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# Supplemental Material

# *In Vitro* Effects of the Endocrine Disruptor p,p'DDT on Human Follitropin Receptor

Mathilde Munier, Julie Grouleff , Louis Gourdin, Mathilde Fauchard, Vanessa Chantreau, Daniel Henrion, Régis Coutant, Birgit Schiøtt, Marie Chabbert, and Patrice Rodien

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**Figure S4.** Dose response curve of forskolin (FSK) on CHO or CHO-FSHR cells (means ± SEM of four independent experiments performed in triplicate). The cAMP concentration measured in presence of forskolin on CHO is arbitrarily set at 100%.

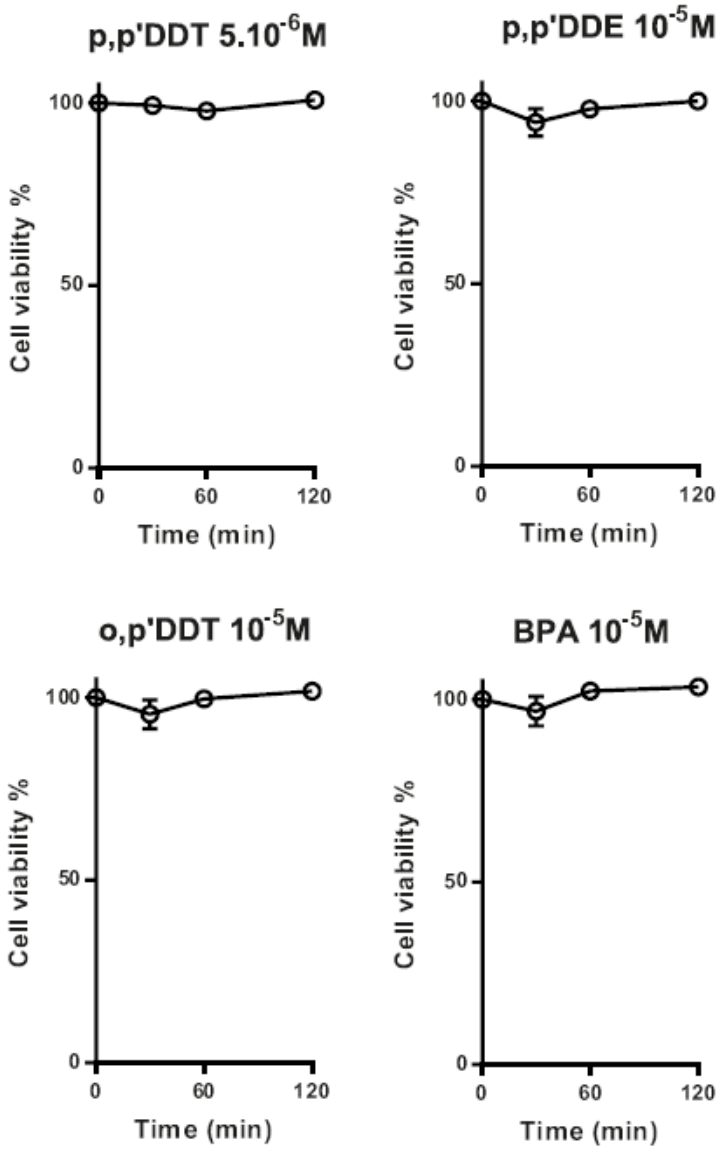
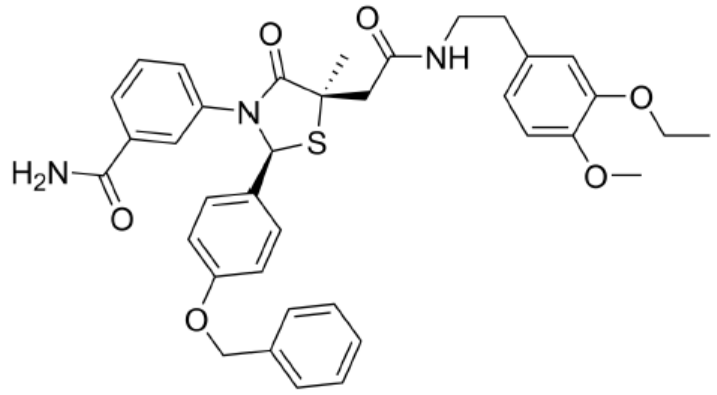
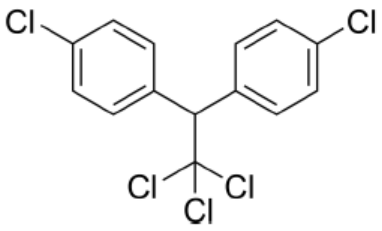



Figure S1

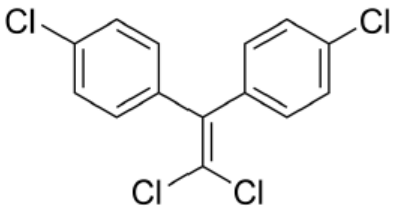
Cell survival was measured by an MTT assay. Cells were incubated with p,p'DDT $5.10^{-6}$M or p,p'DDE $10^{-5}$M or o,p'DDT $10^{-5}$M or BPA $10^{-5}$M for 30, 60 or 120 min. At the end of the incubation time, MTT (0,5 mg/mL) was added. The formazan coloration at 570 nm was measured. The results are expressed as percentage of viability compared to cells in absence of p,p'DDE or o,p'DDT (means ± SEM of three independent experiments performed in triplicate).



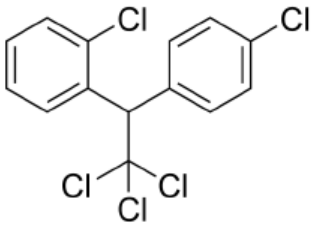

16a



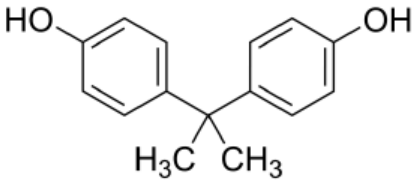

p,p'DDT




p,p'DDE




o,p'DDT




BPA

Figure S2

Structure of molecules

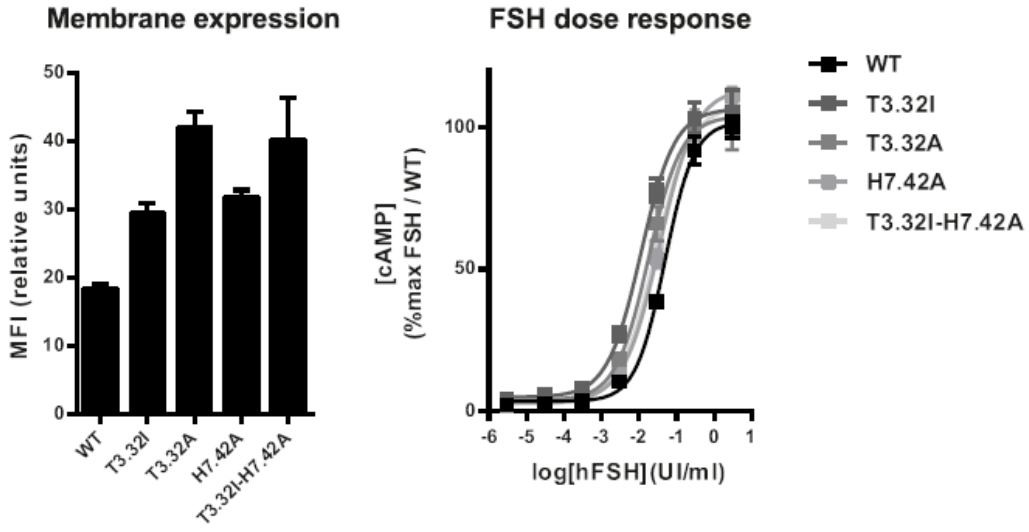
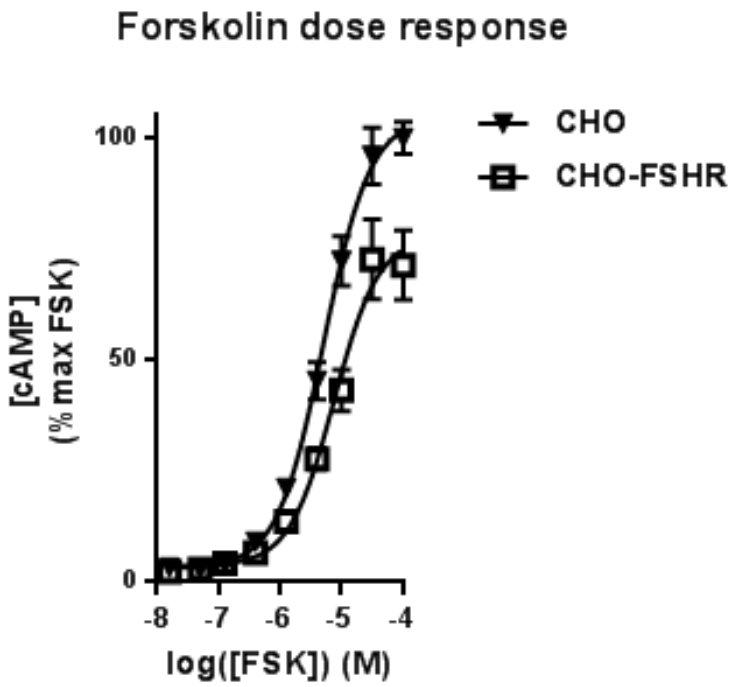



Figure S3

The mutants FSHR T3.32A, T3.32I, H7.42A, T3.32I-H7.42A and the WT transiently expressed in CHO cells. The cell surface expression was determined by flow cytometry. Cells were incubated for 30 min with a 1:10 mouse anti-FSHR antibody. Then they were washed once and incubated for 30 min with a 1:20 FITC-conjugated goat anti-mouse antibody. Flow cytometry measurements were performed on MACSQuant from Miltenyi Biotech (Bergish Gladbach, Deutschland). Expression of mutated receptors is given as a mean of fluorescence intensity (MFI). Cells were stimulated for 30 min with increasing FSH concentrations and the cAMP production measured.

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Dose response curve of forskolin (FSK) on CHO or CHO-FSHR cells (means ± SEM of four independent experiments performed in triplicate). The cAMP concentration measured in presence of forskolin on CHO is arbitrarily set at 100%.