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 Scope: Format: Amount: GEO accession:
Series GSE110906

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Status Public on Feb 21, 2018
Title Genotoxicity of nitrosamines
Organism [Gallus gallus](#)
Experiment type Expression profiling by array
Summary We profiled the gene expression in eight chicken embryo livers in the 11th day of incubation. The eggs were injected on postincubation days 9, 10 and 11 with 4mg activation-dependent DNA reactive diethylnitrosamine (DEN) or its structural non-carcinogenic comparator, N-nitrosodiethanolamine (NDELA)DEN in 0.15 ml/egg deionized water. We found that both compounds induced simmlar massive transcriptomic alterations in the xenobiotic metabolism pathways when comparing with reference data in eggs injected with the vehicle only (deionized water).

Overall design Differently labelled biological replicas were co-hybridized with the same microarray. Expression of genes in similarly labeled samples of the two conditions were compared and the results averaged.

Contributor(s) [Kobets T](#), [Iatropoulos MJ](#), [Duan J](#), [Brunnemann K](#), [Iacobas DA](#), [Iacobas S](#), [Vock E](#), [Deschl U](#), [Williams GM](#)

Citation(s) Kobets T, Iatropoulos MJ, Duan JD, Brunnemann KD et al. Expression of Genes Encoding for Xenobiotic Metabolism after Exposure to Dialkylnitrosamines in the Chicken Egg Genotoxicity Alternative Model. *Toxicol Sci* 2018 Aug 9. PMID: [30102407](#)

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Platforms (1) [GPL13790](#) Agilent-026441 Gallus gallus (Chicken) Oligo Microarray v2 (Feature Number version)

Samples (8) [GSM3018542](#) DEN1
[More...](#) [GSM3018543](#) DEN2