

APPENDIX

This appendix includes information as to how the data was converted to discrete values (one/zero)

ATP SYNTHESIS

Alpha Factor Arrest

Attribute values:

Attribute 0: Min=1.7976931348623157E308 Ave=8.988465674311579E307 Max=4.9E-324

Attribute 1: Min=-0.84 Ave=-0.32999999999999996 Max=0.18

Attribute 2: Min=-1.03 Ave=0.13 Max=1.29

Attribute 3: Min=-0.6 Ave=-0.195 Max=0.21

Attribute 4: Min=-0.6 Ave=-0.10999999999999999 Max=0.38

Attribute 5: Min=-0.49 Ave=0.030000000000000027 Max=0.55

Attribute 6: Min=-0.54 Ave=-0.13 Max=0.28

Attribute 7: Min=-0.45 Ave=-0.04000000000000001 Max=0.37

Attribute 8: Min=-0.6 Ave=-0.04999999999999999 Max=0.5

Attribute 9: Min=-0.4 Ave=-0.05000000000000002 Max=0.3

Attribute 10: Min=-0.69 Ave=-0.285 Max=0.12

Attribute 11: Min=-0.47 Ave=0.03500000000000003 Max=0.54

Attribute 12: Min=-0.54 Ave=-0.22000000000000003 Max=0.1

Attribute 13: Min=-0.25 Ave=0.12 Max=0.49

Attribute 14: Min=-0.56 Ave=-0.28 Max=4.9E-324

Attribute 15: Min=-0.47 Ave=-0.08499999999999999 Max=0.3

Attribute 16: Min=-0.51 Ave=-0.11000000000000001 Max=0.29

Attribute 17: Min=-1.03 Ave=-0.39 Max=0.25

Attribute 18: Min=-0.47 Ave=-0.15499999999999997 Max=0.16.

PROTEIN SYNTHESIS

Alpha Factor Arrest

Attribute values:

Attribute 0: Min=-0.51 Ave=-0.05499999999999999 Max=0.4

Attribute 1: Min=-1.29 Ave=-0.645 Max=4.9E-324

Attribute 2: Min=-1.0 Ave=-0.28500000000000003 Max=0.43

Attribute 3: Min=-0.56 Ave=-0.22500000000000003 Max=0.11

Attribute 4: Min=-0.58 Ave=-0.024999999999999967 Max=0.53

Attribute 5: Min=-0.43 Ave=-0.18 Max=0.07

Attribute 6: Min=-0.43 Ave=-0.05499999999999999 Max=0.32

Attribute 7: Min=-0.56 Ave=-0.10000000000000003 Max=0.36

Attribute 8: Min=-0.38 Ave=0.01999999999999999 Max=0.42

Attribute 9: Min=-0.38 Ave=0.16999999999999998 Max=0.72

Attribute 10: Min=-0.47 Ave=0.195 Max=0.86

Attribute 11: Min=-0.47 Ave=-0.014999999999999986 Max=0.44

Attribute 12: Min=-0.67 Ave=-0.22000000000000003 Max=0.23

Attribute 13: Min=-0.58 Ave=-0.18999999999999997 Max=0.2

Attribute 14: Min=-1.12 Ave=-0.22500000000000003 Max=0.67
Attribute 15: Min=-0.69 Ave=0.0050000000000000044 Max=0.7
Attribute 16: Min=-0.6 Ave=-0.16999999999999998 Max=0.26
Attribute 17: Min=-0.29 Ave=0.095 Max=0.48

ATP SYNTHESIS

Elutriation Experiments

Attribute values:

Attribute 0: Min=1.7976931348623157E308 Ave=8.988465674311579E307 Max=4.9E-324
Attribute 1: Min=-0.6 Ave=0.06 Max=0.72
Attribute 2: Min=-0.97 Ave=-0.285 Max=0.4
Attribute 3: Min=-0.71 Ave=-0.18999999999999997 Max=0.33
Attribute 4: Min=-0.67 Ave=-0.19000000000000003 Max=0.29
Attribute 5: Min=-0.76 Ave=-0.2 Max=0.36
Attribute 6: Min=-0.76 Ave=-0.11499999999999999 Max=0.53
Attribute 7: Min=-0.74 Ave=-0.155 Max=0.43
Attribute 8: Min=-0.84 Ave=-0.18 Max=0.48
Attribute 9: Min=-0.69 Ave=-0.04999999999999999 Max=0.59
Attribute 10: Min=-0.74 Ave=-0.12 Max=0.5
Attribute 11: Min=-0.51 Ave=-0.04000000000000001 Max=0.43
Attribute 12: Min=-0.42 Ave=0.12000000000000002 Max=0.66
Attribute 13: Min=-1.43 Ave=-0.44499999999999995 Max=0.54
Attribute 14: Min=-0.47 Ave=-0.08499999999999999 Max=0.3

PROREIN SYNTHESIS

Elutriation Experiments

Attribute values:

Attribute 0: Min=-1.32 Ave=-0.36500000000000005 Max=0.59
Attribute 1: Min=-0.51 Ave=-0.06 Max=0.39
Attribute 2: Min=-0.6 Ave=0.04999999999999999 Max=0.7
Attribute 3: Min=-0.36 Ave=0.20500000000000002 Max=0.77
Attribute 4: Min=-0.42 Ave=0.19000000000000003 Max=0.8
Attribute 5: Min=-0.76 Ave=-0.065 Max=0.63
Attribute 6: Min=-0.62 Ave=0.03999999999999998 Max=0.7
Attribute 7: Min=-0.84 Ave=-0.07 Max=0.7
Attribute 8: Min=-0.69 Ave=0.03500000000000003 Max=0.76
Attribute 9: Min=-0.74 Ave=0.030000000000000027 Max=0.8
Attribute 10: Min=-0.67 Ave=-0.015000000000000013 Max=0.64
Attribute 11: Min=-0.64 Ave=-0.07 Max=0.5
Attribute 12: Min=-1.43 Ave=-0.43499999999999994 Max=0.56
Attribute 13: Min=-0.51 Ave=-0.03 Max=0.45

ATP SYNTHESIS

Cdc 15 Experiments

Attribute values:

Attribute 0: Min=1.7976931348623157E308 Ave=8.988465674311579E307 Max=4.9E-324

Attribute 1: Min=-0.84 Ave=-0.19499999999999998 Max=0.45

Attribute 2: Min=-0.92 Ave=-0.31000000000000005 Max=0.3

Attribute 3: Min=-0.62 Ave=-0.065 Max=0.49

Attribute 4: Min=-0.54 Ave=0.195 Max=0.93

Attribute 5: Min=-1.03 Ave=-0.08500000000000002 Max=0.86

Attribute 6: Min=-0.64 Ave=0.08999999999999997 Max=0.82

Attribute 7: Min=-0.79 Ave=0.11499999999999999 Max=1.02

Attribute 8: Min=-0.84 Ave=0.11000000000000004 Max=1.06

Attribute 9: Min=-0.64 Ave=0.67999999999999999 Max=2.0

Attribute 10: Min=-2.06 Ave=-0.665 Max=0.73

Attribute 11: Min=-0.97 Ave=-0.034999999999999976 Max=0.9

Attribute 12: Min=-1.18 Ave=-0.26999999999999996 Max=0.64

Attribute 13: Min=-1.22 Ave=0.15500000000000003 Max=1.53

Attribute 14: Min=-0.89 Ave=0.2 Max=1.29

Attribute 15: Min=-0.92 Ave=0.25999999999999995 Max=1.44

PROTEIN SYNTHESIS

Cdc 5 Experiments

Attribute values:

Attribute 0: Min=1.7976931348623157E308 Ave=8.988465674311579E307 Max=4.9E-324

Attribute 1: Min=-0.67 Ave=0.195 Max=1.06

Attribute 2: Min=-0.47 Ave=0.135 Max=0.74

Attribute 3: Min=-0.43 Ave=0.07499999999999998 Max=0.58

Attribute 4: Min=-0.58 Ave=0.53 Max=1.64

Attribute 5: Min=-1.36 Ave=-0.46500000000000001 Max=0.43

Attribute 6: Min=-0.64 Ave=-0.015000000000000013 Max=0.61

Attribute 7: Min=-0.79 Ave=-0.15500000000000003 Max=0.48

Attribute 8: Min=-0.84 Ave=-0.16499999999999998 Max=0.51

Attribute 9: Min=-0.64 Ave=0.21000000000000002 Max=1.06

Attribute 10: Min=-2.06 Ave=-0.73 Max=0.6

Attribute 11: Min=-1.06 Ave=-0.35000000000000003 Max=0.36

Attribute 12: Min=-1.43 Ave=-0.365 Max=0.7

Attribute 13: Min=-0.84 Ave=-0.065 Max=0.71

Attribute 14: Min=-1.15 Ave=-0.30999999999999994 Max=0.53

Attribute 15: Min=-0.92 Ave=0.019999999999999962 Max=0.96

PROTEIN SYNTHESIS

Cold Experiments

Attribute values:

Attribute 0: Min=-0.74 Ave=-0.04499999999999984 Max=0.65

Attribute 1: Min=-0.74 Ave=0.08000000000000002 Max=0.9

Attribute 2: Min=-1.15 Ave=0.09000000000000008 Max=1.33

PROTEIN SYNTHESIS

Heat Experiments

Attribute values:

Attribute 0: Min=-0.54 Ave=0.010000000000000009 Max=0.56

Attribute 1: Min=-1.74 Ave=-0.82 Max=0.1

Attribute 2: Min=-2.25 Ave=-0.94 Max=0.37

Attribute 3: Min=-1.79 Ave=-0.445 Max=0.9

Attribute 4: Min=-1.29 Ave=-0.27 Max=0.75

Attribute 5: Min=-1.74 Ave=-0.4049999999999997 Max=0.93