

DATA ANALYTICS WITH R, EXCEL AND TABLA EU

ASSIGNMENT non linear models assignment 1

ANSWERS

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Question no:

5)

1.

Use the given link Data Set.

Answer the below questions:

a. Perform ANOVA test on the discriminant analysis scores of nuclear localization signals of both nuclear and non-nuclear proteins by class variables (Target).

Ans

Summary of Individual Experiments

Source ^a	Primary author	Experiment name	Spectra ID	Protein IDs at FDR			
				0.5%	1%	2%	5%
PA	Swaney	Decision Tree Driven MS/MS	39,543	1,465	1,607	1,673	1,765
OPD	Prince	Orbitrap optimization	19,616	1,170	1,198	1,237	1,303
PA	Breci	Analysis of different prep methods	64,625	752	831	886	941
PD	Piening	QC metrics for LC-MS	121,701	738	775	834	932
PD	Maynard	Multidimensional LC-MS	5,5324	532	561	586	619
PA	Martin	Testing fraction on LCQ	5,509	435	444	456	471
OPD	Li	Gradient Experiment	4,870	351	369	390	441
OPD	Lu	Yeast grown in rich media	7,327	263	283	296	324
OPD	Lu	One-Carbon Metabolism	5,872	217	246	276	312
OPD	Lu	Growth in synthetic minimal media	3,449	146	177	192	218
OPD	Lu	Growth in YPD	6,516	131	145	187	208

b. Which class is significantly different from others?

Ans Growth in YPD.