

# Nicola Hewitt

## List of Publications by Citations

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53  
papers

3,058  
citations

23  
h-index

53  
g-index

53  
ext. papers

3,517  
ext. citations

3.5  
avg, IF

4.39  
L-index

#	Paper	IF	Citations
53	Recent advances in 2D and 3D in vitro systems using primary hepatocytes, alternative hepatocyte sources and non-parenchymal liver cells and their use in investigating mechanisms of hepatotoxicity, cell signaling and ADME. <i>Archives of Toxicology</i> , <b>2013</b> , 87, 1315-530	5.8	837
52	Primary hepatocytes: current understanding of the regulation of metabolic enzymes and transporter proteins, and pharmaceutical practice for the use of hepatocytes in metabolism, enzyme induction, transporter, clearance, and hepatotoxicity studies. <i>Drug Metabolism Reviews</i> , <b>2007</b> , 39, 159-234	7	575
51	New hepatocyte in vitro systems for drug metabolism: metabolic capacity and recommendations for application in basic research and drug development, standard operation procedures. <i>Drug Metabolism Reviews</i> , <b>2003</b> , 35, 145-213	7	222
50	Induction of hepatic cytochrome P450 enzymes: methods, mechanisms, recommendations, and in vitro-in vivo correlations. <i>Xenobiotica</i> , <b>2007</b> , 37, 1196-224	2	150
49	Phase I and II enzyme characterization of two sources of HepG2 cell lines. <i>Xenobiotica</i> , <b>2004</b> , 34, 243-56	2	138
48	Xenobiotic metabolism capacities of human skin in comparison with a 3D epidermis model and keratinocyte-based cell culture as in vitro alternatives for chemical testing: activating enzymes (Phase I). <i>Experimental Dermatology</i> , <b>2012</b> , 21, 358-63	4	91
47	Use of human in vitro skin models for accurate and ethical risk assessment: metabolic considerations. <i>Toxicological Sciences</i> , <b>2013</b> , 133, 209-17	4.4	79
46	Induction of drug metabolizing enzymes: a survey of in vitro methodologies and interpretations used in the pharmaceutical industry--do they comply with FDA recommendations?. <i>Chemico-Biological Interactions</i> , <b>2007</b> , 168, 51-65	5	67
45	Xenobiotic metabolism capacities of human skin in comparison with a 3D-epidermis model and keratinocyte-based cell culture as in vitro alternatives for chemical testing: phase II enzymes. <i>Experimental Dermatology</i> , <b>2012</b> , 21, 364-9	4	66
44	Studies comparing in vivo:in vitro metabolism of three pharmaceutical compounds in rat, dog, monkey, and human using cryopreserved hepatocytes, microsomes, and collagen gel immobilized hepatocyte cultures. <i>Drug Metabolism and Disposition</i> , <b>2001</b> , 29, 1042-50	4	56
43	Prediction of hepatic clearance using cryopreserved human hepatocytes: a comparison of serum and serum-free incubations. <i>Journal of Pharmacy and Pharmacology</i> , <b>2006</b> , 58, 633-41	4.8	54
42	A tiered approach to the use of alternatives to animal testing for the safety assessment of cosmetics: genotoxicity. A COLIPA analysis. <i>Regulatory Toxicology and Pharmacology</i> , <b>2010</b> , 57, 315-24	3.4	50
41	Generation of proliferating human hepatocytes using Upcyte <sup>®</sup> technology: characterisation and applications in induction and cytotoxicity assays. <i>Xenobiotica</i> , <b>2012</b> , 42, 939-56	2	49
40	International prevalidation studies of the EpiDerm 3D human reconstructed skin micronucleus (RSMN) assay: transferability and reproducibility. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2010</b> , 701, 123-31	3	46
39	Skin metabolism of aminophenols: human keratinocytes as a suitable in vitro model to qualitatively predict the dermal transformation of 4-amino-2-hydroxytoluene in vivo. <i>Toxicology and Applied Pharmacology</i> , <b>2009</b> , 235, 114-23	4.6	45
38	The Cosmetics Europe strategy for animal-free genotoxicity testing: project status up-date. <i>Toxicology in Vitro</i> , <b>2014</b> , 28, 18-23	3.6	44
37	Dermal xenobiotic metabolism: a comparison between native human skin, four in vitro skin test systems and a liver system. <i>Skin Pharmacology and Physiology</i> , <b>2014</b> , 27, 263-75	3	35

36	The reconstructed skin micronucleus assay (RSMN) in EpiDerm™detailed protocol and harmonized scoring atlas. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2011</b> , 720, 42-52	3	34
35	A strategy for systemic toxicity assessment based on non-animal approaches: The Cosmetics Europe Long Range Science Strategy programme. <i>Toxicology in Vitro</i> , <b>2018</b> , 50, 137-146	3.6	31
34	A tiered approach to the use of alternatives to animal testing for the safety assessment of cosmetics: skin irritation. <i>Regulatory Toxicology and Pharmacology</i> , <b>2009</b> , 54, 188-96	3.4	29
33	Correlation between troglitazone cytotoxicity and drug metabolic enzyme activities in cryopreserved human hepatocytes. <i>Chemico-Biological Interactions</i> , <b>2002</b> , 142, 73-82	5	29
32	Evaluation of chemicals requiring metabolic activation in the EpiDerm™BD human reconstructed skin micronucleus (RSMN) assay. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>2013</b> , 750, 40-9	3	26
31	Comparison of intrinsic metabolic clearance in fresh and cryopreserved human hepatocytes. <i>Xenobiotica</i> , <b>2009</b> , 39, 656-62	2	25
30	Metabolic activity of fresh and cryopreserved cynomolgus monkey ( <i>Macaca fascicularis</i> ) hepatocytes. <i>Xenobiotica</i> , <b>2000</b> , 30, 665-81	2	20
29	Comparison of the metabolism of 10 chemicals in human and pig skin explants. <i>Journal of Applied Toxicology</i> , <b>2019</b> , 39, 385-397	4.1	20
28	Road Map for Development of Stem Cell-Based Alternative Test Methods. <i>Trends in Molecular Medicine</i> , <b>2019</b> , 25, 470-481	11.5	19
27	Cryopreserved rat, dog and monkey hepatocytes: measurement of drug metabolizing enzymes in suspensions and cultures. <i>Human and Experimental Toxicology</i> , <b>2004</b> , 23, 307-16	3.4	18
26	Measurement of the penetration of 56 cosmetic relevant chemicals into and through human skin using a standardized protocol. <i>Journal of Applied Toxicology</i> , <b>2020</b> , 40, 403-415	4.1	18
25	Optimisation of the cryopreservation of primary hepatocytes. <i>Methods in Molecular Biology</i> , <b>2010</b> , 640, 83-105	1.4	16
24	Challenges in working towards an internal threshold of toxicological concern (iTTC) for use in the safety assessment of cosmetics: Discussions from the Cosmetics Europe iTTC Working Group workshop. <i>Regulatory Toxicology and Pharmacology</i> , <b>2019</b> , 103, 63-72	3.4	15
23	Extrapolation of systemic bioavailability assessing skin absorption and epidermal and hepatic metabolism of aromatic amine hair dyes in vitro. <i>Toxicology and Applied Pharmacology</i> , <b>2015</b> , 287, 139-148 <sup>6</sup>	4.6	15
22	Comparison of the Skin Penetration of 3 Metabolically Stable Chemicals Using Fresh and Frozen Human Skin. <i>Skin Pharmacology and Physiology</i> , <b>2017</b> , 30, 234-245	3	14
21	Validation of the 3D reconstructed human skin Comet assay, an animal-free alternative for following-up positive results from standard in vitro genotoxicity assays. <i>Mutagenesis</i> , <b>2021</b> , 36, 19-35	2.8	14
20	Effects of the genotoxic compounds, benzo[a]pyrene and cyclophosphamide on phase 1 and 2 activities in EpiDerm™models. <i>Xenobiotica</i> , <b>2012</b> , 42, 526-37	2	13
19	Metabolite screening of aromatic amine hair dyes using in vitro hepatic models. <i>Xenobiotica</i> , <b>2009</b> , 39, 811-25	2	13

18	Characterization of application scenario-dependent pharmacokinetics and pharmacodynamic properties of permethrin and hyperforin in a dynamic skin and liver multi-organ-chip model. <i>Toxicology</i> , <b>2021</b> , 448, 152637	4.4	11
17	The effect of EGF and the comitogen, norepinephrine, on the proliferative responses of fresh and cryopreserved rat and mouse hepatocytes. <i>Cryobiology</i> , <b>2006</b> , 53, 182-93	2.7	10
16	Use of human liver and EpiSkin <sup>TM</sup> 9 subcellular fractions as a screening assays to compare the in vitro hepatic and dermal metabolism of 47 cosmetics-relevant chemicals. <i>Journal of Applied Toxicology</i> , <b>2020</b> , 40, 416-433	4.1	8
15	Direct and quantitative evaluation of the major human CYP contribution (fmCYP) to drug clearance using the in vitro Silensomes <sup>TM</sup> model. <i>Xenobiotica</i> , <b>2019</b> , 49, 22-35	2	8
14	Partition coefficient and diffusion coefficient determinations of 50 compounds in human intact skin, isolated skin layers and isolated stratum corneum lipids. <i>Toxicology in Vitro</i> , <b>2020</b> , 69, 104990	3.6	7
13	Validation of the 3D reconstructed human skin micronucleus (RSMN) assay: an animal-free alternative for following-up positive results from standard in vitro genotoxicity assays. <i>Mutagenesis</i> , <b>2021</b> , 36, 1-17	2.8	7
12	A novel strategy for ADME screening of prodrugs: combined use of serum and hepatocytes to integrate bioactivation and clearance, and predict exposure to both active and prodrug to the systemic circulation. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 1504-14	3.9	6
11	Cryopreservation of Hepatocytes. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1250, 13-26	1.4	6
10	Use of a Simple in vitro Test to Assess Loss of Chemical due to Volatility during an in vitro Human Skin Absorption Study. <i>Skin Pharmacology and Physiology</i> , <b>2019</b> , 32, 117-124	3	5
9	Demonstration of the first-pass metabolism in the skin of the hair dye, 4-amino-2-hydroxytoluene, using the Chip2 skin-liver microphysiological model. <i>Journal of Applied Toxicology</i> , <b>2021</b> , 41, 1553-1567	4.1	5
8	Comparison of the metabolism of 10 cosmetics-relevant chemicals in EpiSkin <sup>TM</sup> 9 subcellular fractions and in vitro human skin explants. <i>Journal of Applied Toxicology</i> , <b>2020</b> , 40, 313-326	4.1	4
7	New framework for a non-animal approach adequately assures the safety of cosmetic ingredients - A case study on caffeine. <i>Regulatory Toxicology and Pharmacology</i> , <b>2021</b> , 123, 104931	3.4	4
6	A 10-step framework for use of read-across (RAX) in next generation risk assessment (NGRA) for cosmetics safety assessment.. <i>Regulatory Toxicology and Pharmacology</i> , <b>2022</b> , 129, 105094	3.4	2
5	Cosmetics Europe evaluation of 6 in silico skin penetration models. <i>Computational Toxicology</i> , <b>2021</b> , 19, 100177	3.1	2
4	Use of Physiologically-Based Kinetics Modelling to Reliably Predict Internal Concentrations of the UV Filter, Homosalate, After Repeated Oral and Topical Application.. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 802514	5.6	0
3	Metabolism and plasma protein binding of 16 straight- and branched-chain parabens in in vitro liver and skin models. <i>Toxicology in Vitro</i> , <b>2021</b> , 72, 105051	3.6	0
2	Use of in vitro metabolism and biokinetics assays to refine predicted in vivo and in vitro internal exposure to the cosmetic ingredient, phenoxyethanol, for use in risk assessment.. <i>Regulatory Toxicology and Pharmacology</i> , <b>2022</b> , 105132	3.4	0
1	Read-across and new approach methodologies applied in a 10-step framework for cosmetics safety assessment - A case study with parabens.. <i>Regulatory Toxicology and Pharmacology</i> , <b>2022</b> , 105161	3.4	0

