Mode:Train

Model:multiTaskLASSO

Params:default

No. of imaging features provided: 540

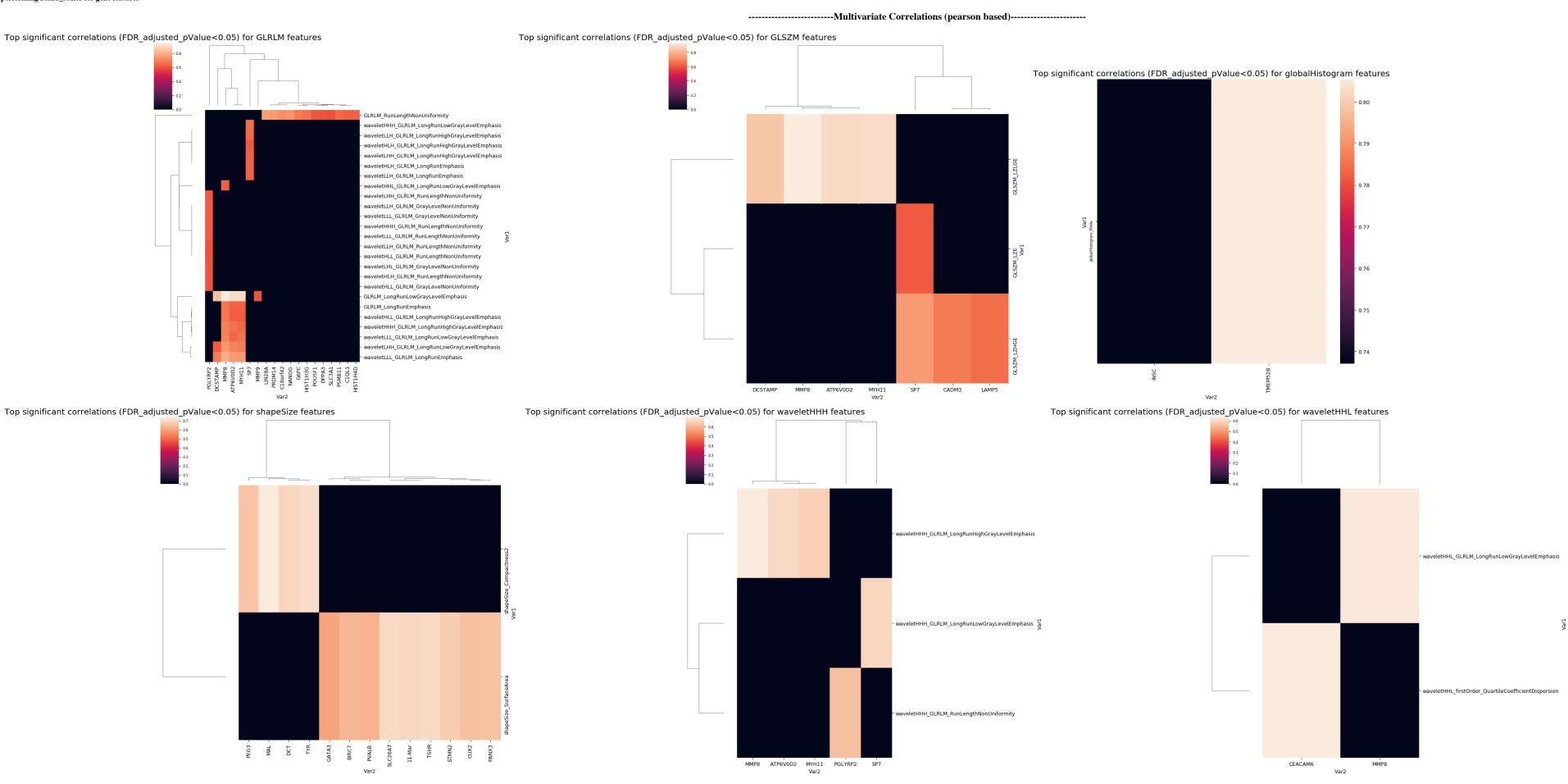
No. of gene features provided:976

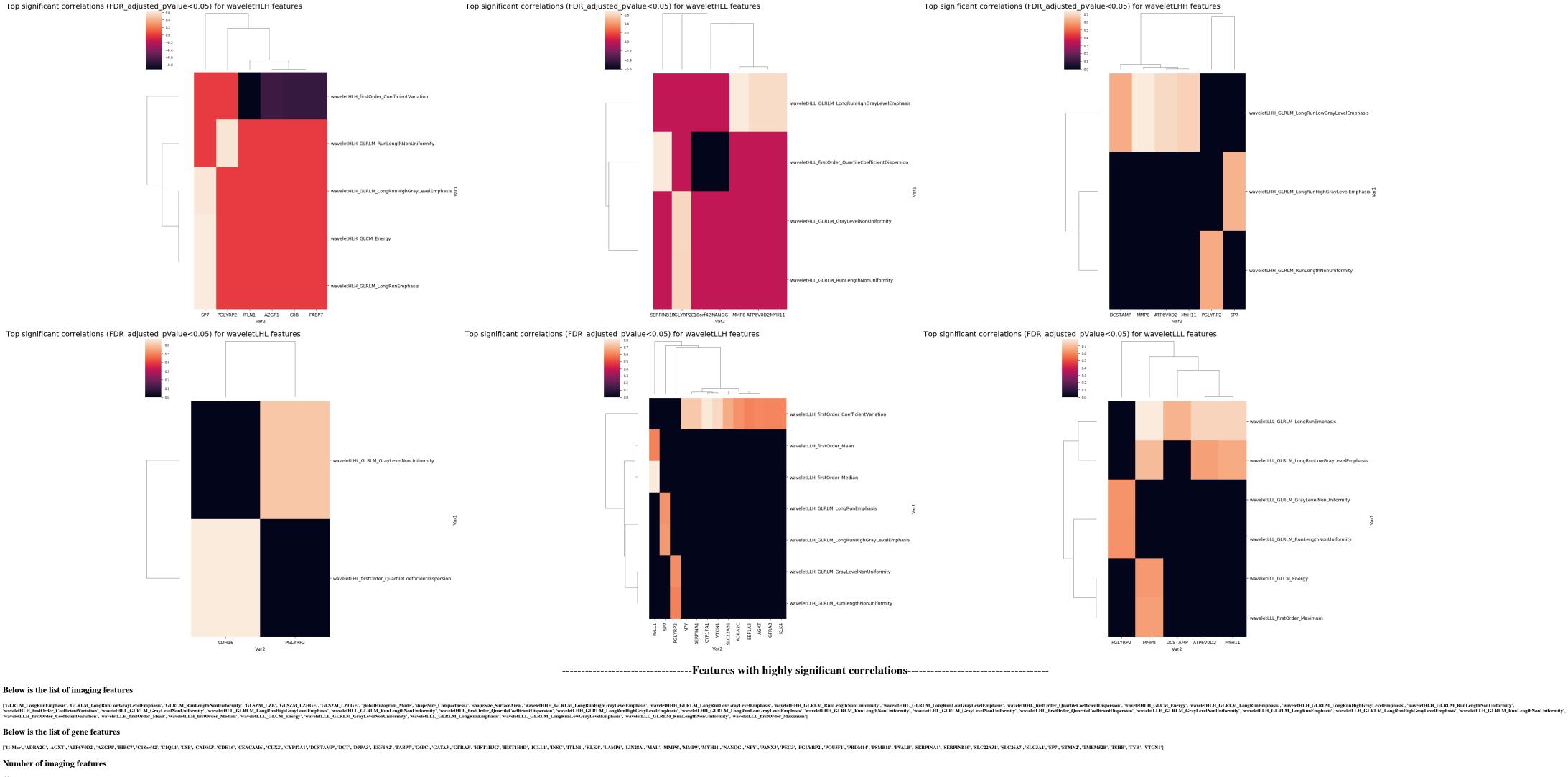
 ${\bf Sample ID\ check\ results:\ 'The\ Sample IDs\ match\ for\ imaging\ and\ gene\ features'}$

No. of samples: 106

 $performing \ Stand_scaler \ normalization \ for \ imaging \ features$

performing Stand_scaler for gene features





Below is the list of imaging features

Number of gene features

-----Number of Samples for Training and Testing------

No. of samples for training:84 No. of samples for test:22

 ${\bf Model\ Type: multiTask LASSO}$

Parameters: cv=3 scoring=neg_mean_squared_error

Cross validation score: 0.929107257728

Model Parameters:

Cross Validation Metrics:

normalize:False warm_start:False

selection:cyclic

fit_intercept:True

max_iter:1000

random_state:None

tol:0.0001

copy_X:True

alpha:1.0

------Model evaluation for Train data-----

----Model Summary------

Min Square Error for the Model MSE of train_eval set:0.56114653477

No. of features showing LOW 'RMSE/Stdev' (<=1.0): 54

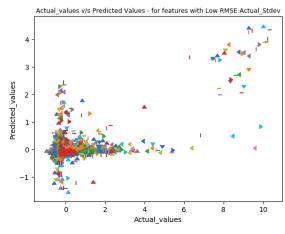
No. of features showing HIGH 'RMSE/Stdev' (>1.0): 0

All such features with their Low 'RMSE/Stdev' values could be found in output file: train_eval_multiTaskLASSO_Labels_with_Low_Ratio.csv

All such features with their High 'RMSE/Stdev' values could be found in output file: train_eval_multiTaskLASSO_Labels_with_High_Ratio.csv

Model evaluation for Train data for label features showing Low 'RMSE/Stdev' (<=1.0)

-	MYH11	>	STMN2
-	INSC	A	LIN28A
1	PSMB11	•	SP7
1	CDH16	4	PVALB
•	BIRC7	•	CUX2
•	G6PC	A	DCSTAM
	EEF1A2	-	POU5F1
$ \mathbb{A} $	TMEM52B	-	HIST1H3
< -	PGLYRP2	- 1	SLC26A
•	C8B	1	FABP7
•	VTCN1	- ◀	GATA3
-	TSHR	•	PRDM14
-	11-Mar	A	CYP17A
1	SERPINA1	•	AZGP1
1	PANX3	4	SLC22A
•	NANOG	•	SLC3A1
•	C18orf42	A	AGXT
	HIST1H4D	-	LAMP5
•	ADRA2C	-	ITLN1
< □	CEACAM6	1	NPY
	DPPA3	1	MMP8
_	ATP6V0D2	•	MMP9
-	DCT	•	IGLL1
-	CADM3	A	KLK4
1	C1QL1	•	MAL
1	GFRA3	< -	TYR
<	SERPINB10	•	PEG3



Min Square Error for the Model

MSE of test_eval set:1.5231959094

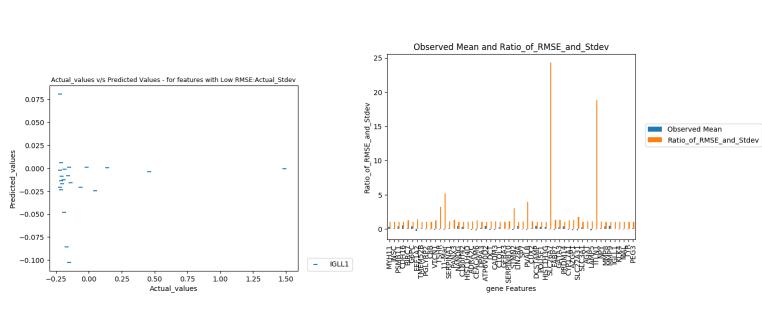
No. of features showing LOW 'RMSE/Stdev' (<=1.0): 1

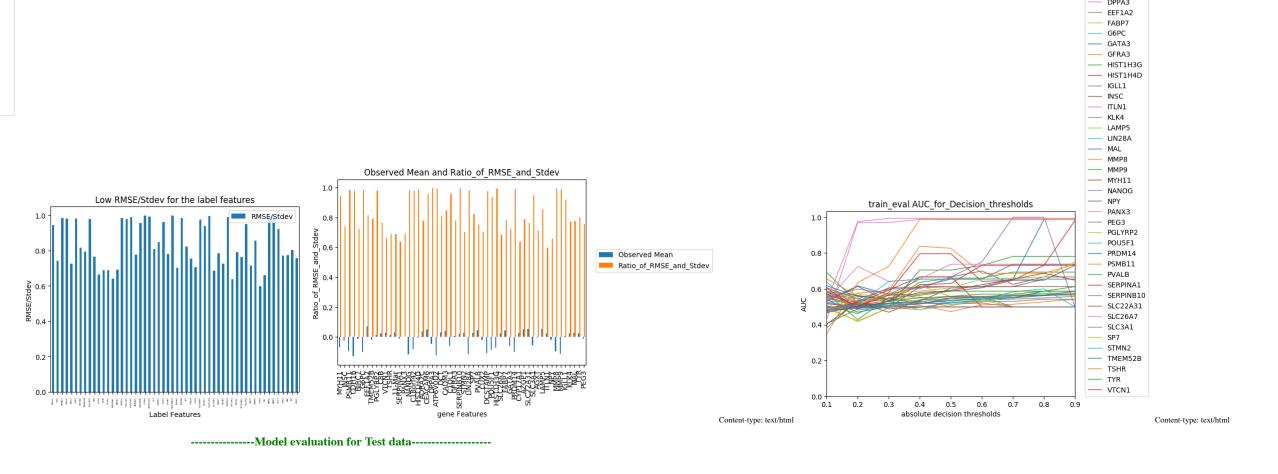
 $All \ such \ features \ with \ their \ Low \ 'RMSE/Stdev' \ values \ could \ be \ found \ in \ output \ file: \ test_eval_multiTaskLASSO_Labels_with_Low_Ratio.csv$

No. of features showing HIGH 'RMSE/Stdev' (>1.0): 53 $\,$

 $All such features with their High 'RMSE/Stdev' \ values could \ be found \ in output \ file: test_eval_multiTaskLASSO_Labels_with_High_Ratio.csv$

 $Model\ evaluation\ for\ Test\ data\ for\ label\ features\ showing\ Low\ 'RMSE/Stdev'\ (<=1.0)$





— 11-Mar — ADRA2C — AGXT — ATP6V0D2

— AZGP1
— BIRC7
— C18orf42
— C1QL1

CADM3
CDH16
CEACAM6
CUX2

DCSTAMP
DCT

