

qPCR verification		Genes/Pathways				Locality* (up/down regulated genes)				Metabolism of xenobiotics by cytochrome P450		Drug metabolism - cytochrome P450		Steroid hormone biosynthesis		Glutathione metabolism		Arachidonic acid metabolism		Glycerolipid metabolism		ABC transporters		Wnt signaling pathway		TGF-beta signaling pathway		Gap junction		p53 signaling pathway	
	Locality* (deregul. pathways)	OB	OP	K	T																										
X	MGST1					X	X		X																						
	GSTO1					X	X		X																						
	GSTM5					X	X		X																						
	ALDH3B1					X	X																								
X	CYP1B1					X		X																							
	AKR1C2					X		X																							
	CYP2S1					X																									
	HSD17B2							X																							
	HSD11B1							X																							
	GPX3													X	X																
	PGD													X																	
	RRM2													X																	
	GSR													X																	
	FMO3								X																						
	AOX1							X																							
X	TBXAS1																	X													
X	PTGS2																	X													
X	SMAD3																							X	X						
	SKP1A																							X	X						
X	NKD2																							X							
X	WNT2																							X							
	FZD1																							X							
X	BMP2																											X			
	ID1																										X				
X	ID2																									X					
	TGFB3																									X					
	ABCC4																						X								
	ABCB9																						X								
	ABCC5																						X								
	ABCB6																						X								
	AKR1B1																														
	GLA																							X							
	GK																							X							
	PPAP2C																							X							
	ALD3A2																							X							
	GPAT6																							X							
	PPAP2B																							X							
	ITPR3																														

X qPCR verification done
X genes mainly contributing to the deregulation of the pathway

pathway deregulation
gene upregulation
gene downregulation
(color intensity grows with the extent of the deregulation)

Locality*

OB Ostrava-Bartovice

OP Ostrava-Poruba

K Karvina

T Trebon