

Supplementary Table S3. Proteomic studies and seasonal weight loss (SWL) induced stress

| Condition | Sample | Technique | Main identified proteins | Ref |
|-------------------------------------|-----------------|---------------------------------|--|-----|
| SWL in two rabbit breeds | Skeletal muscle | 2DE | L-Lactate Dehydrogenase, adenylate kinase, glyceraldehyde 3-phosphate dehydrogenase | 58 |
| SWL in three sheep breeds | Skeletal muscle | 2DE | Histidine triad nucleotide binding protein, desmin, phosphoglucomutase-1 | 67 |
| SWL in three sheep breeds | Liver | 2DE | Glutathione S-transferase, Phosphoglycerate mutase, HSP (Heat Shock protein) like stress protein; | 68 |
| SWL in three sheep breeds | Skeletal muscle | Label free / shotgun proteomics | Apolipoprotein A-IV, ferritin heavy polypeptide 1, Serpin peptide inhibitor clade H member 1 | 69 |
| SWL in merino sheep | Wool | iTRAQ / Shotgun proteomics | High Sulphur protein KAP13.1 and KAP6 family (High Glycine-tyrosine protein) | 70 |
| SWL in lactating in two goat breeds | Mammary gland | 2DE and BN-PAGE | NADH-ubiquinone oxidoreductase 75 kDa subunit, lamin B1 mitochondrial, Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2, cytochrome b-c1 complex subunit 1, Bovine F1-C8 Sub-Complex Of Atp Synthase | 71 |