APPENDIX D

List of DNT IATA And Publications That Used Data from DNT IVB Assays

Table D.1 – List of DNT IATA case studies that have used data from the DNT IVB and their current status.

Title and lead	Chemicals or Chemical Class	Current Status	Reference
EFSA: Case study for the integration of in vitro data in the developmental neurotoxicity hazard identification and characterisation using deltamethrin as a prototype chemical	Deltamethrin	• Expected to be published in the OECD Series on Testing and Assessment in October 2022 • Reviewed and revised under the OECD IATA Case studies project • Pending review and approval at WPHA level • Initial draft published in EFSA Journal	-Available on the password protected community website -EFSA PPR Panel (EFSA Panel on Plant Protection Products and their Residues), Hernández-Jerez A, Adriaanse P, Aldrich A, Berny P, Coja T, Duquesne S, Focks A, Marinovich M, Millet M, Pelkonen O, Pieper S, Tiktak A, Topping C, Widenfalk A, Wilks M, Wolterink G, Crofton K, Hougaard S, Paparella M, Tzoulaki I, 2021. Scientific Opinion on Development of Integrated Approaches to Testing and Assessment (IATA) case studies on developmental neurotoxicity (DNT) risk assessment. EFSA Journal 2021;19(5):6599, 67 pp. doi:10.2903/j.efsa.2021.6599
EFSA: Case study for the integration of in vitro data in the developmental neurotoxicity hazard identification and characterisation using flufenacet	Flufenacet	• Expected to be published in the OECD Series on Testing and Assessment in October 2022 • Reviewed and revised under the OECD IATA Case studies project • Pending review and approval at WPHA level	-Available on the password protected community website -EFSA PPR Panel (EFSA Panel on Plant Protection Products and their Residues), Hernández-Jerez A, Adriaanse P, Aldrich A, Berny P, Coja T, Duquesne S, Focks A, Marinovich M, Millet M, Pelkonen O, Pieper S, Tiktak A, Topping C, Widenfalk A, Wilks M, Wolterink G, Crofton K, Hougaard S, Paparella M, Tzoulaki I, 2021. Scientific Opinion on Development of Integrated Approaches to Testing and Assessment (IATA) case studies on developmental neurotoxicity

Title and lead	Chemicals or Chemical Class	Current Status	Reference
		• Initial draft published in EFSA Journal	(DNT) risk assessment. EFSA Journal 2021;19(5):6599, 67 pp. doi:10.2903/j.efsa.2021.6599
ICAPO: Organophosporus flame retardants, a case study on the use of IATA for DNT to prioritize a class of compounds	Brominated flame retardants	• Expected to be published in the OECD Series on Testing and Assessment in October 2022 • Reviewed and revised under the OECD IATA Case studies project • Pending review and approval at WPHA level	-Available on the password protected community website
EuToxRisk: Case Study on the use of Integrated Approaches for Testing and Assessment for developmental neurotoxicity hazard characterisation of acetamiprid	Neonicotinoids	• Expected to be published in the OECD Series on Testing and Assessment in October 2022 • Reviewed and revised under the OECD IATA Case studies project • Pending review and approval at WPHA level	-Available on the password protected community website

Title and lead	Chemicals or Chemical Class	Current Status	Reference
EuToxRisk: Case Study on the use of Integrated Approaches for Testing and Assessment for developmental neurotoxicity hazard characterisation of imidacloprid and the metabolite desnitro-imidacloprid	Neonicotinoids	• Expected to be published in the OECD Series on Testing and Assessment in October 2022 • Reviewed and revised under the OECD IATA Case studies project • Pending review and approval at WPHA level	-Available on the password protected community website
US EPA: Case study in use of DNT IVB data in WoE for glufosinate herbicides	Organophosphorus	• Published	Dobreniecki S, Mendez E, Lowit A, Freudenrich TM, Wallace K, Carpenter A, Wetmore BA, Kreutz A, Korol-Bexell E, Friedman KP, Shafer TJ. Integration of toxicodynamic and toxicokinetic new approach methods into a weight-of-evidence analysis for pesticide developmental neurotoxicity assessment: A case-study with DL- and L-glufosinate. Regul Toxicol Pharmacol. 2022 Apr 9;131:105167. doi: 10.1016/j.yrtph.2022.105167. Epub ahead of print. PMID: 35413399.