Background pattern

Description automatically generated with medium confidence

**Supplementary fig. 1**. Apoptosis detection in brain tissue of juvenile C. gariepinus exposed to 0.1, 0.2, and 0.3 mg/L 4-NP for 15 days. Cells fluorescing light green after acridine orange staining were considered apoptotic. Red circles indicate apoptotic cells, whereas yellow circles indicate non-apoptotic cells. (Scale bar = 50 μm).

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**Supplementary fig. 2**. Apoptosis detection in brain tissue of juvenile C. gariepinus exposed to 0.1, 0.2, and 0.3 mg/L 4-NP after a recovery period of 15 days. Cells fluorescing light green after acridine orange staining were considered apoptotic. Red circles indicate apoptotic cells, whereas yellow circles indicate non-apoptotic cells. (Scale bar = 50 μm).