

<i>iqpirQuant.php Multiplex Command</i>	<i>Explanation</i>
RUN	Computes ion apportionments and writes results to file <b>sample.N.iqpir.xls</b> containing the channel apportionments for each ion and <b>sample.N.numids.txt</b> with the
RUN DE	Same as above but for deadends, writing results to <b>deadend/ subdirectory in specified output directory</b>
LOGRATIOS (DE)	Computes cross-link and cross-linked protein pair pairwise channel log2ratios specified in <b>sample_ratios</b> file, with normalization if specified, each written to file
LOGRATIOS INTRA	Same as above but for intra-protein cross-links only, written to <b>intra_only/ subdirectory in specified output directory</b> . If deadend quantitation was done, the intra-protein and
LOGRATIOS ALL (DE)	Computes all 30 pairwise channel cross-link and cross-linked protein pair log2ratios <b>without</b> normalization
LOGRATIOS ALLNORM (DE)	Computes all 30 pairwise channel cross-link and cross-linked protein pair log2ratios <b>with</b> normalization
LOGRATIOS APPORTS (DE)	Computes cross-link and cross-linked protein pair channel apportionments, averaged over all ions and written to output file <b>sample.N.apports.txt</b> and
UPLOAD DE_INTRA	Calculates combined deadend and cross-linked intra-protein log2ratios specified in <b>sample_ratios</b> file, and writes to file <b>proteinratios_xxxx.txt</b> , where xxx indicates the
WRITE_PARAMS	Writes a template multi-channel iqpir.params file
PRINTPARAMS	Prints a template multi-channel iqpir.params file
< 2-channel iqpir.params file > WRITEPARAMS_MULTI	Convert 2-channel iqpir.params file to mutlti-channel iqpir_multi.params with proper fwd/rev channels and normalization options

#### Example Commands

1. Quantify cross-links	<b>iqpirQuant.php iqpir.params RUN</b> followed by <b>iqpirQuant.php iqpir.params LOGRATIOS</b>
2. Quantify deadends	<b>iqpirQuant.php iqpir.params RUN DE</b> followed by <b>iqpirQuant.php iqpir.params LOGRATIOS DE</b>
3. Quantify cross-links and deadends and combine deadend/intra for proteome quantitation	Above steps 1 and 2 followed by <b>iqpirQuant.php iqpir.params INTRA</b> and <b>iqpirQuant.php iqpir.params UPLOAD DE_INTRA</b>