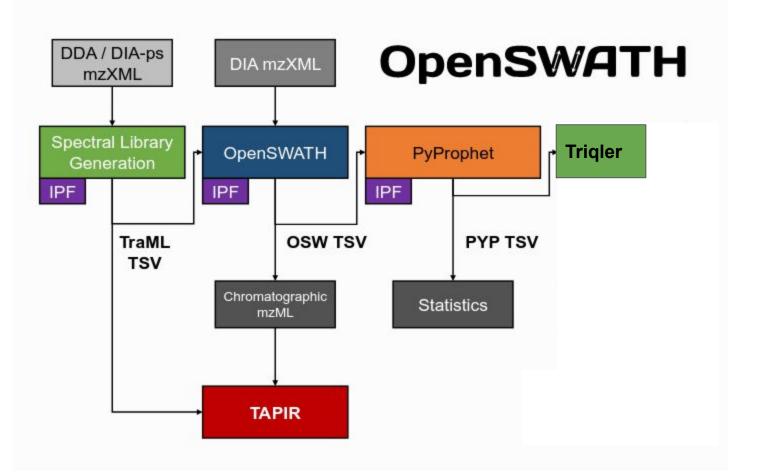
OpenSwath vs Triqler

2021-03-31



Data

Spectral library based on UniProt - SwissProt (from Tenzer repo PXD002952). No proteoforms.

OpenSwath (PyProphet) filtering m_score fdr < 0.01.

Intensity for protein with highest searchScore (-np.log10(m_score)) selected (same as Triqler).

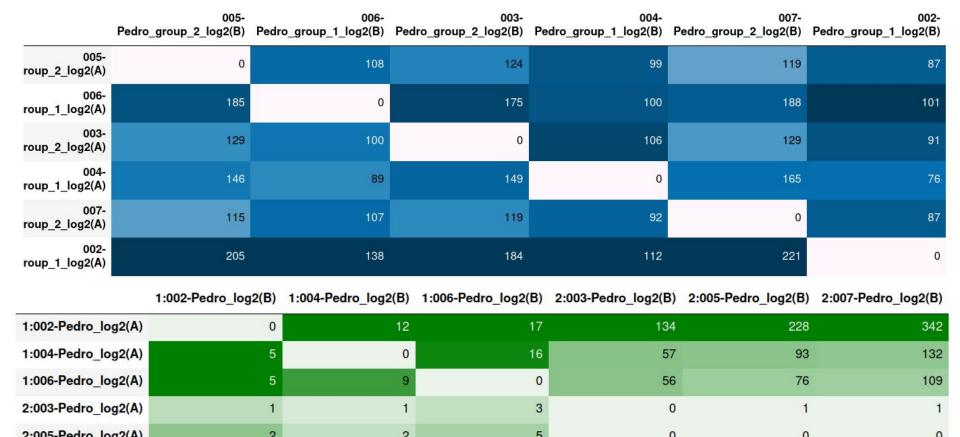
Triqler threshold protein_id_posterior_error_prob < 0.01.

(The q_value and posterior_error_prob columns represent respectively the FDR and PEP for the hypothesis that the protein was correctly identified and has a fold change larger than the specified --fold_change_eval.

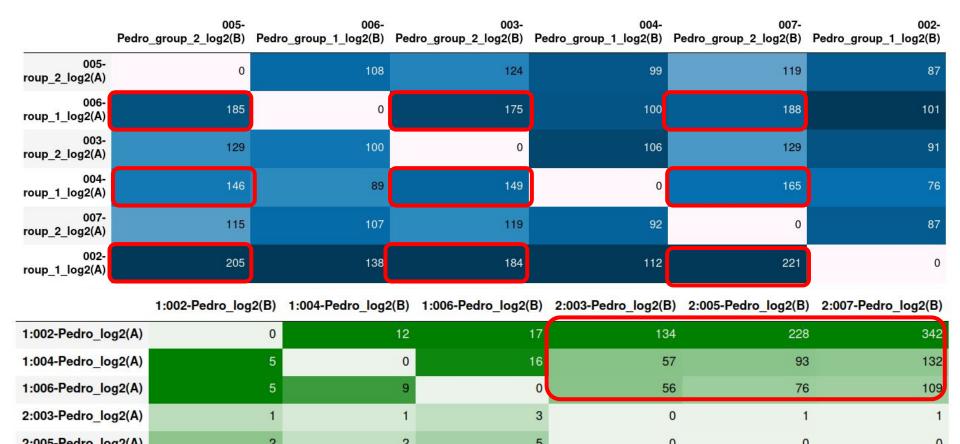
The protein_id_PEP and diff_exp_prob_<FC> columns are simply the separate probabilities that make up the above hypothesis test, i.e. for correct identification and for fold change respectively.

NOTE: Using the q_value or posterior_error_prob for the hypothesis that the protein was correctly identified and has a fold change larger than the specified --fold_change_eval gives 1 significant hit...)

ECOLI A:B 4:1 ratio, log2fc_treshold = 2.0



ECOLI A:B 4:1 ratio, log2fc_treshold = 2.0



YEAST A:B = 2:1 ratio, log_2 ic_treshold = 1.0								
	005- Pedro_group_2_log2(B)	006- Pedro_group_1_log2(B)	003- Pedro_group_2_log2(B)	004- Pedro_group_1_log2(B)	007- Pedro_group_2_log2(B)			
005- roup_2_log2(A)	0	228	266	242	271			
006- roup_1_log2(A)	526	0	534	303	479			
003- roup_2_log2(A)	264	237	0	245	265			

1:002-Pedro_log2(B) 1:004-Pedro_log2(B) 1:006-Pedro_log2(B) 2:003-Pedro_log2(B) 2:005-Pedro_log2(B)

004-

007-

002-

1:002-Pedro_log2(A)

1:004-Pedro_log2(A)

1:006-Pedro_log2(A)

2:003-Pedro_log2(A)

2:005-Pedro log2(A)

2:007-Pedro_log2(A)

roup_1_log2(A)

roup_2_log2(A)

roup_1_log2(A)

002-

Pedro_group_1_log2(B)

2:007-Pedro_log2(B)

YEAST A:B = 2:1 ratio, log2fc_treshold = 1.0

6

2:007-Pedro_log2(A)

	005- Pedro_group_2_log2(B)	006- Pedro_group_1_log2(B)	003- Pedro_group_2_log2(B)	004- Pedro_group_1_log2(B)	007- Pedro_group_2_log2(B)	002- Pedro_group_1_log2(B)
005- roup_2_log2(A)	0	228	266	242	271	272
006- roup_1_log2(A)	526	0	534	303	479	366
003- roup_2_log2(A)	264	237	0	245	265	282
004- roup_1_log2(A)	509	285	522	0	463	334
007- roup_2_log2(A)	274	227	277	244	0	286
002- roup_1_log2(A)	403	253	403	254	371	0
	1:002-Pedro_log	2(B) 1:004-Pedro_log	2(B) 1:006-Pedro_log2	(B) 2:003-Pedro_log2(B) 2:005-Pedro_log2(B)	2:007-Pedro_log2(B)
1:002-Pedro_lo	g2(A)	0	2	1 34	8 166	113
1:004-Pedro_lo	g2(A)	6	0	4 75	528	385
1:006-Pedro_lo	g2(A)	9	8	0 83	0 661	542
2:003-Pedro_lo	g2(A)	15	9	9	0 26	27
2:005-Pedro_lo	g2(A)	13	9	9 3	2 0	31

40

25

HUMAN A:B = 1:1 ratio, log2fc_treshold = 0.5

	005- Pedro_group_2_log2(B)	Pedro	006- _group_1_log2(B)	Pedr	003- o_group_2_log2(B)	Pedr	004- ro_group_1_log2(B)	007- Pedro_group_2_log2(B)	002- Pedro_group_1_log2(B)
:lick to scroll output; do	ouble click to hide		1412		1237		1362	1225	1425
006- roup_1_log2(A)	1412		0		1501		1231	1349	1407
003- roup_2_log2(A)	1237		1501		0		1356	1339	1342
004- roup_1_log2(A)	1362		1231		1356		0	1381	1256
007- roup_2_log2(A)	1225		1349		1339		1381	0	1501
002- roup_1_log2(A)	1425		1407		1342		1256	1501	0
	1:002-Pedro_lo	g2(B)	1:004-Pedro_log	2(B)	1:006-Pedro_log2	(B)	2:003-Pedro_log2(E	3) 2:005-Pedro_log2(B)	2:007-Pedro_log2(B)
1:002-Pedro_lo	og2(A)	0		87	1	146	10	2 140	179
1:004-Pedro_lo	og2(A)	87		0		72	9	9 103	97
1:006-Pedro_lo	og2(A)	146		72		0	17	1 118	104
2:003-Pedro_lo	og2(A)	102		99	1	171		0 85	125
2:005-Pedro_lo	og2(A)	140		103	4	118	8	5 0	70
2-007-Pedro lo	α2(Δ)	179		97	13	104	110	5 70	0

HUMAN A:B = 1:1 ratio, log2fc_treshold = 0.5

006-

005-

	Pedro_group_2_log2(B)	Pedro_group_1_log2(B)	Pedro_group_2_log2(B)	Pedro_group_1_log2(B)	Pedro_group_2_log2(B)	Pedro_group_1_log2(B)
click to scroll output; or roup_2_log2(A)	double click to hide	1412	1237	1362	1225	1425
006- roup_1_log2(A)	1412	0	1501	1231	1349	1407
003- roup_2_log2(A)	1237	1501	0	1356	1339	1342
004- roup_1_log2(A)	1362	1231	1356	0	1381	1256
007- roup_2_log2(A)	1225	1349	1339	1381	0	1501
002- roup_1_log2(A)	1425	1407	1342	1256	1501	0
	1:002-Pedro_log	g2(B) 1:004-Pedro_log	g2(B) 1:006-Pedro_log2	(B) 2:003-Pedro_log2(B)	2:005-Pedro_log2(B)	2:007-Pedro_log2(B)
1:002-Pedro_lo	og2(A)	0	87	146 102	140	179
1:004-Pedro_lo	og2(A)	87	0	72 99	103	97
1:006-Pedro_lo	og2(A)	146	72	0 171	118	104
2:003-Pedro_ld	og2(A)	102	99	171 (85	125
2:005-Pedro_ld	og2(A)	140	103	118 85	0	70
2:007-Pedro_ld	og2(A)	179	97	104 125	70	0

003-

004-

007-

002-