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Gene networks-based mechanistic assessment of drug-induced organ toxicity: a focus on liver and kidney

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List of Publications

Wijaya L.S., Rau C., Braun T.S., Marangoz S., Spegg V., Vlasveld M., Albrecht W., Brecklinghaus T., Kamp H., Beltman J.B., Hengstler J.G., Water B. van de, Leist M. & Schildknecht S. (2021), Stimulation of de novo glutathione synthesis by nitrofurantoin for enhanced resilience of hepatocytes, *Cell Biology and Toxicology*.

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Lukas S. Wijaya, Attila Gabor, Iris E. Pot, Luca van de Have, Julio Saez-Rodriguez, Sylvia E. Le Dévédec, Giulia Callegaro, Bob van de Water, A Network-based Transcriptomic Landscape of HepG2 cells to Uncover Causal Gene Cytotoxicity Interactions Underlying Drug-Induced Liver Injury, manuscript in preparation

Lukas S. Wijaya, Steven J. Kunnen, Panuwat Trairatphisan, Ciaran Fisher, Meredith E. Crosby, Kai Schaefer, Karen Bodie, Erin E. Vaughan, Laura Breidenbach, Thomas Reich, Diana Clausznitzer, Sylvestre A. Bonnet, Sipeng Zheng, Chantal Pont, James L. Stevens, Sylvia Le Dévédec, Bob van de Water, Spatial-temporal transcriptomics in rat kidney after cisplatin treatment unravel sustained activity of DNA damage response and distinct regeneration programs in the perimedullary proximal tubules associated with elevation of renal urinary clusterin, manuscript in preparation

Steven J. Kunnen, Lukas S. Wijaya, Jeffrey J. Sutherland, Giulia Callegaro, Panuwat Trairatphisan, Jennifer Mollon, Git Chung, Keith Pye, Siannah Shuttleworth, Claire Devlin, Claire Teague, Ciaran Fisher, Solène Grosdidier, Yue W. Webster, James L. Stevens, Bob van de Water, Kidney TXG-MAPr: gene co-expression modules to support drug safety assessment, manuscript in preparation

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About the Author

Lukas Surya Wijaya was born on 19th October 1992 in Sleman, Indonesia. In 2014 *they graduated from Sanata Dharma University obtaining the bachelor degree of pharmacy. From the same university, they finished the apothecary degree in 2015. They moved to the Netherland in 2015 pursuing their master degree in toxicology under the supervision of Dr. Jan Commandeur studying the metabolic activity of glutathione S-transferase. After obtaining their master diploma in 2017, they started as a PhD student in Leiden Academic Centre for Drug Research (LACDR) under the supervision of prof. Dr. Bob van de Water and Dr. Sylvia le Dévédec. During the PhD study, they investigated the dynamics of cellular responses linked to the mechanisms of drug-induced liver and kidney injury. Currently, they are employed as a post-doctoral researcher in the lab of prof. Dr. Bob van de Water to establish an integrative platform of quantitative adverse outcome pathways for drug safety assessment.

* They : 3d — used to refer to a single person whose gender identity is nonbinary (see NONBINARY sense c) – (<https://www.merriam-webster.com/dictionary/they>)