

<i>Gene</i>	<i>Primers</i>	<i>Sequences</i>	<i>Gene</i>	<i>Primers</i>	<i>Sequences</i>
<i>lgr5</i>	Forward	CGTAGGCAACCCCTTCTCTTATC	<i>cldn1</i>	Forward	GCTGTCAATTGGGGGCATAATA
	Reverse	GCACCATTCAAAGTCAGTGTTTC		Reverse	GGGGTCAAGGGGTCATAGAAT
<i>mki67</i>	Forward	GAGGAGAAACGCCAACCAAGAG	<i>cldn2</i>	Forward	GGGCTGTAGGCACATCCAT
	Reverse	TTTGTCTCTCGGTGGCGTTATCC		Reverse	GTCGCACACTCCATCCAGAG
<i>gadd45a</i>	Forward	TGCGAGAACGACATCAACAT	<i>cldn7</i>	Forward	AATGTACGACTCGGTGCTCG
	Reverse	TCCCGGCAAAAACAAATAAG		Reverse	GTGTGCACTTCATGCCCCATC
<i>mpg</i>	Forward	TGCATTTCTGGGACAGGTTCTT	<i>cldn15</i>	Forward	CGTGGGCAACATGGATCTCT
	Reverse	GAGTTCTGTTCCATCAGCGAGT		Reverse	CCACGAGATAGCCACCATCC
<i>ogg1</i>	Forward	TGAGCTGCGTCTGGACTTGGTT	<i>tjp1</i>	Forward	GCGCGGAGAGAGACAAGATG
	Reverse	CTCCGTCTGAGTCAGTGTCCAT		Reverse	CTGTGAAGCGTCACTGTGTG
<i>xpc</i>	Forward	GGTATTGTCGTGGAGAAGCAGTC	<i>tlr4</i>	Forward	AGCTTCTCCAATTTTTCAGAACTTC
	Reverse	CACGGTTAGAGAAGCCTTTCACC		Reverse	TGAGAGGTGGTGAAGCCATGC
<i>msh2</i>	Forward	GAACAAAGGCGAGTATGAAGAGG	<i>cd14</i>	Forward	TTGAACCTCCGCAACGTGTCGT
	Reverse	GCGTCTAAGTGAGCCAGCACAT		Reverse	CGCAGGAAAAGTTGAGCGAGTG
<i>xrcc6</i>	Forward	GCAGTCTACTCCTGCCTAGTGA	<i>gpx1</i>	Forward	CGCTCTTTACCTTCCTGCGGAA
	Reverse	ACCTGGCTCATCAAACCGCTTC		Reverse	AGTTCAGGCAATGTCGTTGCG
<i>rad51</i>	Forward	AGCAGTAGCTGAGAGATACGGT	<i>gpx2</i>	Forward	GAGGAACAACACTACCCGGGACTA
	Reverse	CCCTCGCGCATATGCTACATTA		Reverse	ACCCCAAGGTCGGACATACT
<i>vil1</i>	Forward	CTCAAGACTCCGTCCTGCTG	<i>sod1</i>	Forward	GGTGAACCAGTTGTGTTGTCAGG
	Reverse	CCACTTGTTTCTCCGTCCGA		Reverse	ATGAGGTCCTGCACTGGTACAG
<i>muc2</i>	Forward	CTACCATTACCACCACTAC	<i>sod2</i>	Forward	TAACGCGCAGATCATGCAGCTG
	Reverse	GTCTCTCGATCACCACCATT		Reverse	AGGCTGAAGAGCGACCTGAGTT
<i>chgA</i>	Forward	CAGGGACACTATGGAGAAGAGA	<i>ccl20</i>	Forward	GTGGGTTTACAAAGACAGATGGC
	Reverse	CTCTTGTTAGGCTCTGGAAG		Reverse	CCAGTTCTGCTTTGGATCAGCG
<i>alpi</i>	Forward	CCAGCAGTAACCTCACCTCATGG	<i>ccl5</i>	Forward	CCTGCTGCTTTGCTACCTCTC
	Reverse	GAAGCCTTGTGGATTCTCTGCTG		Reverse	ACACACTTGGCGGTTCCCTCGA
<i>krt20</i>	Forward	GGATTTCGAGGTTCAAGTCACGG	<i>il18</i>	Forward	GACAGCCTGTGTTTCGAGGATATG
	Reverse	TCTAGGTTGCGCTCCAGAGACT		Reverse	TGTTCTTACAGGAGAGGGTAGAC
<i>lyz</i>	Forward	GTGCCTGTCCTGATCTTTCT	<i>nfk1</i>	Forward	GCTGCCAAAGAAGGACACGACA
	Reverse	GATTGCTCCTGTGGTTATTGG		Reverse	GGCAGGCTATTGCTCATCACAG
<i>reg3g</i>	Forward	CGTGCCATATGGCTCCTATTGCT	<i>nfk2</i>	Forward	TGCTGATGGCACAGGACGAGAA
	Reverse	TTCAGCGCCACTGAGCACAGAC		Reverse	GTTGATGACGCCGAGGTACTGA
<i>reg3b</i>	Forward	ATGCTGCTCTCCTGCCTGATG	<i>rela</i>	Forward	TCCTGTTTCGAGTCTCCATGCAG
	Reverse	CTAATGCGTGCGGAGGGTATATTC		Reverse	GGTCTCATAGGTCCTTTTGCGC
<i>jama</i>	Forward	CGCGTCGGGATTGTAACCTGT	<i>bax</i>	Forward	AGGATGCGTCCACCAAGAAGCT
	Reverse	CACCGAACCCTTGCTTGTA		Reverse	TCCGTGTCCACGTCAGCAATCA
<i>s100a8</i>	Forward	TCAAGACATCGTTTGAAGGAAATC	<i>hes1</i>	Forward	TGAAGCACCTCCGGAACCT
	Reverse	GGTAGACATCAAAATGAGGTTGCTC		Reverse	CAACACGCTCGGGTCTGTG
<i>s100a9</i>	Forward	AAAGGCTGTGGGAAGTAATTAAGAG	<i>ato1</i>	Forward	AACTGTCCCTCCTGGATAGCA
	Reverse	GCCATTGAGTAAGCCATTCCC		Reverse	CCCTGCAAAGTGGGAGTCAG
<i>occl</i>	Forward	GTGAGCACCTTGGGATTCCG	<i>rpl19</i>	Forward	GAAGGTCAAAGGGAATGTGTTCA
	Reverse	TTCAAAAGGCCTCACGGACA		Reverse	CCTTGTCTGCCTTCAGCTTGT

Table S1. List of the primers used for the q-PCR.

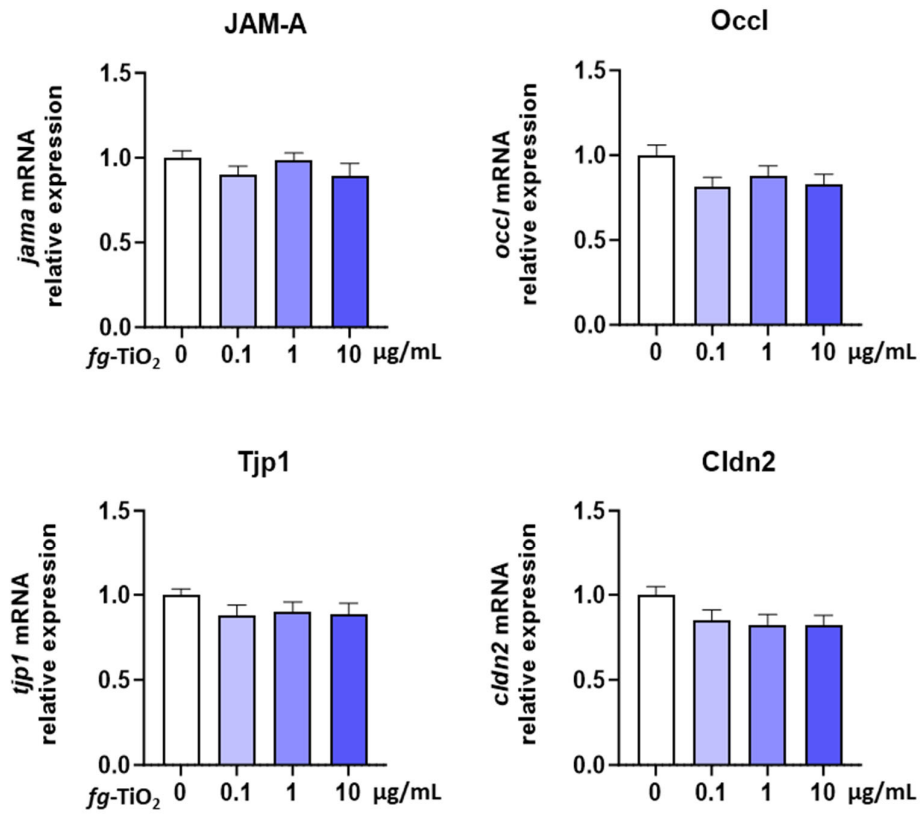


Figure S1. Relative expression of tight junction genes in EDMs exposed to *fg*-TiO₂. Relative expressions of *jama*, *occl*, *tjp1* and *cldn2* in EDMs exposed to *fg*-TiO₂ at 0.1, 1 and 10 µg/ml for 24h. Data are presented as the mean ± SEM of three independent experiments, each with 4 to 6 EDMs per group. Note that no significant difference was observed (one-way ANOVA followed by post hoc Dunnett's multiple comparison test).

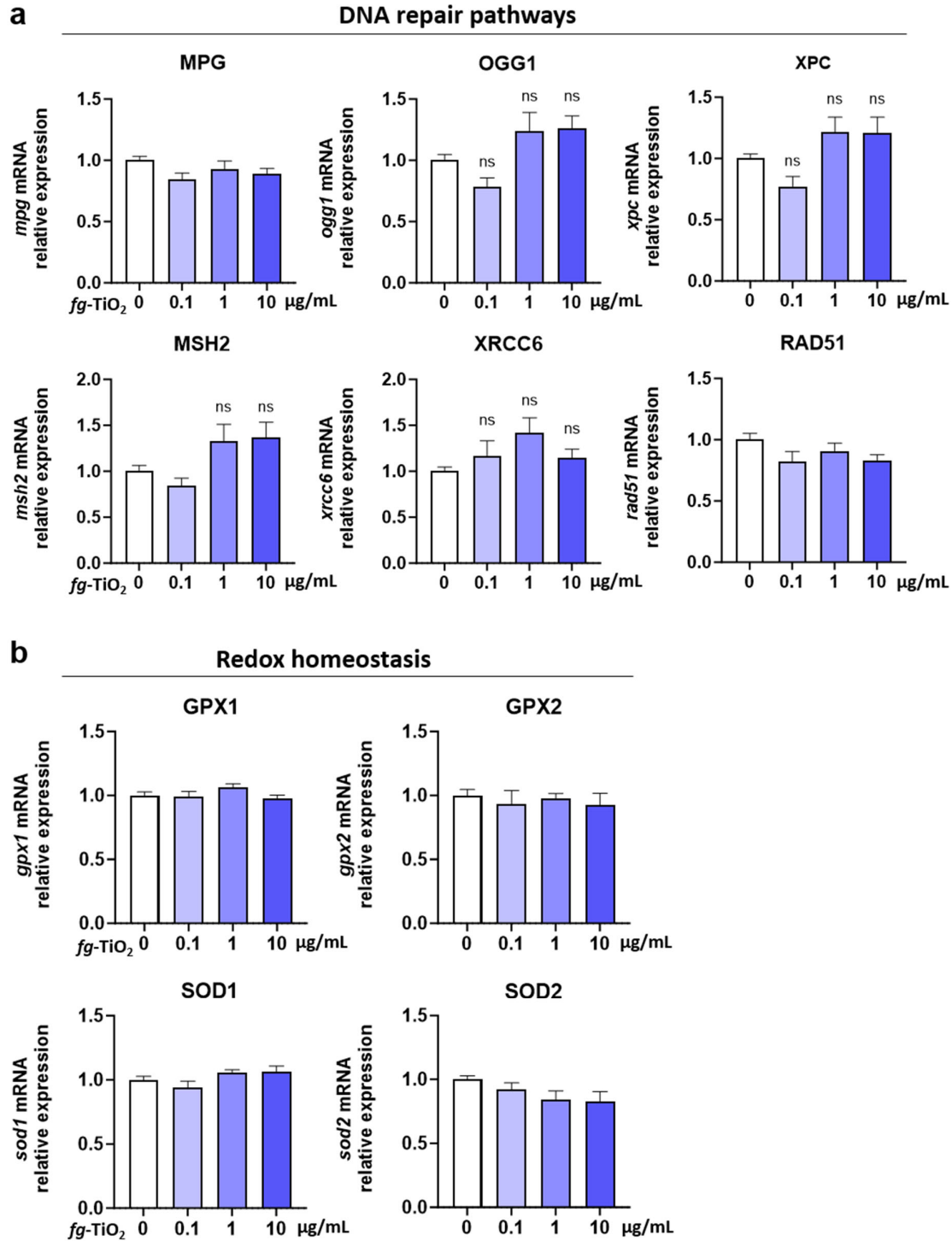


Figure S2. Relative expression of genes involved in DNA repair pathway and redox homeostasis in EDMs exposed to *fg*-TiO₂. Relative expressions of genes involved in DNA repair pathways (**a**) and in redox homeostasis (**b**) in EDMs exposed to *fg*-TiO₂ at 0.1, 1 and 10 µg/ml for 24h. Data are presented as the mean ± SEM of three independent experiments, each with 4 to 6 EDMs per group. Note that no significant difference was observed (nonparametric Kruskal wallis test followed by post hoc Dunn's multiple comparison test).

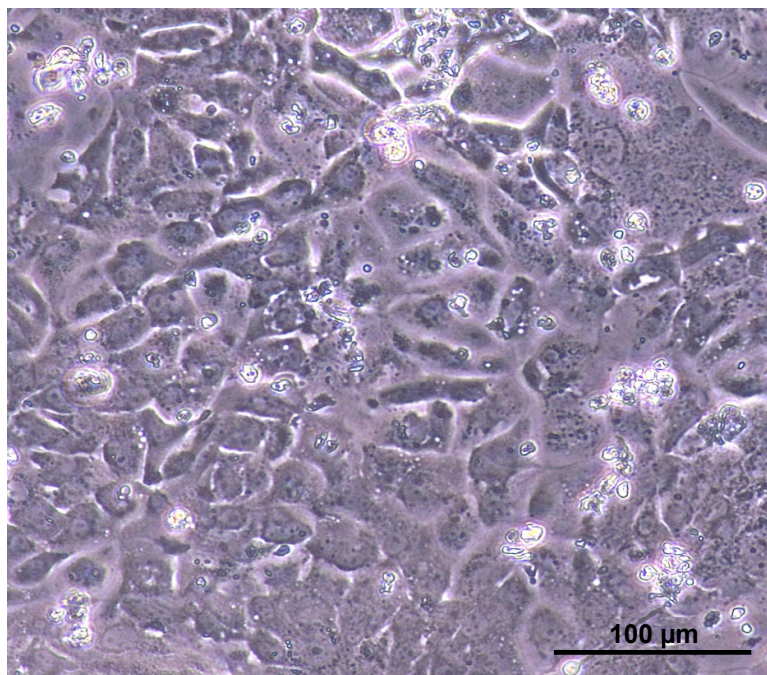


Figure S3. Representative bright-field image of EDM cultured for 5 days.