



![](data:None;base64,)

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**Figure S1.** Typical LTQ/Orbitrap spectra for the ETD fragmentation of two methylated peptides (A) and (B) derived from enriched *T. brucei* mitochondrial preparation; their corresponding CID spectra are shown in (C) and (D). “\*” and ” #” respectively denotes mono- and di- methylations on arginine residues. Dots signify the radical ion as a result of electron transferring. The two peptides are from different proteins.