

**Table 4.** Most significant IPA Canonical Pathways (CP;  $P < 0.05$ ) for the AI vs. SCNT profiles in bovine endometrial caruncles and intercaruncular areas

Pathway	P-value	Nb. of genes
<b>IPA Canonical pathway in the [AI vs. SCNT] profiles - caruncles-</b>		
Oxidative Phosphorylation	1.10E-17	22
Mitochondrial Dysfunction	1.16E-07	12
Ubiquinone Biosynthesis	1.16E-05	7
Antigen Presentation Pathway	1.31E-03	4
Fructose and Mannose Metabolism	3.08E-02	3
Purine Metabolism	3.75E-02	8
<b>IPA Canonical pathway in the [AI vs. SCNT] profiles -intercaruncular areas-</b>		
Tight Junction Signaling	1.01E-03	10
Hepatic Fibrosis / Hepatic Stellate Cell Activation	3.77E-03	8
Acute Phase Response Signaling	6.73E-03	9
Neuregulin Signaling	7.75E-03	6
IGF-1 Signaling	7.75E-03	6
NRF2-mediated Oxidative Stress Response	8.40E-03	9
LXR/RXR Activation	1.26E-02	5
PXR/RXR Activation	1.26E-02	5
Integrin Signaling	1.68E-02	9
RAR Activation	1.80E-02	8
Ceramide Signaling	1.92E-02	5
Actin Cytoskeleton Signaling	1.95E-02	9
TR/RXR Activation	2.60E-02	5
VEGF Signaling	2.60E-02	5
PI3K/AKT Signaling	2.99E-02	6
PTEN Signaling	3.24E-02	5
Leukocyte Extravasation Signaling	3.48E-02	8
Insulin Receptor Signaling	3.82E-02	6
LPS/IL-1 Mediated Inhibition of RXR Function	3.97E-02	8
Mitochondrial Dysfunction	4.21E-02	6