

# Hilda E Witters

## List of Publications by Citations

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78  
papers

3,958  
citations

32  
h-index

62  
g-index

95  
ext. papers

4,340<sup>o</sup>  
ext. citations

4.1  
avg, IF

4.94  
L-index

#	Paper	IF	Citations
78	Zebrafish embryos as an alternative to animal experiments--a commentary on the definition of the onset of protected life stages in animal welfare regulations. <i>Reproductive Toxicology</i> , <b>2012</b> , 33, 128-32	3.4	377
77	Sex hormones originating from different livestock production systems: fate and potential disrupting activity in the environment. <i>Analytica Chimica Acta</i> , <b>2002</b> , 473, 27-37	6.6	257
76	Comparative study on the in vitro/in vivo estrogenic potencies of 17beta-estradiol, estrone, 17alpha-ethynylestradiol and nonylphenol. <i>Aquatic Toxicology</i> , <b>2004</b> , 66, 183-95	5.1	224
75	Development of a screening assay to identify teratogenic and embryotoxic chemicals using the zebrafish embryo. <i>Reproductive Toxicology</i> , <b>2009</b> , 28, 308-20	3.4	196
74	The allergic cascade: review of the most important molecules in the asthmatic lung. <i>Immunology Letters</i> , <b>2007</b> , 113, 6-18	4.1	167
73	Locomotor activity in zebrafish embryos: a new method to assess developmental neurotoxicity. <i>Neurotoxicology and Teratology</i> , <b>2010</b> , 32, 460-71	3.9	142
72	Effects of ethynylestradiol on the reproductive physiology in zebrafish ( <i>Danio rerio</i> ): Time dependency and reversibility. <i>Environmental Toxicology and Chemistry</i> , <b>2002</b> , 21, 767-775	3.8	142
71	OECD validation study to assess intra- and inter-laboratory reproducibility of the zebrafish embryo toxicity test for acute aquatic toxicity testing. <i>Regulatory Toxicology and Pharmacology</i> , <b>2014</b> , 69, 496-514	3.4	138
70	Feasibility study of the zebrafish assay as an alternative method to screen for developmental toxicity and embryotoxicity using a training set of 27 compounds. <i>Reproductive Toxicology</i> , <b>2012</b> , 33, 142-54	3.4	137
69	Comparison of vitellogenin responses in zebrafish and rainbow trout following exposure to environmental estrogens. <i>Ecotoxicology and Environmental Safety</i> , <b>2003</b> , 56, 271-81	7	133
68	A European perspective on alternatives to animal testing for environmental hazard identification and risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , <b>2013</b> , 67, 506-30	3.4	121
67	Effects of 17alpha-ethynylestradiol in a partial life-cycle test with zebrafish ( <i>Danio rerio</i> ): effects on growth, gonads and female reproductive success. <i>Science of the Total Environment</i> , <b>2003</b> , 309, 127-37	10.2	107
66	Reproductive effects of ethynylestradiol and 4t-octylphenol on the zebrafish ( <i>Danio rerio</i> ). <i>Archives of Environmental Contamination and Toxicology</i> , <b>2001</b> , 41, 458-67	3.2	91
65	Assessment of the developmental neurotoxicity of compounds by measuring locomotor activity in zebrafish embryos and larvae. <i>Neurotoxicology and Teratology</i> , <b>2013</b> , 37, 44-56	3.9	88
64	The ReProTect Feasibility Study, a novel comprehensive in vitro approach to detect reproductive toxicants. <i>Reproductive Toxicology</i> , <b>2010</b> , 30, 200-18	3.4	85
63	. <i>Environmental Toxicology and Chemistry</i> , <b>2002</b> , 21, 767	3.8	74
62	Immunolocalization of Na <sup>+</sup> , K <sup>+</sup> -ATPase in the gill epithelium of rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Cell and Tissue Research</i> , <b>1996</b> , 283, 461-8	4.2	71

61	Recommendation on test readiness criteria for new approach methods in toxicology: Exemplified for developmental neurotoxicity. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2018</b> , 35, 306-352	4.3	71
60	Sustainable bisphenols from renewable softwood lignin feedstock for polycarbonates and cyanate ester resins. <i>Green Chemistry</i> , <b>2017</b> , 19, 2561-2570	10	70
59	Consensus statement on the need for innovation, transition and implementation of developmental neurotoxicity (DNT) testing for regulatory purposes. <i>Toxicology and Applied Pharmacology</i> , <b>2018</b> , 354, 3-6	4.6	69
58	A cell-based in vitro alternative to identify skin sensitizers by gene expression. <i>Toxicology and Applied Pharmacology</i> , <b>2008</b> , 231, 103-11	4.6	69
57	Optimization and prevalidation of the in vitro AR CALUX method to test androgenic and antiandrogenic activity of compounds. <i>Reproductive Toxicology</i> , <b>2010</b> , 30, 18-24	3.4	64
56	Cell types involved in allergic asthma and their use in in vitro models to assess respiratory sensitization. <i>Toxicology in Vitro</i> , <b>2008</b> , 22, 1419-31	3.6	59
55	Optimization and prevalidation of the in vitro ERalpha CALUX method to test estrogenic and antiestrogenic activity of compounds. <i>Reproductive Toxicology</i> , <b>2010</b> , 30, 73-80	3.4	58
54	Microarray analyses in dendritic cells reveal potential biomarkers for chemical-induced skin sensitization. <i>Molecular Immunology</i> , <b>2007</b> , 44, 3222-33	4.3	56
53	Promising bulk production of a potentially benign bisphenol A replacement from a hardwood lignin platform. <i>Green Chemistry</i> , <b>2018</b> , 20, 1050-1058	10	50
52	The effect of humic substances on the toxicity of aluminium to adult rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum). <i>Journal of Fish Biology</i> , <b>1990</b> , 37, 43-53	1.9	50
51	Detection of estrogenic activity in Flemish surface waters using an in vitro recombinant assay with yeast cells. <i>Water Science and Technology</i> , <b>2001</b> , 43, 117-123	2.2	47
50	Impaired anterior swim bladder inflation following exposure to the thyroid peroxidase inhibitor 2-mercaptobenzothiazole part II: Zebrafish. <i>Aquatic Toxicology</i> , <b>2016</b> , 173, 204-217	5.1	38
49	Chemical speciation dynamics and toxicity assessment in aquatic systems. <i>Ecotoxicology and Environmental Safety</i> , <b>1998</b> , 41, 90-5	7	36
48	Screening of endocrine disrupting chemicals with MELN cells, an ER-transactivation assay combined with cytotoxicity assessment. <i>Toxicology in Vitro</i> , <b>2007</b> , 21, 1262-7	3.6	34
47	Gene expression signatures in CD34+-progenitor-derived dendritic cells exposed to the chemical contact allergen nickel sulfate. <i>Toxicology and Applied Pharmacology</i> , <b>2006</b> , 216, 131-49	4.6	33
46	Expert opinion on toxicity profiling--report from a NORMAN expert group meeting. <i>Integrated Environmental Assessment and Management</i> , <b>2013</b> , 9, 185-91	2.5	27
45	Assessment of chemical skin-sensitizing potency by an in vitro assay based on human dendritic cells. <i>Toxicological Sciences</i> , <b>2010</b> , 116, 122-9	4.4	27
44	Cytokine transcript profiling in CD34+-progenitor derived dendritic cells exposed to contact allergens and irritants. <i>Toxicology Letters</i> , <b>2005</b> , 155, 187-94	4.4	25

43	. <i>Environmental Toxicology and Chemistry</i> , <b>1996</b> , 15, 986	3.8	25
42	Gene profiles of a human bronchial epithelial cell line after in vitro exposure to respiratory (non-)sensitizing chemicals: identification of discriminating genetic markers and pathway analysis. <i>Toxicology</i> , <b>2009</b> , 255, 151-9	4.4	24
41	Interference of aluminum and pH on the Na-influx in an aquatic insect <i>Corixa punctata</i> (Illig.). <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>1984</b> , 32, 575-9	2.7	23
40	Phenotypic and biomarker evaluation of zebrafish larvae as an alternative model to predict mammalian hepatotoxicity. <i>Journal of Applied Toxicology</i> , <b>2016</b> , 36, 1194-206	4.1	23
39	Functionality and specificity of gene markers for skin sensitization in dendritic cells. <i>Toxicology Letters</i> , <b>2011</b> , 203, 106-10	4.4	20
38	Molecular recognition of endocrine disruptors by synthetic and natural 17beta-estradiol receptors: a comparative study. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 2081-8	4.4	20
37	Expression analysis of immune-related genes in CD34(+) progenitor-derived dendritic cells after exposure to the chemical contact allergen DNCB. <i>Toxicology in Vitro</i> , <b>2005</b> , 19, 909-13	3.6	20
36	The toxic mixing zone of neutral and acidic river water: Acute aluminium toxicity in brown trout ( <i>Salmo trutta</i> L.). <i>Water, Air, and Soil Pollution</i> , <b>1995</b> , 85, 341-346	2.6	20
35	Repeatability and Reproducibility of the RTgill-W1 Cell Line Assay for Predicting Fish Acute Toxicity. <i>Toxicological Sciences</i> , <b>2019</b> , 169, 353-364	4.4	19
34	Gene expression profiles reveal distinct immunological responses of cobalt and cerium dioxide nanoparticles in two in vitro lung epithelial cell models. <i>Toxicology Letters</i> , <b>2014</b> , 228, 157-69	4.4	19
33	The assessment of estrogenic or anti-estrogenic activity of chemicals by the human stably transfected estrogen sensitive MELN cell line: results of test performance and transferability. <i>Reproductive Toxicology</i> , <b>2010</b> , 30, 60-72	3.4	19
32	Flow cytometric characterisation of antigen presenting dendritic cells after in vitro exposure to diesel exhaust particles. <i>Toxicology in Vitro</i> , <b>2005</b> , 19, 903-7	3.6	19
31	Gene markers in dendritic cells unravel pieces of the skin sensitization puzzle. <i>Toxicology Letters</i> , <b>2010</b> , 196, 95-103	4.4	18
30	THP-1 monocytes but not macrophages as a potential alternative for CD34+ dendritic cells to identify chemical skin sensitizers. <i>Toxicology and Applied Pharmacology</i> , <b>2009</b> , 236, 221-30	4.6	18
29	Gene profiles of a human alveolar epithelial cell line after in vitro exposure to respiratory (non-)sensitizing chemicals: identification of discriminating genetic markers and pathway analysis. <i>Toxicology Letters</i> , <b>2009</b> , 185, 16-22	4.4	18
28	Gene expression profiling of in vitro cultured macrophages after exposure to the respiratory sensitizer hexamethylene diisocyanate. <i>Toxicology in Vitro</i> , <b>2008</b> , 22, 1107-14	3.6	18
27	Haematological disturbances and osmotic shifts in rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum) under acid and aluminium exposure. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>1990</b> , 160, 563-571	2.2	18
26	An AOP-based alternative testing strategy to predict the impact of thyroid hormone disruption on swim bladder inflation in zebrafish. <i>Aquatic Toxicology</i> , <b>2018</b> , 200, 1-12	5.1	17

25	MUTZ-3-derived dendritic cells as an in vitro alternative model to CD34+ progenitor-derived dendritic cells for testing of chemical sensitizers. <i>Toxicology in Vitro</i> , <b>2009</b> , 23, 1477-81	3.6	17
24	Screening for (anti)androgenic properties using a standard operation protocol based on the human stably transfected androgen sensitive PALM cell line. First steps towards validation. <i>Reproductive Toxicology</i> , <b>2010</b> , 30, 9-17	3.4	15
23	Regioselective synthesis, isomerisation, in vitro oestrogenic activity, and copolymerisation of bisguaiaicol F (BGF) isomers. <i>Green Chemistry</i> , <b>2019</b> , 21, 6622-6633	10	14
22	Gene profiles of THP-1 macrophages after in vitro exposure to respiratory (non-)sensitizing chemicals: identification of discriminating genetic markers and pathway analysis. <i>Toxicology in Vitro</i> , <b>2009</b> , 23, 1151-62	3.6	13
21	Laboratory studies on invertebrate survival and physiology in acid waters <b>1989</b> , 153-170		13
20	Determination of Estrogen Activity in River Waters and Wastewater in Luxembourg by Chemical Analysis and the Yeast Estrogen Screen Assay. <i>Environment and Pollution</i> , <b>2012</b> , 1,	1	11
19	Inter-laboratory comparison of a yeast bioassay for the determination of estrogenic activity in biological samples. <i>Analytica Chimica Acta</i> , <b>2009</b> , 637, 265-72	6.6	11
18	Comparison of different androgen bioassays in the screening for environmental (anti)androgenic activity. <i>Environmental Toxicology and Chemistry</i> , <b>2005</b> , 24, 2646-56	3.8	11
17	Toxicity of cadmium-contaminated clay to the zebrafish Danio rerio. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2000</b> , 38, 191-6	3.2	9
16	A Microanalytical Study of the Gills of Aluminium-Exposed Rainbow Trout (Salmo Gairdneri). <i>International Journal of Environmental Analytical Chemistry</i> , <b>1988</b> , 34, 227-237	1.8	9
15	Adaptation of the Systematic Review Framework to the Assessment of Toxicological Test Methods: Challenges and Lessons Learned with the Zebrafish Embryotoxicity Test. <i>Toxicological Sciences</i> , <b>2018</b> ,	4.4	6
14	Branchial and renal ion fluxes and transepithelial electrical potential differences in rainbow trout, <i>Oncorhynchus mykiss</i> : effects of aluminium at low pH. <i>Environmental Biology of Fishes</i> , <b>1992</b> , 34, 197-206 <sup>1.6</sup>		3
13	A Systematic Review to Compare Chemical Hazard Predictions of the Zebrafish Embryotoxicity Test With Mammalian Prenatal Developmental Toxicity. <i>Toxicological Sciences</i> , <b>2021</b> , 183, 14-35	4.4	3
12	<i>Xenopus laevis</i> as a Bioindicator of Endocrine Disruptors in the Region of Central Chile. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2019</b> , 77, 390-408	3.2	2
11	Blueprint for the Development and Sustainability of National Nanosafety Centers. <i>NanoEthics</i> , <b>2020</b> , 14, 169-183	1	2
10	Cell-based data to predict the toxicity of chemicals to fish. Commentary on the manuscript by Rodrigues et al., 2019. Cell-based assays seem not to accurately predict fish short-term toxicity of pesticides. <i>Environmental Pollution</i> 252:476-482. <i>Environmental Pollution</i> , <b>2019</b> , 254, 113060	9.3	1
9	Ecotoxic impact of suspended solids collected from polluted surface waters. <i>Journal of Soils and Sediments</i> , <b>2001</b> , 1, 223-233	3.4	1
8	Alternative air-liquid interface method for inhalation toxicity testing of a petroleum-derived substance. <i>MethodsX</i> , <b>2020</b> , 7, 101088	1.9	1

7	Blueprint for a self-sustained European Centre for service provision in safe and sustainable innovation for nanotechnology.. <i>NanoImpact</i> , <b>2021</b> , 23, 100337	5.6	1
6	ELIXIR and Toxicology: a community in development. <i>F1000Research</i> , <b>2021</b> , 10, 1129	3.6	0
5	Minimum reporting standards based on a comprehensive review of the zebrafish embryo teratogenicity assay. <i>Regulatory Toxicology and Pharmacology</i> , <b>2021</b> , 127, 105054	3.4	0
4	Locomotoractivity in zebrafish embryo and larva: alternative assays to evaluate the developmental neurotoxic potential of chemicals and drugs. <i>Toxicology Letters</i> , <b>2013</b> , 221, S44	4.4	
3	Cadmium Accumulation in Cress as a Measure for Bioavailable Pore Water Concentration. <i>Soil &amp; Environment</i> , <b>1995</b> , 429-430		
2	VITOUSENS <b>2017</b> , 347-359		
1	Sustainable future technologies: A concept for risk assessment applied to chemical looping combustion installations. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 147, 834-845	5.5	