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Open **2-3 July 2026** Symposium

Maastricht
The Netherlands

Enhancing mechanism-based neurotoxicity evaluations with
in vitro LUHMES cells and gene network analysis

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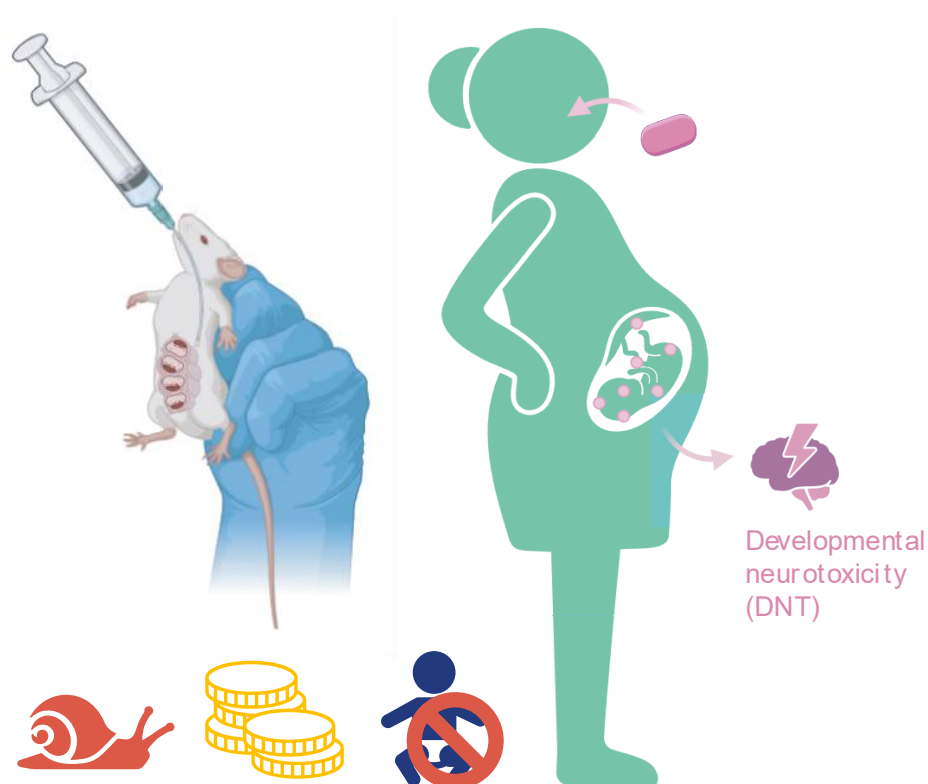
RISK-HUNT3R

aspis-cluster.eu

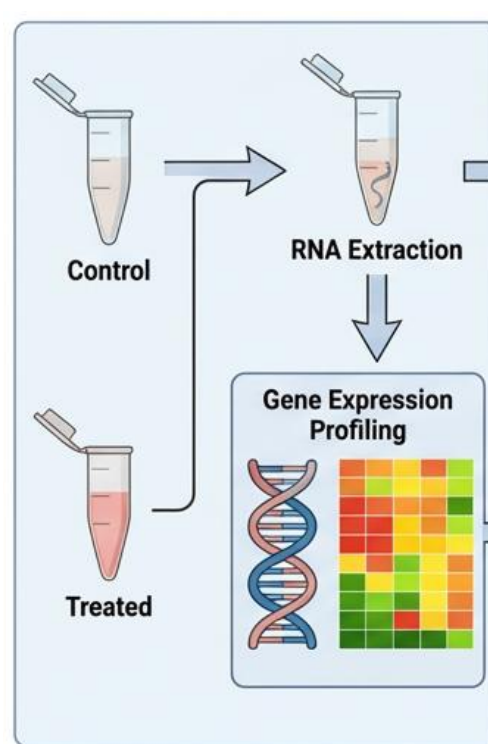


What can toxicogenomics offer DNT testing?

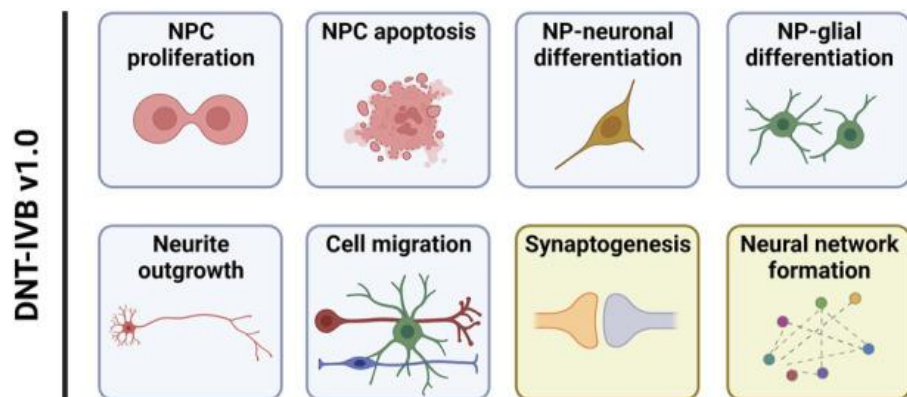
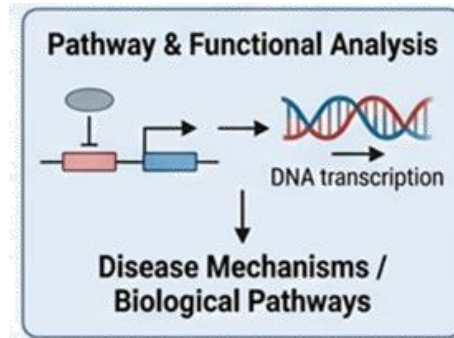
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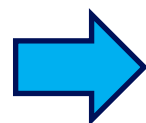
Developmental neurotoxicity (DNT)



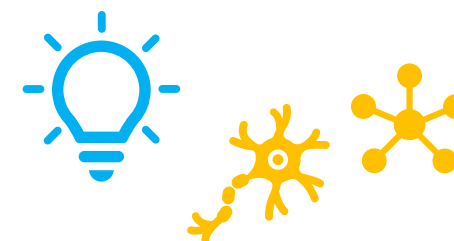
How can we turn **high dimensional data** into something a toxicologist can **understand, compare, and rely on?**



- DNT evaluation requires specialised gene sets



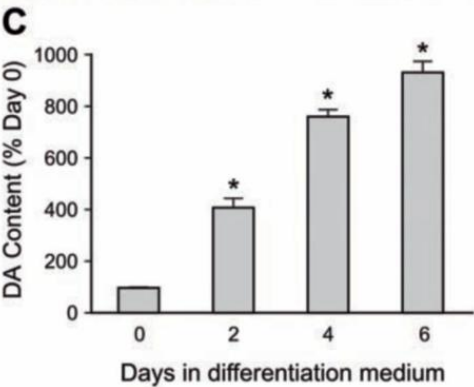
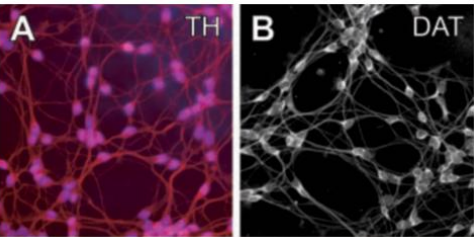
First neuronal TXG-MAPr



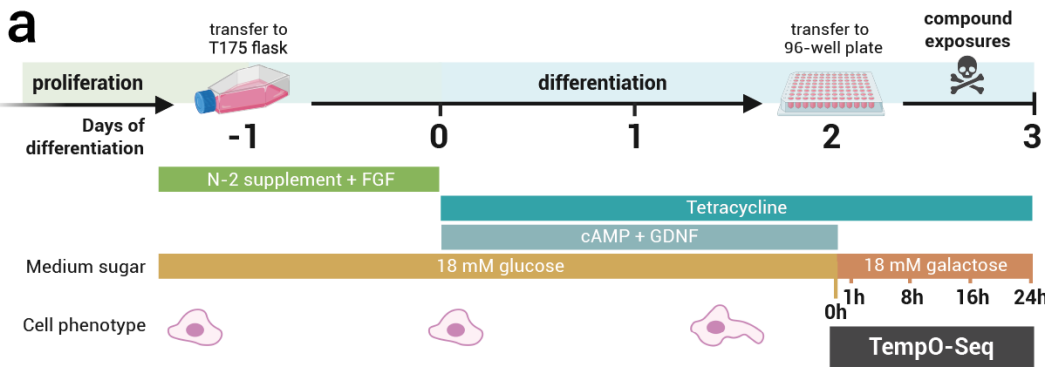
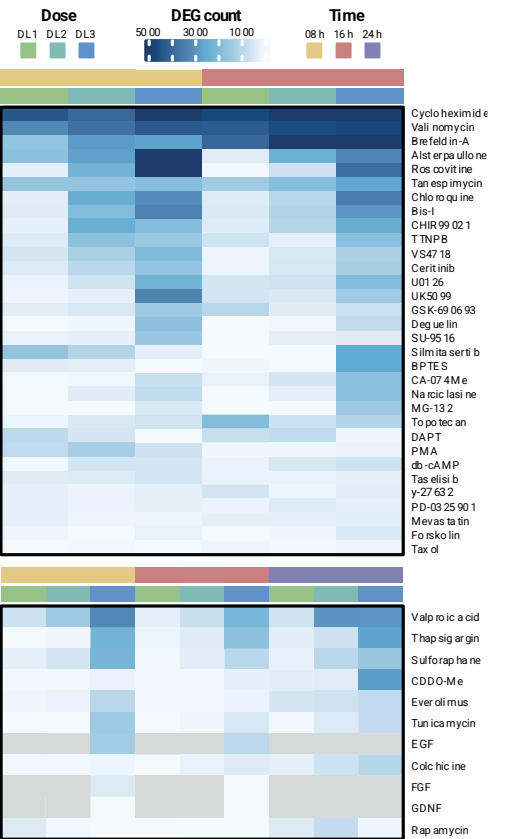
Tal et al. (2024) Front Toxicol.



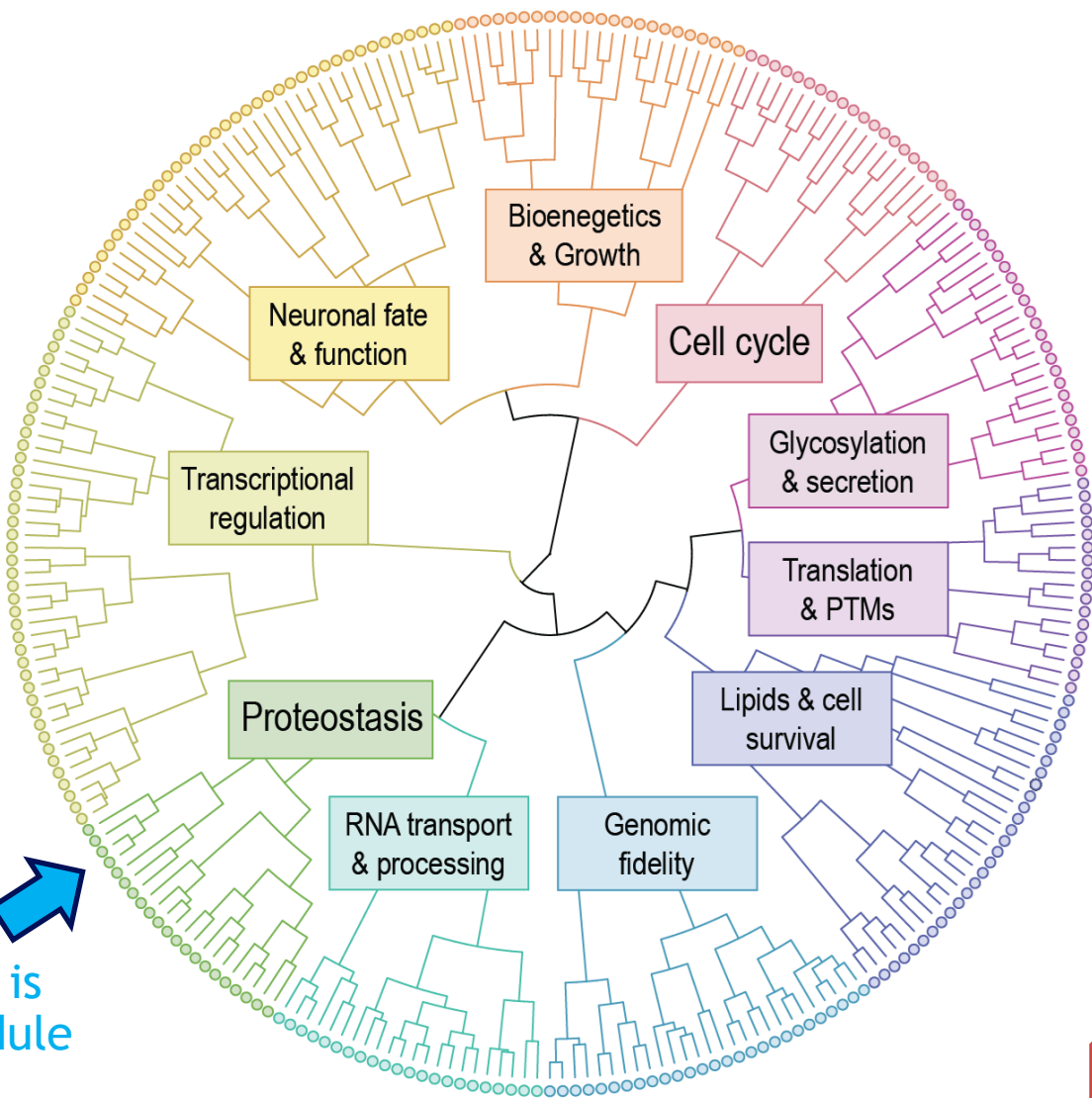
LUHMES:



Lotharius *et al.* (2002) JBC.



The LUHMES d2-3 TXG-MAPr



Each circle is a module



Supported
reproducibility and
mechanistic
relevance

Thank you for listening!



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