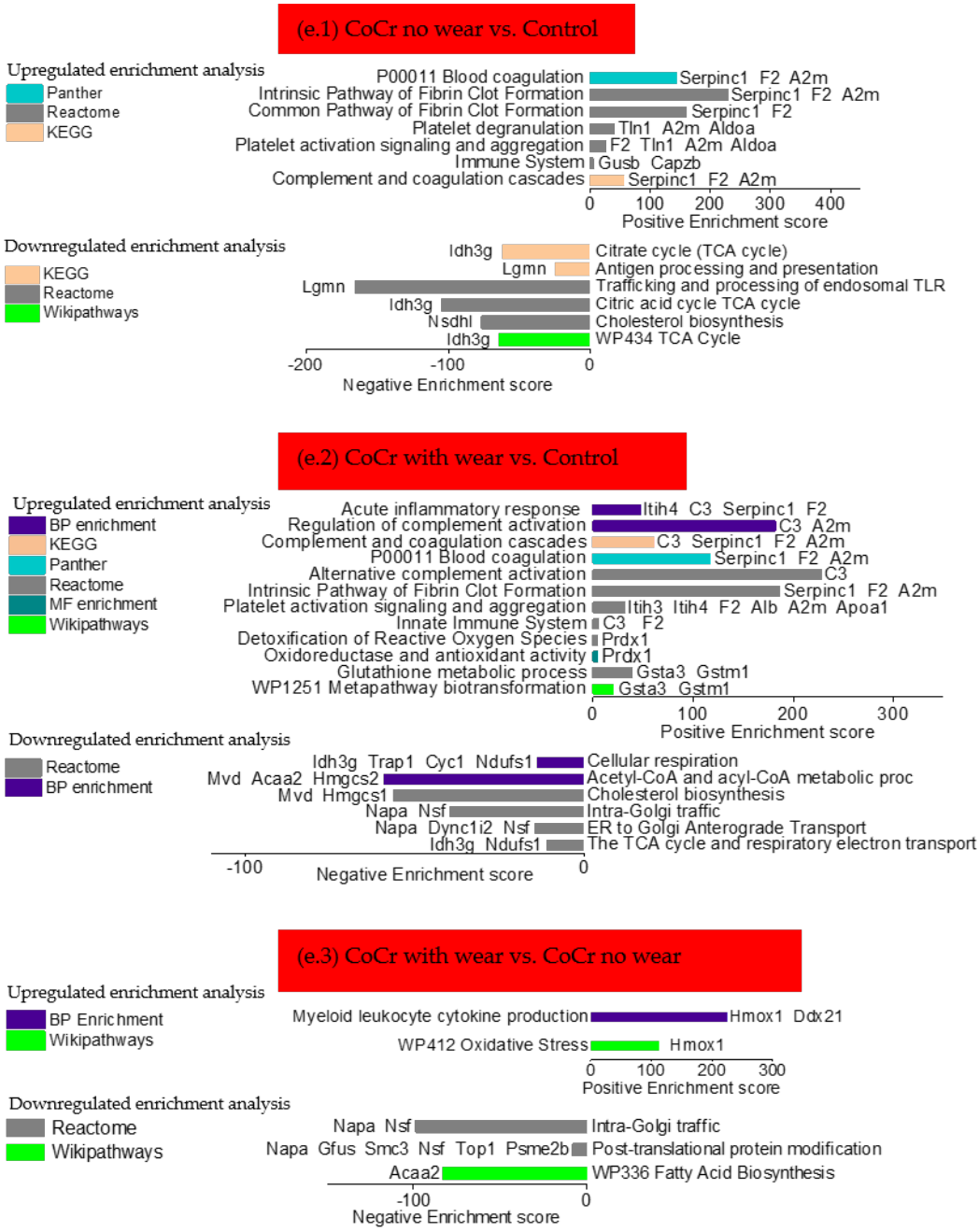

Figure S1. Pairwise Gene-Ontology enrichment analyses (e.1, e.2, e.3) of J744A.1 macrophages in response to CoCr-surfaces showing significant enriched GO terms. Positive enrichment scores of significant enriched GO-terms associated with up-regulated DEPs, and negative enrichment scores of significant enriched GO-terms as-sociated with down-regulated DEPs. Each pairwise Gene-Ontology enrichment analysis was performed applying the corresponding DEPs computed from same pairwise com-parison in volcano plots: CoCr no wear vs Control comparison (e.1) CoCr with wear vs Control comparison (e.2) CoCr with wear vs CoCr no wear comparison (e.3); Enriched GO terms with statistical significance computed with p-value < 0.05 in Shiny GO databases (BP enrichment, MF enrichments, Panther, KEGG, Reactome and Wikipathways data-bases).

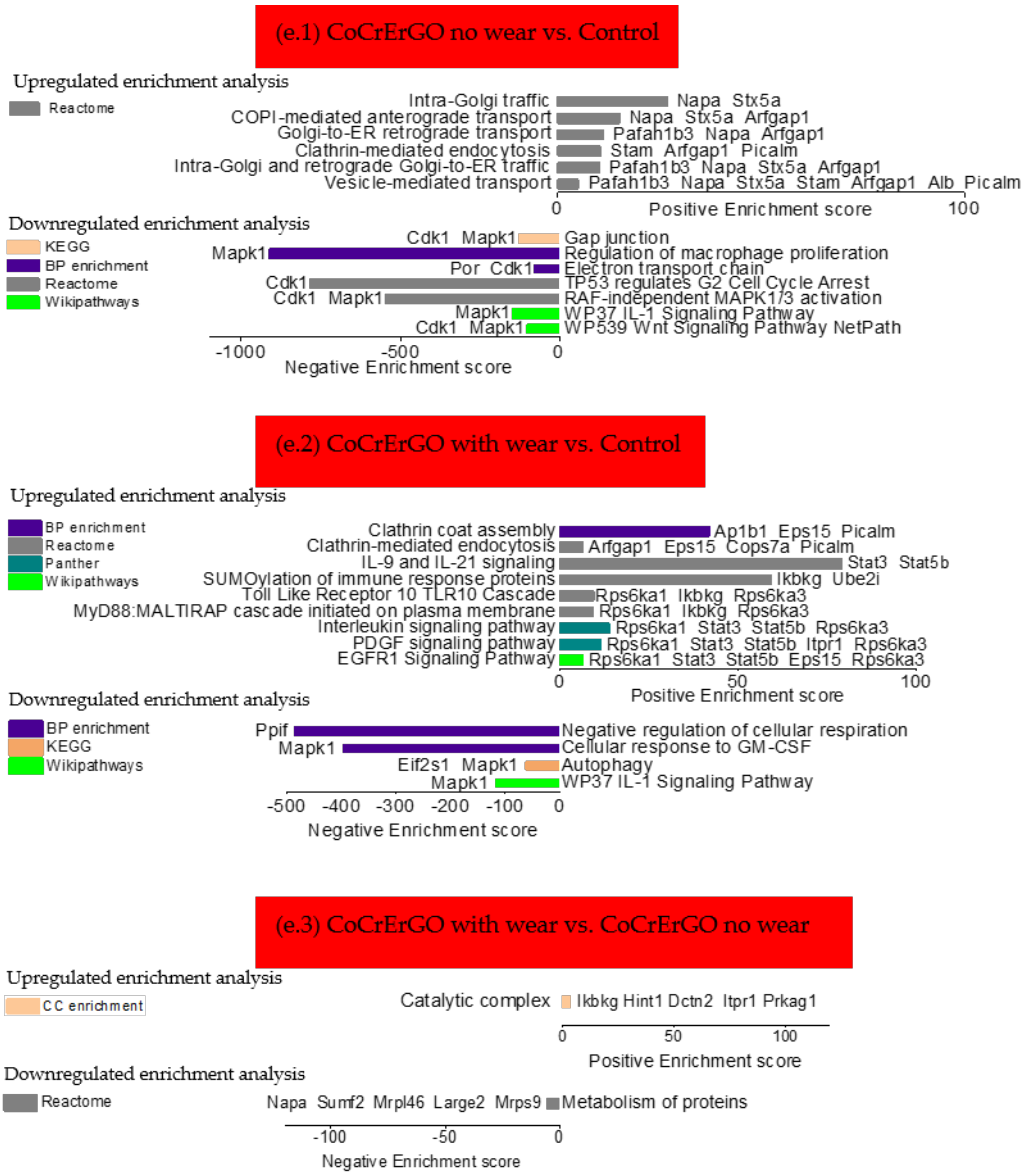

Figure S2. Pairwise Gene-Ontology enrichment analyses (e.1, e.2, e.3) of J744A.1 macrophages in response to CoCrErGO-surfaces showing significant en-riched GO terms. Positive enrichment scores of significant enriched GO-terms associated with up-regulated DEPs, and negative enrichment scores of significant enriched GO-terms associated with down-regulated DEPs. Each pairwise Gene-Ontology enrichment analysis was performed applying the corresponding DEPs computed from same pairwise com-parison in volcano plots: CoCrErGO no wear vs Control comparison (e.1) CoCrErGO with wear vs Control comparison (e.2) CoCrErGO with wear vs CoCrErGO no wear compari-son (e.3); Enriched GO terms with statistical significance computed with p-value < 0.05 in Shiny GO databases (BP enrichment, CC enrichment, KEGG, Reactome, Wikipathways and Panther databases)

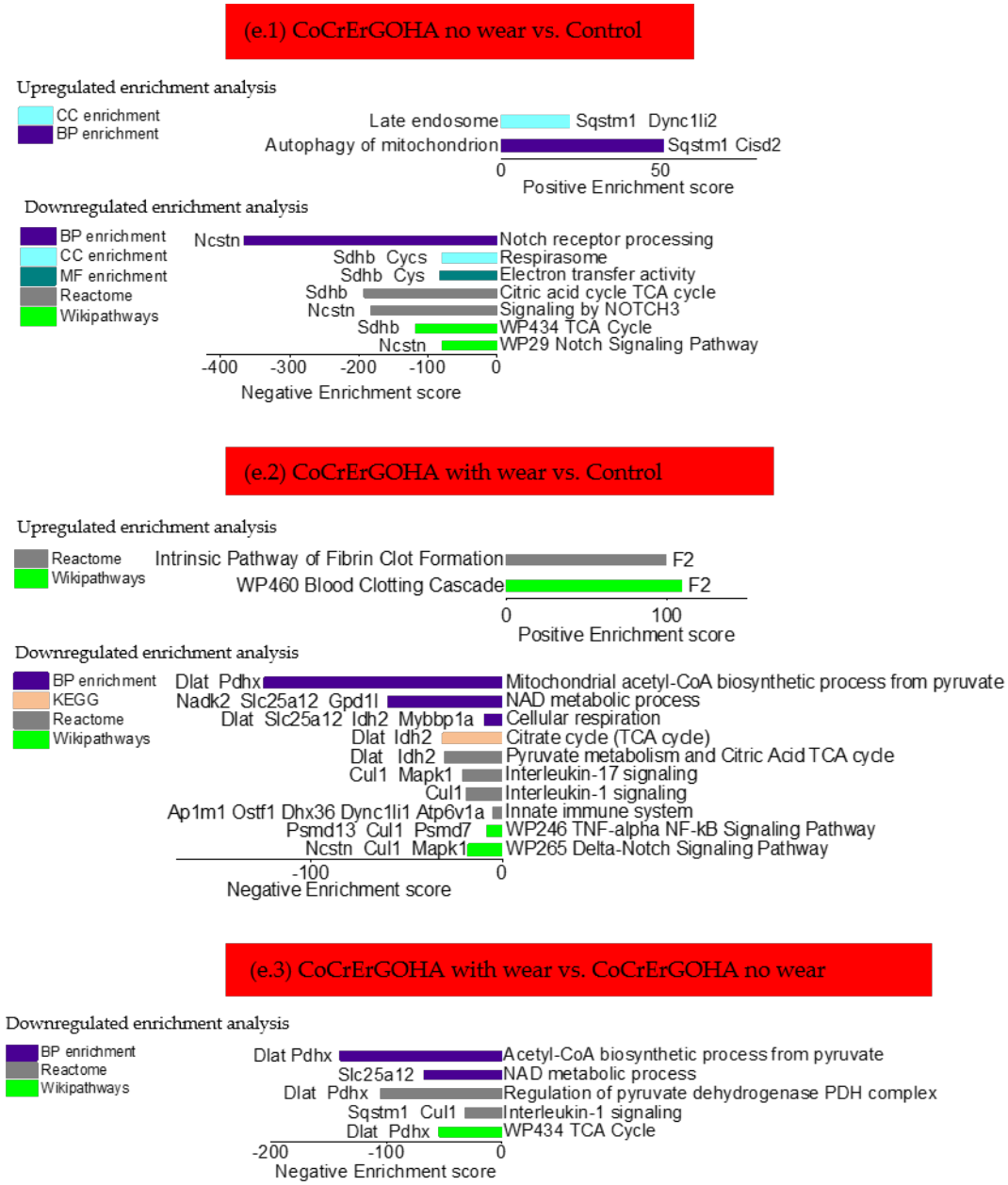

Figure S3. Pairwise Gene-Ontology enrichment analyses (e.1, e.2, e.3) of J744A.1 macrophages in response to CoCrErGOHA-surfaces showing significant enriched GO terms. Positive enrichment scores of significant enriched GO-terms associated with up-regulated DEPs, and negative enrichment scores of significant enriched GO-terms as-sociated with down-regulated DEPs. Each pairwise Gene-Ontology enrichment analysis was performed applying the corresponding DEPs computed from same pairwise com-parison in volcano plots: CoCrErGO no wear vs Control comparison (e.1) CoCrErGOHA with wear vs Control comparison (e.2) CoCrErGOHA with wear vs CoCrErGOHA no wear comparison (e.3); Enriched GO terms with statistical significance computed with p-value < 0.05 in Shiny GO databases (BP enrichment, CC enrichment, MF enrichments, KEGG, Reactome, Wikipathways databases).