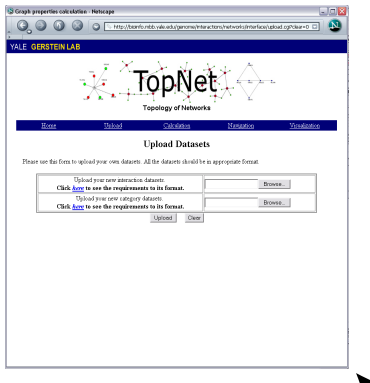
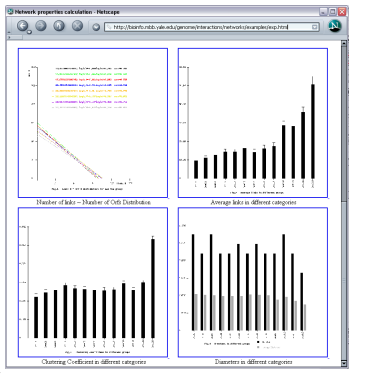
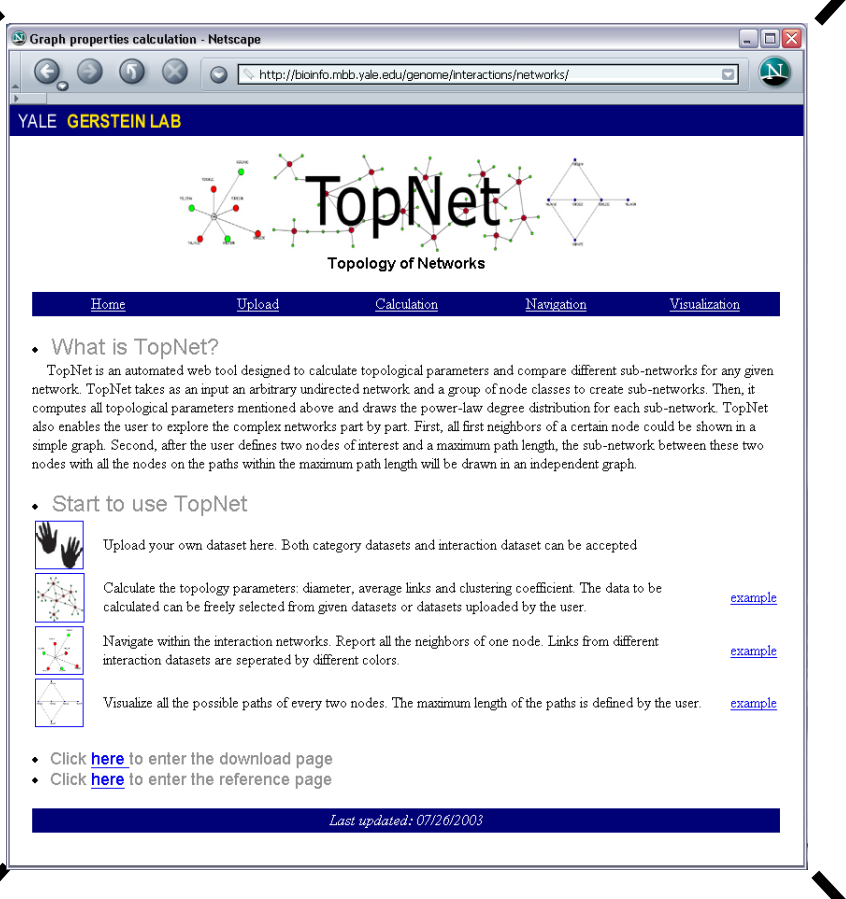


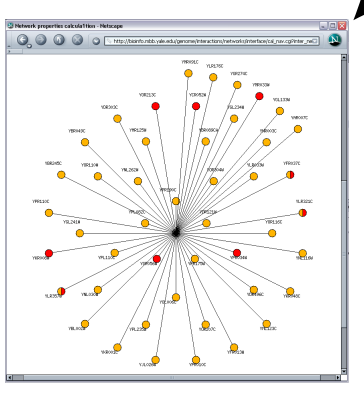
Upload



Calculation



Navigation



Visualization

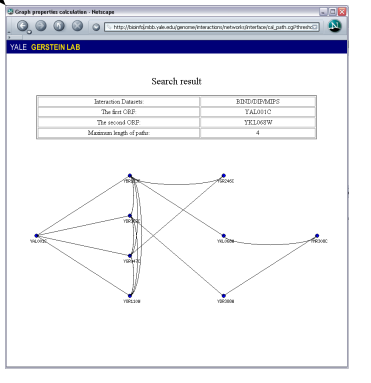
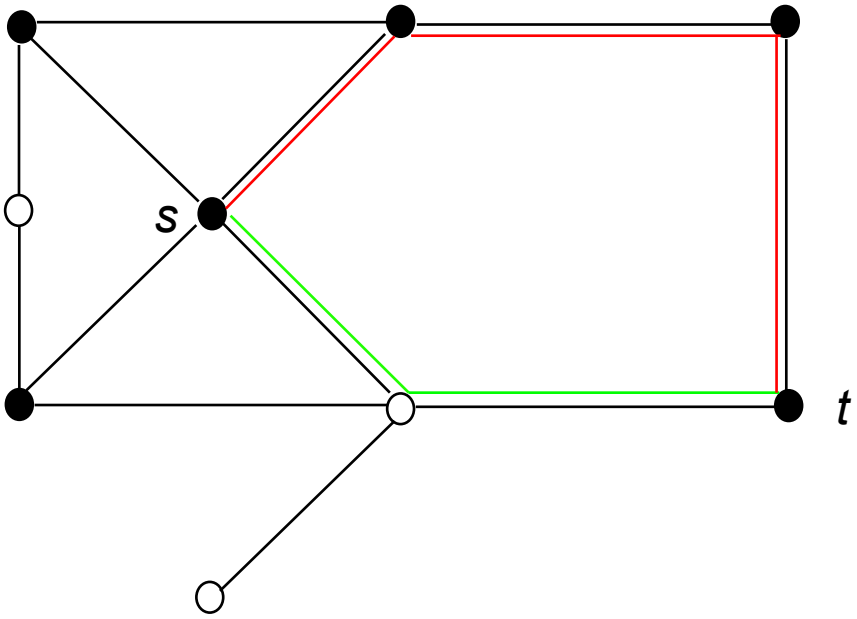


Figure 1



Nodes in sub-network *A*

Nodes in sub-network *B*

Shortest path in the whole network

Shortest path in sub-network *A*

Degree of *s* is 4, not 3

Distance between *s* and *t* is 2, not 3

Figure 2

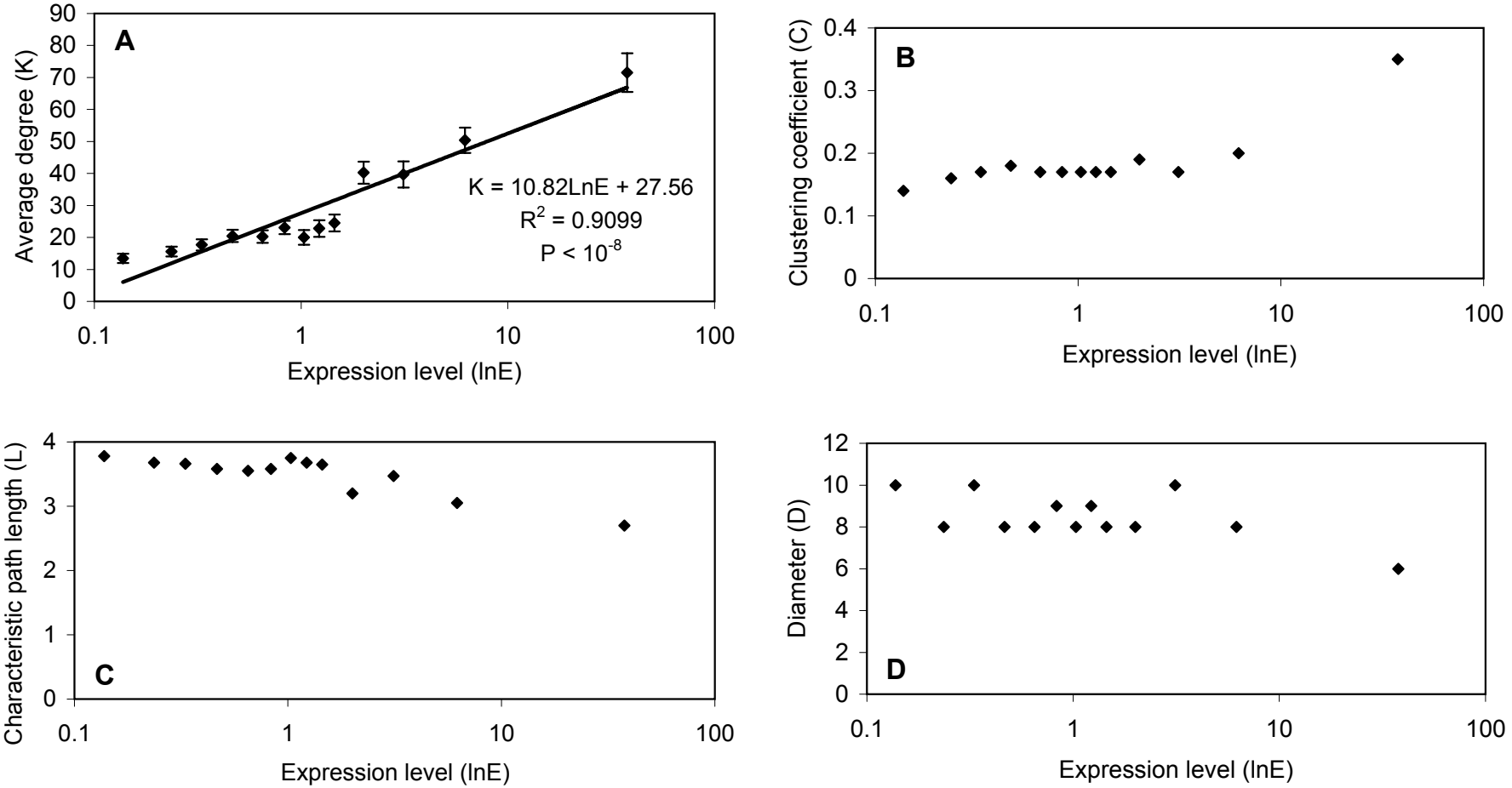
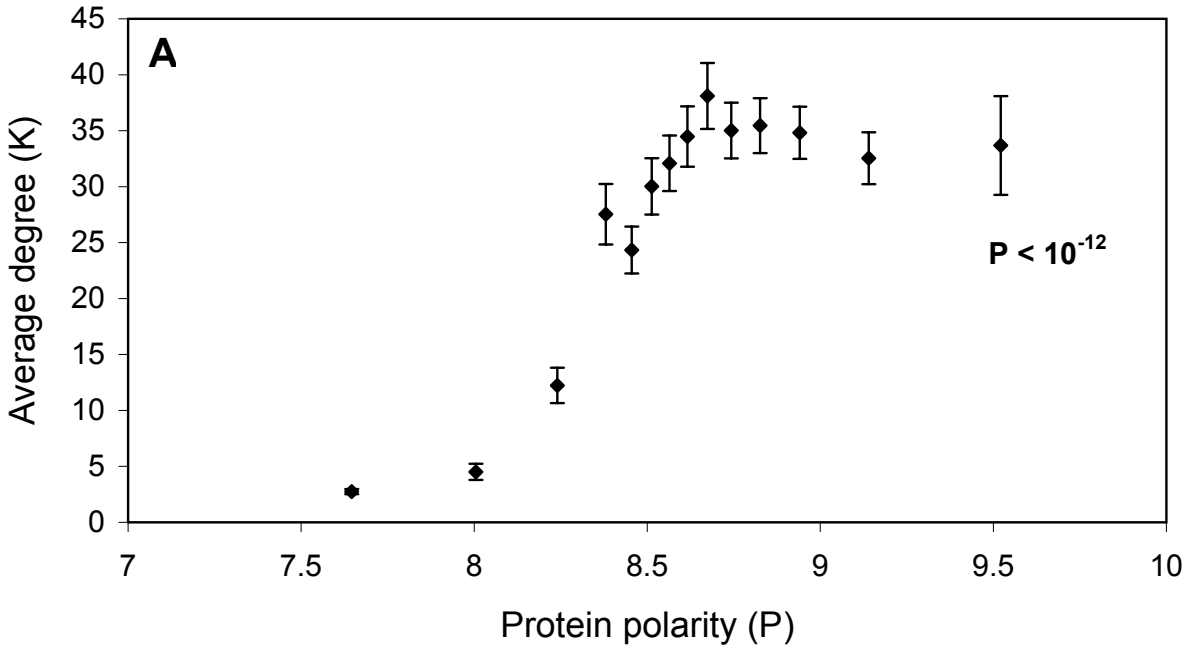

A
Average degree (K)
Expression level (lnE)
K = 10.82LnE + 27.56
R2 = 0.9099
P < 10-8
B
Clustering coefficient (C)
Expression level (lnE)
C
Characteristic path length (L)
Expression level (lnE)
D
Diameter (D)
Expression level (lnE)

Figure 3


A
Average degree (K)
Protein polarity (P)
P < 10-12
0
5
10
15
20
25
30
35
40
45
7
7.5
8
8.5
9
9.5
10

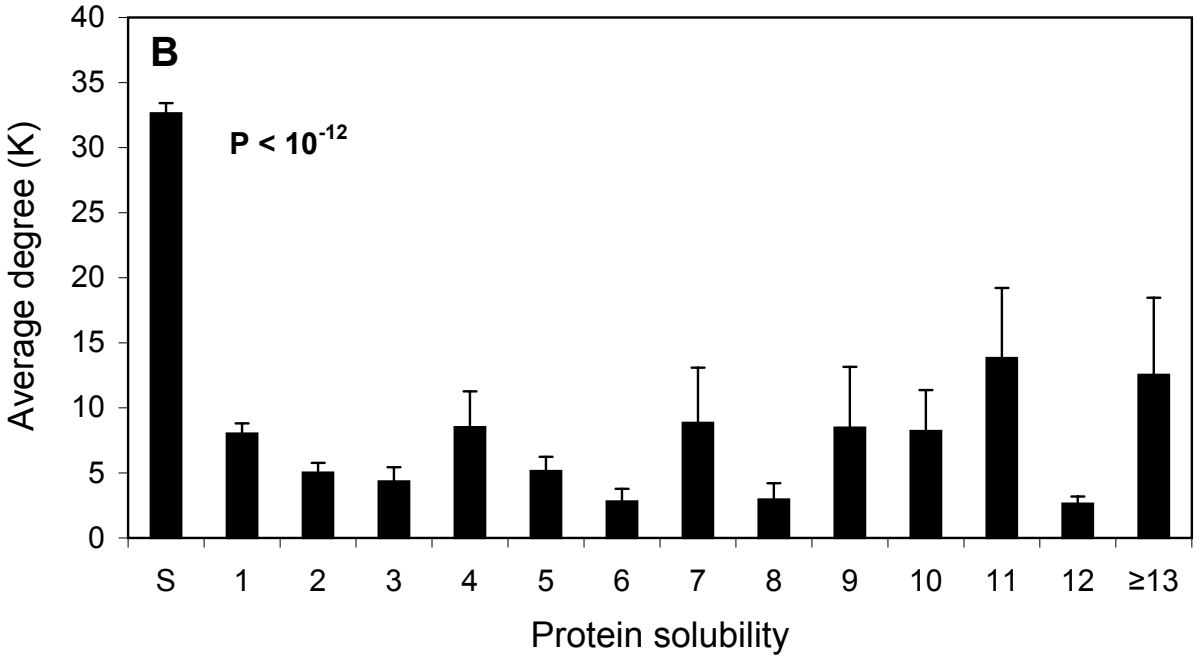

B
Average degree (K)
Protein solubility
P < 10-12
0
5
10
15
20
25
30
35
40
S
1
2
3
4
5
6
7
8
9
10
11
12
≥13

Figure 4

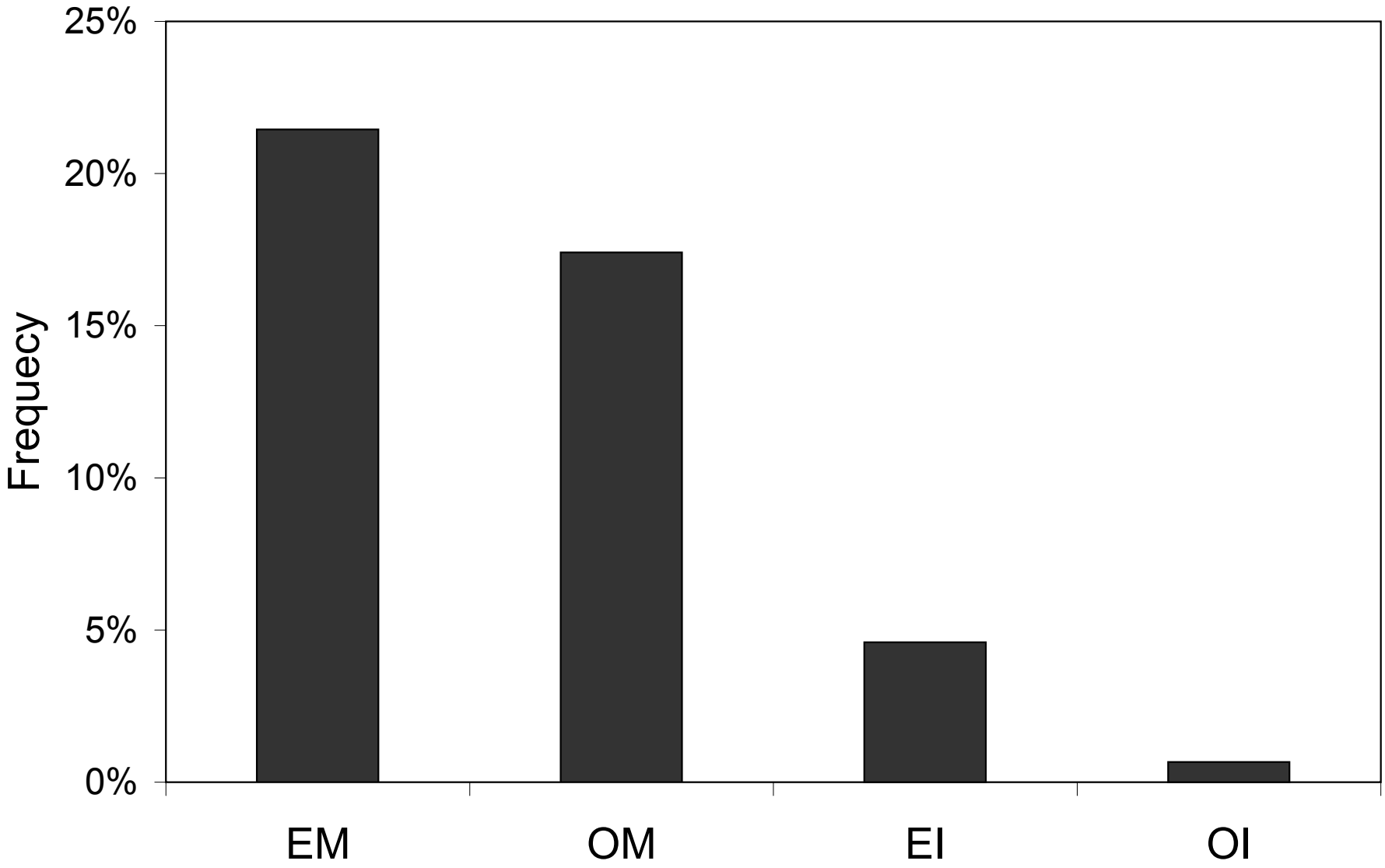
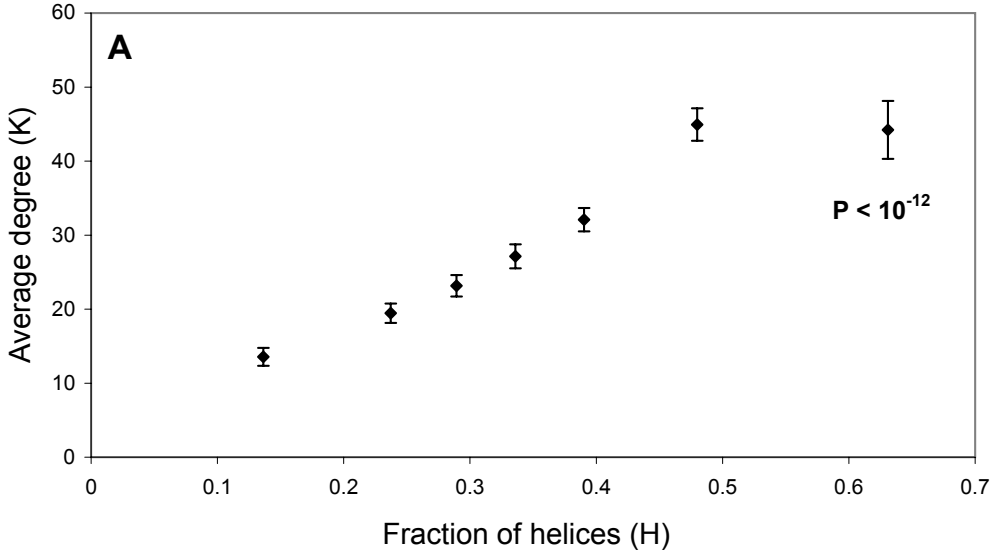
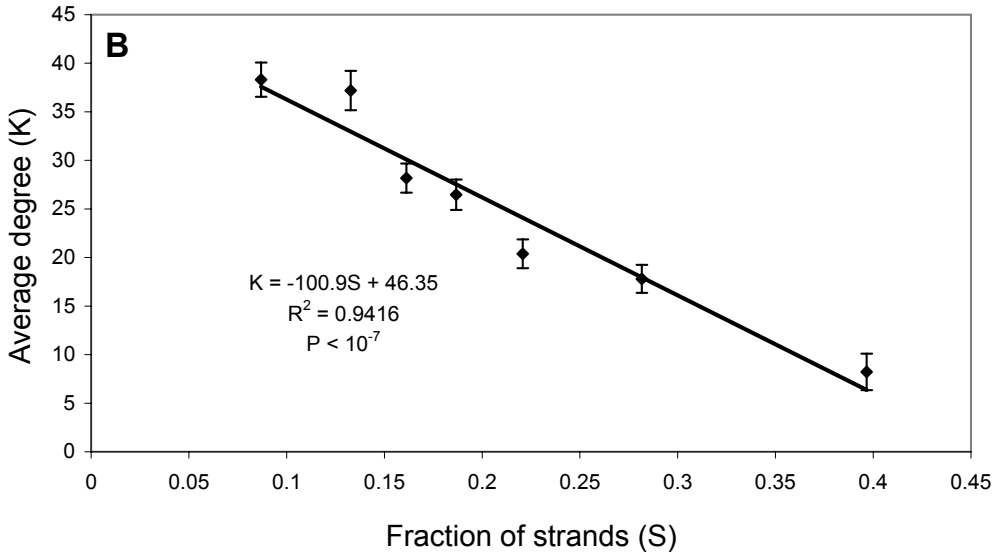


Figure 5


A
Average degree (K)
Fraction of helices (H)
P < 10-12


B
Average degree (K)
Fraction of strands (S)
K = -100.9S + 46.35
R2 = 0.9416
P < 10-7

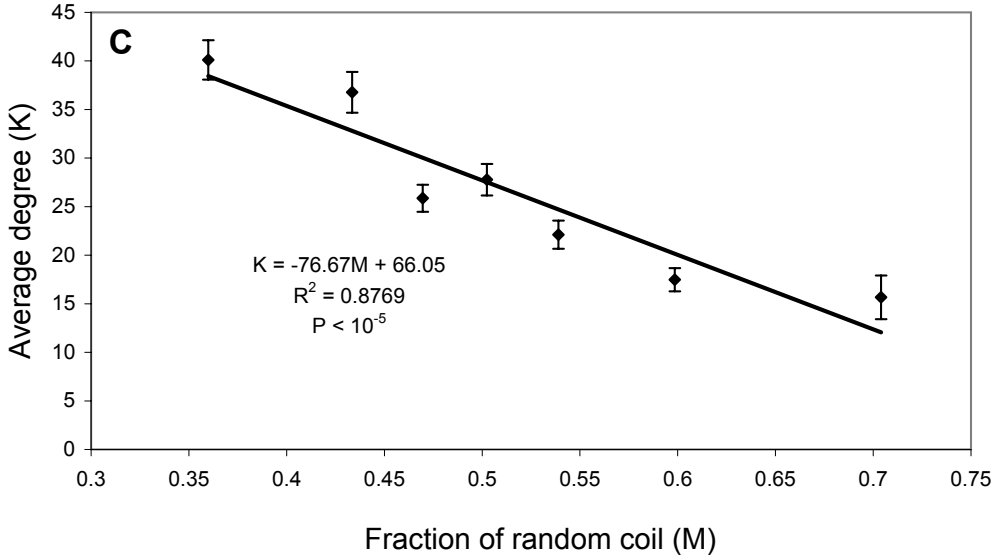

C
Average degree (K)
Fraction of random coil (M)
K = -76.67M + 66.05
R2 = 0.8769
P < 10-5

Figure 6

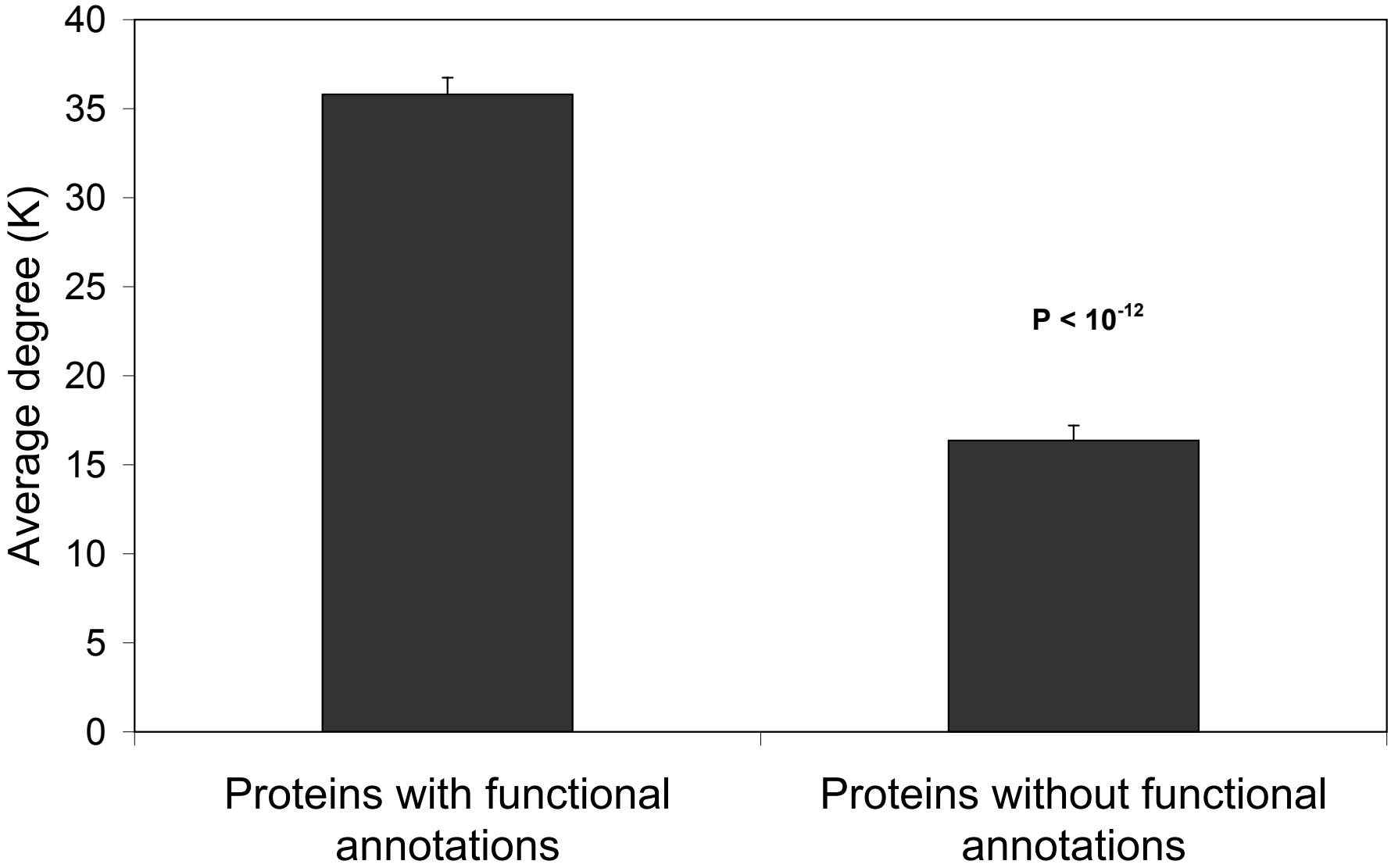

40
35
30
25
20
15
10
5
0
Average degree (K)
P < 10-12
Proteins with functional annotations
Proteins without functional annotations

Figure 7

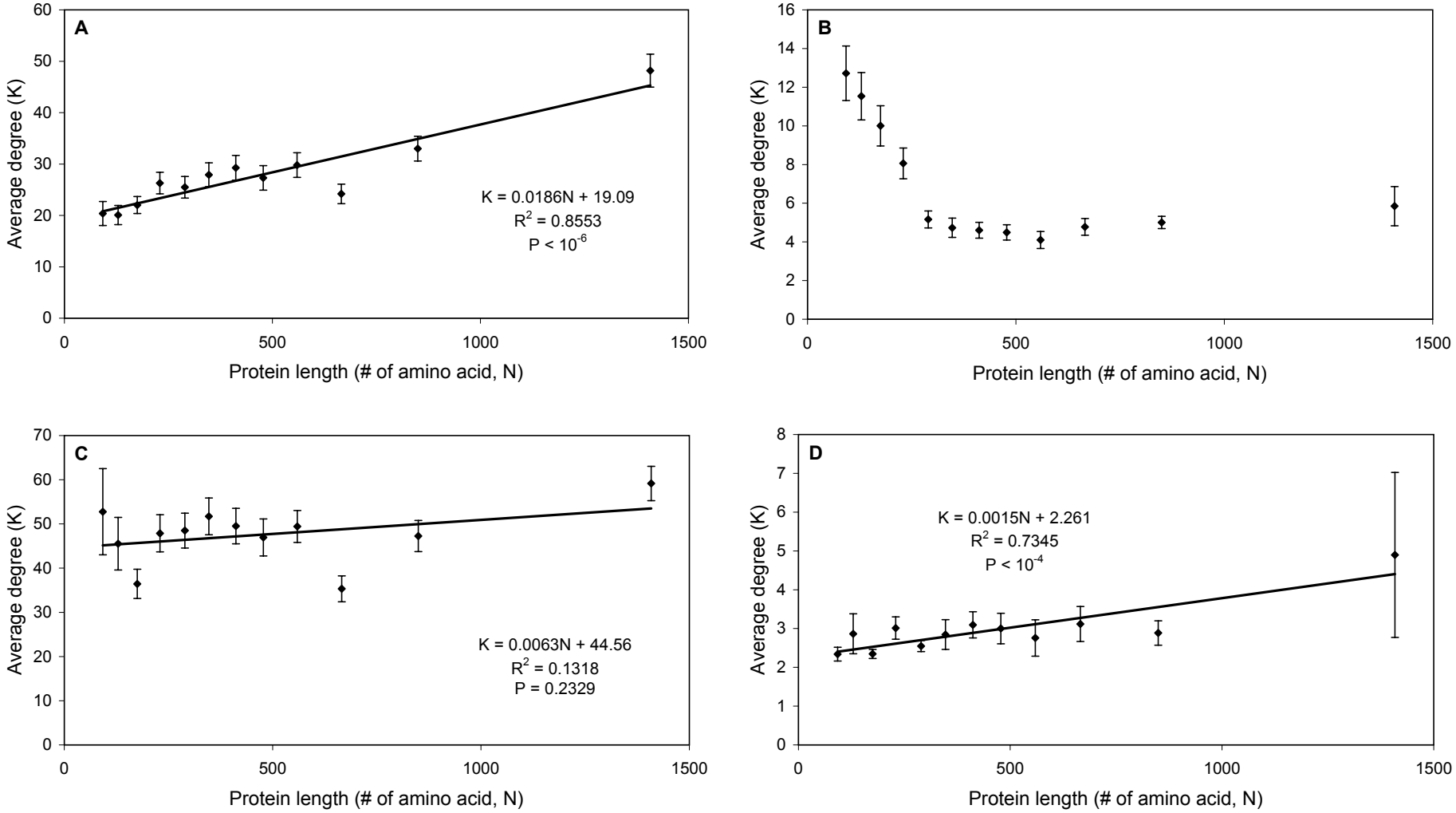

A
Average degree (K)
Protein length (# of amino acid, N)
K = 0.0186N + 19.09
R2 = 0.8553
P < 10-6
B
Average degree (K)
Protein length (# of amino acid, N)
C
Average degree (K)
Protein length (# of amino acid, N)
K = 0.0063N + 44.56
R2 = 0.1318
P = 0.2329
D
Average degree (K)
Protein length (# of amino acid, N)
K = 0.0015N + 2.261
R2 = 0.7345
P < 10-4

Figure 8