

SUPPLEMENTARY TABLES

Supplementary Table 1. Magnetic field exposure protocol.

	T1	T2	T3	T4	T5	T6	T7	T8
SMF (mT)	3	4	3	4	3	4	3	4
ELF-EMF (mT)	1.5	2.5	1.5	2.5	1	1.5	1	1.5

Extremely low frequency electromagnetic field (ELF-EMF) in 50 Hz are used in combination with static magnetic field (SMF). The field intensities vary periodically, and the time-averaged intensity is 5.1 mT. In a standard exposure protocol in vitro, one exposure is consisted of 4 consecutive sessions, each session composed of 8 rounds with the indicated intensities (T1-8). Each round lasts 3.5 min, making each session 30 min, and one exposure 2 h. Cells are subjected to exposure for 2 h per day for 3 consecutive days. As for in vivo study, the same 8 rounds of fields with varying intensities (T1-8) are exercised, but each round lasts 10 min, making each session a total of 80 min. Mice receive exposure 1 session per day for 15 consecutive days.

Supplementary Table 2. Sequences of primers used in qRT-PCR.

Gene	Primer	Sequence
<i>LIG4</i>	Forward	5'-TCTCGTTTAACTGCGGCTTGC-3'
	Reverse	5'-GGGATCTTGGCCTTCCACCC-3'
<i>RAD9B</i>	Forward	5'-GCCAGCTCAGCCATCATT-3'
	Reverse	5'-AACACAGAGGAAGTGCCAGG-3'
<i>BMI1</i>	Forward	5'-AAATCCCGAAAGAGCAGCC-3'
	Reverse	5'-CTGGTTGCCATTGACAGCG-3'
<i>β-ACTIN</i>	Forward	5'-GGACTTCGAGCAAGAGATGG-3'
	Reverse	5'-AGCACTGTGTTGGCGTACAG-3'