

# Horst Spielmann

## List of Publications by Year in descending order

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106  
papers

5,899  
citations

81839

39  
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74108

75  
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110  
all docs

110  
docs citations

110  
times ranked

3082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pluripotent stem cell assays: Modalities and applications for predictive developmental toxicity. <i>Current Research in Toxicology</i> , 2022, 3, 100074.	1.3	7
2	International Regulation of Toxicological Test Procedures. , 2021, , 843-852.		0
3	Integration of Advanced Technologies into Regulatory Toxicology. , 2021, , 149-161.		1
4	Evaluation of in vitro embryotoxicity tests for Chinese herbal medicines. <i>Reproductive Toxicology</i> , 2019, 89, 45-53.	1.3	7
5	Contributions From the German-Speaking Countries. , 2019, , 23-28.		0
6	Alternative Approaches for Carcinogenicity and Reproductive Toxicity. , 2019, , 209-217.		7
7	Progress in Eliminating One-Year Dog Studies for the Safety Assessment of Pesticides. , 2019, , 50-56.		1
8	International Regulation of Toxicological Test Systems. , 2014, , 181-189.		1
9	A European perspective on alternatives to animal testing for environmental hazard identification and risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , 2013, 67, 506-530.	1.3	139
10	Assaying embryotoxicity in the test tube: Current limitations of the embryonic stem cell test (EST) challenging its applicability domain. <i>Critical Reviews in Toxicology</i> , 2012, 42, 443-464.	1.9	36
11	The validated embryonic stem cell test to predict embryotoxicity in vitro. <i>Nature Protocols</i> , 2011, 6, 961-978.	5.5	234
12	Defined culture medium for stem cell differentiation: Applicability of serum-free conditions in the mouse embryonic stem cell test. <i>Toxicology in Vitro</i> , 2011, 25, 914-921.	1.1	14
13	A Critical Evaluation of the 2011 ECHA Reports on Compliance with the REACH and CLP Regulations and on the Use of Alternatives to Testing on Animals for Compliance with the REACH Regulation. <i>ATLA Alternatives To Laboratory Animals</i> , 2011, 39, 481-493.	0.7	25
14	The Embryonic Stem Cell Test as Tool to Assess Structure-Dependent Teratogenicity: The Case of Valproic Acid. <i>Toxicological Sciences</i> , 2011, 120, 360-370.	1.4	30
15	Unexpected common mechanistic pathways for embryotoxicity of warfarin and lovastatin. <i>Reproductive Toxicology</i> , 2010, 30, 121-130.	1.3	14
16	The EU Commission's Draft Report on Alternative (Non-animal) Methods for Cosmetics Testing: Current Status and Future Prospects – 2010: A Missed Opportunity. <i>ATLA Alternatives To Laboratory Animals</i> , 2010, 38, 339-343.	0.7	3
17	Protein Biomarkers for <i>in Vitro</i> Testing of Embryotoxicity. <i>Journal of Proteome Research</i> , 2010, 9, 5727-5738.	1.8	22
18	A proposed eye irritation testing strategy to reduce and replace in vivo studies using Bottom-Up and Top-Down approaches. <i>Toxicology in Vitro</i> , 2010, 24, 1-9.	1.1	175

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19	A 1-year toxicity study in dogs is no longer a scientifically justifiable core data requirement for the safety assessment of pesticides. <i>Critical Reviews in Toxicology</i> , 2010, 40, 1-15.	1.9	28
20	A Review of the Implementation of the Embryonic Stem Cell Test (EST). <i>ATLA Alternatives To Laboratory Animals</i> , 2009, 37, 313-328.	0.7	144
21	Collaboration between ZEBET, FRAME and ECVAM: FRAME's Contribution to Establishing the Three Rs in Europe. <i>ATLA Alternatives To Laboratory Animals</i> , 2009, 37, 23-27.	0.7	1
22	The Way Forward in Reproductive/Developmental Toxicity Testing. <i>ATLA Alternatives To Laboratory Animals</i> , 2009, 37, 641-656.	0.7	42
23	Embryonic Stem Cell Test Remastered: Comparison between the Validated EST and the New Molecular FACS-EST for Assessing Developmental Toxicity In Vitro. <i>Toxicological Sciences</i> , 2009, 108, 389-400.	1.4	102
24	Successful validation of in vitro methods in toxicology by ZEBET, the National Centre for Alternatives in Germany at the BfR (Federal Institute for Risk Assessment). <i>Experimental and Toxicologic Pathology</i> , 2008, 60, 225-233.	2.1	34
25	Developmental and Reproductive Toxicity Testing: Animal Studies are Not Predictive for Humans. <i>ATLA Alternatives To Laboratory Animals</i> , 2008, 36, 715-716.	0.7	2
26	The Use of Reconstructed Human Epidermis for Skin Absorption Testing: Results of the Validation Study. <i>ATLA Alternatives To Laboratory Animals</i> , 2008, 36, 161-187.	0.7	193
27	The ECVAM International Validation Study on in Vitro Tests for Acute Skin Irritation: Report on the Validity of the EPI SKIN and EpiDerm Assays and on the Skin Integrity Function Test. <i>ATLA Alternatives To Laboratory Animals</i> , 2007, 35, 559-601.	0.7	185
28	Assessment of the human epidermis model SkinEthic RHE for in vitro skin corrosion testing of chemicals according to new OECD TG 431. <i>Toxicology in Vitro</i> , 2006, 20, 547-559.	1.1	92
29	Assessment of the Skin Irritation Potential of Chemicals by Using the SkinEthic Reconstructed Human Epidermal Model and the Common Skin Irritation Protocol Evaluated in the ECVAM Skin Irritation Validation Study. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 393-406.	0.7	48
30	The Practical Application of Three Validated <i>In Vitro</i> Embryotoxicity Tests. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 527-538.	0.7	111
31	Reconstructed Human Epidermis for Skin Absorption Testing: Results of the German Prevalidation Study. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 283-294.	0.7	108
32	REACH Testing Requirements Must Not be Driven by Reproductive Toxicity Testing in Animals. <i>ATLA Alternatives To Laboratory Animals</i> , 2006, 34, 365-366.	0.7	17
33	Use of Murine Embryonic Stem Cells in Embryotoxicity Assays: The Embryonic Stem Cell Test. , 2006, 329, 371-396.		46
34	Predicting the risk of developmental toxicity from in vitro assays. <i>Toxicology and Applied Pharmacology</i> , 2005, 207, 375-380.	1.3	50
35	Use of the dog as non-rodent test species in the safety testing schedule associated with the registration of crop and plant protection products (pesticides): present status. <i>Archives of Toxicology</i> , 2005, 79, 615-626.	1.9	36
36	3.8. UV-induced Effects. <i>ATLA Alternatives To Laboratory Animals</i> , 2005, 33, 131-146.	0.7	21

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37	Assessment of the Eye Irritating Properties of Chemicals by Applying Alternatives to the Draize Rabbit Eye Test: The Use of QSARs and <i>In Vitro</i> Tests for the Classification of Eye Irritation. ATLA Alternatives To Laboratory Animals, 2005, 33, 215-237.	0.7	36
38	The EpiDerm Test Protocol for the Upcoming ECVAM Validation Study on In Vitro Skin Irritation Tests – An Assessment of the Performance of the Optimised Test. ATLA Alternatives To Laboratory Animals, 2005, 33, 351-367.	0.7	66
39	3.11. Reproductive and Developmental Toxicity. ATLA Alternatives To Laboratory Animals, 2005, 33, 183-209.	0.7	12
40	Validation of the Rat Limb Bud Micromass Test in the International ECVAM Validation Study on Three <i>In Vitro</i> Embryotoxicity Tests. ATLA Alternatives To Laboratory Animals, 2004, 32, 245-274.	0.7	51
41	Validation of the Postimplantation Rat Whole-embryo Culture Test in the International ECVAM Validation Study on Three <i>In Vitro</i> Embryotoxicity Tests. ATLA Alternatives To Laboratory Animals, 2004, 32, 275-307.	0.7	125
42	Validation of the Embryonic Stem Cell Test in the International ECVAM Validation Study on Three <i>In Vitro</i> Embryotoxicity Tests. ATLA Alternatives To Laboratory Animals, 2004, 32, 209-244.	0.7	317
43	Considering the Test Performance for Three Class Data Using Linear Discriminant Analysis: A Case Study. ATLA Alternatives To Laboratory Animals, 2004, 32, 713-723.	0.7	5
44	Improvement of an in vitro stem cell assay for developmental toxicity: the use of molecular endpoints in the embryonic stem cell test. Reproductive Toxicology, 2004, 18, 231-240.	1.3	173
45	Animal testing and alternative approaches for the human health risk assessment under the proposed new European chemicals regulation. Archives of Toxicology, 2004, 78, 549-564.	1.9	187
46	Trends in improving the embryonic stem cell test (EST): an overview. ALTEX: Alternatives To Animal Experimentation, 2004, 21, 15-22.	0.9	42
47	Optimisation of the EpiDerm test protocol for the upcoming ECVAM validation study on in vitro skin irritation tests. ALTEX: Alternatives To Animal Experimentation, 2004, 21, 107-14.	0.9	38
48	Validation and Regulatory Acceptance of New Carcinogenicity Tests. Toxicologic Pathology, 2003, 31, 54-59.	0.9	14
49	Preface to the English Translation (2003). ATLA Alternatives To Laboratory Animals, 2003, 31, 90-91.	0.7	0
50	Animal Use in the Safety Evaluation of Chemicals: Harmonization and Emerging Needs. ILAR Journal, 2002, 43, S11-S17.	1.8	11
51	Currently available in vitro methods used in the regulatory toxicology. Toxicology Letters, 2002, 127, 127-134.	0.4	78
52	Validation Successes: Chemicals. ATLA Alternatives To Laboratory Animals, 2002, 30, 33-40.	0.7	19
53	The ECVAM International Validation Study on <i>In Vitro</i> Embryotoxicity Tests: Results of the Definitive Phase and Evaluation of Prediction Models. ATLA Alternatives To Laboratory Animals, 2002, 30, 151-176.	0.7	363
54	Regulatory acceptance of in vitro test systems as an alternative to safety testing in animals. , 2002, , 121-129.		0

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55	The international symposium on regulatory testing and animal welfare: recommendations on best scientific practices for acute systemic toxicity testing. ILAR Journal, 2002, 43 Suppl, S108-11.	1.8	1
56	International Cooperation: An Essential Requirement for Replacing Animal Toxicity Tests. ATLA Alternatives To Laboratory Animals, 2001, 29, 637-646.	0.7	5
57	Preliminary Results of the ECVAM Validation Study on Three In Vitro Embryotoxicity Tests. ATLA Alternatives To Laboratory Animals, 2001, 29, 301-303.	0.7	38
58	The use of dogs as second species in regulatory testing of pesticides. Archives of Toxicology, 2001, 75, 1-21.	1.9	25
59	The Second ECVAM Workshop on Phototoxicity Testing. ATLA Alternatives To Laboratory Animals, 2000, 28, 777-814.	0.7	63
60	The ECVAM Prevalidation Study on the Use of EpiDerm for Skin Corrosivity Testing. ATLA Alternatives To Laboratory Animals, 2000, 28, 371-401.	0.7	89
61	Determination of the Starting dose for Acute Oral Toxicity (LD50) Testing in the up and down Procedure (UDP) from Cytotoxicity Data. ATLA Alternatives To Laboratory Animals, 1999, 27, 957-966.	0.7	92
62	Embryotoxicity Screening Using Embryonic Stem Cells in vitro: Correlation to in vivo Teratogenicity. Cells Tissues Organs, 1999, 165, 203-211.	1.3	152
63	In Vitro Methods. , 1999, , 1131-1138.		4
64	Möglichkeiten zur Einschränkung von tierversuchen aus der Sicht der ZEBET. Schriftenreihe Des Interdisziplinären Zentrums Für Ethik an Der Europa-Universität Viadrina Frankfurt, Oder, 1999, , 175-188.	0.0	0
65	The use of dogs as second species in regulatory testing of pesticides I. interspecies comparison. Archives of Toxicology, 1998, 72, 319-329.	1.9	23
66	Reproduction and Development. Environmental Health Perspectives, 1998, 106, 571.	2.8	13
67	Issues Relating to the Release of Proprietary Information and Data for Use in the Validation of Alternative Methods. ATLA Alternatives To Laboratory Animals, 1998, 26, 13-20.	0.7	4
68	A Study on UV Filter Chemicals from Annex VII of European Union Directive 76/768/EEC, in the In Vitro 3T3 NRU Phototoxicity Test. ATLA Alternatives To Laboratory Animals, 1998, 26, 679-708.	0.7	30
69	[Results of the first phase of the ECVAM project "prevalidation and validation of three in vitro embryotoxicity tests"]. ALTEX: Alternatives To Animal Experimentation, 1998, 15, 3-8.	0.9	17
70	Animal Alternatives in Germany. Science, 1997, 276, 17.4-21.	6.0	1
71	[Reduction of the numbers of animals used for the classification of the acute oral toxicity of chemicals by taking into account cytotoxicity data from the Registry of Cytotoxicity]. ALTEX: Alternatives To Animal Experimentation, 1997, 14, 8-15.	0.9	7
72	Results of a Validation Study in Germany on Two in Vitro Alternatives to the Draize Eye Irritation Test, the HET-CAM Test and the 3T3 NRU Cytotoxicity Test. ATLA Alternatives To Laboratory Animals, 1996, 24, 741-858.	0.7	92

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73	Practical Aspects of the Validation of Toxicity Test Procedures. ATLA Alternatives To Laboratory Animals, 1995, 23, 129-146.	0.7	240
74	The Role of Prevalidation in the Development, Validation and Acceptance of Alternative Methods. ATLA Alternatives To Laboratory Animals, 1995, 23, 211-217.	0.7	154
75	Development and Validation of Non-animal Tests and Testing Strategies: The Identification of a Coordinated Response to the Challenge and the Opportunity Presented by the Sixth Amendment to the Cosmetics Directive (76/768/EEC). ATLA Alternatives To Laboratory Animals, 1995, 23, 398-409.	0.7	24
76	The Three Rs: The Way Forward. ATLA Alternatives To Laboratory Animals, 1995, 23, 838-866.	0.7	105
77	Screening Chemicals for Reproductive Toxicity: The Current Alternatives. ATLA Alternatives To Laboratory Animals, 1995, 23, 868-882.	0.7	79
78	The three Rs: the way forward: the report and recommendations of ECVAM Workshop 11. ATLA Alternatives To Laboratory Animals, 1995, 23, 838-66.	0.7	125
79	<i>In Vitro</i> Phototoxicity Testing. ATLA Alternatives To Laboratory Animals, 1994, 22, 314-348.	0.7	86
80	[First results of an EC/COLIPA validation project of in vitro phototoxicity testing methods]. ALTEX: Alternatives To Animal Experimentation, 1994, 11, 22-31.	0.9	29
81	Genotoxic and embryotoxic effects of gonadotropin-hyperstimulated ovulation of murine oocytes, preimplantation embryos, and term fetuses. Reproductive Toxicology, 1992, 6, 329-333.	1.3	36
82	Two Procedures for the Prediction of Acute Toxicity (LD50) from Cytotoxicity Data. ATLA Alternatives To Laboratory Animals, 1992, 20, 40-49.	0.7	28
83	ECITTS: An Integrated Approach to the Application of In Vitro Test Systems to the Hazard Assessment of Chemicals,. ATLA Alternatives To Laboratory Animals, 1992, 20, 406-428.	0.7	56
84	Embryologic and cytogenetic effects of ethanol on preimplantation mouse embryos in vitro. Reproductive Toxicology, 1991, 5, 405-410.	1.3	18
85	Cytotoxicity test using blastocyst-derived euploid embryonal stem cells: A new approach to in vitro teratogenesis screening. Reproductive Toxicology, 1991, 5, 57-64.	1.3	102
86	The Development, Validation and Acceptance of In Vitro Toxicity Tests. , 1991, , 291-312.		4
87	Report and Recommendations of the CAAT/ERGATT Workshop on the Validation of Toxicity Test Procedures. ATLA Alternatives To Laboratory Animals, 1990, 18, 313-337.	0.7	201
88	Report and Recommendations of an International Workshop on Promotion of the Regulatory Acceptance of Validated Non-animal Toxicity Test Procedures. ATLA Alternatives To Laboratory Animals, 1990, 18, 339-344.	0.7	50
89	Unique Role of Studies on Preimplantation Embryos to Understand Mechanisms of Embryotoxicity in Early Pregnancy. Critical Reviews in Toxicology, 1989, 20, 51-64.	1.9	35
90	Beneficial effects of ascorbic acid on preimplantation mouse embryos after exposure to cyclophosphamide in vivo. Teratogenesis, Carcinogenesis, and Mutagenesis, 1989, 9, 51-59.	0.8	9

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91	Cytogenetic studies on preimplantation mouse embryos exposed to methylnitrosourea in vivo. <i>Reproductive Toxicology</i> , 1989, 3, 23-26.	1.3	8
92	Abnormal development of mouse embryos exposed to methylnitrosourea before implantation. <i>Reproductive Toxicology</i> , 1989, 3, 27-31.	1.3	14
93	Cytotoxic and genotoxic effects of bromodeoxyuridine during in vitro labelling for sister-chromatid differentiation in preimplantation mouse embryos. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1988, 209, 75-78.	1.2	13
94	Potentiating effect of caffeine on embryotoxicity of cyclophosphamide treatment in vivo during the preimplantation period. <i>Teratogenesis, Carcinogenesis, and Mutagenesis</i> , 1987, 7, 169-174.	0.8	16
95	Spontaneous and cyclophosphamide-induced sister-chromatid exchanges in diploid and endoreduplicated tetraploid metaphases of preimplantation mouse embryos. <i>Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1987, 192, 137-140.	1.2	6
96	Analysis of Embryotoxic Effects in Preimplantation Embryos. , 1987, , 309-331.		9
97	Embryotoxicity of Stable Isotopes and Use of Stable Isotopes in Studies of Teratogenetic Mechanisms. <i>Journal of Clinical Pharmacology</i> , 1986, 26, 474-480.	1.0	23
98	Investigations on cyclophosphamide treatment during the preimplantation period. I. Differential sensitivity of preimplantation mouse embryos to maternal cyclophosphamide treatment. <i>Teratology</i> , 1981, 23, 1-5.	1.7	22
99	Investigations on cyclophosphamide treatment during the preimplantation period. II. In vitro studies on the effects of cyclophosphamide and its metabolites 4-OH-cyclophosphamide, phosphoramidate mustard, and acrolein on blastulation of four-cell and eight-cell mouse embryos and on their subsequent development during implantation. <i>Teratology</i> , 1981, 23, 7-13.	1.7	27
100	Expression of lactate dehydrogenase isozyme 5 (LDH-5) in cultured mouse blastocysts in the absence of implantation and outgrowth. <i>Biochemical Genetics</i> , 1978, 16, 191-202.	0.8	10
101	Differential Sensitivity of Preimplantation Mouse Embryos to UV Irradiation in Vitro and Evidence for Postreplication Repair. <i>Radiation Research</i> , 1977, 71, 367.	0.7	26
102	Inhibition of post-implantation development of mouse blastocysts in vitro after cyclophosphamide treatment in vivo. <i>Nature</i> , 1977, 270, 54-56.	13.7	40
103	The effects of carbon-13 incorporation into preimplantation mouse embryos on development before and after implantation. <i>Life Sciences</i> , 1976, 19, 633-640.	2.0	10
104	Gel isoelectric focusing of mouse lactate dehydrogenase: Heterogeneity of the isoenzymes A4 and X4. <i>Biochemical Genetics</i> , 1975, 13, 707-720.	0.8	20
105	STUDIES ON LACTATE DEHYDROGENASE ISOZYMES IN GAMETES AND EARLY DEVELOPMENT OF MICE. , 1975, , 313-324.		5
106	The separation of lactate dehydrogenase X from other lactate dehydrogenase isozymes of mouse testes by affinity chromatography. <i>FEBS Letters</i> , 1973, 35, 19-23.	1.3	28