

Table IV. Classification of identified proteins in biological and molecular processes according to the Gene Ontology (GO) terms.

|                                     | Biological processes |                    |   | Molecular processes |                    |
|-------------------------------------|----------------------|--------------------|---|---------------------|--------------------|
|                                     | Number of genes      | % for each process |   | Number of genes     | % for each process |
| Cellular physiological process      | 183                  | 90.59              | Protein binding                                   | 70                  | 33.82              |
| Metabolism                          | 167                  | 82.67              | Hydrolase activity                                | 48                  | 23.19              |
| Localization                        | 43                   | 21.29              | Nucleotide binding                                | 48                  | 23.19              |
| Regulation of physiological process | 35                   | 17.33              | Ion binding                                       | 42                  | 20.29              |
| Regulation of cellular process      | 34                   | 16.83              | Oxidoreductase activity                           | 36                  | 17.39              |
| Cell communication                  | 24                   | 11.88              | Nucleic acid binding                              | 30                  | 14.49              |
| Response to stress                  | 23                   | 11.39              | Transferase activity                              | 24                  | 11.59              |
| Response to abiotic stimulus        | 13                   | 6.44               | Electron transporter                              | 17                  | 8.21               |
| Negative regulation of process      | 12                   | 5.94               | Ligase activity                                   | 13                  | 6.28               |
| Physiological process               | 11                   | 5.45               | Lipid binding                                     | 7                   | 3.38               |
| Morphogenesis                       | 9                    | 4.46               | Isomerase activity                                | 7                   | 3.38               |
| Response to biotic stimulus         | 9                    | 4.46               | Lyase activity                                    | 7                   | 3.38               |
| Positive regulation of process      | 6                    | 2.97               | Structural constituent of cytoskeleton            | 6                   | 2.9                |
| Death                               | 6                    | 2.97               | Ion transporter activity                          | 6                   | 2.9                |
| Response to external stimulus       | 5                    | 2.48               | Enzyme activator activity                         | 6                   | 2.9                |
| Locomotion                          | 5                    | 2.48               | Helicase activity                                 | 4                   | 1.93               |
| Regulation of enzyme activity       | 4                    | 1.98               | Carrier activity                                  | 4                   | 1.93               |
| System development                  | 4                    | 1.98               | Cofactor binding                                  | 4                   | 1.93               |
| Organ development                   | 4                    | 1.98               | Structural constituent of ribosome                | 3                   | 1.45               |
| Response to endogenous stimulus     | 3                    | 1.49               | Small protein activating enzyme activity          | 3                   | 1.45               |
| Regulation of growth                | 3                    | 1.49               | Receptor binding                                  | 3                   | 1.45               |
| Cell growth                         | 3                    | 1.49               | GTPase regulator activity                         | 3                   | 1.45               |
| Homeostasis                         | 3                    | 1.49               | Channel or pore class transporter activity        | 3                   | 1.45               |
| Tissue development                  | 2                    | 0.99               | Transcriptional activator activity                | 3                   | 1.45               |
| Behavior                            | 2                    | 0.99               | Translation factor activity, nucleic acid binding | 3                   | 1.45               |
| Cell differentiation                | 1                    | 0.5                | Enzyme inhibitor activity                         | 2                   | 0.97               |
| Cell adhesion                       | 1                    | 0.5                | Peroxidase activity                               | 2                   | 0.97               |
|                                     |                      |                    | Chromatin binding                                 | 2                   | 0.97               |
|                                     |                      |                    | Transcription factor activity                     | 2                   | 0.97               |
|                                     |                      |                    | Receptor signaling protein                        | 2                   | 0.97               |
|                                     |                      |                    | Transcription cofactor activity                   | 2                   | 0.97               |
|                                     |                      |                    | ATPase activity, movement of substances           | 2                   | 0.97               |
|                                     |                      |                    | Selenium binding                                  | 2                   | 0.97               |
|                                     |                      |                    | Vitamin binding                                   | 1                   | 0.48               |
|                                     |                      |                    | Isoprenoid binding                                | 1                   | 0.48               |
|                                     |                      |                    | Transcriptional repressor activity                | 1                   | 0.48               |
|                                     |                      |                    | Small protein conjugating enzyme activity         | 1                   | 0.48               |
|                                     |                      |                    | Caspase regulator activity                        | 1                   | 0.48               |
|                                     |                      |                    | Chaperone activator activity                      | 1                   | 0.48               |
|                                     |                      |                    | Lipid transporter activity                        | 1                   | 0.48               |
|                                     |                      |                    | Drug binding                                      | 1                   | 0.48               |
|                                     |                      |                    | Protein transporter activity                      | 1                   | 0.48               |
|                                     |                      |                    | Organic acid transporter activity                 | 1                   | 0.48               |