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## Publications

1. F. Hussain, S. Basu, J. J. H. Heng, L.-H. Loo and D. Zink, "Predicting Direct Hepatocyte Toxicity in Humans by Combining High-Throughput Imaging of HepaRG Cells and Machine Learning-Based Phenotypic Profiling," *Archives of Toxicology*, (2020) DOI: 10.1007/s00204-020-02778-3. Impact Factor (IF) 5.741
2. D. Zink, J. K. C. Chuah and J. Y. Ying, "Assessing Toxicity with Human Cell-Based *In Vitro* Methods," *Trends in Molecular Medicine*, 26[6] (2020) 570-582. IF 11.028
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4. L. T. M. van der Ven, E. Rorije, R. C. Sprong, D. Zink, R. Derr, G. Hendriks, L.-H. Loo and M. Luijten, "A Case Study with Triazole Fungicides to Explore Practical Application of Next-Generation Hazard Assessment Methods for Human Health," *Chemical Research in Toxicology*, 33[3] (2020) 834-848. IF 3.274
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11. K. Kandasamy, J. K. C. Chuah, R. Su, P. Huang, K. G. Eng, S. Xiong, Y. Li, C. S. Chia, L.-H. Loo, and D. Zink, "Prediction of Drug-Induced Nephrotoxicity and Injury Mechanisms with Human Induced Pluripotent Stem Cell-Derived Cells and Machine Learning Methods," Scientific Reports, 5:12337 (2015) DOI: 10.1038/srep12337
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## Patents

1. D. Zink, J. Y. Ying, "Differentiation of Human Induced Pluripotent Stem Cells into Renal Cells," Singapore Patent Granted in May 2019, US Patent Granted in July 2019, Japanese Patent Granted in September 2019
2. D. Zink, S. Xiong, "Use of NF- $\kappa$ B Translocation for the Prediction of Organ-Specific Toxicity," Chinese and Japanese Patents Granted in July 2019
3. D. Zink, M. Ni, K. Narayanan, A. C. A. Wan, J. Y. Ying, "Synthetic Surface Modifications Based on 3,4-Dihydroxy-L-phenylalanine for Large Scale Growth of Human Stem Cells," Singapore Patent Granted in June 2016, US Patent Granted in May 2019
4. D. Zink, Y. Li, "*In Vitro* Assays for the Prediction of Nephrotoxicity in Humans," (2 Inventions) US Patent Granted in February 2017, Chinese Patent Granted in April 2017 and July 2017, Singapore Patent Granted in May and September 2017, United Kingdom, Germany, Switzerland, France, Netherlands, Italy Patents Granted in June 2017, United Kingdom, Germany, Switzerland Patents Granted in August 2018
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6. J. Y. Ying, D. Zink, M. Ni, "Double Coating Procedure For The Membranes Of Bioartificial Kidneys," US Patent Granted in September 2016