**SUPPLEMENTAL TABLES**

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| **Table S4:** Gene-Ontology (GO) enrichment analysis of genes altered in **IBS** patients after the RR-MBI. The enrichment score for each biological group indicates its importance (enrichment) and was calculated by taking the geometric mean of enrichment p-values (EASE scores) for each GO term associated with the gene members in the group. An enrichment score of 2 is equivalent to a non-log p-value of 0.01.  |
| **Major GO Cluster** | **Enrichment Score** | **Selected Processes** | **P value** |
| **Stress/inflammatory response** | 1.89 |  |  |
|  | * Cellular response to stress
 | 0.002 |
| * Inflammatory response
 | 0.020 |
| **Response to Vitamin** | 1.76 |  |  |
|  | * Response to vitamin A
 | 0.006 |
|  | * Response to Retinoic acid
 | 0.030 |
| **Protein transport** | 1.74 |  |  |
| **Hematopoiesis** | 1.47 |  |  |
|  | * Hematopoiesis
 | 0.020 |
|  | * Immune system process
 | 0.037 |
|  | * Cell activation
 | 0.047 |
| **Angiogenesis** | 1.41 |  |  |
|  | * Blood vessel morphogenesis
 | 0.043 |
|  | * Angiogenesis
 | 0.046 |