Note: Those tables which could not be accommodated in A4 size paper are provided as Annexure in the compact disk (CD) attached to the inside of the back cover of the thesis.

**List of Annexure**

**Annexure 1:**
(A) List of all the identified proteins using LC-MS$^E$ with their details; (B) List of 481 differentially accumulated proteins identified using LC-MS$^E$ with their details; (C) List of 481 differentially accumulated proteins with their fold changes.

**Annexure 2:**
List of all the identified metabolites which has highest loading influence (of VIP$>1.0$) using high resolution orbitrap LC-MS with their details.