## Supplementary Table 6. Related to Figure 2; Network connectivity by annotation.

The co-expression network characteristics are shown based on different correlation coefficient cut-offs applied. The correlation cut-off identifies genes that are co-expressed with at least one other gene and an absolute correlation higher than the cut-off. Hence higher cut-off values identify smaller networks (columns A and B). The remaining columns show the overlap between the network and the genes identified by GWAS, based on different annotation strategies (absolute numbers and percentages are shown). Finally, column I shows how many Mendelian genes are included in the relevant network.

| Coexpression cut-off | N. genes in network | N. network genes covered by gwas (VEP) with intergenic | % of total In network | N. network genes covered by ALL VEP conseq | % of total In network | N. network genes covered by 250kb window (equivalent to FM Block) | % of total In network | N. mendelian genes in network |
|----------------------|---------------------|--------------------------------------------------------|-----------------------|-------------------------------------------|----------------------|---------------------------------------------------------------|---------------------|--------------------------------|
| 0                    | 7509                | 1874                                                   | 24.9567186            | 2070                                      | 27.5669197          | 5720                                                          | 76.17525636        | 134                           |
| 0.1                  | 7509                | 1874                                                   | 24.9567186            | 2070                                      | 27.5669197          | 5720                                                          | 76.17525636        | 134                           |
| 0.2                  | 7430                | 1866                                                   | 25.11440108           | 2061                                      | 27.73889637         | 5673                                                          | 76.3526245         | 132                           |
| 0.3                  | 6946                | 1777                                                   | 25.58306939           | 1968                                      | 28.33285344         | 5350                                                          | 77.0227469         | 131                           |
| 0.4                  | 5994                | 1578                                                   | 26.32632633           | 1745                                      | 29.11244578         | 4668                                                          | 77.87787788        | 114                           |
| 0.5                  | 4554                | 1220                                                   | 26.78963549           | 1339                                      | 29.40272288         | 3551                                                          | 77.97540624        | 92                            |
| 0.6                  | 2657                | 726                                                    | 27.32404968           | 794                                       | 29.88323706         | 2071                                                          | 77.94505081        | 62                            |
| 0.7                  | 1051                | 300                                                    | 28.54424358           | 330                                       | 31.39866794         | 802                                                           | 76.30827783        | 38                            |
| 0.8                  | 262                 | 95                                                     | 36.25954198           | 102                                       | 38.93129771         | 202                                                           | 77.09923664        | 15                            |
| 0.9                  | 20                  | 8                                                      | 40                    | 8                                         | 40                  | 19                                                            | 95                  | 2                             |