

Nicole C Kleinstreuer

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

8,450
citations

57758

44
h-index

49909

87
g-index

126
all docs

126
docs citations

126
times ranked

8873
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Throughput Chemical Screening and Structure-Based Models to Predict hERG Inhibition. <i>Biology</i> , 2022, 11, 209.	2.8	8
2	S _{TopTox} : An <i>in Silico</i> Alternative to Animal Testing for Acute Systemic and Topical Toxicity. <i>Environmental Health Perspectives</i> , 2022, 130, 27012.	6.0	38
3	Evaluation of Variability Across Rat Acute Oral Systemic Toxicity Studies. <i>Toxicological Sciences</i> , 2022, 188, 34-47.	3.1	22
4	Application of an Accessible Interface for Pharmacokinetic Modeling and In Vitro to In Vivo Extrapolation. <i>Frontiers in Pharmacology</i> , 2022, 13, 864742.	3.5	8
5	Impact of High-Throughput Model Parameterization and Data Uncertainty on Thyroid-Based Toxicological Estimates for Pesticide Chemicals. <i>Environmental Science & Technology</i> , 2022, 56, 5620-5631.	10.0	5
6	Application of Defined Approaches for Skin Sensitization to Agrochemical Products. <i>Frontiers in Toxicology</i> , 2022, 4, 852856.	3.1	7
7	IVIVE: Facilitating the Use of In Vitro Toxicity Data in Risk Assessment and Decision Making. <i>Toxics</i> , 2022, 10, 232.	3.7	35
8	Quantitative in vitro to in vivo extrapolation for developmental toxicity potency of valproic acid analogues. <i>Birth Defects Research</i> , 2022, 114, 1037-1055.	1.5	4
9	Mixtures-Inclusive <i>In Silico</i> Models of Ocular Toxicity Based on United States and International Hazard Categories. <i>Chemical Research in Toxicology</i> , 2022, 35, 992-1000.	3.3	1
10	Current ecotoxicity testing needs among selected U.S. federal agencies. <i>Regulatory Toxicology and Pharmacology</i> , 2022, 133, 105195.	2.7	5
11	Towards replacement of animal tests with in vitro assays: a gene expression biomarker predicts in vitro and in vivo estrogen receptor activity. <i>Chemico-Biological Interactions</i> , 2022, 363, 109995.	4.0	4
12	Pred-Skin: A Web Portal for Accurate Prediction of Human Skin Sensitizers. <i>Chemical Research in Toxicology</i> , 2021, 34, 258-267.	3.3	32
13	High-Throughput Screening to Identify Chemical Cardiotoxic Potential. <i>Chemical Research in Toxicology</i> , 2021, 34, 566-583.	3.3	20
14	Retrospective analysis of dermal absorption triple pack data. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021, 38, 463-476.	1.5	6
15	Introduction to Special Issue: Computational Toxicology. <i>Chemical Research in Toxicology</i> , 2021, 34, 171-175.	3.3	10
16	FutureTox IV Workshop Summary: <i>Predictive Toxicology for Healthy Children</i> . <i>Toxicological Sciences</i> , 2021, 180, 198-211.	3.1	15
17	Large-Scale Modeling of Multispecies Acute Toxicity End Points Using Consensus of Multitask Deep Learning Methods. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 653-663.	5.4	35
18	CATMoS: Collaborative Acute Toxicity Modeling Suite. <i>Environmental Health Perspectives</i> , 2021, 129, 47013.	6.0	63

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19	Human-relevant approaches to assess eye corrosion/irritation potential of agrochemical formulations. <i>Cutaneous and Ocular Toxicology</i> , 2021, 40, 145-167.	1.3	21
20	Curated Data In "Trustworthy <i>In Silico</i> Models Out: The Impact of Data Quality on the Reliability of Artificial Intelligence Models as Alternatives to Animal Testing. <i>ATLA Alternatives To Laboratory Animals</i> , 2021, 49, 73-82.	1.0	20
21	Analysis of variability in the rabbit skin irritation assay. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 122, 104920.	2.7	18
22	Yale School of Public Health Symposium: An overview of the challenges and opportunities associated with per- and polyfluoroalkyl substances (PFAS). <i>Science of the Total Environment</i> , 2021, 778, 146192.	8.0	22
23	Usefulness and Applicability of Integrated Strategy Approaches in Toxicology. <i>Applied in Vitro Toxicology</i> , 2021, 7, 89-90.	1.1	0
24	Performance of the GHS Mixtures Equation for Predicting Acute Oral Toxicity. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 125, 105007.	2.7	6
25	Application of new approach methodologies: ICE tools to support chemical evaluations. <i>Computational Toxicology</i> , 2021, 20, 100184.	3.3	31
26	Characteristics to consider when selecting a positive control material for an in vitro assay. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021, 38, 365-376.	1.5	10
27	<i>Saagar</i> "A New, Extensible Set of Molecular Substructures for QSAR/QSPR and Read-Across Predictions. <i>Chemical Research in Toxicology</i> , 2021, 34, 634-640.	3.3	8
28	COVID-19 "prime time for microphysiological systems, as illustrated for the brain. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021, 38, 535-549.	1.5	6
29	Opportunities and challenges related to saturation of toxicokinetic processes: Implications for risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , 2021, 127, 105070.	2.7	10
30	U.S. Federal Agency interests and key considerations for new approach methodologies for nanomaterials. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021, , .	1.5	5
31	Novel computational models offer alternatives to animal testing for assessing eye irritation and corrosion potential of chemicals. <i>Artificial Intelligence in the Life Sciences</i> , 2021, 1, 100028.	2.2	7
32	Selecting a minimal set of androgen receptor assays for screening chemicals. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 117, 104764.	2.7	15
33	InterPred: a webtool to predict chemical autofluorescence and luminescence interference. <i>Nucleic Acids Research</i> , 2020, 48, W586-W590.	14.5	11
34	Tox21BodyMap: a webtool to map chemical effects on the human body. <i>Nucleic Acids Research</i> , 2020, 48, W472-W476.	14.5	4
35	Computational Toxicology. <i>Chemical Research in Toxicology</i> , 2020, 33, 687-688.	3.3	12
36	Two-Dimensional Cellular and Three-Dimensional Bio-Printed Skin Models to Screen Topical-Use Compounds for Irritation Potential. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 109.	4.1	26

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37	High-Throughput Screening to Predict Chemical-Assay Interference. <i>Scientific Reports</i> , 2020, 10, 3986.	3.3	28
38	An integrated chemical environment with tools for chemical safety testing. <i>Toxicology in Vitro</i> , 2020, 67, 104916.	2.4	37
39	CoMPARA: Collaborative Modeling Project for Androgen Receptor Activity. <i>Environmental Health Perspectives</i> , 2020, 128, 27002.	6.0	120
40	Hierarchical Quantitative Structure-Activity Relationship Modeling Approach for Integrating Binary, Multiclass, and Regression Models of Acute Oral Systemic Toxicity. <i>Chemical Research in Toxicology</i> , 2020, 33, 353-366.	3.3	20
41	An evaluation framework for new approach methodologies (NAMs) for human health safety assessment. <i>Regulatory Toxicology and Pharmacology</i> , 2020, 112, 104592.	2.7	108
42	The Key Characteristics of Carcinogens: Relationship to the Hallmarks of Cancer, Relevant Biomarkers, and Assays to Measure Them. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2020, 29, 1887-1903.	2.5	52
43	Internationalization of read-across as a validated new approach method (NAM) for regulatory toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020, 37, 579-606.	1.5	48
44	Bringing Big Data to Bear in Environmental Public Health: Challenges and Recommendations. <i>Frontiers in Artificial Intelligence</i> , 2020, 3, .	3.4	5
45	Identification of potential endocrine disrupting chemicals using gene expression biomarkers. <i>Toxicology and Applied Pharmacology</i> , 2019, 380, 114683.	2.8	29
46	Identification and Profiling of Environmental Chemicals That Inhibit the TGF β 2/SMAD Signaling Pathway. <i>Chemical Research in Toxicology</i> , 2019, 32, 2433-2444.	3.3	4
47	SAR and QSAR modeling of a large collection of LD50 rat acute oral toxicity data. <i>Journal of Cheminformatics</i> , 2019, 11, 58.	6.1	71
48	Open-source QSAR models for pKa prediction using multiple machine learning approaches. <i>Journal of Cheminformatics</i> , 2019, 11, 60.	6.1	90
49	Systems modeling of developmental vascular toxicity. <i>Current Opinion in Toxicology</i> , 2019, 15, 55-63.	5.0	25
50	Exploring current read-across applications and needs among selected U.S. Federal Agencies. <i>Regulatory Toxicology and Pharmacology</i> , 2019, 106, 197-209.	2.7	23
51	Workshop on the validation and regulatory acceptance of innovative 3R approaches in regulatory toxicology - Evolution versus revolution. <i>Toxicology in Vitro</i> , 2019, 59, 1-11.	2.4	27
52	Multi-laboratory Validation Study of the Vitrigel-Eye Irritancy Test Method as an Alternative to In Vivo Eye Irritation Testing. <i>ATLA Alternatives To Laboratory Animals</i> , 2019, 47, 140-157.	1.0	5
53	Chronic inflammation in the etiology of disease across the life span. <i>Nature Medicine</i> , 2019, 25, 1822-1832.	30.7	2,195
54	Skin sensitization testing needs and data uses by US regulatory and research agencies. <i>Archives of Toxicology</i> , 2019, 93, 273-291.	4.2	16

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55	Mice-to-men comparison of inhaled drug-aerosol deposition and clearance. <i>Respiratory Physiology and Neurobiology</i> , 2019, 260, 82-94.	1.6	28
56	Workflow for Defining Reference Chemicals for Assessing Performance of In Vitro Assays. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 261-276.	1.5	11
57	International regulatory requirements for skin sensitization testing. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 95, 52-65.	2.7	59
58	Non-animal methods to predict skin sensitization (I): the Cosmetics Europe database. <i>Critical Reviews in Toxicology</i> , 2018, 48, 344-358.	3.9	122
59	Non-animal methods to predict skin sensitization (II): an assessment of defined approaches. <i>Critical Reviews in Toxicology</i> , 2018, 48, 359-374.	3.9	157
60	Highlight report: "Big data in the 3R's: outlook and recommendations", a roundtable summary. <i>Archives of Toxicology</i> , 2018, 92, 1015-1020.	4.2	10
61	Status of acute systemic toxicity testing requirements and data uses by U.S. regulatory agencies. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 94, 183-196.	2.7	58
62	In vitro to in vivo extrapolation for high throughput prioritization and decision making. <i>Toxicology in Vitro</i> , 2018, 47, 213-227.	2.4	162
63	Standardisation of defined approaches for skin sensitisation testing to support regulatory use and international adoption: position of the International Cooperation on Alternative Test Methods. <i>Archives of Toxicology</i> , 2018, 92, 611-617.	4.2	53
64	New approach methods for testing chemicals for endocrine disruption potential. <i>Current Opinion in Toxicology</i> , 2018, 9, 40-47.	5.0	14
65	Evaluation and Optimization of Pharmacokinetic Models for <i>in Vitro</i> to <i>in Vivo</i> Extrapolation of Estrogenic Activity for Environmental Chemicals. <i>Environmental Health Perspectives</i> , 2018, 126, 97001.	6.0	31
66	Development of a curated Hershberger database. <i>Reproductive Toxicology</i> , 2018, 81, 259-271.	2.9	22
67	Evaluation of androgen assay results using a curated Hershberger database. <i>Reproductive Toxicology</i> , 2018, 81, 272-280.	2.9	25
68	Exploring drug space with <i>ChemMaps.com</i> . <i>Bioinformatics</i> , 2018, 34, 3773-3775.	4.1	15
69	Identification of Androgen Receptor Modulators in a Prostate Cancer Cell Line Microarray Compendium. <i>Toxicological Sciences</i> , 2018, 166, 146-162.	3.1	16
70	Predictive models for acute oral systemic toxicity: A workshop to bridge the gap from research to regulation. <i>Computational Toxicology</i> , 2018, 8, 21-24.	3.3	62
71	3S - Systematic, systemic, and systems biology and toxicology. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 139-162.	1.5	50
72	Prediction of skin sensitization potency using machine learning approaches. <i>Journal of Applied Toxicology</i> , 2017, 37, 792-805.	2.8	52

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73	Embryonic vascular disruption adverse outcomes: Linking high throughput signaling signatures with functional consequences. <i>Reproductive Toxicology</i> , 2017, 71, 16-31.	2.9	3
74	Identifying environmental chemicals as agonists of the androgen receptor by using a quantitative high-throughput screening platform. <i>Toxicology</i> , 2017, 385, 48-58.	4.2	24
75	Pred-Skin: A Fast and Reliable Web Application to Assess Skin Sensitization Effect of Chemicals. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1013-1017.	5.4	79
76	Embryonic vascular disruption adverse outcomes: Linking high throughput signaling signatures with functional consequences. <i>Reproductive Toxicology</i> , 2017, 70, 82-96.	2.9	13
77	Development and Validation of a Computational Model for Androgen Receptor Activity. <i>Chemical Research in Toxicology</i> , 2017, 30, 946-964.	3.3	163
78	In Silico Prediction of Physicochemical Properties of Environmental Chemicals Using Molecular Fingerprints and Machine Learning. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 36-49.	5.4	106
79	Screening for angiogenic inhibitors in zebrafish to evaluate a predictive model for developmental vascular toxicity. <i>Reproductive Toxicology</i> , 2017, 70, 70-81.	2.9	36
80	Identification of vascular disruptor compounds by analysis in zebrafish embryos and mouse embryonic endothelial cells. <i>Reproductive Toxicology</i> , 2017, 70, 60-69.	2.9	17
81	Multivariate models for prediction of human skin sensitization hazard. <i>Journal of Applied Toxicology</i> , 2017, 37, 347-360.	2.8	58
82	Cosmetics Europe assessment of non-animal approaches for predicting skin sensitization. <i>Toxicology Letters</i> , 2017, 280, S129.	0.8	1
83	Low-Dose Mixture Hypothesis of Carcinogenesis Workshop: Scientific Underpinnings and Research Recommendations. <i>Environmental Health Perspectives</i> , 2017, 125, 163-169.	6.0	35
84	An Integrated Chemical Environment to Support 21st-Century Toxicology. <i>Environmental Health Perspectives</i> , 2017, 125, 054501.	6.0	41
85	A design thinking approach to primary ovarian insufficiency. <i>Panminerva Medica</i> , 2017, 59, 15-32.	0.8	13
86	A Curated Database of Rodent Uterotrophic Bioactivity. <i>Environmental Health Perspectives</i> , 2016, 124, 556-562.	6.0	85
87	Editor's Highlight: Analysis of the Effects of Cell Stress and Cytotoxicity on <i>In Vitro</i> Assay Activity Across a Diverse Chemical and Assay Space. <i>Toxicological Sciences</i> , 2016, 152, 323-339.	3.1	171
88	Integration of Life-Stage Physiologically Based Pharmacokinetic Models with Adverse Outcome Pathways and Environmental Exposure Models to Screen for Environmental Hazards. <i>Toxicological Sciences</i> , 2016, 152, 230-243.	3.1	35
89	QSAR models of human data can enrich or replace LLNA testing for human skin sensitization. <i>Green Chemistry</i> , 2016, 18, 6501-6515.	9.0	42
90	Integrated decision strategies for skin sensitization hazard. <i>Journal of Applied Toxicology</i> , 2016, 36, 1150-1162.	2.8	87

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91	Toward Good Read-Across Practice (GRAP) guidance. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 149-166.	1.5	134
92	Supporting read-across using biological data. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 167-182.	1.5	78
93	A Vision of Toxicity Testing in the 21st Century. Applied in Vitro Toxicology, 2015, 1, 10-15.	1.1	3
94	Application of Reverse Dosimetry to Compare <i>In Vitro</i> and <i>In Vivo</i> Estrogen Receptor Activity. Applied in Vitro Toxicology, 2015, 1, 33-44.	1.1	19
95	Predicting chemically-induced skin reactions. Part II: QSAR models of skin permeability and the relationships between skin permeability and skin sensitization. Toxicology and Applied Pharmacology, 2015, 284, 273-280.	2.8	53
96	Predicting chemically-induced skin reactions. Part I: QSAR models of skin sensitization and their application to identify potentially hazardous compounds. Toxicology and Applied Pharmacology, 2015, 284, 262-272.	2.8	72
97	Screening Chemicals for Estrogen Receptor Bioactivity Using a Computational Model. Environmental Science & Technology, 2015, 49, 8804-8814.	10.0	224
98	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: the challenge ahead. Carcinogenesis, 2015, 36, S254-S296.	2.8	239
99	Assessing the carcinogenic potential of low-dose exposures to chemical mixtures in the environment: focus on the cancer hallmark of tumor angiogenesis. Carcinogenesis, 2015, 36, S184-S202.	2.8	41
100	Phenotypic screening of the ToxCast chemical library to classify toxic and therapeutic mechanisms. Nature Biotechnology, 2014, 32, 583-591.	17.5	175
101	Immediate and long-term consequences of vascular toxicity during zebrafish development. Reproductive Toxicology, 2014, 48, 51-61.	2.9	24
102	Open source software implementation of an integrated testing strategy for skin sensitization potency based on a Bayesian network. ALTEX: Alternatives To Animal Experimentation, 2014, 31, 336-340.	1.5	15
103	Predictive Models and Computational Toxicology. Methods in Molecular Biology, 2013, 947, 343-374.	0.9	40
104	A Computational Model Predicting Disruption of Blood Vessel Development. PLoS Computational Biology, 2013, 9, e1002996.	3.2	104
105	Dosimetric Anchoring of In Vivo and In Vitro Studies for Perfluorooctanoate and Perfluorooctanesulfonate. Toxicological Sciences, 2013, 136, 308-327.	3.1	44
106	In Vitro Perturbations of Targets in Cancer Hallmark Processes Predict Rodent Chemical Carcinogenesis. Toxicological Sciences, 2013, 131, 40-55.	3.1	67
107	A <i>C. elegans</i> Screening Platform for the Rapid Assessment of Chemical Disruption of Germline Function. Environmental Health Perspectives, 2013, 121, 717-724.	6.0	68
108	Incorporating Biological, Chemical, and Toxicological Knowledge Into Predictive Models of Toxicity. Toxicological Sciences, 2012, 130, 440-441.	3.1	21

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109	Update on EPA's ToxCast Program: Providing High Throughput Decision Support Tools for Chemical Risk Management. <i>Chemical Research in Toxicology</i> , 2012, 25, 1287-1302.	3.3	410
110	Zebrafish developmental screening of the ToxCast Phase I chemical library. <i>Reproductive Toxicology</i> , 2012, 33, 174-187.	2.9	267
111	Predictive Models of Prenatal Developmental Toxicity from ToxCast High-Throughput Screening Data. <i>Toxicological Sciences</i> , 2011, 124, 109-127.	3.1	186
112	Environmental Impact on Vascular Development Predicted by High-Throughput Screening. <i>Environmental Health Perspectives</i> , 2011, 119, 1596-1603.	6.0	112
113	Evaluation of 309 Environmental Chemicals Using a Mouse Embryonic Stem Cell Adherent Cell Differentiation and Cytotoxicity Assay. <i>PLoS ONE</i> , 2011, 6, e18540.	2.5	57
114	Identifying developmental toxicity pathways for a subset of ToxCast chemicals using human embryonic stem cells and metabolomics. <i>Toxicology and Applied Pharmacology</i> , 2011, 257, 111-121.	2.8	102
115	Disruption of embryonic vascular development in predictive toxicology. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2011, 93, 312-323.	3.6	74
116	Activity profiles of 309 ToxCast chemicals evaluated across 292 biochemical targets. <i>Toxicology</i> , 2011, 282, 1-15.	4.2	124
117	Predictive modeling and computational toxicology. , 2011, , 578-591.		1
118	Dynamic myogenic autoregulation in the rat kidney: a whole-organ model. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F1453-F1464.	2.7	23