

Table 1 : GO biological processes, GO Molecular functions and GO KEGG extracted from inlet samples versus the middle sample using iDEP8.1

GO Biological processes				
Direction	adj.Pval	nGenes	Pathways	
Up Inlet	2.1e-04	4	Cellular response to X-ray	
	1.2e-03	19	Cell adhesion	
	1.2e-03	16	Regulation of anatomical structure morphogenesis	
	1.2e-03	15	Growth	
	1.2e-03	4	Heart valve morphogenesis	
	1.2e-03	8	Epithelial cell migration	
	1.2e-03	4	Response to vitamin D	
	1.2e-03	8	Regulation of angiogenesis	
	1.2e-03	11	Blood vessel morphogenesis	
	1.2e-03	18	Plasma membrane bounded cell projection organization	
	1.3e-03	18	Cell projection organization	
	Up Middle	4.1e-04	4	Blood coagulation, fibrin clot formation
		8.4e-04	7	Organic acid catabolic process
		8.4e-04	18	Small molecule metabolic process
8.6e-04		16	Proteolysis	
8.6e-04		4	Bile acid metabolic process	
8.6e-04		5	Protein activation cascade	
1.2e-03		7	Steroid metabolic process	
1.2e-03		10	Regulation of proteolysis	
1.2e-03		2	Bile acid catabolic process	
1.2e-03		5	Cellular hormone metabolic process	
1.2e-03		8	Post-translational protein modification	
1.2e-03		7	Protein maturation	
1.4e-03		3	Plasminogen activation	
1.4e-03		3	Microvillus organization	
GO Molecular functions				
Direction	adj.Pval	nGenes	Pathways	
Up Inlet	6.5e-03	9	Actin binding	
	6.8e-03	5	Structural constituent of cytoskeleton	
	7.6e-03	2	Bubble DNA binding	
	7.6e-03	12	Cytoskeletal protein binding	
Up Middle	8.4e-03	8	Lipid binding	
	8.4e-03	5	Peptidase inhibitor activity	
GO KEGG				
Direction	adj.Pval	nGenes	Pathways	
Up Inlet	1.3e-03	6	Hippo signaling pathway	
	2.7e-03	6	Focal adhesion	
	3.3e-03	5	MicroRNAs in cancer	
	3.3e-03	4	Hypertrophic cardiomyopathy (HCM)	
Up Middle	3.9e-03	3	PPAR signaling pathway	
	3.9e-03	3	Complement and coagulation cascades	