

## Supplementary Figure S1

Comparison of fragmentation patterns of significant peptide VSADVPTQSVK detected in (A) Spot 9 (see Figure 4 and Table 3) and (B) in MS after LA-ICP-MS experiment (see Table 4). The strong similarity of the two fragmentation patterns suggests that the peptide assigned to copper chaperon, heavy metal ion binding (modular protein) in Spot 9 is not a random event. Proteins were considered identified by Orbitrap MS when one peptide had a score above the MASCOT homology threshold.

