

Supplementary Figures: Quality control for the target decoy approach for peptide identification

Elke Debie,[†] Milan Malfait,[†] Ralf Gabriels,^{‡,¶} Arthur Declercq,^{‡,¶} Adriaan Sticker,^{†,‡,¶} Lennart Martens,^{‡,¶} and Lieven Clement^{*,†}

[†]*Department of Applied Mathematics, Computer Science and Statistics, Ghent University, Ghent University, Ghent, Belgium*

[‡]*VIB-UGent Center for Medical Biotechnology, VIB, Zwijnaarde, Belgium*

[¶]*Department of Biomolecular Medicine, Ghent University, Ghent, Belgium*

E-mail: lieven.clement@ugent.be

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## tlmgr install achemso
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## tlmgr install caption
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References

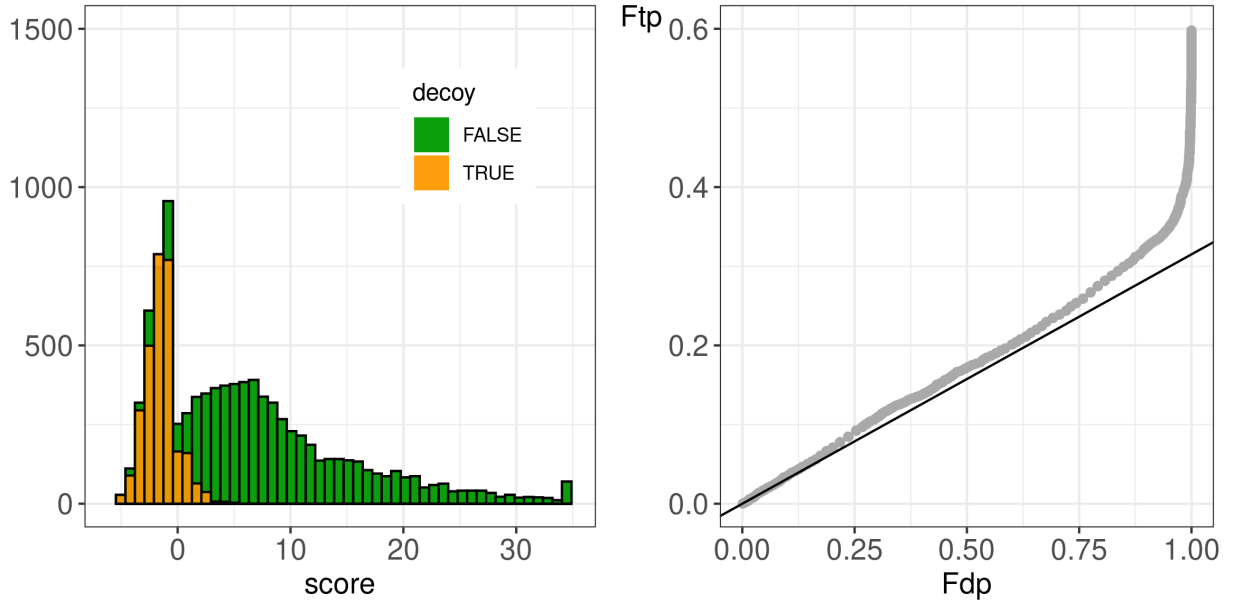


Figure 1: Histogram and PP-plot for a concatenated search on a *Pyrococcus* run against a database of canonical *P. furiosus* sequences from Swiss-Prot using X!Tandem without refinement. Both the histogram and the P-P plot show no violation of the TDA assumptions.

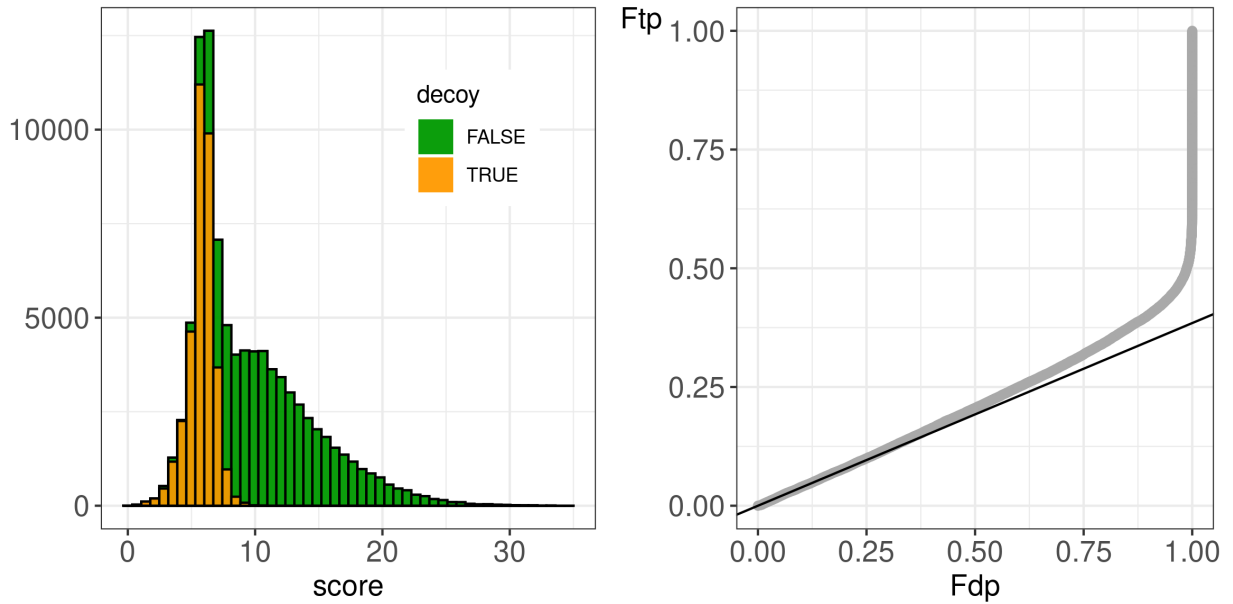


Figure 2: Histogram and PP-plot for a concatenated search on a *H. sapiens* run against a database of *H. Sapiens* sequences from UniProt using MS-GF+. Both the histogram and the P-P plot show no violation of the TDA assumptions.

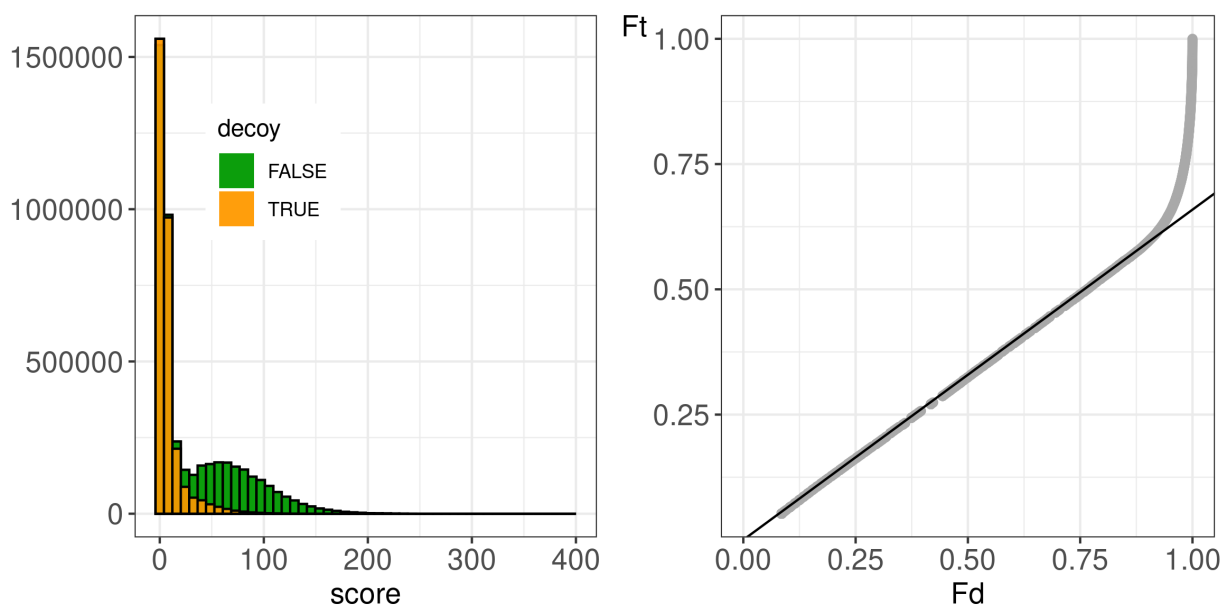


Figure 3: Histogram and PP-plot for a concatenated search on an immunopeptidomics run using Andromeda. Both the histogram and the P-P plot show no violation of the TDA assumptions.

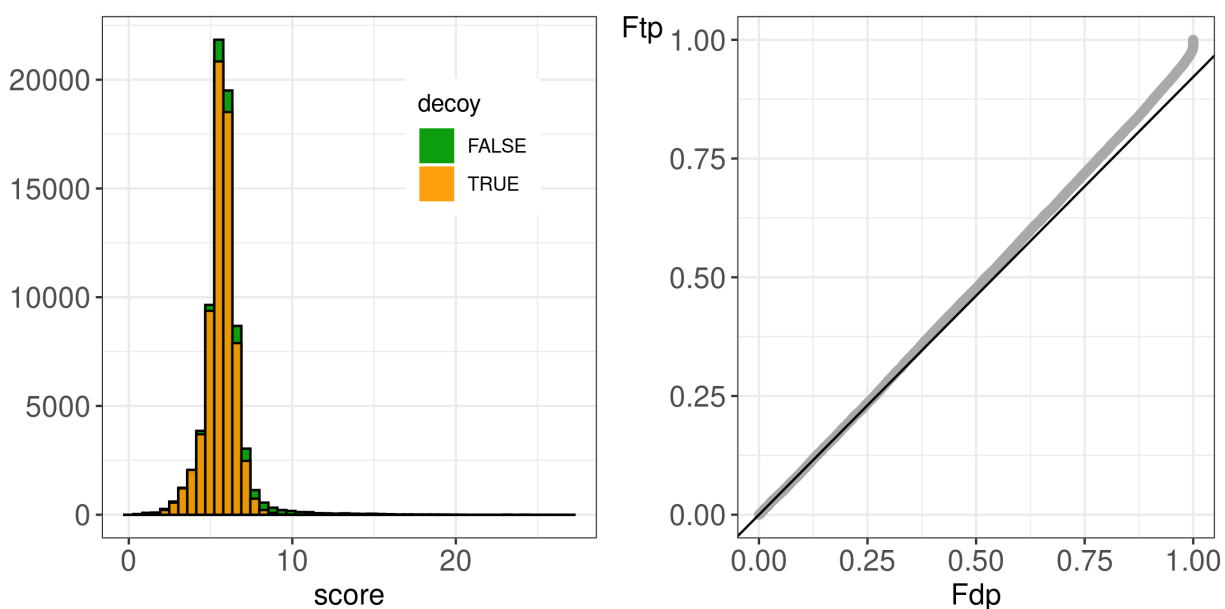


Figure 4: Histogram and PP-plot for rank 2 target and decoy PSM scores of a concatenated search on a *H. sapiens* run against a database of *H. Sapiens* sequences from UniProt using MS-GF+.