Matthew T Martin

List of Publications by Citations

55 papers	5,936 citations	37 h-index	55 g-index
55 ext. papers	6,680 ext. citations	5.7 avg, IF	5.19 L-index

#	Paper	IF	Citations
55	The ToxCast program for prioritizing toxicity testing of environmental chemicals. *Toxicological Sciences*, **2007**, 95, 5-12	4.4	678
54	In vitro screening of environmental chemicals for targeted testing prioritization: the ToxCast project. *Environmental Health Perspectives*, **2010**, 118, 485-92	8.4	439
53	Update on EPA's ToxCast program: providing high throughput decision support tools for chemical risk management. *Chemical Research in Toxicology*, **2012**, 25, 1287-302	4	357
52	The toxicity data landscape for environmental chemicals. *Environmental Health Perspectives*, **2009**, 117, 685-95	8.4	340
51	ToxCast Chemical Landscape: Paving the Road to 21st Century Toxicology. *Chemical Research in Toxicology*, **2016**, 29, 1225-51	4	301
50	Endocrine profiling and prioritization of environmental chemicals using ToxCast data. *Environmental Health Perspectives*, **2010**, 118, 1714-20	8.4	231
49	Integrated Model of Chemical Perturbations of a Biological Pathway Using 18 In Vitro High-Throughput Screening Assays for the Estrogen Receptor. *Toxicological Sciences*, **2015**, 148, 137-54	4.4	201
48	Incorporating human dosimetry and exposure into high-throughput in vitro toxicity screening. *Toxicological Sciences*, **2010**, 117, 348-58	4.4	189
47	Toxicogenomic study of triazole fungicides and perfluoroalkyl acids in rat livers predicts toxicity and categorizes chemicals based on mechanisms of toxicity. *Toxicological Sciences*, **2007**, 97, 595-613	4.4	176
46	Estimating toxicity-related biological pathway altering doses for high-throughput chemical risk assessment. *Chemical Research in Toxicology*, **2011**, 24, 451-62	4	166
45	Impact of environmental chemicals on key transcription regulators and correlation to toxicity end points within EPA's ToxCast program. *Chemical Research in Toxicology*, **2010**, 23, 578-90	4	164
44	ACToR--Aggregated Computational Toxicology Resource. *Toxicology and Applied Pharmacology*, **2008**, 233, 7-13	4.6	164
43	Profiling chemicals based on chronic toxicity results from the U.S. EPA ToxRef Database. *Environmental Health Perspectives*, **2009**, 117, 392-9	8.4	163
42	Predictive models of prenatal developmental toxicity from ToxCast high-throughput screening data. *Toxicological Sciences*, **2011**, 124, 109-27	4.4	155
41	Profiling 976 ToxCast chemicals across 331 enzymatic and receptor signaling assays. *Chemical Research in Toxicology*, **2013**, 26, 878-95	4	145
40	Phenotypic screening of the ToxCast chemical library to classify toxic and therapeutic mechanisms. *Nature Biotechnology*, **2014**, 32, 583-91	44.5	141
39	Analysis of eight oil spill dispersants using rapid, in vitro tests for endocrine and other biological activity. *Environmental Science & Technology*, **2010**, 44, 5979-85	10.3	127

38	Predictive model of rat reproductive toxicity from ToxCast high throughput screening. *Biology of Reproduction*, **2011**, 85, 327-39	3.9	122
37	Using in vitro high throughput screening assays to identify potential endocrine-disrupting chemicals. *Environmental Health Perspectives*, **2013**, 121, 7-14	8.4	119
36	Activity profiles of 309 ToxCast chemicals evaluated across 292 biochemical targets. *Toxicology*, **2011**, 282, 1-15	4.4	115
35	Development and Validation of a Computational Model for Androgen Receptor Activity. *Chemical Research in Toxicology*, **2017**, 30, 946-964	4	114
34	Profiling the reproductive toxicity of chemicals from multigeneration studies in the toxicity reference database. *Toxicological Sciences*, **2009**, 110, 181-90	4.4	105
33	Perspectives on validation of high-throughput assays supporting 21st century toxicity testing. *ALTEX: Alternatives To Animal Experimentation*, **2013**, 30, 51-6	4.3	105
32	Profiling the activity of environmental chemicals in prenatal developmental toxicity studies using the U.S. EPA's ToxRefDB. *Reproductive Toxicology*, **2009**, 28, 209-19	3.4	98
31	Predicting hepatotoxicity using ToxCast in vitro bioactivity and chemical structure. *Chemical Research in Toxicology*, **2015**, 28, 738-51	4	96
30	Aggregating data for computational toxicology applications: The U.S. Environmental Protection Agency (EPA) Aggregated Computational Toxicology Resource (ACToR) System. *International Journal of Molecular Sciences*, **2012**, 13, 1805-31	6.3	89
29	U.S. EPA Toxicity Reference Database: Martin and Dix Respond. *Environmental Health Perspectives*, **2009**, 117,	8.4	78
28	tcpl: the ToxCast pipeline for high-throughput screening data. *Bioinformatics*, **2017**, 33, 618-620	7.2	66
27	In vitro perturbations of targets in cancer hallmark processes predict rodent chemical carcinogenesis. *Toxicological Sciences*, **2013**, 131, 40-55	4.4	60
26	Using ToxCast Data to Reconstruct Dynamic Cell State Trajectories and Estimate Toxicological Points of Departure. *Environmental Health Perspectives*, **2016**, 124, 910-9	8.4	55
25	Xenobiotic-metabolizing enzyme and transporter gene expression in primary cultures of human hepatocytes modulated by ToxCast chemicals. *Journal of Toxicology and Environmental Health - Part B: Critical Reviews*, **2010**, 13, 329-46	8.6	47
24	Use of high-throughput in vitro toxicity screening data in cancer hazard evaluations by IARC Monograph Working Groups. *ALTEX: Alternatives To Animal Experimentation*, **2018**, 35, 51-64	4.3	47
23	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. *Environmental Science & Technology*, **2017**, 51, 8713-8724	10.3	45
22	Evaluation of food-relevant chemicals in the ToxCast high-throughput screening program. *Food and Chemical Toxicology*, **2016**, 92, 188-96	4.7	44
21	Using nuclear receptor activity to stratify hepatocarcinogens. *PLoS ONE*, **2011**, 6, e14584	3.7	43

20	Dosimetric anchoring of in vivo and in vitro studies for perfluorooctanoate and perfluorooctanesulfonate. *Toxicological Sciences*, **2013**, 136, 308-27	4.4	39
19	Systems Toxicology of Male Reproductive Development: Profiling 774 Chemicals for Molecular Targets and Adverse Outcomes. *Environmental Health Perspectives*, **2016**, 124, 1050-61	8.4	38
18	Screening the ToxCast phase II libraries for alterations in network function using cortical neurons grown on multi-well microelectrode array (mwMEA) plates. *Archives of Toxicology*, **2018**, 92, 487-500	5.8	36
17	Predictive models and computational toxicology. *Methods in Molecular Biology*, **2013**, 947, 343-74	1.4	35
16	Real-time growth kinetics measuring hormone mimicry for ToxCast chemicals in T-47D human ductal carcinoma cells. *Chemical Research in Toxicology*, **2013**, 26, 1097-107	4	34
15	ToxRefDB version 2.0: Improved utility for predictive and retrospective toxicology analyses. *Reproductive Toxicology*, **2019**, 89, 145-158	3.4	30
14	High-Throughput H295R Steroidogenesis Assay: Utility as an Alternative and a Statistical Approach to Characterize Effects on Steroidogenesis. *Toxicological Sciences*, **2018**, 162, 509-534	4.4	24
13	Incorporating biological, chemical, and toxicological knowledge into predictive models of toxicity. *Toxicological Sciences*, **2012**, 130, 440-1; author reply 442-3	4.4	20
12	Comparing rat and rabbit embryo-fetal developmental toxicity data for 379 pharmaceuticals: on systemic dose and developmental effects. *Critical Reviews in Toxicology*, **2017**, 47, 402-414	5.7	12
11	Economic benefits of using adaptive predictive models of reproductive toxicity in the context of a tiered testing program. *Systems Biology in Reproductive Medicine*, **2012**, 58, 3-9	2.9	12
10	Variability in studies: Defining the upper limit of performance for predictions of systemic effect levels. *Computational Toxicology*, **2020**, 15, 1-100126	3.1	11
9	Retrospective mining of toxicology data to discover multispecies and chemical class effects: Anemia as a case study. *Regulatory Toxicology and Pharmacology*, **2017**, 86, 74-92	3.4	10
8	Use of Neural Models of Proliferation and Neurite Outgrowth to Screen Environmental Chemicals in the ToxCast Phase I Library. *Applied in Vitro Toxicology*, **2015**, 1, 131-139	1.3	10
7	Editor's Highlight: Negative Predictors of Carcinogenicity for Environmental Chemicals. *Toxicological Sciences*, **2017**, 155, 157-169	4.4	10
6	Predicting in vivo effect levels for repeat-dose systemic toxicity using chemical, biological, kinetic and study covariates. *Archives of Toxicology*, **2018**, 92, 587-600	5.8	7
5	Comment on "On the Utility of ToxCast and ToxPi as Methods for Identifying New Obesogens". *Environmental Health Perspectives*, **2017**, 125, A8-A11	8.4	6
4	Assessing bioactivity-exposure profiles of fruit and vegetable extracts in the BioMAP profiling system. *Toxicology in Vitro*, **2019**, 54, 41-57	3.6	6
3	Novel application of normalized pointwise mutual information (NPMI) to mine biomedical literature for gene sets associated with disease: use case in breast carcinogenesis. *Computational Toxicology*, **2018**, 7, 46-57	3.1	6

2	Profiling 58 compounds including cosmetic-relevant chemicals using ToxRefDB and ToxCast. *Food and Chemical Toxicology*, **2019**, 132, 110718	4.7	4
1	ToxCast: Predicting Toxicity Potential Through High-Throughput Bioactivity Profiling **2013**, 1-31		1