

Matthew T Martin

List of Publications by Year in descending order

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54
papers

7,278
citations

81900

39
h-index

168389

53
g-index

55
all docs

55
docs citations

55
times ranked

4801
citing authors

#	ARTICLE	IF	CITATIONS
1	The ToxCast Program for Prioritizing Toxicity Testing of Environmental Chemicals. <i>Toxicological Sciences</i> , 2007, 95, 5-12.	3.1	851
2	<i>In Vitro</i> Screening of Environmental Chemicals for Targeted Testing Prioritization: The ToxCast Project. <i>Environmental Health Perspectives</i> , 2010, 118, 485-492.	6.0	519
3	ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology. <i>Chemical Research in Toxicology</i> , 2016, 29, 1225-1251.	3.3	456
4	The Toxicity Data Landscape for Environmental Chemicals. <i>Environmental Health Perspectives</i> , 2009, 117, 685-695.	6.0	418
5	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
6	Endocrine Profiling and Prioritization of Environmental Chemicals Using ToxCast Data. <i>Environmental Health Perspectives</i> , 2010, 118, 1714-1720.	6.0	274
7	Integrated Model of Chemical Perturbations of a Biological Pathway Using 18 <i>In Vitro</i> High-Throughput Screening Assays for the Estrogen Receptor. <i>Toxicological Sciences</i> , 2015, 148, 137-154.	3.1	251
8	Incorporating Human Dosimetry and Exposure into High-Throughput <i>In Vitro</i> Toxicity Screening. <i>Toxicological Sciences</i> , 2010, 117, 348-358.	3.1	222
9	Toxicogenomic Study of Triazole Fungicides and Perfluoroalkyl Acids in Rat Livers Predicts Toxicity and Categorizes Chemicals Based on Mechanisms of Toxicity. <i>Toxicological Sciences</i> , 2007, 97, 595-613.	3.1	217
10	ACToR "Aggregated Computational Toxicology Resource". <i>Toxicology and Applied Pharmacology</i> , 2008, 233, 7-13.	2.8	195
11	Impact of Environmental Chemicals on Key Transcription Regulators and Correlation to Toxicity End Points within EPA's ToxCast Program. <i>Chemical Research in Toxicology</i> , 2010, 23, 578-590.	3.3	190
12	Estimating Toxicity-Related Biological Pathway Altering Doses for High-Throughput Chemical Risk Assessment. <i>Chemical Research in Toxicology</i> , 2011, 24, 451-462.	3.3	188
13	Profiling Chemicals Based on Chronic Toxicity Results from the U.S. EPA ToxRef Database. <i>Environmental Health Perspectives</i> , 2009, 117, 392-399.	6.0	187
14	Predictive Models of Prenatal Developmental Toxicity from ToxCast High-Throughput Screening Data. <i>Toxicological Sciences</i> , 2011, 124, 109-127.	3.1	186
15	Phenotypic screening of the ToxCast chemical library to classify toxic and therapeutic mechanisms. <i>Nature Biotechnology</i> , 2014, 32, 583-591.	17.5	175
16	tcpl: the ToxCast pipeline for high-throughput screening data. <i>Bioinformatics</i> , 2017, 33, 618-620.	4.1	166
17	Development and Validation of a Computational Model for Androgen Receptor Activity. <i>Chemical Research in Toxicology</i> , 2017, 30, 946-964.	3.3	163
18	Analysis of Eight Oil Spill Dispersants Using Rapid, <i>In Vitro</i> Tests for Endocrine and Other Biological Activity. <i>Environmental Science & Technology</i> , 2010, 44, 5979-5985.	10.0	162

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19	Profiling 976 ToxCast Chemicals across 331 Enzymatic and Receptor Signaling Assays. <i>Chemical Research in Toxicology</i> , 2013, 26, 878-895.	3.3	162
20	Predictive Model of Rat Reproductive Toxicity from ToxCast High Throughput Screening1. <i>Biology of Reproduction</i> , 2011, 85, 327-339.	2.7	142
21	Using <i>in Vitro</i> High Throughput Screening Assays to Identify Potential Endocrine-Disrupting Chemicals. <i>Environmental Health Perspectives</i> , 2013, 121, 7-14.	6.0	134
22	Activity profiles of 309 ToxCast chemicals evaluated across 292 biochemical targets. <i>Toxicology</i> , 2011, 282, 1-15.	4.2	124
23	Predicting Hepatotoxicity Using ToxCast <i>in Vitro</i> Bioactivity and Chemical Structure. <i>Chemical Research in Toxicology</i> , 2015, 28, 738-751.	3.3	124
24	Profiling the Reproductive Toxicity of Chemicals from Multigeneration Studies in the Toxicity Reference Database. <i>Toxicological Sciences</i> , 2009, 110, 181-190.	3.1	120
25	Perspectives on validation of high-throughput assays supporting 21st century toxicity testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2013, 30, 51-66.	1.5	118
26	Profiling the activity of environmental chemicals in prenatal developmental toxicity studies using the U.S. EPA's ToxRefDB. <i>Reproductive Toxicology</i> , 2009, 28, 209-219.	2.9	116
27	Aggregating Data for Computational Toxicology Applications: The U.S. Environmental Protection Agency (EPA) Aggregated Computational Toxicology Resource (ACToR) System. <i>International Journal of Molecular Sciences</i> , 2012, 13, 1805-1831.	4.1	103
28	An "EAR" on Environmental Surveillance and Monitoring: A Case Study on the Use of Exposure-Activity Ratios (EARs) to Prioritize Sites, Chemicals, and Bioactivities of Concern in Great Lakes Waters. <i>Environmental Science & Technology</i> , 2017, 51, 8713-8724.	10.0	81
29	<i>In Vitro</i> Perturbations of Targets in Cancer Hallmark Processes Predict Rodent Chemical Carcinogenesis. <i>Toxicological Sciences</i> , 2013, 131, 40-55.	3.1	67
30	Using ToxCast Data to Reconstruct Dynamic Cell State Trajectories and Estimate Toxicological Points of Departure. <i>Environmental Health Perspectives</i> , 2016, 124, 910-919.	6.0	65
31	ToxRefDB version 2.0: Improved utility for predictive and retrospective toxicology analyses. <i>Reproductive Toxicology</i> , 2019, 89, 145-158.	2.9	56
32	Use of high-throughput <i>in vitro</i> toxicity screening data in cancer hazard evaluations by IARC Monograph Working Groups. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2018, 35, 51-64.	1.5	54
33	Xenobiotic-Metabolizing Enzyme and Transporter Gene Expression in Primary Cultures of Human Hepatocytes Modulated by ToxCast Chemicals. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2010, 13, 329-346.	6.5	53
34	Evaluation of food-relevant chemicals in the ToxCast high-throughput screening program. <i>Food and Chemical Toxicology</i> , 2016, 92, 188-196.	3.6	53
35	Systems Toxicology of Male Reproductive Development: Profiling 774 Chemicals for Molecular Targets and Adverse Outcomes. <i>Environmental Health Perspectives</i> , 2016, 124, 1050-1061.	6.0	49
36	Using Nuclear Receptor Activity to Stratify Hepatocarcinogens. <i>PLoS ONE</i> , 2011, 6, e14584.	2.5	48

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37	Screening the ToxCast phase II libraries for alterations in network function using cortical neurons grown on multi-well microelectrode array (mwMEA) plates. <i>Archives of Toxicology</i> , 2018, 92, 487-500.	4.2	46
38	Dosimetric Anchoring of In Vivo and In Vitro Studies for Perfluorooctanoate and Perfluorooctanesulfonate. <i>Toxicological Sciences</i> , 2013, 136, 308-327.	3.1	44
39	Real-Time Growth Kinetics Measuring Hormone Mimicry for ToxCast Chemicals in T-47D Human Ductal Carcinoma Cells. <i>Chemical Research in Toxicology</i> , 2013, 26, 1097-1107.	3.3	41
40	Predictive Models and Computational Toxicology. <i>Methods in Molecular Biology</i> , 2013, 947, 343-374.	0.9	40
41	High-Throughput H295R Steroidogenesis Assay: Utility as an Alternative and a Statistical Approach to Characterize Effects on Steroidogenesis. <i>Toxicological Sciences</i> , 2018, 162, 509-534.	3.1	39
42	Variability in in vivo studies: Defining the upper limit of performance for predictions of systemic effect levels. <i>Computational Toxicology</i> , 2020, 15, 100126.	3.3	37
43	Incorporating Biological, Chemical, and Toxicological Knowledge Into Predictive Models of Toxicity. <i>Toxicological Sciences</i> , 2012, 130, 440-441.	3.1	21
44	Economic benefits of using adaptive predictive models of reproductive toxicity in the context of a tiered testing program. <i>Systems Biology in Reproductive Medicine</i> , 2012, 58, 3-9.	2.1	17
45	Retrospective mining of toxicology data to discover multispecies and chemical class effects: Anemia as a case study. <i>Regulatory Toxicology and Pharmacology</i> , 2017, 86, 74-92.	2.7	15
46	Comparing rat and rabbit embryo-fetal developmental toxicity data for 379 pharmaceuticals: on systemic dose and developmental effects. <i>Critical Reviews in Toxicology</i> , 2017, 47, 409-421.	3.9	15
47	Editor's Highlight: Negative Predictors of Carcinogenicity for Environmental Chemicals. <i>Toxicological Sciences</i> , 2017, 155, 157-169.	3.1	11
48	Predicting in vivo effect levels for repeat-dose systemic toxicity using chemical, biological, kinetic and study covariates. <i>Archives of Toxicology</i> , 2018, 92, 587-600.	4.2	11
49	Use of Neural Models of Proliferation and Neurite Outgrowth to Screen Environmental Chemicals in the ToxCast Phase I Library. <i>Applied in Vitro Toxicology</i> , 2015, 1, 131-139.	1.1	10
50	Novel application of normalized pointwise mutual information (NPMI) to mine biomedical literature for gene sets associated with disease: Use case in breast carcinogenesis. <i>Computational Toxicology</i> , 2018, 7, 46-57.	3.3	9
51	Assessing bioactivity-exposure profiles of fruit and vegetable extracts in the BioMAP profiling system. <i>Toxicology in Vitro</i> , 2019, 54, 41-57.	2.4	8
52	Profiling 58 compounds including cosmetic-relevant chemicals using ToxRefDB and ToxCast. <i>Food and Chemical Toxicology</i> , 2019, 132, 110718.	3.6	7
53	Comment on "On the Utility of ToxCast and ToxPi as Methods for Identifying New Obesogens" Environmental Health Perspectives, 2017, 125, A8-A11.	6.0	6
54	U.S. EPA's Toxicity Reference Database: Martin and Dix Respond. <i>Environmental Health Perspectives</i> , 2009, 117, .	6.0	0