Jochem Louisse

List of Publications by Year
in descending order

63 papers	2,302 citations	201674 27 h-index	223800 46 g-index
66 all docs	66 docs citations	66 times ranked	2782 citing authors

#	ARTICLE	IF	CITATIONS
1	The potential health effects of dietary phytoestrogens. British Journal of Pharmacology, 2017, 174, 1263-1280.	5.4	353
2	The Use of In Vitro Toxicity Data and Physiologically Based Kinetic Modeling to Predict Dose-Response Curves for In Vivo Developmental Toxicity of Glycol Ethers in Rat and Man. Toxicological Sciences, 2010, 118, 470-484.	3.1	110
3	Mechanisms underlying the dualistic mode of action of major soy isoflavones in relation to cell proliferation and cancer risks. Molecular Nutrition and Food Research, 2013, 57, 100-113.	3.3	108
4	Putative adverse outcome pathways relevant to neurotoxicity. Critical Reviews in Toxicology, 2015, 45, 83-91.	3.9	92
5	Next generation physiologically based kinetic (NG-PBK) models in support of regulatory decision making. Computational Toxicology, 2019, 9, 61-72.	3.3	91
6	Identification of genomic biomarkers for anthracycline-induced cardiotoxicity in human iPSC-derived cardiomyocytes: an in vitro repeated exposure toxicity approach for safety assessment. Archives of Toxicology, 2016, 90, 2763-2777.	4.2	87
7	Use of Physiologically Based Kinetic Modeling-Based Reverse Dosimetry to Predict in Vivo Toxicity from in Vitro Data. Chemical Research in Toxicology, 2017, 30, 114-125.	3.3	82
8	Systemic PFOS and PFOA exposure and disturbed lipid homeostasis in humans: what do we know and what not?. Critical Reviews in Toxicology, 2021, 51, 141-164.	3.9	78
9	Estrogenic Potency of Food-Packaging-Associated Plasticizers and Antioxidants As Detected in ERÎ± and ERÎ² Reporter Gene Cell Lines. Journal of Agricultural and Food Chemistry, 2006, 54, 4407-4416.	5.2	74
10	Assessment of an in vitro transport model using BeWo b30 cells to predict placental transfer of compounds. Archives of Toxicology, 2013, 87, 1661-1669.	4.2	68
11	Relative Developmental Toxicity of Glycol Ether Alkoxy Acid Metabolites in the Embryonic Stem Cell Test as compared with the In Vivo Potency of their Parent Compounds. Toxicological Sciences, 2009, 110, 117-124.	3.1	67
12	Prediction of in vivo developmental toxicity of all-trans-retinoic acid based on in vitro toxicity data and in silico physiologically based kinetic modeling. Archives of Toxicology, 2015, 89, 1135-1148.	4.2	56
13	Perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), and perfluorononanoic acid (PFNA) increase triglyceride levels and decrease cholesterogenic gene expression in human HepaRG liver cells. Archives of Toxicology, 2020, 94, 3137-3155.	4.2	55
14	Risk assessment for pyrrolizidine alkaloids detected in (herbal) teas and plant food supplements. Regulatory Toxicology and Pharmacology, 2017, 86, 292-302.	2.7	52
15	Identification of nevadensin as an important herb-based constituent inhibiting estragole bioactivation and physiology-based biokinetic modeling of its possible in vivo effect. Toxicology and Applied Pharmacology, 2010, 245, 179-190.	2.8	51
16	Tutorial on physiologically based kinetic modeling in molecular nutrition and food research. Molecular Nutrition and Food Research, 2011, 55, 941-956.	3.3	50
17	Determination of genotoxic potencies of pyrrolizidine alkaloids in HepaRG cells using the Î³H2AX assay. Food and Chemical Toxicology, 2019, 131, 110532.	3.6	49
18	Translocation of positively and negatively charged polystyrene nanoparticles in an in vitro placental model. Toxicology in Vitro, 2015, 29, 1701-1710.	2.4	44

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19	Organophosphate and carbamate pesticide residues and accompanying risks in commonly consumed vegetables in Kenya. Food Additives and Contaminants: Part B Surveillance, 2021, 14, 48-58.	2.8	34
20	Regulation of P-Glycoprotein in Renal Proximal Tubule Epithelial Cells by LPS and TNF-Î±. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-10.	3.0	33
21	Use of physiologically based kinetic modeling-facilitated reverse dosimetry of in vitro toxicity data for prediction of in vivo developmental toxicity of tebuconazole in rats. Toxicology Letters, 2017, 266, 85-93.	0.8	33
22	Development of a Web-Based Toolbox to Support Quantitative In-Vitro-to-In-Vivo Extrapolations (QIVIVE) within Nonanimal Testing Strategies. Chemical Research in Toxicology, 2021, 34, 460-472.	3.3	33
23	Use of an in vitroâ€“in silico testing strategy to predict inter-species and inter-ethnic human differences in liver toxicity of the pyrrolizidine alkaloids lasiocarpine and riddelliine. Archives of Toxicology, 2019, 93, 801-818.	4.2	32
24	Development of a pluripotent stem cell derived neuronal model to identify chemically induced pathway perturbations in relation to neurotoxicity: Effects of CREB pathway inhibition. Toxicology and Applied Pharmacology, 2014, 280, 378-388.	2.8	31
25	Prenatal developmental toxicity testing of petroleum substances: Application of the mouse embryonic stem cell test (EST) to compare in vitro potencies with potencies observed in vivo. Toxicology in Vitro, 2017, 44, 303-312.	2.4	30
26	Use of physiologically based kinetic modelling-facilitated reverse dosimetry to convert in vitro cytotoxicity data to predicted in vivo liver toxicity of lasiocarpine and riddelliine in rat. Food and Chemical Toxicology, 2018, 116, 216-226.	3.6	30
27	Toward<i>in vitro</i>biomarkers for developmental toxicity and their extrapolation to the<i>in vivo</i>situation. Expert Opinion on Drug Metabolism and Toxicology, 2012, 8, 11-27.	3.3	29
28	Relative developmental toxicity potencies of retinoids in the embryonic stem cell test compared with their relative potencies in in vivo and two other in vitro assays for developmental toxicity. Toxicology Letters, 2011, 203, 1-8.	0.8	27
29	Assessment of acute and chronic toxicity of doxorubicin in human induced pluripotent stem cell-derived cardiomyocytes. Toxicology in Vitro, 2017, 42, 182-190.	2.4	27
30	Use of the ES-D3 cell differentiation assay, combined with the BeWo transport model, to predict relative in vivo developmental toxicity of antifungal compounds. Toxicology in Vitro, 2015, 29, 320-328.	2.4	26
31	The Role of Endocrine and Dioxin-Like Activity of Extracts of Petroleum Substances in Developmental Toxicity as Detected in a Panel of CALUX Reporter Gene Assays. Toxicological Sciences, 2018, 164, 576-591.	3.1	26
32	Cytochrome P450 expression, induction and activity in human induced pluripotent stem cell-derived intestinal organoids and comparison with primary human intestinal epithelial cells and Caco-2 cells. Archives of Toxicology, 2021, 95, 907-922.	4.2	24
33	Towards a generic physiologically based kinetic model to predict in vivo uterotrophic responses in rats by reverse dosimetry of in vitro estrogenicity data. Archives of Toxicology, 2018, 92, 1075-1088.	4.2	23
34	Towards harmonization of test methods for in vitro hepatic clearance studies. Toxicology in Vitro, 2020, 63, 104722.	2.4	20
35	Development of a framework to derive effect-based trigger values to interpret CALUX data for drinking water quality. Water Research, 2021, 193, 116859.	11.3	20
36	Assessment of Highly Polar Chemicals in Dutch and Flemish Drinking Water and Its Sources: Presence and Potential Risks. ACS ES&T Water, 2021, 1, 928-937.	4.6	19

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37	A multi-tiered, in vivo, quantitative assay suite for environmental disruptors of thyroid hormone signaling. Aquatic Toxicology, 2017, 190, 1-10.	4.0	17
38	Biomonitoring and Subsequent Risk Assessment of Combined Exposure to Phthalates in Iranian Children and Adolescents. International Journal of Environmental Research and Public Health, 2018, 15, 2336.	2.6	17
39	Decrease of intracellular pH as possible mechanism of embryotoxicity of glycol ether alkoxyacetic acid metabolites. Toxicology and Applied Pharmacology, 2010, 245, 236-243.	2.8	16
40	Extended evaluation on the ES-D3 cell differentiation assay combined with the BeWo transport model, to predict relative developmental toxicity of triazole compounds. Archives of Toxicology, 2016, 90, 1225-1237.	4.2	16
41	Evaluation of in vitro models of stem cell-derived cardiomyocytes to screen for potential cardiotoxicity of chemicals. Toxicology in Vitro, 2020, 67, 104891.	2.4	14
42	Regenerative toxicology: the role of stem cells in the development of chronic toxicities. Expert Opinion on Drug Metabolism and Toxicology, 2014, 10, 39-50.	3.3	12
43	The in vivo developmental toxicity of diethylstilbestrol (DES) in rat evaluated by an alternative testing strategy. Archives of Toxicology, 2019, 93, 2021-2033.	4.2	12
44	Estrogen receptor alpha (ERÎ±)â€"mediated coregulator binding and gene expression discriminates the toxic ERÎ± agonist diethylstilbestrol (DES) from the endogenous ERÎ± agonist 17Î²-estradiol (E2). Cell Biology and Toxicology, 2020, 36, 417-435.	5.3	10
45	Role of Environmental Chemicals, Processed Food Derivatives, and Nutrients in the Induction of Carcinogenesis. Stem Cells and Development, 2015, 24, 2337-2352.	2.1	9
46	In vitro bioassays to evaluate beneficial and adverse health effects of botanicals: promises and pitfalls. Drug Discovery Today, 2017, 22, 1187-1200.	6.4	9
47	Study on inter-ethnic human differences in bioactivation and detoxification of estragole using physiologically based kinetic modeling. Archives of Toxicology, 2017, 91, 3093-3108.	4.2	9
48	Assessment of the in vitro developmental toxicity of diethylstilbestrol and estradiol in the zebrafish embryotoxicity test. Toxicology in Vitro, 2021, 72, 105088.	2.4	9
49	Selecting the dose metric in reverse dosimetry based QIVIVE. Archives of Toxicology, 2019, 93, 1467-1469.	4.2	8
50	Ensuring the Quality of Stem Cell-Derived In Vitro Models for Toxicity Testing. Advances in Experimental Medicine and Biology, 2016, 856, 259-297.	1.6	7
51	Characterization of the differential coregulator binding signatures of the Retinoic Acid Receptor subtypes upon (ant)agonist action. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1195-1206.	2.3	7
52	Virtual Cell Based Assay simulations of intra-mitochondrial concentrations in hepatocytes and cardiomyocytes. Toxicology in Vitro, 2017, 45, 222-232.	2.4	7
53	The effects of<i>all-trans</i>retinoic acid on estrogen receptor signaling in the estrogen-sensitive MCF/BUS subline. Journal of Receptor and Signal Transduction Research, 2018, 38, 112-121.	2.5	7
54	Comparison of gene expression and biotransformation activity of HepaRG cells under static and dynamic culture conditions. Scientific Reports, 2021, 11, 10327.	3.3	7

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55	Predictive Performance of Next Generation Physiologically Based Kinetic (PBK) Model Predictions in Rats Based on <i>In Vitro</i> and <i>In Silico</i> Input Data. Toxicological Sciences, 2022, 186, 18-28.	3.1	7
56	Providing Biological Plausibility for Exposureâ€“Health Relationships for the Mycotoxins Deoxynivalenol (DON) and Fumonisin B1 (FB1) in Humans Using the AOP Framework. Toxins, 2022, 14, 279.	3.4	7
57	Exploration of ToxCast/Tox21 bioassays as candidate bioanalytical tools for measuring groups of chemicals in water. Chemosphere, 2018, 209, 373-380.	8.2	6
58	Combining In Vitro Data and Physiologically Based Kinetic Modeling Facilitates Reverse Dosimetry to Define In Vivo Doseâ€“Response Curves for Bixinâ€•and Crocetinâ€Induced Activation of PPARÎ³ in Humans. Molecular Nutrition and Food Research, 2020, 64, e1900880.	3.3	6
59	Scientific Opinion of the Scientific Panel on Plant Protection Products and their Residues (PPR Panel) on testing and interpretation of comparative in vitro metabolism studies. EFSA Journal, 2021, 19, e06970.	1.8	6
60	Prediction of dose-dependent in vivo acetylcholinesterase inhibition by profenofos in rats and humans using physiologically based kinetic (PBK) modeling-facilitated reverse dosimetry. Archives of Toxicology, 2021, 95, 1287-1301.	4.2	4
61	Bioassay-directed analysis-based identification of relevant pyrrolizidine alkaloids. Archives of Toxicology, 2022, 96, 2299-2317.	4.2	4
62	Defining in vivo doseâ€•response curves for kidney DNA adduct formation of aristolochic acid I in rat, mouse and human by an in vitro and physiologically based kinetic modeling approach. Journal of Applied Toxicology, 2020, 40, 1647-1660.	2.8	3
63	Effects of Maerua subcordata (Gilg) DeWolf on electrophile-responsive element (EpRE)-mediated gene expression in vitro. PLoS ONE, 2019, 14, e0215155.	2.5	2