Ivan Rusyn

List of Publications by Year in descending order

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260 papers	25,523 citations	15504 65 h-index	8866 145 g-index
267 all docs	267 docs citations	267 times ranked	44690 citing authors

#	Article	IF	Citations
1	The Genotype-Tissue Expression (GTEx) project. Nature Genetics, 2013, 45, 580-585.	21.4	6,815
2	The Genotype-Tissue Expression (GTEx) pilot analysis: Multitissue gene regulation in humans. Science, 2015, 348, 648-660.	12.6	4,659
3	Carcinogenicity of tetrachlorvinphos, parathion, malathion, diazinon, and glyphosate. Lancet Oncology, The, 2015, 16, 490-491.	10.7	642
4	NADPH oxidaseâ€“derived free radicals are key oxidants in alcohol-induced liver disease. Journal of Clinical Investigation, 2000, 106, 867-872.	8.2	440
5	Standardizing global gene expression analysis between laboratories and across platforms. Nature Methods, 2005, 2, 351-356.	19.0	416
6	Key Characteristics of Carcinogens as a Basis for Organizing Data on Mechanisms of Carcinogenesis. Environmental Health Perspectives, 2016, 124, 713-721.	6.0	415
7	In vitro models for liver toxicity testing. Toxicology Research, 2013, 2, 23-39.	2.1	368
8	Role of the Kupffer Cell in Mediating Hepatic Toxicity and Carcinogenesis. Toxicological Sciences, 2006, 96, 2-15.	3.1	269
9	Effect of predicted protein-truncating genetic variants on the human transcriptome. Science, 2015, 348, 666-669.	12.6	252
10	The role of kupffer cell oxidant production in early ethanol-induced liver disease,. Free Radical Biology and Medicine, 2001, 31, 1544-1549.	2.9	231
11	Modes of Action and Species-Specific Effects of Di-(2-ethylhexyl)Phthalate in the Liver. Critical Reviews in Toxicology, 2006, 36, 459-479.	3.9	225
12	Predicting Drug-Induced Hepatotoxicity Using QSAR and Toxicogenomics Approaches. Chemical Research in Toxicology, 2011, 24, 1251-1262.	3.3	190
13	Mouse population-guided resequencing reveals that variants in CD44 contribute to acetaminophen-induced liver injury in humans. Genome Research, 2009, 19, 1507-1515.	5.5	165
14	Difference in expression of hepatic microRNAs miR-29c, miR-34a, miR-155, and miR-200b is associated with strain-specific susceptibility to dietary nonalcoholic steatohepatitis in mice. Laboratory Investigation, 2010, 90, 1437-1446.	3.7	165
15	Hepatic epigenetic phenotype predetermines individual susceptibility to hepatic steatosis in mice fed a lipogenic methyl-deficient diet. Journal of Hepatology, 2009, 51, 176-186.	3.7	161
16	Role of epigenetic aberrations in the development and progression of human hepatocellular carcinoma. Cancer Letters, 2014, 342, 223-230.	7.2	161
17	Cytochrome P450 CYP2E1, but not nicotinamide adenine dinucleotide phosphate oxidase, is required for ethanol-induced oxidative DNA damage in rodent liver. Hepatology, 2005, 41, 336-344.	7.3	147
18	Differences in the carcinogenic evaluation of glyphosate between the International Agency for Research on Cancer (IARC) and the European Food Safety Authority (EFSA). Journal of Epidemiology and Community Health, 2016, 70, 741-745.	3.7	138

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19	Epigenetic alterations induced by genotoxic occupational and environmental human chemical carcinogens: A systematic literature review. Mutation Research - Reviews in Mutation Research, 2016, 768, 27-45.	5.5	137
20	Towards high-throughput metabolomics using ultrahigh-field Fourier transform ion cyclotron resonance mass spectrometry. Metabolomics, 2008, 4, 128-140.	3.0	136
21	Multiparameter In Vitro Assessment of Compound Effects on Cardiomyocyte Physiology Using iPSC Cells. Journal of Biomolecular Screening, 2013, 18, 39-53.	2.6	130
22	Defective HNF4alpha-dependent gene expression as a driver of hepatocellular failure in alcoholic hepatitis. Nature Communications, 2019, 10, 3126.	12.8	124
23	Biology-inspired microphysiological systems to advance medicines for patient benefit and animal welfare. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 365-394.	1.5	123
24	Peroxisome proliferator-activated receptor Â is restricted to hepatic parenchymal cells, not Kupffer cells: implications for the mechanism of action of peroxisome proliferators in hepatocarcinogenesis. Carcinogenesis, 2000, 21, 823-826.	2.8	122
25	Role of peroxisome proliferator-activated receptor-Â (PPARÂ) in bezafibrate-induced hepatocarcinogenesis and cholestasis. Carcinogenesis, 2004, 26, 219-227.	2.8	119
26	Predictive Power of Biomarkers of Oxidative Stress and Inflammation in Patients with Hepatitis C Virus-Associated Hepatocellular Carcinoma. Annals of Surgical Oncology, 2007, 14, 1182-1190.	1.5	115
27	Addressing Human Variability in Next-Generation Human Health Risk Assessments of Environmental Chemicals. Environmental Health Perspectives, 2013, 121, 23-31.	6.0	115
28	Assessment of beating parameters in human induced pluripotent stem cells enables quantitative in vitro screening for cardiotoxicity. Toxicology and Applied Pharmacology, 2013, 273, 500-507.	2.8	112
29	High-Content Assays for Hepatotoxicity Using Induced Pluripotent Stem Cellâ€“Derived Cells. Assay and Drug Development Technologies, 2014, 12, 43-54.	1.2	111
30	The DEN and CCl₄â€Induced Mouse Model of Fibrosis and Inflammationâ€Associated Hepatocellular Carcinoma. Current Protocols in Pharmacology, 2014, 66, 14.30.1-10.	4.0	109
31	Integrative Chemicalâ€“Biological Read-Across Approach for Chemical Hazard Classification. Chemical Research in Toxicology, 2013, 26, 1199-1208.	3.3	107
32	High-Content Assay Multiplexing for Toxicity Screening in Induced Pluripotent Stem Cell-Derived Cardiomyocytes and Hepatocytes. Assay and Drug Development Technologies, 2015, 13, 529-546.	1.2	107
33	Modeling Liver-Related Adverse Effects of Drugs Using kNearest Neighbor Quantitative Structureâ"Activity Relationship Method. Chemical Research in Toxicology, 2010, 23, 724-732.	3.3	104
34	Use of in Vitro HTS-Derived Concentrationâ€“Response Data as Biological Descriptors Improves the Accuracy of QSAR Models of in Vivo Toxicity. Environmental Health Perspectives, 2011, 119, 364-370.	6.0	103
35	Methyl Deficiency, Alterations in Global Histone Modifications, and Carcinogenesis. Journal of Nutrition, 2007, 137, 216S-222S.	2.9	102
36	Mechanistic considerations for human relevance of cancer hazard of di(2-ethylhexyl) phthalate. Mutation Research - Reviews in Mutation Research, 2012, 750, 141-158.	5.5	100

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37	Environmental Toxicants, Epigenetics, and Cancer. Advances in Experimental Medicine and Biology, 2013, 754, 215-232.	1.6	99
38	Plasma microRNAs are sensitive indicators of inter-strain differences in the severity of liver injury induced in mice by a choline- and folate-deficient diet. Toxicology and Applied Pharmacology, 2012, 262, 52-59.	2.8	98
39	Expression of base excision DNA repair genes as a biomarker of oxidative DNA damage. Cancer Letters, 2005, 229, 1-11.	7.2	91
40	Application of the key characteristics of carcinogens in cancer hazard identification. Carcinogenesis, 2018, 39, 614-622.	2.8	90
41	Expression of Base Excision DNA Repair Genes Is a Sensitive Biomarker for in Vivo Detection of Chemical-induced Chronic Oxidative Stress. Cancer Research, 2004, 64, 1050-1057.	0.9	89
42	Trichloroethylene biotransformation and its role in mutagenicity, carcinogenicity and target organ toxicity. Mutation Research - Reviews in Mutation Research, 2014, 762, 22-36.	5.5	89
43	Chemical Safety Assessment Using Read-Across: Assessing the Use of Novel Testing Methods to Strengthen the Evidence Base for Decision Making. Environmental Health Perspectives, 2015, 123, 1232-1240.	6.0	89
44	Population-Based in Vitro Hazard and Concentrationâ€“Response Assessment of Chemicals: The 1000 Genomes High-Throughput Screening Study. Environmental Health Perspectives, 2015, 123, 458-466.	6.0	89
45	Population-Based Discovery of Toxicogenomics Biomarkers for Hepatotoxicity Using a Laboratory Strain Diversity Panel. Toxicological Sciences, 2009, 110, 235-243.	3.1	88
46	Indoor Air Pollutants and Health in the United Arab Emirates. Environmental Health Perspectives, 2012, 120, 687-694.	6.0	88
47	Trichloroethylene: Mechanistic, epidemiologic and other supporting evidence of carcinogenic hazard. , 2014, 141, 55-68.		88
48	Prediction of human population responses to toxic compounds by a collaborative competition. Nature Biotechnology, 2015, 33, 933-940.	17.5	88
49	ToxPi Graphical User Interface 2.0: Dynamic exploration, visualization, and sharing of integrated data models. BMC Bioinformatics, 2018, 19, 80.	2.6	87
50	Phthalates Rapidly Increase Production of Reactive Oxygen Species in Vivo: Role of Kupffer Cells. Molecular Pharmacology, 2001, 59, 744-750.	2.3	86
51	IARC Monographs: 40 Years of Evaluating Carcinogenic Hazards to Humans. Environmental Health Perspectives, 2015, 123, 507-514.	6.0	86
52	Molecular Mechanisms of Fibrosis-Associated Promotion of Liver Carcinogenesis. Toxicological Sciences, 2013, 132, 53-63.	3.1	84
53	Mouse Liver Effects of Cyproconazole, a Triazole Fungicide: Role of the Constitutive Androstane Receptor. Toxicological Sciences, 2007, 99, 315-325.	3.1	83
54	Use of Cell Viability Assay Data Improves the Prediction Accuracy of Conventional Quantitative Structureâ€“Activity Relationship Models of Animal Carcinogenicity. Environmental Health Perspectives, 2008, 116, 506-513.	6.0	82

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55	Standardizing Benchmark Dose Calculations to Improve Science-Based Decisions in Human Health Assessments. Environmental Health Perspectives, 2014, 122, 499-505.	6.0	82
56	Multicenter Study of Acetaminophen Hepatotoxicity Reveals the Importance of Biological Endpoints in Genomic Analyses. Toxicological Sciences, 2007, 99, 326-337.	3.1	79
57	Phenotypic Anchoring of Acetaminophen-Induced Oxidative Stress with Gene Expression Profiles in Rat Liver. Toxicological Sciences, 2006, 93, 213-222.	3.1	78
58	Identification of putative estrogen receptor-mediated endocrine disrupting chemicals using QSAR- and structure-based virtual screening approaches. Toxicology and Applied Pharmacology, 2013, 272, 67-76.	2.8	78
59	Inferring missing genotypes in large SNP panels using fast nearest-neighbor searches over sliding windows. Bioinformatics, 2007, 23, i401-i407.	4.1	77
60	ToxPi GUI: an interactive visualization tool for transparent integration of data from diverse sources of evidence. Bioinformatics, 2013, 29, 402-403.	4.1	74
61	The Next Generation of Risk Assessment Multi-Year Studyâ€"Highlights of Findings, Applications to Risk Assessment, and Future Directions. Environmental Health Perspectives, 2016, 124, 1671-1682.	6.0	74
62	Gene expression in nontumoral liver tissue and recurrence-free survival in hepatitis C virus-positive hepatocellular carcinoma. Molecular Cancer, 2010, 9, 74.	19.2	70
63	Heading Down the Wrong Pathway: on the Influence of Correlation within Gene Sets. BMC Genomics, 2010, 11, 574.	2.8	69
64	A chemicalâ€"biological similarity-based grouping of complex substances as a prototype approach for evaluating chemical alternatives. Green Chemistry, 2016, 18, 4407-4419.	9.0	69
65	Metabolomic profiling of a modified alcohol liquid diet model for liver injury in the mouse uncovers new markers of disease. Toxicology and Applied Pharmacology, 2008, 232, 236-243.	2.8	67
66	Protective effect of Juzenâ€taihoâ€to on hepatocarcinogenesis is mediated through the inhibition of Kupffer cellâ€induced oxidative stress. International Journal of Cancer, 2008, 123, 2503-2511.	5.1	66
67	ICAM-1 is involved in the mechanism of alcohol-induced liver injury: studies with knockout mice. American Journal of Physiology - Renal Physiology, 2001, 280, G1289-G1295.	3.4	65
68	The COVID-19 Pandemic Vulnerability Index (PVI) Dashboard: Monitoring County-Level Vulnerability Using Visualization, Statistical Modeling, and Machine Learning. Environmental Health Perspectives, 2021, 129, 17701.	6.0	65
69	Predictive Modeling of Chemical Hazard by Integrating Numerical Descriptors of Chemical Structures and Short-term Toxicity Assay Data. Toxicological Sciences, 2012, 127, 1-9.	3.1	64
70	High-Content High-Throughput Assays for Characterizing the Viability and Morphology of Human iPSC-Derived Neuronal Cultures. Assay and Drug Development Technologies, 2014, 12, 536-547.	1.2	63
71	Target Organ Metabolism, Toxicity, and Mechanisms of Trichloroethylene and Perchloroethylene: Key Similarities, Differences, and Data Gaps. Journal of Pharmacology and Experimental Therapeutics, 2016, 359, 110-123.	2.5	63
72	In vitro cardiotoxicity assessment of environmental chemicals using an organotypic human induced pluripotent stem cell-derived model. Toxicology and Applied Pharmacology, 2017, 322, 60-74.	2.8	62

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73	Mechanisms of HCV-induced liver cancer: What did we learn from in vitro and animal studies?. Cancer Letters, 2014, 345, 210-215.	7.2	61
74	A Novel Two-Step Hierarchical Quantitative Structureâ€“Activity Relationship Modeling Work Flow for Predicting Acute Toxicity of Chemicals in Rodents. Environmental Health Perspectives, 2009, 117, 1257-1264.	6.0	59
75	Alcohol and toxicity. Journal of Hepatology, 2013, 59, 387-388.	3.7	59
76	Technology Transfer of the Microphysiological Systems: A Case Study of the Human Proximal Tubule Tissue Chip. Scientific Reports, 2018, 8, 14882.	3.3	58
77	Novel Role of Oxidants in the Molecular Mechanism of Action of Peroxisome Proliferators. Antioxidants and Redox Signaling, 2000, 2, 607-621.	5.4	57
78	Spectrum of HNF1A Somatic Mutations in Hepatocellular Adenoma Differs From That in Patients With MODY3 and Suggests Genotoxic Damage. Diabetes, 2010, 59, 1836-1844.	0.6	57
79	Role of Kupffer cells and oxidants in signaling peroxisome proliferator-induced hepatocyte proliferation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2000, 448, 179-192.	1.0	56
80	A Pipeline for High-Throughput Concentration Response Modeling of Gene Expression for Toxicogenomics. Frontiers in Genetics, 2017, 8, 168.	2.3	55
81	Genomic Profiling in Nuclear Receptor-Mediated Toxicity. Toxicologic Pathology, 2007, 35, 474-494.	1.8	54
82	Development of an Ion Mobility Spectrometry-Orbitrap Mass Spectrometer Platform. Analytical Chemistry, 2016, 88, 12152-12160.	6.5	54
83	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.	1.5	54
84	Systems biology and functional genomics approaches for the identification of cellular responses to drug toxicity. Expert Opinion on Drug Metabolism and Toxicology, 2008, 4, 1379-1389.	3.3	53
85	Interstrain differences in liver injury and one-carbon metabolism in alcohol-fed mice. Hepatology, 2012, 56, 130-139.	7.3	52
86	Conditional Toxicity Value (CTV) Predictor: An In Silico Approach for Generating Quantitative Risk Estimates for Chemicals. Environmental Health Perspectives, 2018, 126, 057008.	6.0	52
87	Impaired Ras membrane association and activation in PPARÎ± knockout mice after partial hepatectomy. American Journal of Physiology - Renal Physiology, 2003, 284, G302-G312.	3.4	51
88	Effects of ethylene oxide and ethylene inhalation on DNA adducts, apurinic/apyrimidinic sites and expression of base excision DNA repair genes in rat brain, spleen, and liver. DNA Repair, 2005, 4, 1099-1110.	2.8	51
89	From â€œweight of evidenceâ€•to quantitative data integration using multicriteria decision analysis and Bayesian methods. ALTEX: Alternatives To Animal Experimentation, 2015, 32, 3-8.	1.5	50
90	Genome-level analysis of genetic regulation of liver gene expression networks. Hepatology, 2007, 46, 548-557.	7.3	49

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91	Interstrain Differences in the Liver Effects of Trichloroethylene in a Multistrain Panel of Inbred Mice. Toxicological Sciences, 2011, 120, 206-217.	3.1	49
92	Interstrain differences in the severity of liver injury induced by a cholineâ€•and folateâ€deficient diet in mice are associated with dysregulation of genes involved in lipid metabolism. FASEB Journal, 2012, 26, 4592-4602.	0.5	49
93	Epithelial splicing regulatory protein 2â€“mediated alternative splicing reprograms hepatocytes in severe alcoholic hepatitis. Journal of Clinical Investigation, 2020, 130, 2129-2145.	8.2	49
94	Mechanisms of peroxisome proliferator-induced DNA hypomethylation in rat liverâ˜†. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 644, 17-23.	1.0	48
95	Epigenetic Mechanisms of Mouse Interstrain Variability in Genotoxicity of the Environmental Toxicant 1,3-Butadiene. Toxicological Sciences, 2011, 122, 448-456.	3.1	48
96	Population-based toxicity screening in human induced pluripotent stem cell-derived cardiomyocytes. Toxicology and Applied Pharmacology, 2019, 381, 114711.	2.8	48
97	ROLE OF KUPFFER CELLS IN PEROXISOME PROLIFERATOR-INDUCED HEPATOCYTE PROLIFERATION*. Drug Metabolism Reviews, 1999, 31, 87-116.	3.6	47
98	Epigenetic aspects of genotoxic and nonâ€genotoxic hepatocarcinogenesis: Studies in rodents. Environmental and Molecular Mutagenesis, 2008, 49, 9-15.	2.2	47
99	Quantitative High-Throughput Screening for Chemical Toxicity in a Population-Based In Vitro Model. Toxicological Sciences, 2012, 126, 578-588.	3.1	47
100	A human population-based organotypic in vitro model for cardiotoxicity screening. ALTEX: Alternatives To Animal Experimentation, 2018, 35, 441-452.	1.5	47
101	MicroRNA deregulation in nonalcoholic steatohepatitis-associated liver carcinogenesis. Oncotarget, 2017, 8, 88517-88528.	1.8	46
102	Comparative analysis of promoter methylation and gene expression endpoints between tumorous and non-tumorous tissues from HCV-positive patients with hepatocellular carcinoma. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2010, 692, 26-33.	1.0	45
103	An integrative method for identification and prioritization of constituents of concern in produced water from onshore oil and gas extraction. Environment International, 2020, 134, 105280.	10.0	45
104	Toxicogenetics: population-based testing of drug and chemical safety in mouse models. Pharmacogenomics, 2010, 11, 1127-1136.	1.3	44
105	Epigenetic Alterations in Liver of C57BL/6J Mice after Short-Term Inhalational Exposure to 1,3-Butadiene. Environmental Health Perspectives, 2011, 119, 635-640.	6.0	43
106	Assessment of biological responses of EpiAirway 3-D cell constructs versus A549 cells for determining toxicity of ambient air pollution. Inhalation Toxicology, 2016, 28, 251-259.	1.6	43
107	A tiered, Bayesian approach to estimating population variability for regulatory decision-making. ALTEX: Alternatives To Animal Experimentation, 2017, 34, 377-388.	1.5	42
108	Epigenetic effects of the continuous exposure to peroxisome proliferator WY-14,643 in mouse liver are dependent upon peroxisome proliferator activated receptor Î±. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2007, 625, 62-71.	1.0	40

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109	Genetic and epigenetic changes in fibrosisâ€associated hepatocarcinogenesis in mice. International Journal of Cancer, 2014, 134, 2778-2788.	5.1	39
110	In vitro screening for population variability in toxicity of pesticide-containing mixtures. Environment International, 2015, 85, 147-155.	10.0	39
111	Pharmacokinetic analysis of trichloroethylene metabolism in male B6C3F1 mice: Formation and disposition of trichloroacetic acid, dichloroacetic acid, S-(1,2-dichlorovinyl)glutathione and S-(1,2-dichlorovinyl)-l-cysteine. Toxicology and Applied Pharmacology, 2009, 238, 90-99.	2.8	38
112	Liquid chromatography electrospray ionization tandem mass spectrometry analysis method for simultaneous detection of trichloroacetic acid, dichloroacetic acid, S-(1,2-dichlorovinyl)glutathione and S-(1,2-dichlorovinyl)-L-cysteine. Toxicology, 2009, 262, 230-238.	4.2	38
113	Physiologically Based Pharmacokinetic (PBPK) Modeling of Interstrain Variability in Trichloroethylene Metabolism in the Mouse. Environmental Health Perspectives, 2014, 122, 456-463.	6.0	38
114	An empirical Bayes approach for multiple tissue eQTL analysis. Biostatistics, 2018, 19, 391-406.	1.5	37
115	Adiponectin Lowers Glucose Production by Increasing SOGA. American Journal of Pathology, 2010, 177, 1936-1945.	3.8	36
116	Advancing chemical risk assessment decision-making with population variability data: challenges and opportunities. Mammalian Genome, 2018, 29, 182-189.	2.2	36
117	WY-14,643â€“Induced Cell Proliferation and Oxidative Stress in Mouse Liver are Independent of NADPH Oxidase. Toxicological Sciences, 2007, 98, 366-374.	3.1	35
118	FastMap: Fast eQTL mapping in homozygous populations. Bioinformatics, 2009, 25, 482-489.	4.1	35
119	Software Tools to Facilitate Systematic Review Used for Cancer Hazard Identification. Environmental Health Perspectives, 2018, 126, 104501.	6.0	35
120	Rapid Characterization of Emerging Per- and Polyfluoroalkyl Substances in Aqueous Film-Forming Foams Using Ion Mobility Spectrometryâ€“Mass Spectrometry. Environmental Science & Technology, 2020, 54, 15024-15034.	10.0	35
121	Integrative QTL analysis of gene expression and chromatin accessibility identifies multi-tissue patterns of genetic regulation. PLoS Genetics, 2020, 16, e1008537.	3.5	35
122	Development of an intragastric enteral model in the mouse: studies of alcohol-induced liver disease using knockout technology. Journal of Hepato-Biliary-Pancreatic Surgery, 2000, 7, 395-400.	2.0	34
123	Prediction of binding affinity and efficacy of thyroid hormone receptor ligands using QSAR and structure-based modeling methods. Toxicology and Applied Pharmacology, 2014, 280, 177-189.	2.8	34
124	Characterization of Variability in Toxicokinetics and Toxicodynamics of Tetrachloroethylene Using the Collaborative Cross Mouse Population. Environmental Health Perspectives, 2017, 125, 057006.	6.0	34
125	Risk Characterization and Probabilistic Concentrationâ€“Response Modeling of Complex Environmental Mixtures Using New Approach Methodologies (NAMs) Data from Organotypic in Vitro Human Stem Cell Assays. Environmental Health Perspectives, 2021, 129, 17004.	6.0	34
126	In Vitro Screening for Population Variability in Chemical Toxicity. Toxicological Sciences, 2011, 119, 398-407.	3.1	33

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127	Editorâ€™s Highlight: Collaborative Cross Mouse Population Enables Refinements to Characterization of the Variability in Toxicokinetics of Trichloroethylene and Provides Genetic Evidence for the Role of PPAR Pathway in Its Oxidative Metabolism. Toxicological Sciences, 2017, 158, 48-62.	3.1	32
128	Effects of pirfenidone in acute and sub-chronic liver fibrosis, and an initiation-promotion cancer model in the mouse. Toxicology and Applied Pharmacology, 2018, 339, 1-9.	2.8	32
129	Swift increase in alcohol metabolism (SIAM): understanding the phenomenon of hypermetabolism in liver. Alcohol, 2005, 35, 13-17.	1.7	31
130	Temporal correlation of pathology and DNA damage with gene expression in a choline-deficient model of rat liver injury. Hepatology, 2005, 42, 1137-1147.	7.3	31
131	Sex-specific gene expression in the BXD mouse liver. Physiological Genomics, 2010, 42, 456-468.	2.3	30
132	Increased incidence of aflatoxin B1â€•induced liver tumors in hepatitis virus C transgenic mice. International Journal of Cancer, 2012, 130, 1347-1356.	5.1	30
133	Hepatic lipocalin 2 promotes liver fibrosis and portal hypertension. Scientific Reports, 2020, 10, 15558.	3.3	30
134	Mechanism for Prevention of Alcohol-Induced Liver Injury by Dietary Methyl Donors. Toxicological Sciences, 2010, 115, 131-139.	3.1	29
135	Key Characteristics of Human Hepatotoxicants as a Basis for Identification and Characterization of the Causes of Liver Toxicity. Hepatology, 2021, 74, 3486-3496.	7.3	29
136	Strainâ€•dependent dysregulation of oneâ€•carbon metabolism in male mice is associated with cholineâ€•and folateâ€•deficient dietâ€•induced liver injury. FASEB Journal, 2013, 27, 2233-2243.	0.5	28
137	Gene Expression and DNA Methylation Alterations in the Glycine N-Methyltransferase Gene in Diet-Induced Nonalcoholic Fatty Liver Disease-Associated Carcinogenesis. Toxicological Sciences, 2019, 170, 273-282.	3.1	28
138	Predicting tubular reabsorption with a human kidney proximal tubule tissue-on-a-chip and physiologically-based modeling. Toxicology in Vitro, 2020, 63, 104752.	2.4	28
139	Epigenetic Events Determine Tissue-Specific Toxicity of Inhalational Exposure to the Genotoxic Chemical 1,3-Butadiene in Male C57BL/6J Mice. Toxicological Sciences, 2014, 142, 375-384.	3.1	27
140	Comparative Analysis of the Relationship Between Trichloroethylene Metabolism and Tissue-Specific Toxicity Among Inbred Mouse Strains: Liver Effects. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2015, 78, 15-31.	2.3	27
141	Joint Effects of Alcohol Consumption and Polymorphisms in Alcohol and Oxidative Stress Metabolism Genes on Risk of Head and Neck Cancer. Cancer Epidemiology Biomarkers and Prevention, 2011, 20, 2438-2449.	2.5	26
142	Human in vitro vascularized micro-organ and micro-tumor models are reproducible organ-on-a-chip platforms for studies of anticancer drugs. Toxicology, 2020, 445, 152601.	4.2	25
143	Time-course comparison of xenobiotic activators of CAR and PPARÎ± in mouse liver. Toxicology and Applied Pharmacology, 2009, 235, 199-207.	2.8	24
144	High-Content Assay Multiplexing for Vascular Toxicity Screening in Induced Pluripotent Stem Cell-Derived Endothelial Cells and Human Umbilical Vein Endothelial Cells. Assay and Drug Development Technologies, 2017, 15, 267-279.	1.2	24

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145	Oy Vey! A Comment on â€œMachine Learning of Toxicological Big Data Enables Read-Across Structure Activity Relationships Outperforming Animal Test Reproducibilityâ€. Toxicological Sciences, 2019, 167, 3-4.	3.1	24
146	Cardiovascular Effects of Polychlorinated Biphenyls and Their Major Metabolites. Environmental Health Perspectives, 2020, 128, 77008.	6.0	24
147	Analysis of reproducibility and robustness of a human microfluidic four-cell liver acinus microphysiology system (LAMPS). Toxicology, 2021, 448, 152651.	4.2	24
148	Evaluation of an in vitro toxicogenetic mouse model for hepatotoxicity. Toxicology and Applied Pharmacology, 2010, 249, 208-216.	2.8	23
149	Grouping of Petroleum Substances as Example UVCBs by Ion Mobility-Mass Spectrometry to Enable Chemical Composition-Based Read-Across. Environmental Science & Technology, 2017, 51, 7197-7207.	10.0	23
150	Editorâ€™s Highlight: Comparative Dose-Response Analysis of Liver and Kidney Transcriptomic Effects of Trichloroethylene and Tetrachloroethylene in B6C3F1 Mouse. Toxicological Sciences, 2017, 160, 95-110.	3.1	23
151	Epigenetically mediated inhibition of Sâ€adenosylhomocysteine hydrolase and the associated dysregulation of 1â€carbon metabolism in nonalcoholic steatohepatitis and hepatocellular carcinoma. FASEB Journal, 2018, 32, 1591-1601.	0.5	23
152	Metabolism and Toxicity of Trichloroethylene and Tetrachloroethylene in Cytochrome P450 2E1 Knockout and Humanized Transgenic Mice. Toxicological Sciences, 2018, 164, 489-500.	3.1	23
153	Thorough QT/QTc in a Dish: An In Vitro Human Model That Accurately Predicts Clinical Concentrationâ€QTc Relationships. Clinical Pharmacology and Therapeutics, 2019, 105, 1175-1186.	4.7	23
154	Temporal and spatial analysis of per and polyfluoroalkyl substances in surface waters of Houston ship channel following a large-scale industrial fire incident. Environmental Pollution, 2020, 265, 115009.	7.5	23
155	Rapid hazard characterization of environmental chemicals using a compendium of human cell lines from different organs. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 623-638.	1.5	23
156	Environmental exposures due to natural disasters. Reviews on Environmental Health, 2016, 31, 89-92.	2.4	22
157	Variation in DNA-Damage Responses to an Inhalational Carcinogen (1,3-Butadiene) in Relation to Strain-Specific Differences in Chromatin Accessibility and Gene Transcription Profiles in C57BL/6J and CAST/EiJ Mice. Environmental Health Perspectives, 2017, 125, 107006.	6.0	22
158	Baseline data for distribution of contaminants by natural disasters: results from a residential Houston neighborhood during Hurricane Harvey flooding. Heliyon, 2019, 5, e02860.	3.2	22
159	Emerging technologies and their impact on regulatory science. Experimental Biology and Medicine, 2022, 247, 1-75.	2.4	22
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