Table S3. Most significant IPA Bio-Functions (P < 0.01) for the AI vs. SCNT profiles in bovine endometrial caruncles and intercaruncular areas

Category	P-value	Number of genes
IPA Biofunction in the [AI *vs.* SCNT] profiles -caruncles-		
Cell Death	1,62E-05-2,38E-02	52
Tumor Morphology	4,6E-05-2,13E-02	8
Cellular Growth and Proliferation	5,15E-05-2,6E-02	47
Cell Cycle	5,32E-04-2,23E-02	12
Immune Response	9,57E-04-2,38E-02	18
Lipid Metabolism	1,05E-03-2,38E-02	8
Small Molecule Biochemistry	1,05E-03-2,38E-02	18
Cellular Movement	1,16E-03-2,41E-02	32
Hematological System Development and Function	1,16E-03-2,38E-02	16
Tissue Development	1,39E-03-2,52E-02	24
Reproductive System Development and Function	1,95E-03-2,07E-02	8
Cellular Function and Maintenance	2,59E-03-2,23E-02	13
Organ Morphology	2,59E-03-1,9E-02	9
Nucleic Acid Metabolism	3,59E-03-1,34E-02	5
Tissue Morphology	3,59E-03-1,34E-02	7
Cell Morphology	4,67E-03-1,34E-02	11
Organismal Development	6,05E-03-1,67E-02	23
Skeletal and Muscular System Development and Function	6,05E-03-2,52E-02	20
Molecular Transport	6,06E-03-2,23E-02	10
Cellular Development	7,17E-03-2,33E-02	31
Cellular Compromise	7,5E-03-1,98E-02	10
Connective Tissue Development and Function	7,5E-03-2,38E-02	7
IPA Biofunction in the [AI *vs.* SCNT] profiles -intercaruncular areas-		
Cell-To-Cell Signaling and Interaction	2,34E-06-1,64E-02	27
Cellular Movement	3,07E-06-1,86E-02	54
Cardiovascular System Development and Function	2,22E-05-1,85E-02	28
Cellular Growth and Proliferation	1,3E-04-1,92E-02	78
Cellular Assembly and Organization	1,33E-04-1,64E-02	17
Cell Death	1,38E-04-1,94E-02	67
Lipid Metabolism	1,43E-04-1,83E-02	22
Small Molecule Biochemistry	1,43E-04-1,85E-02	38
Connective Tissue Development and Function	2,67E-04-1,64E-02	18
Organ Development	3,95E-04-1,05E-02	11
Visual System Development and Function	3,95E-04-3,89E-03	6

Carbohydrate Metabolism	4,05E-04-1,42E-02	14
Cell Cycle	4,05E-04-1,94E-02	29
Molecular Transport	4,05E-04-1,66E-02	37
Nucleic Acid Metabolism	4,05E-04-7,95E-03	7
Skeletal and Muscular System Development and Function	4,05E-04-1,33E-02	10
Hematological System Development and Function	4,2E-04-1,76E-02	31
Immune and Lymphatic System Development and Function	4,2E-04-8,34E-03	8
Tissue Development	4,2E-04-1,07E-02	8
Immune Response	6,05E-04-1,76E-02	17
Cellular Development	6,21E-04-1,92E-02	56
Reproductive System Development and Function	6,21E-04-7,95E-03	10
Tissue Morphology	1,18E-03-1,64E-02	17
Nervous System Development and Function	1,2E-03-9,39E-03	15
Organ Morphology	1,2E-03-1,06E-02	10
Tumor Morphology	1,25E-03-1,64E-02	13
Organismal Functions	1,78E-03-1,83E-02	6
Cell Morphology	2,25E-03-1,66E-02	33
Organismal Survival	2,34E-03-1,86E-02	37
Embryonic Development	2,92E-03-1,05E-02	5
Amino Acid Metabolism	5,76E-03-1,85E-02	8
Organismal Development	5,99E-03-1,33E-02	9
Post-Translational Modification	9,88E-03-1,85E-02	6