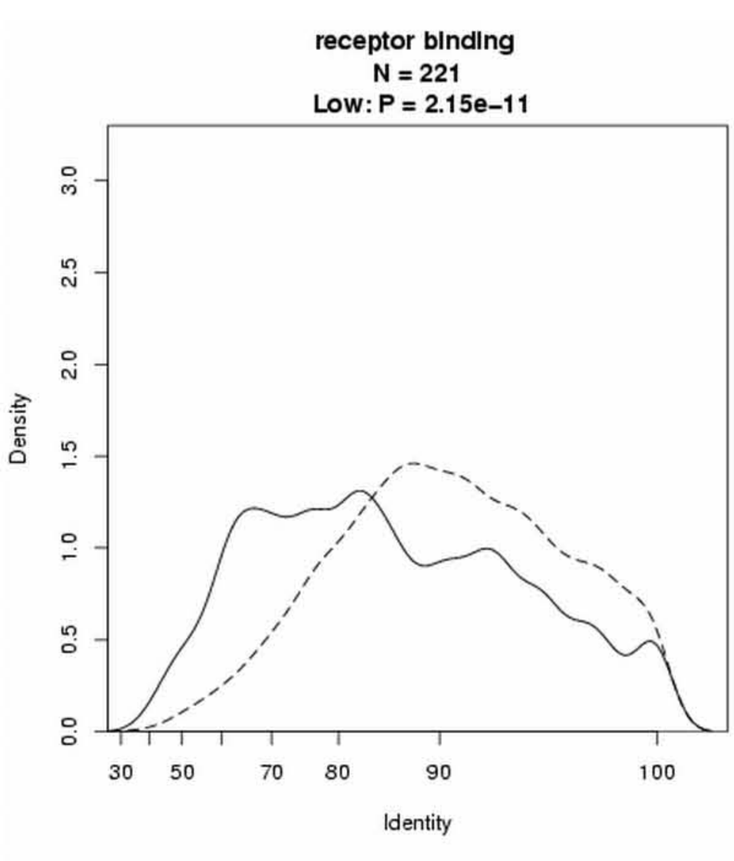

immune response
N = 270
Low: P = 1.16e−44
Density
Identity

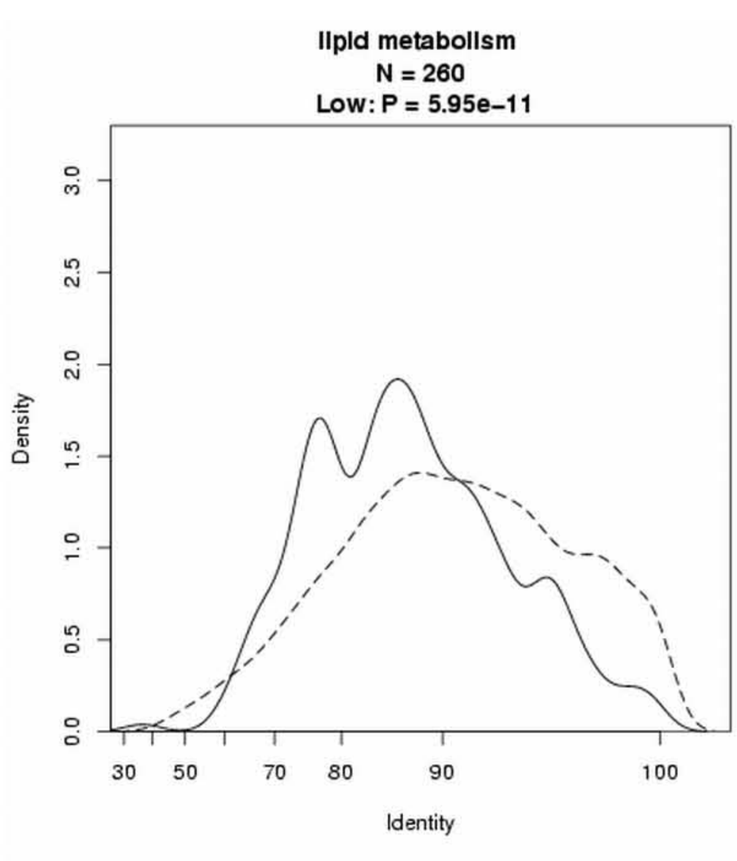

extracellular space
N = 179
Low: P = 3.49e−37
Density
Identity

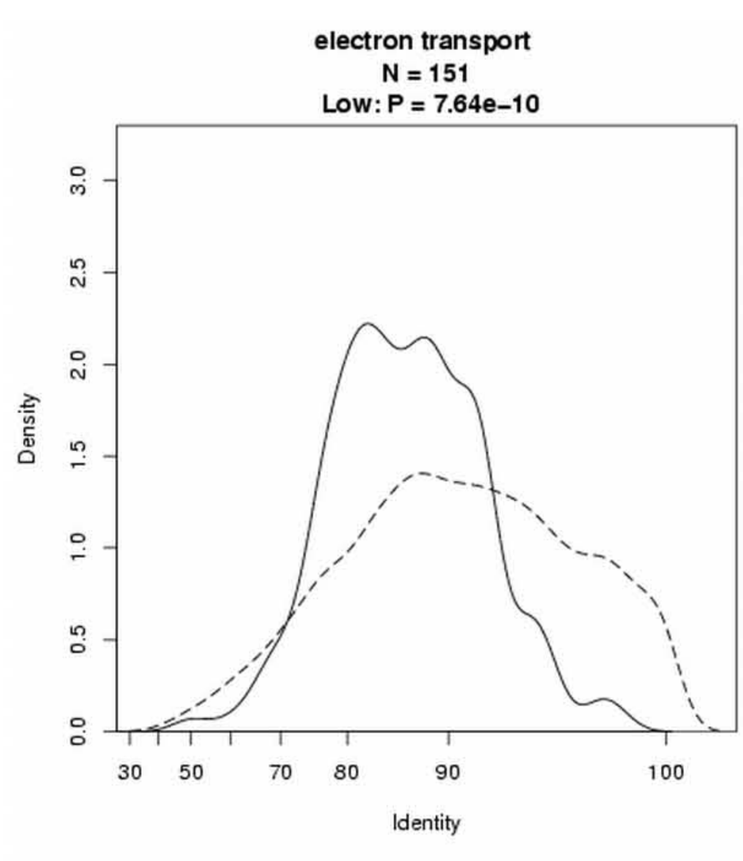

response to stress
N = 446
Low: P = 5.05e−26
Density
Identity

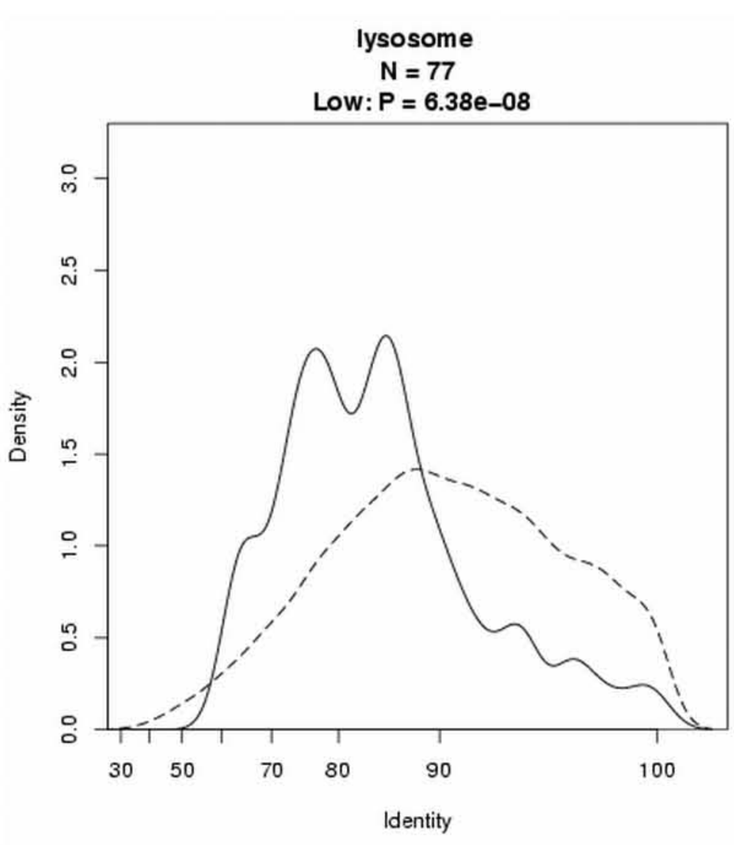

oxidoreductase activity
N = 309
Low: P = 2.35e−12
Density
Identity

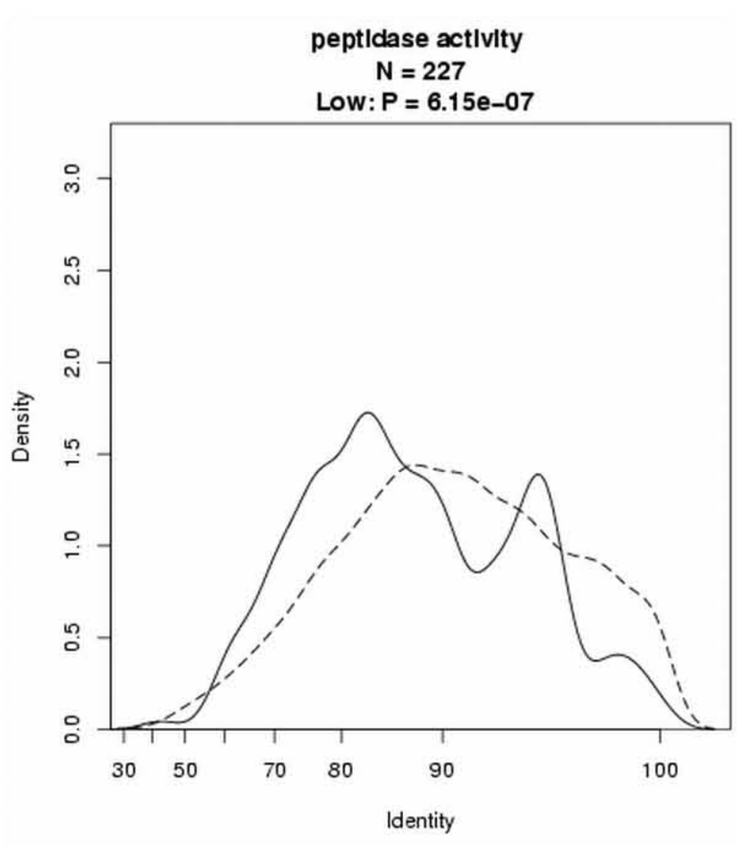

receptor activity
N = 391
Low: P = 1.11e−11
Density
Identity

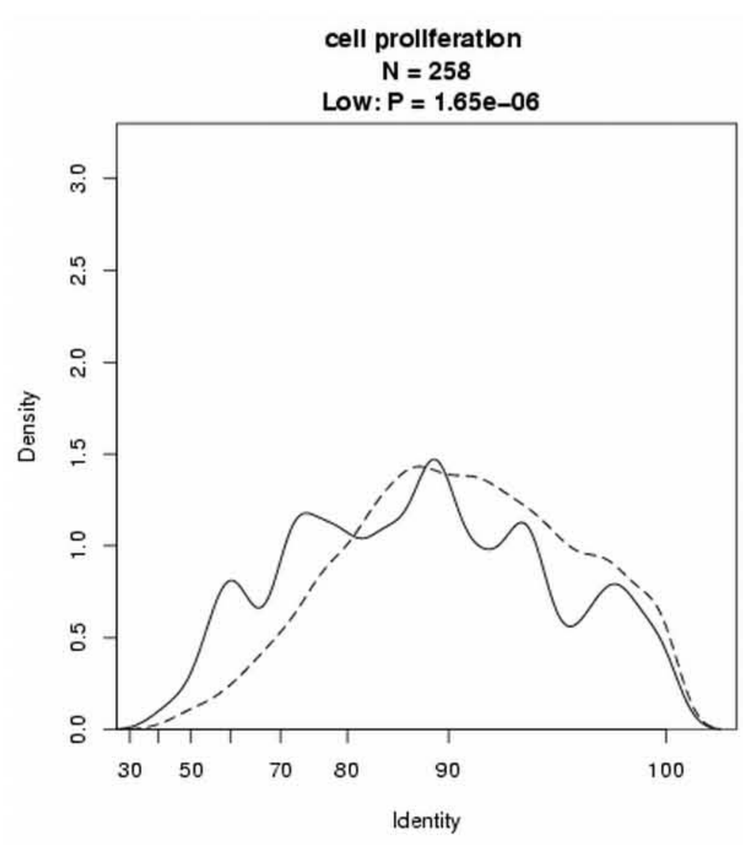

receptor binding
N = 221
Low: P = 2.15e−11
Density
Identity

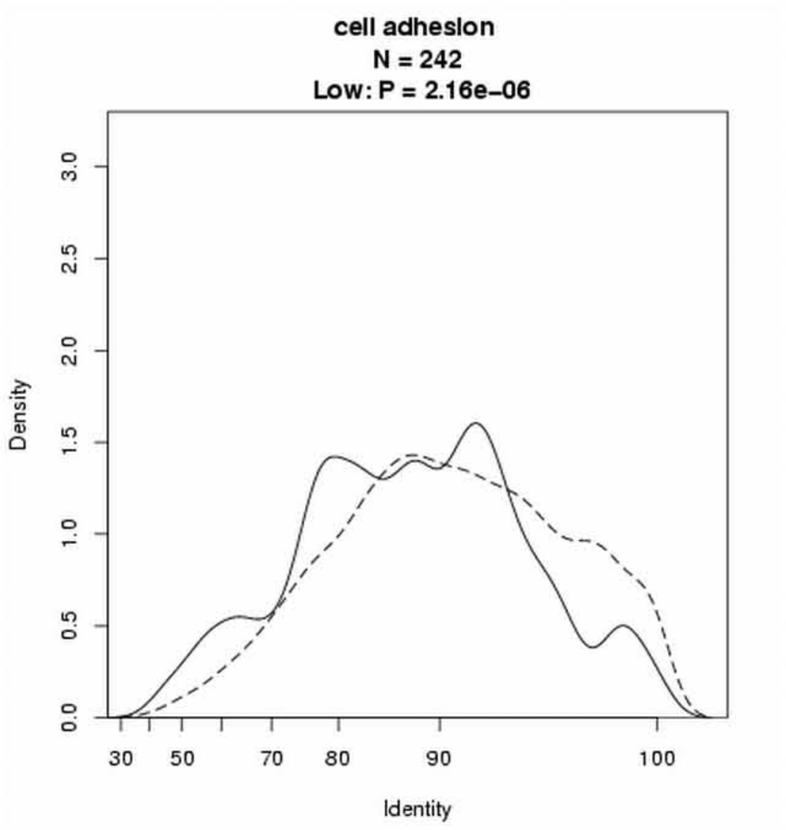

lipid metabolism
N = 260
Low: P = 5.95e−11
Density
Identity

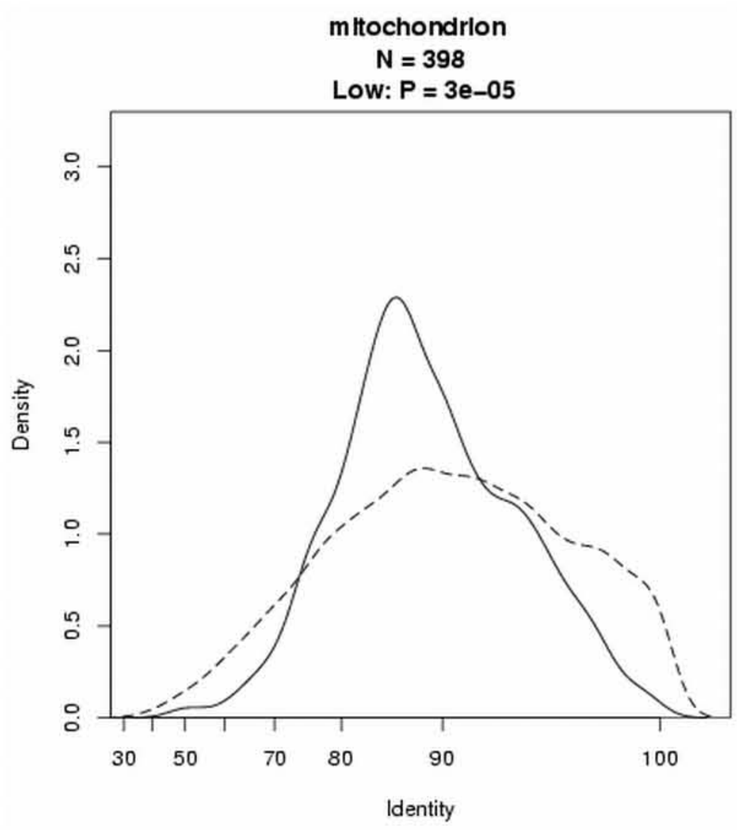

electron transport
N = 151
Low: P = 7.64e−10
Density
Identity

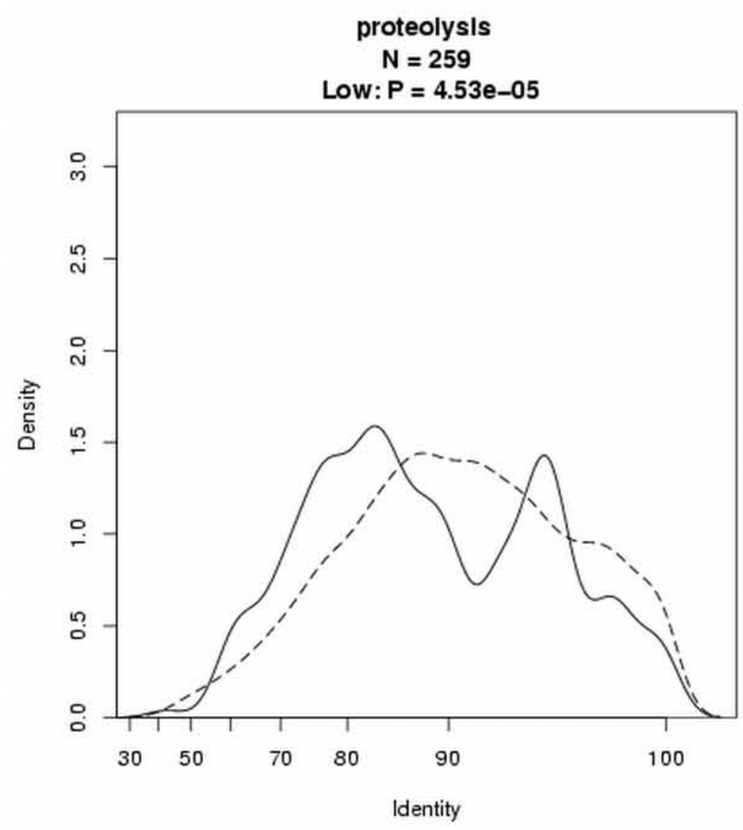

lysosome
N = 77
Low: P = 6.38e−08
Density
Identity

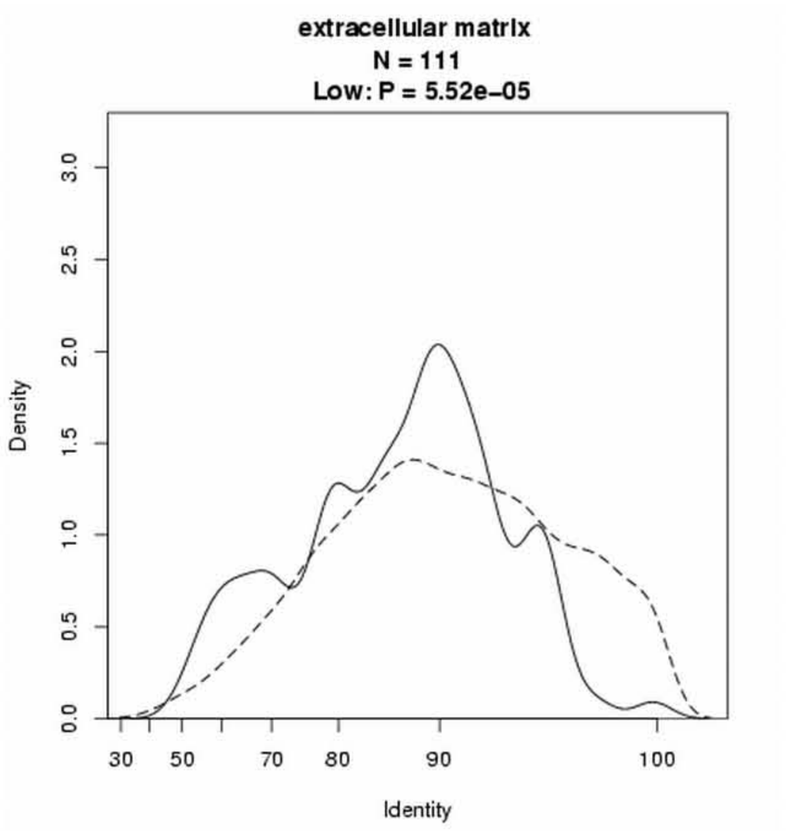

peptidase activity
N = 227
Low: P = 6.15e−07
Density
Identity

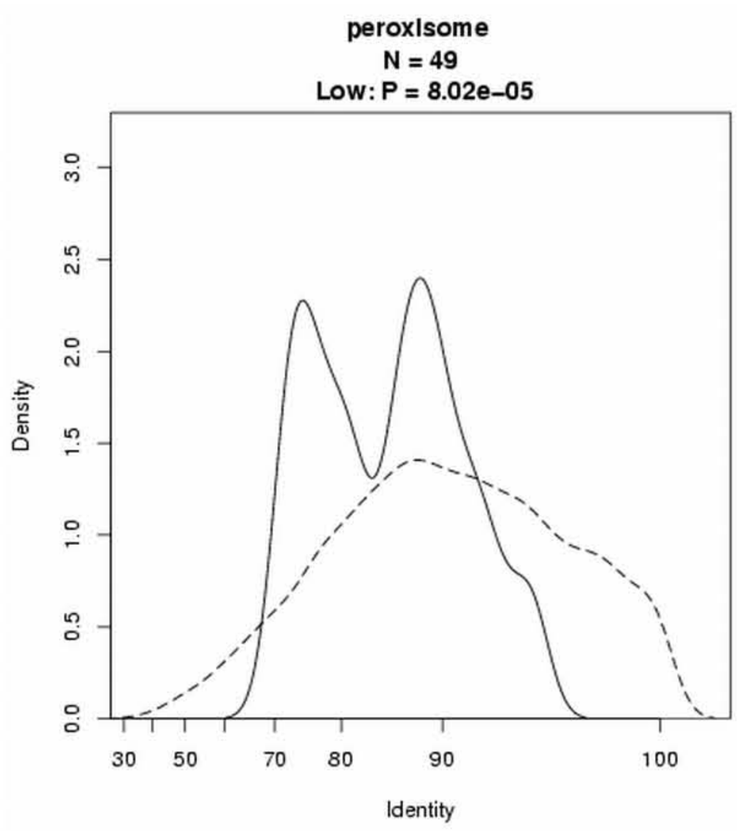

cell proliferation
N = 258
Low: P = 1.65e−06
Density
Identity

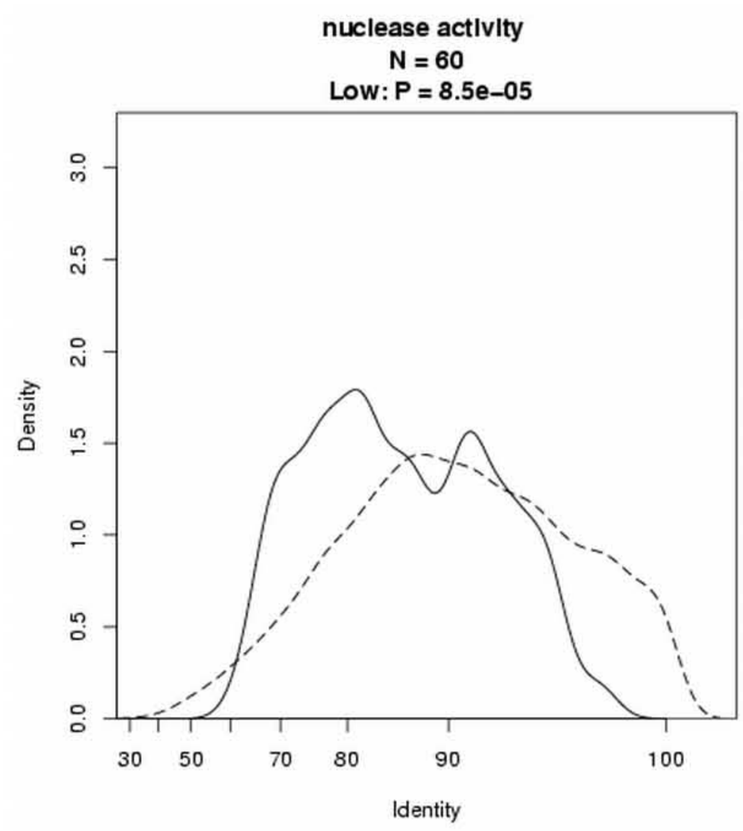

cell adhesion
N = 242
Low: P = 2.16e−06
Density
Identity

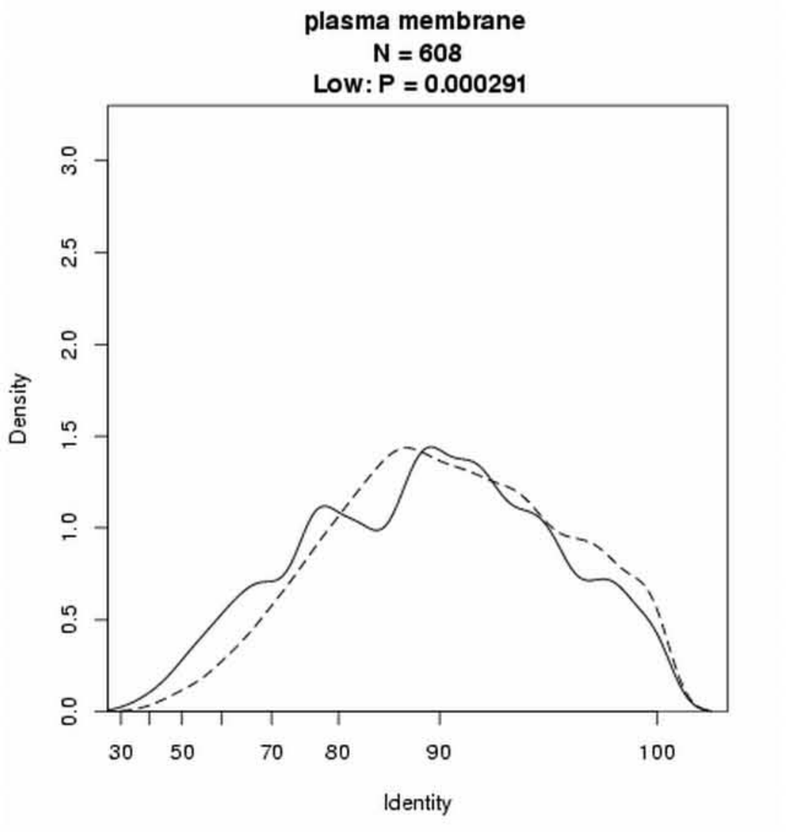

mitochondrion
N = 398
Low: P = 3e−05
Density
Identity

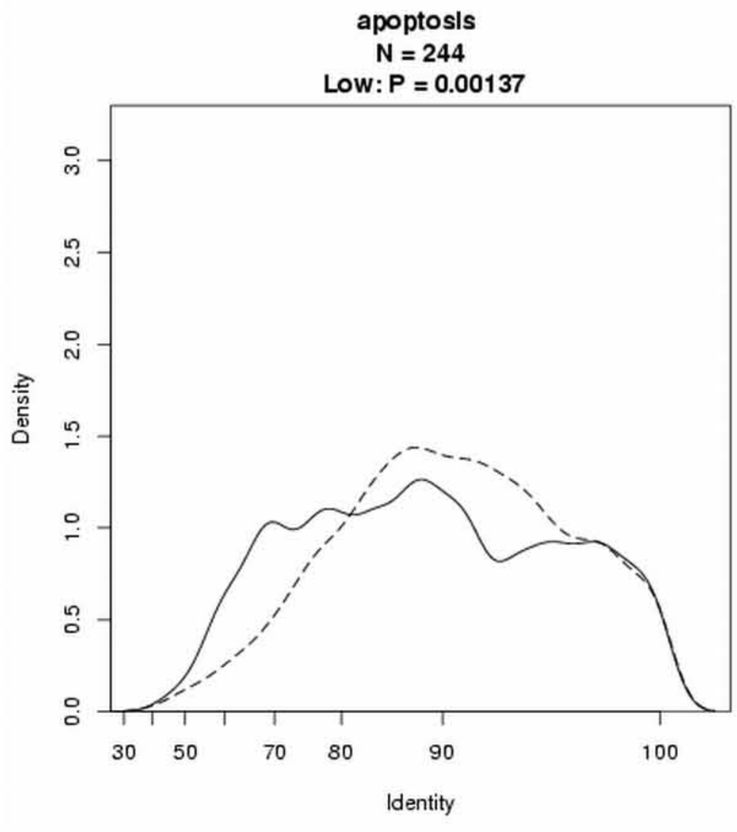

proteolysis
N = 259
Low: P = 4.53e−05
Density
Identity

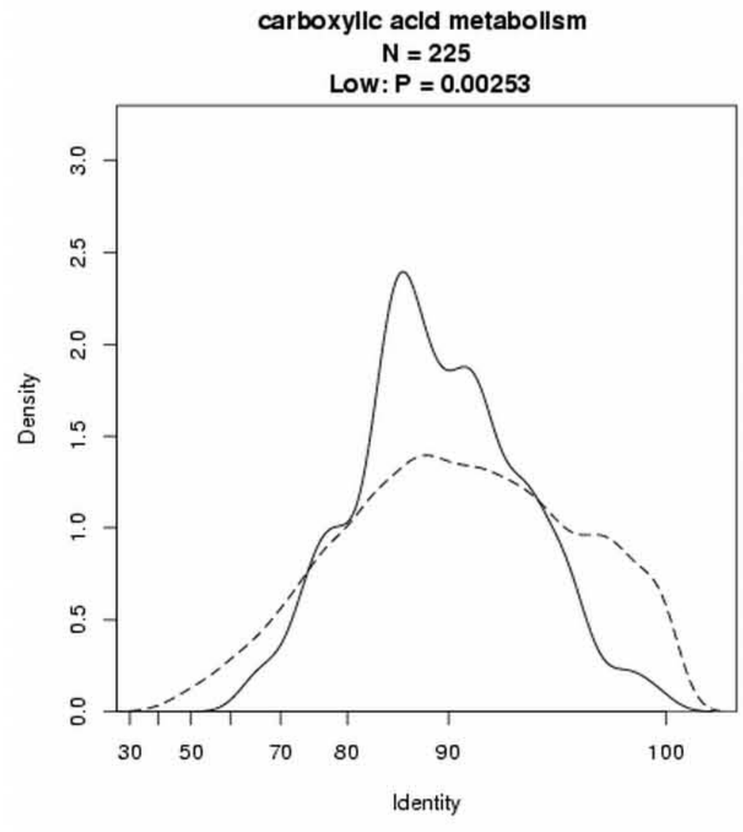

extracellular matrix
N = 111
Low: P = 5.52e−05
Density
Identity

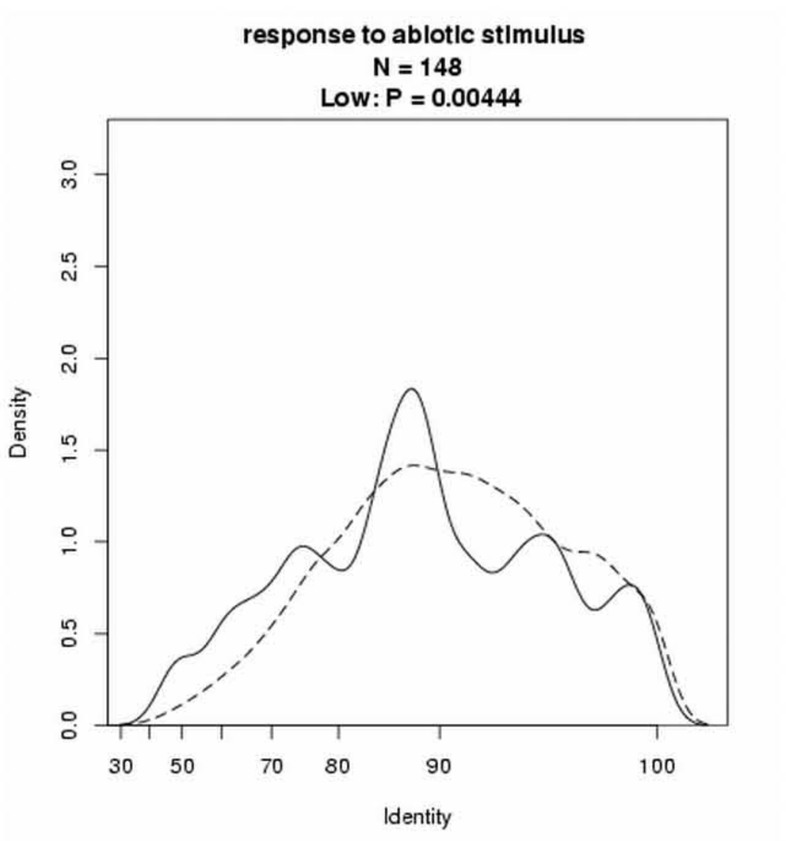

peroxisome
N = 49
Low: P = 8.02e−05
Density
Identity

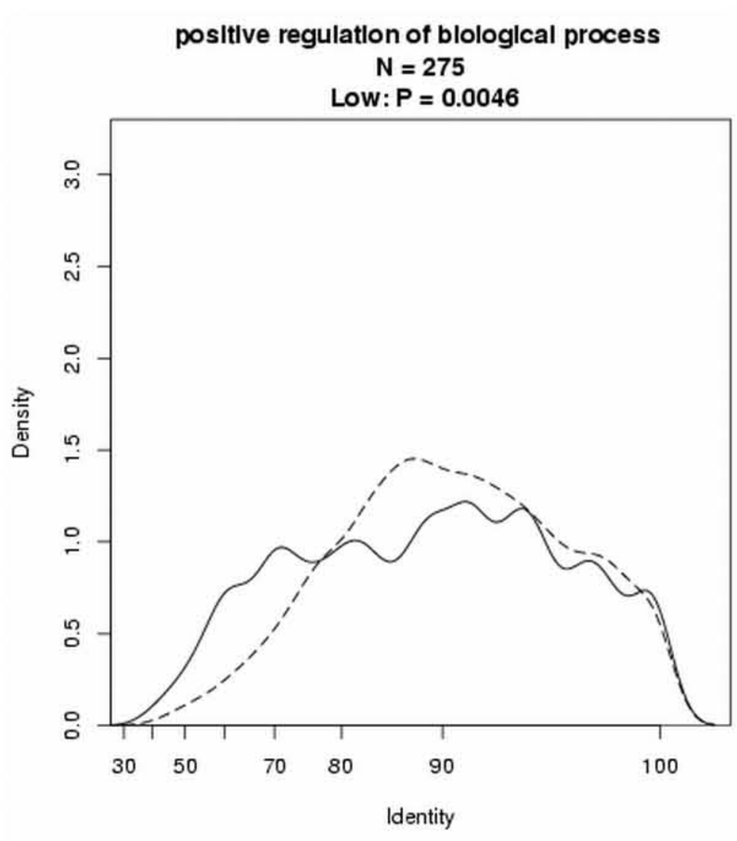

nuclease activity
N = 60
Low: P = 8.5e−05
Density
Identity

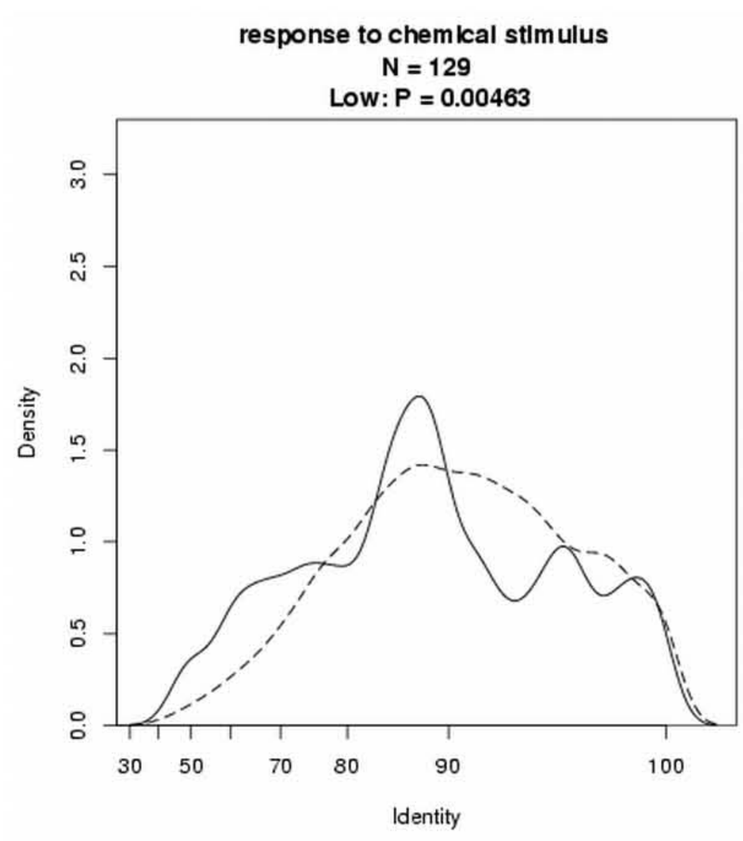

plasma membrane
N = 608
Low: P = 0.000291
Density
Identity

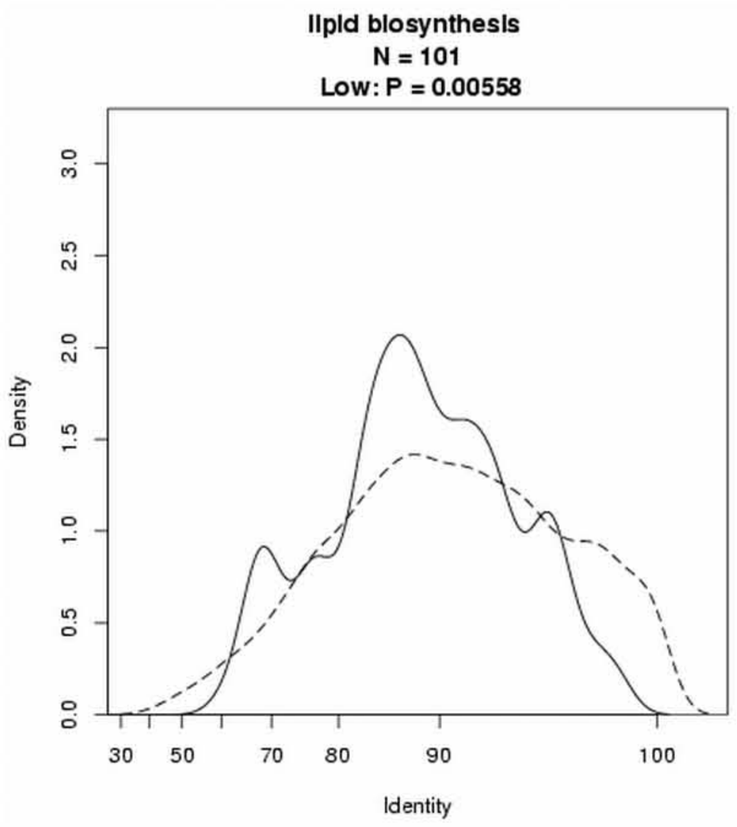

apoptosis
N = 244
Low: P = 0.00137
Density
Identity

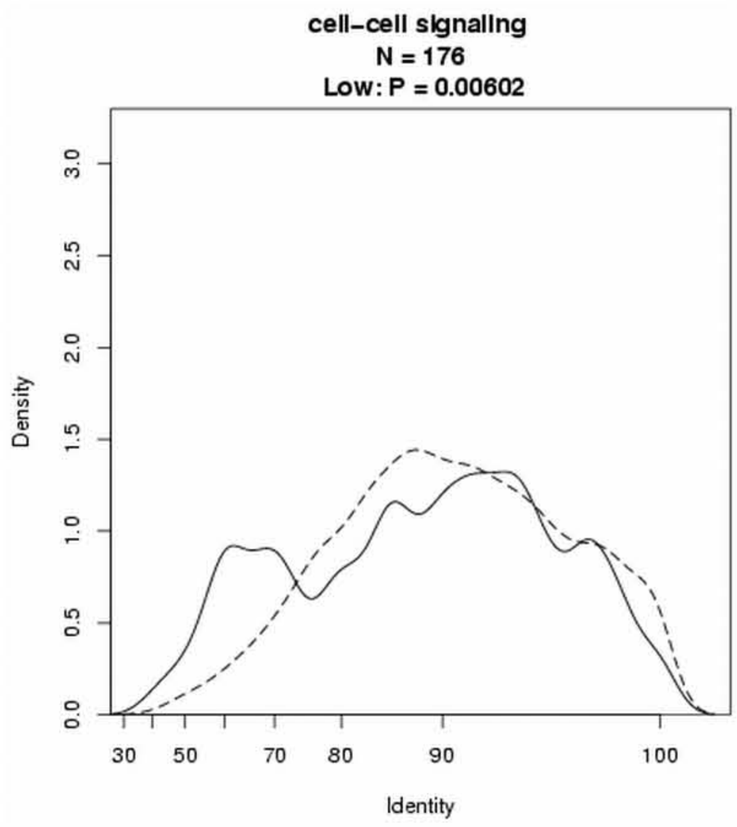

carboxylic acid metabolism
N = 225
Low: P = 0.00253
Density
Identity

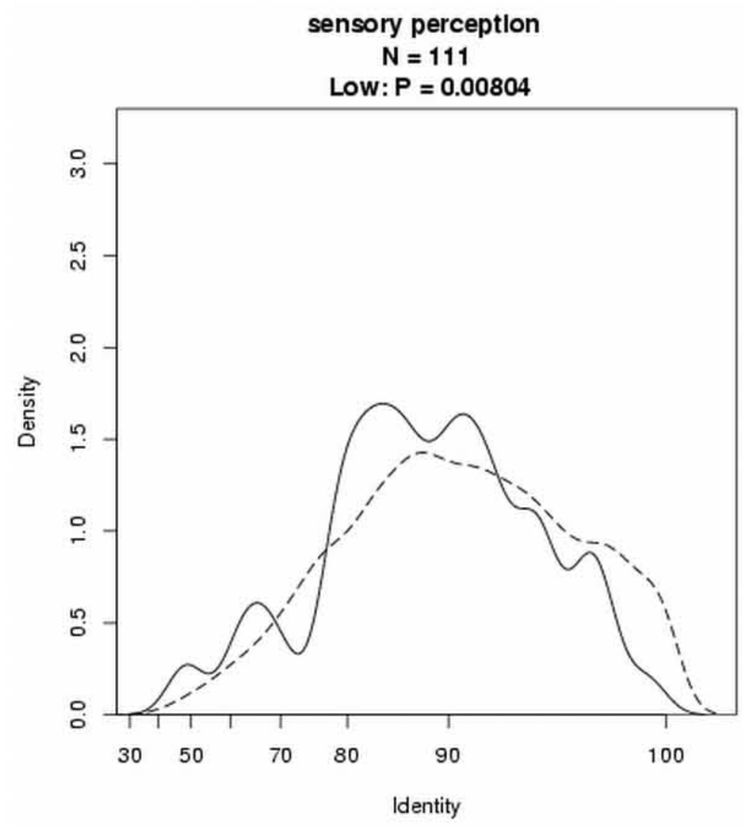

response to abiotic stimulus
N = 148
Low: P = 0.00444
Density
Identity


positive regulation of biological process
N = 275
Low: P = 0.0046
Density
Identity


response to chemical stimulus
N = 129
Low: P = 0.00463
Density
Identity


lipid biosynthesis
N = 101
Low: P = 0.00558
Density
Identity
0.0
0.5
1.0
1.5
2.0
2.5
3.0
30
50
70
80
90
100


cell–cell signaling
N = 176
Low: P = 0.00602
Density
Identity
0.0
0.5
1.0
1.5
2.0
2.5
3.0
30
50
70
80
90
100


sensory perception
N = 111
Low: P = 0.00804
Density
Identity
0.0
0.5
1.0
1.5
2.0
2.5
3.0
30
50
70
80
90
100