E. coli Host Prediction Accuracy Using an SVM and Different Feature Selection Methods SelectKBest by F-Test SelectKBest by Chi-Squared Test Recursive Feature Elimination by SVM 400 500 550 600 650 200 250 300 350 450 700 750 1000 150 800 900 0 50 100 850 950 Features Remaining After Selection

87.5

85.0

82.5

80.0

77.5

75.0

Accuracy (% Correct) 0.02 62.29 0.02

62.5

60.0

57.5

55.0

52.5

50.0