

CORRECTION

Correction: Phosphatidylcholine Specific PLC-Induced Dysregulation of Gap Junctions, a Robust Cellular Response to Environmental Toxicants, and Prevention by Resveratrol in a Rat Liver Cell Model

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Figs <u>2</u>, <u>3</u>, <u>4</u>, and <u>5</u> are each missing an internal color legend. The authors have provided a corrected version of each figure here.



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Fig 2. Dysregulation of GJIC through PC-PLC. The following compounds inhibited GJIC through PC-PLC: (a) Through the following PAHs: Flu (100 μ M, 10 min), 1-MeFlu (70 μ M, 10 min), Phe (70 μ M, 10 min), 1-MeA (70 μ M, 10 min), 9,10-DiMeA (100 μ M, 10 min), Fla (70 μ M, 10 min), Pyr (70 μ M, 10 min) and 1-MePyr (70 μ M, 10 min); (b) Other toxicants: PFDA (50 μ M, 20 min), DiCuOOH (50 μ M, 15 min), PCB 153 (50 μ M, 30 min), and DDT (30 μ M, 20 min). The cells were treated with inhibitors of PC-PLC (D609, 50 μ M, 20 min) or MEK1/2 (U0126, 20 μ M, 30 min), or resveratrol (100 μ M, 15 min) before addition of GJIC-dysregulator. At least three independent experiments were averaged ± SD. An ANOVA was conducted for each GJIC-dysregulator followed by a Dunnett's post-hoc test to determine significance (at P<0.05 as indicated by an *) from cells treated with only the GJIC-dysregulator. The F-values for Flu, 1-MeFlu, Phe, 1-MeA, 9,10-DiMeA, Fla, Pyr and 1-MeP were 71.8 (P<0.001), 75.6 (P<0.001), 57.7 (P<0.001), 737.3 (P<0.001), 74.2 (P<0.001), 58.4 (P<0.001), 67.4 (P<0.001) and 50.5 (P<0.001), respectively. The F-values for PFDA, DiCuOOH, PCB 153, and DDT were 13.1 (P = 0.002), 51.2 (P<0.001), 38.3 (P<0.001) and 87.5 (P<0.001), respectively.

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Fig 4. Dysregulation of GJIC through both MEK1/2 and PC-PLC. The following compounds inhibited GJIC through both MEK1/2 and PC-PLC: PFOA (80 μ M, 10 min), NAC+BzOOH (cells were treated with 1 mM NAC for 15 min prior the addition of 200 μ M BzOOH for 15 min), and R59022 (30–50 μ M, 10 min). The cells were treated with inhibitors of PC-PLC (D609, 50 μ M, 20 min) or MEK1/2 (U0126, 20 μ M, 30 min), or resveratrol (100 μ M, 15 min) before addition of GJIC-dysregulator. At least three independent experiments were averaged ± SD. An ANOVA was conducted for each GJIC-dysregulator followed by a Dunnett's posthoc test to determine significance (at P<0.05 as indicated by an *) from cells treated with only the GJIC-dysregulator. The F-values for PFOA and R59022 were 27.0 (P<0.001), 28.2 (P<0.001) and 20.9 (P<0.001), respectively.

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Reference

 Sovadinova I, Babica P, Böke H, Kumar E, Wilke A, Park J-S, et al. (2015) Phosphatidylcholine Specific PLC-Induced Dysregulation of Gap Junctions, a Robust Cellular Response to Environmental Toxicants, and Prevention by Resveratrol in a Rat Liver Cell Model. PLoS ONE 10(5): e0124454. doi:10. 1371/journal.pone.0124454 PMID: 26023933