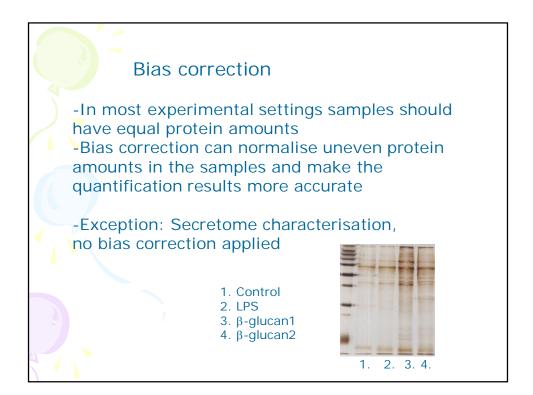
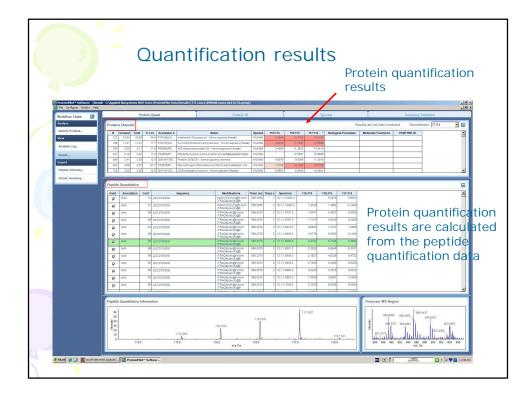
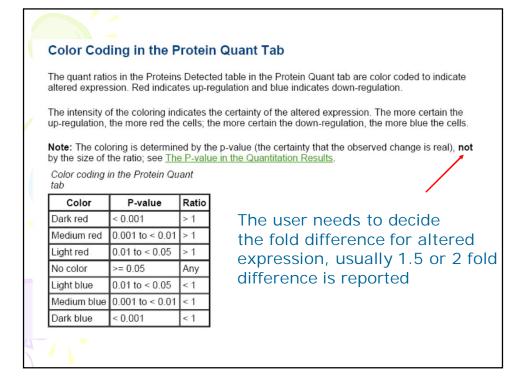


4			uantifica				
	Unused (Conf) Cutoff	Proteins Detected	Proteins Before Grouping	Distinct Peptides	Spectra Identified	% Total Spectra	
	>2.0 (99)	696	1049	15563	45529	66.6	
	>1.3 (95)	813	1211	15981	46134	67.5	
4	>0.47 (66)	1006	1969	17037	47670	69.7	
	CutoffApplied: >1.3 (95%)	813	1211	15981	46134	67.5	
	Quant Settings	Арріу	Bias cor	rectior	n: norm	nalise u	ineven
	Denominator:	IT114	protein	amoun	nts in th	ne sam	ples
	Ratio Auto E IT115:IT114 1.2790 IT116:IT114 3.2595 IT117:IT114 3.5022	Manual Bias 1.2790 3.2595 3.5022					







The Protein Quant Tab

This tab – only shown when quantitation is part of the analysis – shows the winner proteins and their quant ratios. It also displays the individual ratio determinations for each peptide and allows you to view spectral evidence for quantitation. The Denominator field allows you to change the control reagent; see <u>Changing the Denominator for Quant Ratios</u>. The tab also shows which type of bias correction, if any, is in use; see <u>Bias Correction in the Pro Group™ Algorithm Results</u>.

PVal (P-value)

A measure of the certainty that the average ratio differs from 1. The smaller the p-value, the more likely any differential expression is real; see <u>The P-value in the Quantitation Results</u>.

EF (Error Factor)

A measure of the error in the average ratio; see <u>Calculating the Error Factor for the Average Ratio</u>.

Name	115:114	PVal 115:114	EF 115:114	116:114	PVal 116:114	EF 116:114	117:114 🗸	PVal 117:114	EF 117:114	
0S ribosomal protein S28 - Homo sapiens (Human)	0.9200	0.6202	1.5394	2.3823	0.0057	1.5624	12.5071	0.0000	1.3265	
OS ribosomal protein L30 - Homo sapiens (Human)	1.4614			2.6219			12.2764			
fito chondrial antiviral-signaling protein - Homo sapiens (1.1039	0.7506	EF > 2	2.1596	0.0424	1.9197	10.4020	0.0486	EF > 2	
daptin ear-binding coat-associated protein 2 - Homo sap	1.0896	0.7519	EF > 2	2.8915	0.0025	1.4294	10.2202	0.0000	1.2043	
EC23-interacting protein - Homo sapiens (Human)	1.9990			4.2065			9.6211			
0S ribosomal protein S20 - Homo sapiens (Human)	1.2080	0.4155	1.8928	2.5844	0.0125	1.7523	9.2413	0.0019	1.9767	
ICLS1-binding protein 3 - Homo sapiens (Human)	1.3555			3.2365			9,1618			

Peptide Quantitation table

This table lists all the peptides detected for the protein selected in the Proteins Detected table. Table fields and their definitions are listed below.

Used

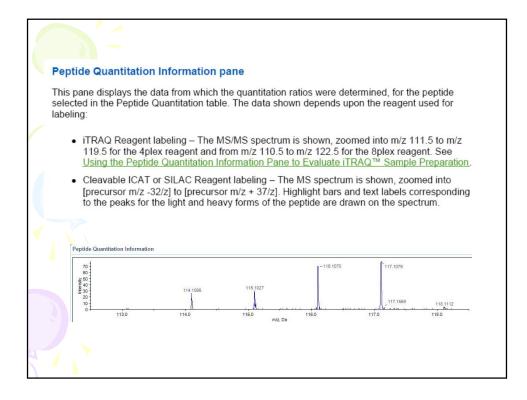
When checked, the ratios for this peptide are used in the calculation of the average ratio for the protein ratio (shown in the Proteins Detected table); see <u>Which Peptides Are Used for Quant2</u>. You can choose to omit or include peptide(s) from the calculation; see <u>Manually Choosing Peptides for the Ratio Calculation</u>.

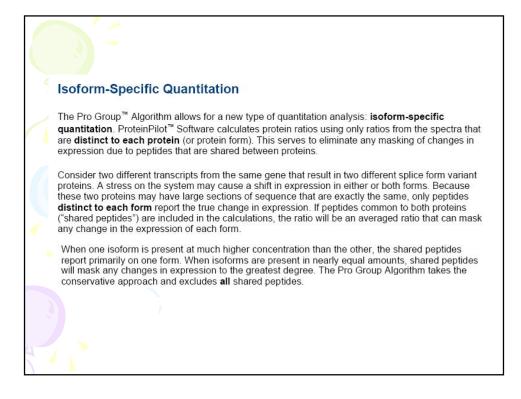
Annotation

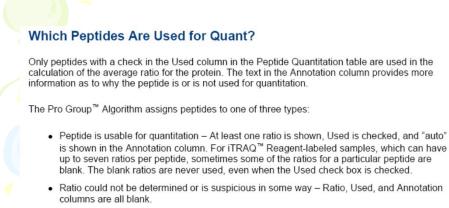
Displays how the Used check box status (checked or unchecked) was determined: "auto" when the program sets the status, "manual" when a user sets the status; see <u>Which Peptides Are Used for</u> <u>Quant?</u>.

Peptide Quantitation

Used /	Annotation	Conf	Sequence	/ Modifications /	Theor m/z	Theor z	Spectrum /	115:114	116:114	117:114
5	auto	4	AALAHSEEVTASQVAATK	iTRAQ4plex@N-term Deamidated(Q)@13 iTRAQ4plex(K)@16	691.7071	3	21.1.1.7338.2	1.3428	3.8268	3.857
•	auto	99	AALAHSEEVTASQVAATK	iTRAQ4plex@N-term iTRAQ4plex(K)@18	691.3790	3	1.1.1.5599.2	0.7341	1.8185	5.212
•	auto	99	AALAHSEEVTASQVAATK	iTRAQ4plex@N-term iTRAQ4plex(K)@18	691.3790	3	21.1.1.7314.3	1.0669	2.9824	7.324
•	auto	5	AEAERAR	iTRAQ4plex@N-term	473.7630	2	26.1.1.3194.2	0.9794	1.2072	0.279
•	auto	52	AEEAEAQKR	iTRAQ4plex@N-term iTRAQ4plex(K)@8	440.5768	3	26.1.1.2043.2	0.9542	2.7617	7.985
V	auto	98	AEEAEAQKR	iTRAQ4plex@N-term iTRAQ4plex(K)@8	440.5768	3	35.1.1.1777.2	1.0182	3.4002	10.383
•	auto	4	AFCGFEDPR	iTRAQ4plex@N-term Methylthio(C)@3	616.2715	2	1.1.1.6097.2	1.3000	2.8912	4.619
N	auto	4	AGEVERDLDKADSMIR	No iTRAQ4plex@N-term iTRAQ4plex(K)@10 Dethiomethyl(M)@14	634.3330	3	24.1.1.4011.3	1.2181	2.7908	4.505

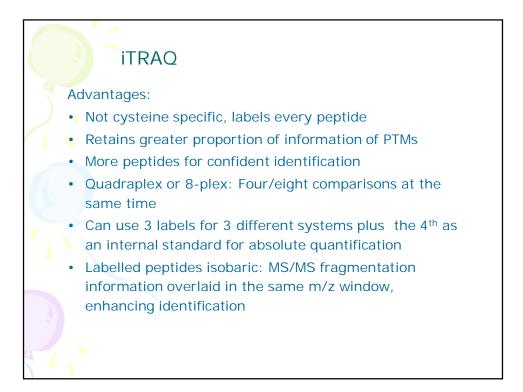


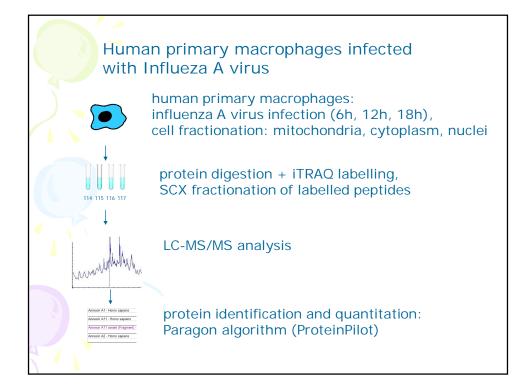


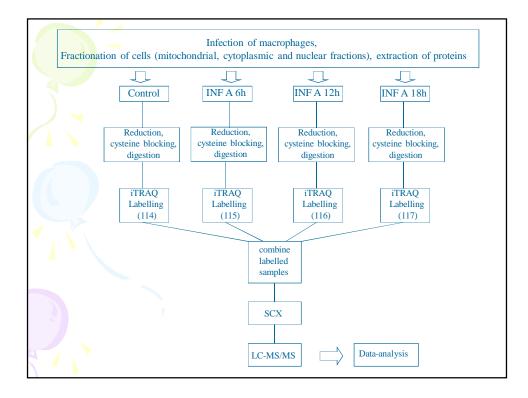


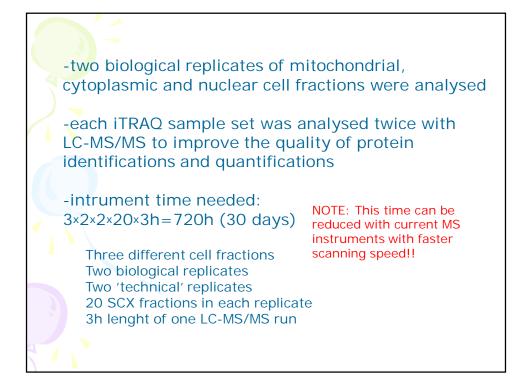
 Ratio can be calculated but peptide is felt to be unusable for quantitation – Ratio is shown, Used is *not* checked, and the Annotation column shows the reason this peptide is deemed unusable.

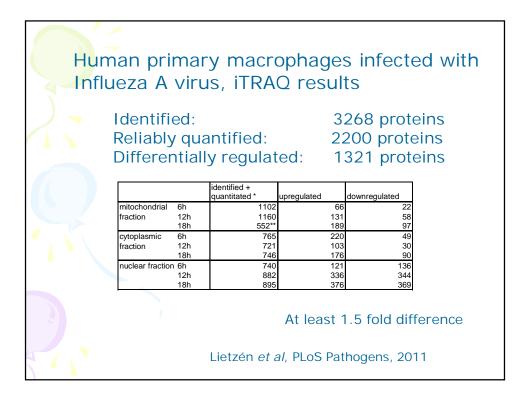
Peptide ratios can be manually included or omitted from average ratio calculation; see <u>Manually</u> <u>Choosing Peptides for the Ratio Calculation</u>.

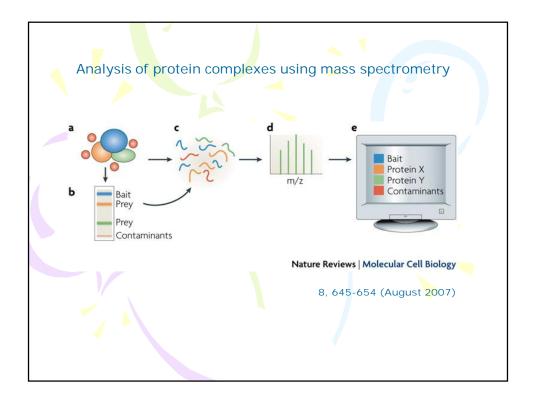


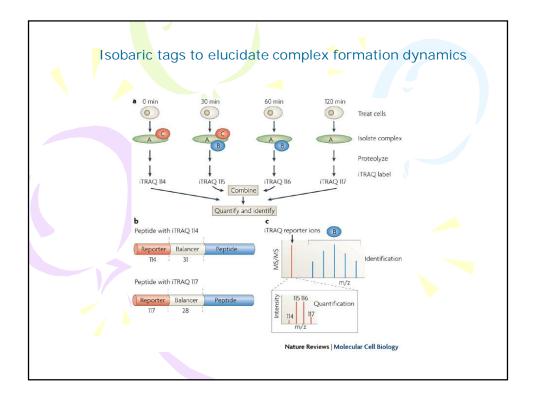


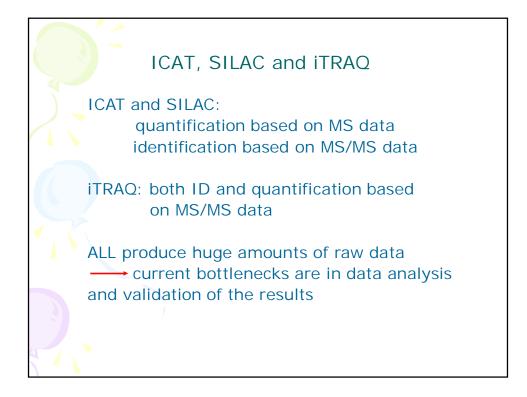


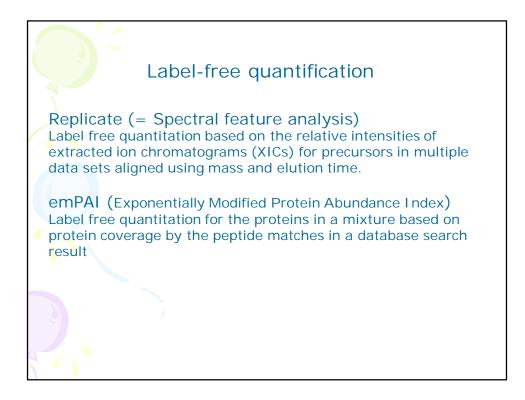


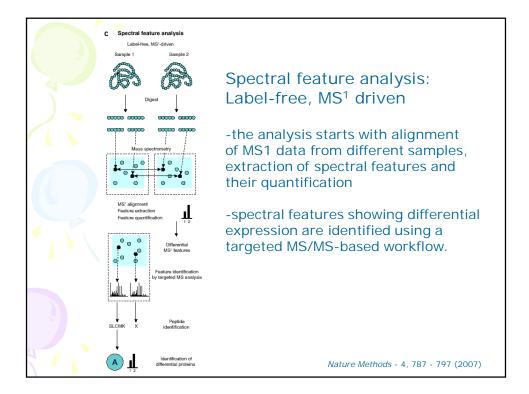


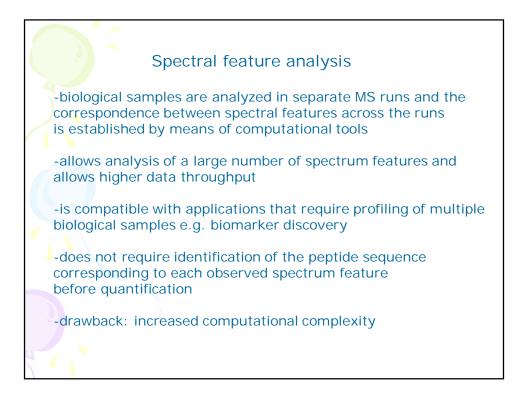


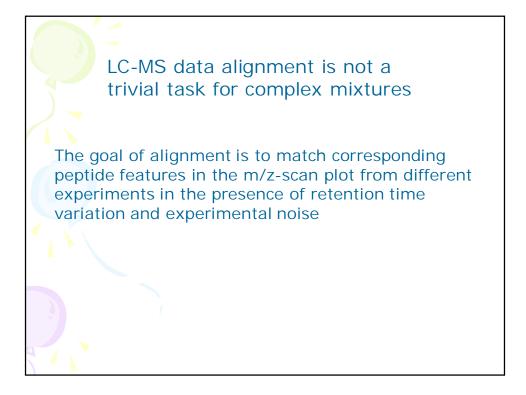


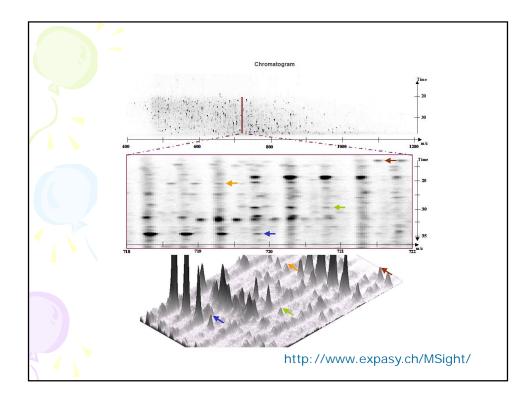


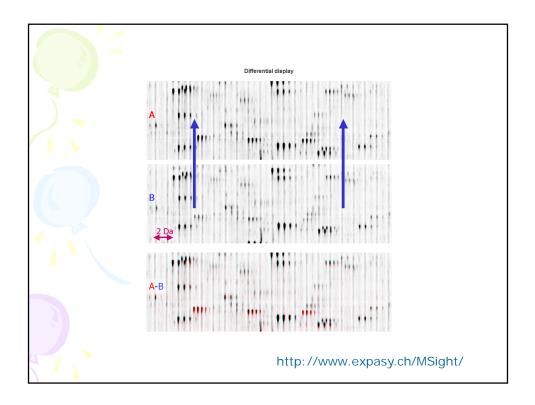


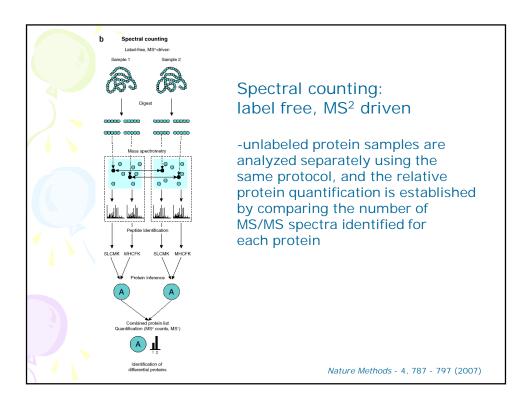


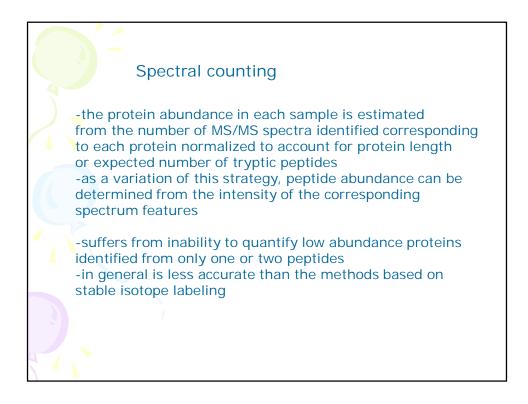


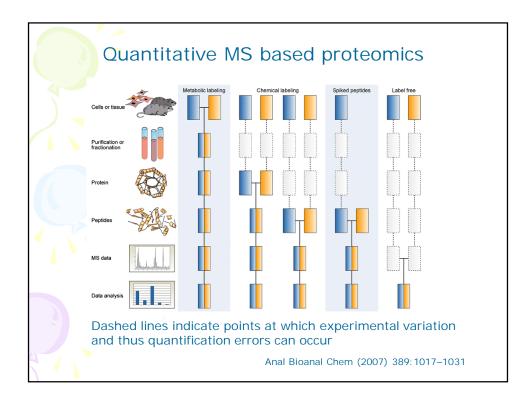












	Application	Accuracy (process)	Quantitative proteome coverage	Linear dynamic ran
	Complex biochemical workflows	+++	++	1-2 logs
Metabolic protein labeling	Comparison of 2-3 states			
	Cell culture systems only			
Chemical protein labeling (MS)	Medium to complex biochemical workflows	+++	++	1-2 logs
Chemical protein labeling (1013)	Comparison of 2-3 states			
Chemical peptide labeling (MS)	Medium complexity biochemical workflows	++	++	2 logs
Chemical pepude labeling (1915)	Comparison of 2-3 states			
Chemical peptide labeling (MS/MS)	Medium complexity biochemical workflows	++	++	2 logs
Chemical pepude labeling (1/15/1/15)	Comparison of 2-8 states			
Enzymatic labeling (MS)	Medium complexity biochemical workflows	++	++	1-2 logs
Enzymatic tabeling (1915)	Comparison of 2 states			
Spiked peptides	Medium complexity biochemical workflows	++	+	2 logs
spiked pepudes	Targeted analysis of few proteins			
	Simple biochemical workflows	+	+++	2-3 logs
Label free (ion intensity)	Whole proteome analysis			
	Comparison of multiple states			
	Simple biochemical workflows	+	+++	2-3 logs
Label free (spectrum counting)	Whole proteome analysis			
	Comparison of multiple states			

