



Title	Diethyl phthalate enhances expression of SIRT1 and DNMT3a during apoptosis in PC12 cells
Author(s)	Sun, Yongkun; Guo, Zhikun; Iku, Shouhei et al.
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Figure legends

Figure 1. Agarose gel electrophoresis of DNA extracted from PC12 cells. **(A)** Cells cultured in serum-enriched medium for 3 days after treatment with 0 to 1,000 ng/ml DEP. **(B)** cells cultured in serum-free medium for 3 days after treatment with 0 to 1,000 ng/ml DEP.

Figure 2. mRNA expression of epigenetic factors by real-time RT-PCR for **(A)** DNMT1, **(B)** DNMT3a, **(C)** DNMT3b, **(D)** SIRT1, **(E)** SIRT2 and **(F)** p53 in PC12 cell cultured in the serum-enriched medium and serum-free medium without DEP. Each column shows mean $\pm$ SEM ($n \geq 3-4$). Asterisks denote significantly different values (*: $P < 0.05$, **: $P < 0.01$) from cells incubated with serum-free medium without DEP.

Figure 3. mRNA expression of epigenetic factors by real-time RT-PCR for **(A)** DNMT1 in PC12 cell cultured in the serum-enriched medium with 0 to 1,000 ng/ml DEP, **(B)** DNMT3a in PC12 cell cultured in the serum-enriched medium with 0 to 1,000 ng/ml DEP, **(C)** DNMT1 in PC12 cell cultured in the serum-free medium with 0 to 1,000 ng/ml DEP, **(D)** DNMT3a in PC12 cell cultured in the serum-free medium with 0 to 1,000 ng/ml DEP. Error bars indicate SEM ($n \geq 6$). Asterisk means $P < 0.05$ against control.

Figure 4. mRNA expression of epigenetic factors by real-time RT-PCR for **(A)** SIRT1 in PC12 cell cultured in the serum-enriched medium with 0 to 1,000 ng/ml DEP, **(B)** SIRT2 in PC12 cell cultured in the serum-enriched medium with 0 to 1,000 ng/ml DEP, **(C)** SIRT1 in PC12 cell cultured in the serum-free

medium with 0 to 1,000 ng/ml DEP, (D) SIRT2 in PC12 cell cultured in the serum-free medium with 0 to 1,000 ng/ml DEP. Error bars indicate SEM ($n \geq 6$). Asterisk means $P < 0.05$ against control.

Figure 5. mRNA expression of DNMT3b (A), and p53 (B) by real-time RT-PCR in PC12 cell cultured in the serum-free medium with 0 to 1,000 ng/ml DEP. Error bars indicate SEM ($n \geq 3$). Asterisk * and ** mean $P < 0.05$ and $P < 0.01$ against control, respectively.

Figure 6. Scheme of DNMT3a, DNMT3b, SIRT1 and serum-deprived apoptosis hypothetical relationships in PC12 cells with DEP treatment.