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Dose-dependent transcriptomic responses of zebrafish eleutheroembryos to Bisphenol A

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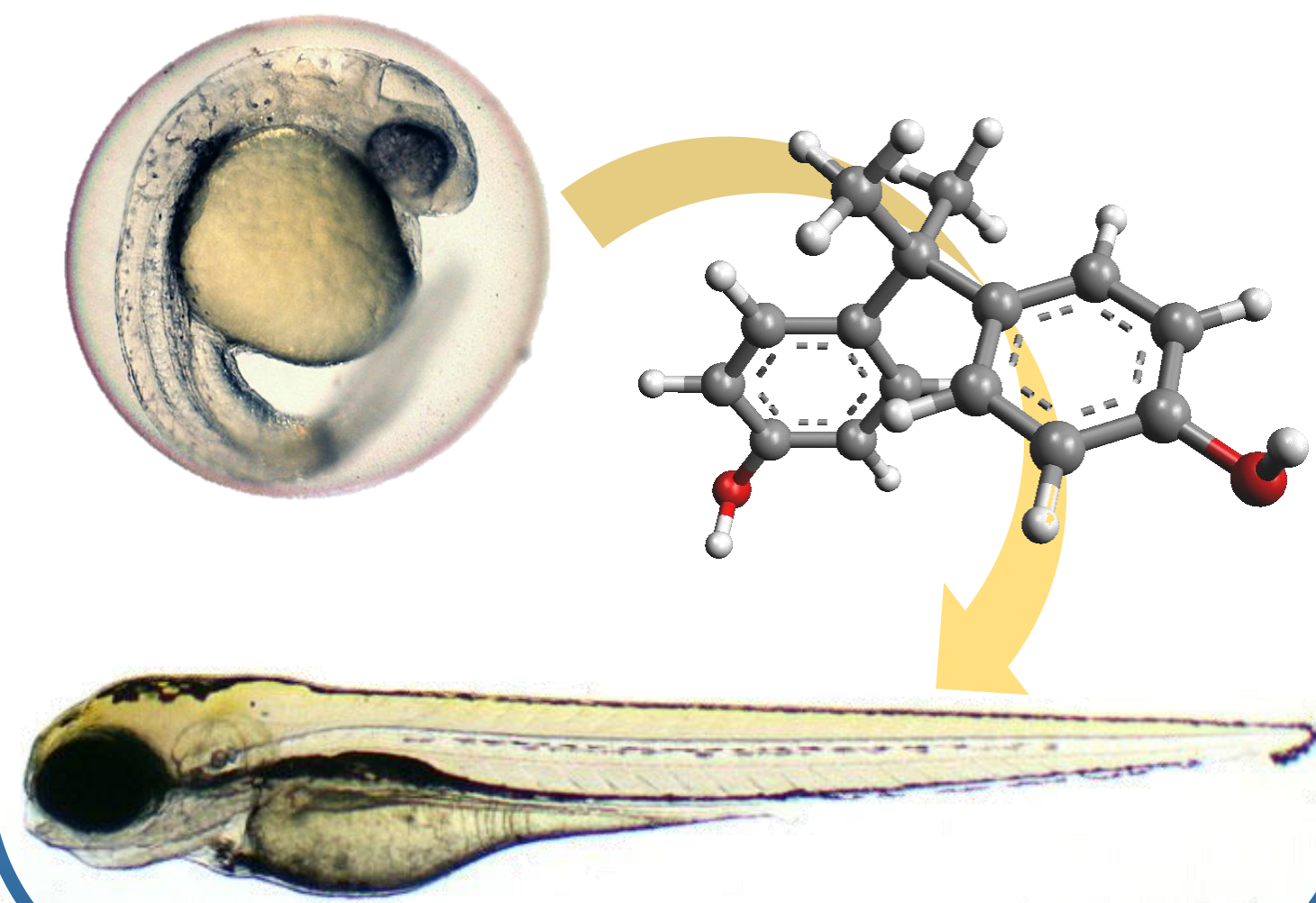
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Bisphenol A exposure

- Zebrafish embryos
- 2-5 dpf
- [BPA]: 0, 0.1, 1 and 4 mg·L⁻¹



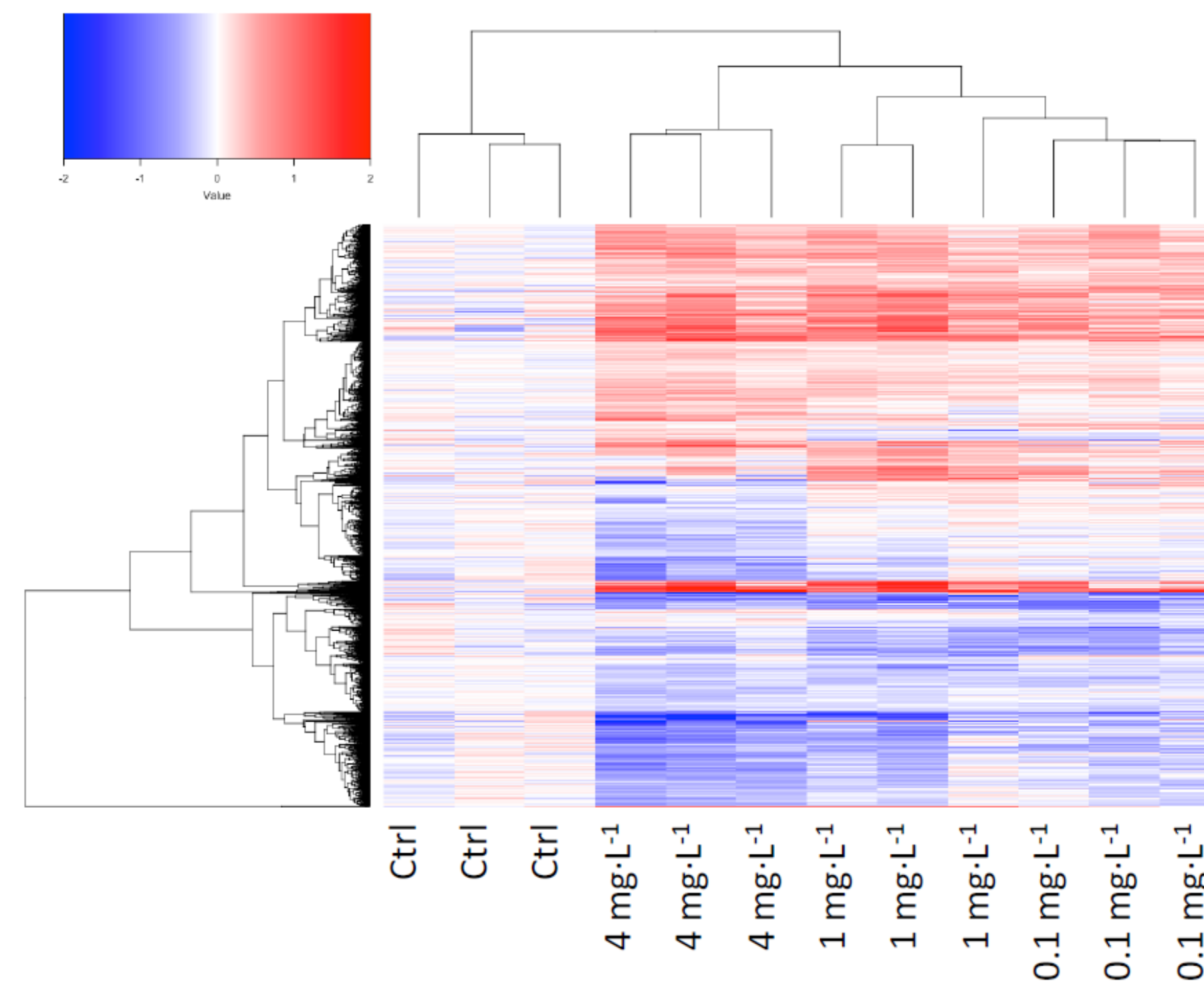
High-Throughput Sequencing (RNA-Seq)

- HiSeq2000 (Illumina)



Transcriptomics

- Data analysis



Biological relevance

- Estrogenic- and retinoic-likewise effects
 - Lipid and visual perception pathways affected
-
- A complex network diagram of biological pathways. Nodes are represented by colored circles (red, blue, yellow) and are interconnected by lines. Several clusters are highlighted with colored ovals and labeled: 'Neurological and Visual Functions' (orange), 'Protein Ubiquitination' (blue), 'Autophagy' (black), 'Retinol metabolism' (green), 'Lipids & Sterols' (red), 'Carbon metabolism/ Glycolysis' (blue), and 'Glutathion/ Xenobiotic response' (red). Various GO terms and gene IDs are scattered throughout the network.

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