

Investigating Specific Mechanisms of Toxicity Using Zebrafish Developmental **Assays and In Vitro High-Throughput Transcriptomics Analysis** B.R. Knapp¹, R.S. Judson², L.W. Taylor², N.C. Baker³, B.A. Chambers², S. Padilla⁴



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619	246
301	231
108	8
34	8

Conclusions

- Our approach for identifying specific mechanisms of chemical toxicity is supported using statins, a class of known developmental toxicants.
- Testable hypotheses can be generated using this method regarding specific pathways leading to developmental defects.
- *In vitro* and literature mining data may help explain the results from zebrafish developmental toxicity assays.
- Results are potentially relevant to human developmental toxicity.

Further Research

Extend this methodology to find the specific mechanisms of other chemicals with selective toxicity.

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Cerivastatin sodium

