





Individual points for better specificity (with the black color). data points overlap allowed

(4) MUCVIIVE	earning Model				
	Predicting N	nutlin-3a	1050 from		
		Biologi	cal Foatures	_	
o MSI - P cell Liv o GDSC (1 o ic50 - 8, nonv	ues features(that val (msi p-value) ve Name rissue classification effect_size(mieasi mutated samples)	n) ures differe	nce in drug re	sponse (1050) bet	
o AUC or	area under me	urve: ove	vall drug respo	onse.	
		J. pre	dicts 1050 leffi		
T P	redicted vs. Actual 109	50_	1		
2.5	2.29	K	is predicted.	ficacy based on vo Other drug featu at are not Nuttin-3	her can wiso be
100/1C50)values	1.75		is prediced	for other drugs as	well.
1.5			closely predi	acy can be evaluat cted values match ger gaps indicate	n true 1050 error
0.5				tuve importance i	
0					
from	redicted Actua	from	Cell line		
	Tego diality	dataset	E TISSUE		
piotting 1	og values for better		E AVC		
interpret	ability) but the or	iginal	7		
1050 is r	neasured in MM.		MS1_pva1		
			0.	00 0.02 0.04 0.	V 000
		Cons	V		06 0.08 0.10 mportance
		scores sh	ture importance ow now strong une influences laces	gly scor	r
		scores = different	are mirrodices of the same of	d of model	

	simulate Nuttin-30 Response for Hypothetical Patients					
	Patient Features	Predicted Nutrin-3a Efficacy (Log (1050))				
adjusts -	o MSI (microsatellite instability)					
nstability p-	p-value	1.83		lower more effe		
now unstable		(.5		dyna		
is.	o. Tissue, Type			show Nuttin		
	Lung	0.4		respon		
can select	o Molecular Features			select		
(liver, lung, breast, etc)				sensi of can		
switches for	MDM2 upregulation	sensitive	resistant	cells to		
cey biomarkers	CDKNZA deletion					