



## Additional data file 4

**Identification of proteins extracted by  $\text{CaCl}_2$  and  $\text{LiCl}$  from the cell wall fraction prepared from 11-day-old etiolated hypocotyls by MALDI-TOF MS.** **a.** Improvement of efficiency of protein identification after 2D-separation of proteins. Numbers of ions found for identification of proteins after 1D- (yellow bars) and 2D- (blue bars) separation are shown. Note that only 7 out of 50 proteins are identified with less ions after 1D- than after 2D-separation. **b.** Increase in number of ions for protein identification after 2D-separation of proteins. Number of proteins identified with 3 to 20 ions are shown after 1D-(yellow bars) and 2D- (blue bars) separation. Note that the barycentre of this number of ions used for successful identification is higher after 2D- than after 1D-separation.