Rob J Vandebriel

List of Publications by Year
in descending order

118	5,092	109137	95083
papers	citations	35 h-index	68 g-index

126	126	126	7044
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Distribution, Elimination, and Toxicity of Silver Nanoparticles and Silver Ions in Rats after 28-Day Oral Exposure. ACS Nano, 2012, 6, 7427-7442.	7.3	624
2	A review of mammalian toxicity of ZnO nanoparticles. Nanotechnology, Science and Applications, 2012, 5, 61.	4.6	406
3	Allergic contact dermatitis: epidemiology, molecular mechanisms, in vitro methods and regulatory aspects. Cellular and Molecular Life Sciences, 2012, 69, 763-781.	2.4	286
4	Systemic and immunotoxicity of silver nanoparticles in an intravenous 28 days repeated dose toxicity study in rats. Biomaterials, 2013, 34, 8333-8343.	5.7	239
5	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. ALTEX: Alternatives To Animal Experimentation, 2016, 33, 272-321.	0.9	214
6	Sub-chronic toxicity study in rats orally exposed to nanostructured silica. Particle and Fibre Toxicology, 2014, 11, 8.	2.8	164
7	Risk assessment of titanium dioxide nanoparticles via oral exposure, including toxicokinetic considerations. Nanotoxicology, 2016, 10, 1515-1525.	1.6	119
8	Vaccine-induced antibody responses as parameters of the influence of endogenous and environmental factors.. Environmental Health Perspectives, 2001, 109, 757-764.	2.8	118
9	UVB exposureâ€induced systemic modulation of Th1â€and Th2â€mediated immune responses. Immunology, 1999, 97, 506-514.	2.0	110
10	Towards a nanospecific approach for risk assessment. Regulatory Toxicology and Pharmacology, 2016, 80, 46-59.	1.3	109
11	State of the art in non-animal approaches for skin sensitization testing: from individual test methods towards testing strategies. Archives of Toxicology, 2016, 90, 2861-2883.	1.9	95
12	Considerations for Safe Innovation: The Case of Graphene. ACS Nano, 2017, 11, 9574-9593.	7.3	94
13	Assessment of Preferential T-Helper 1 or T-Helper 2 Induction by Low Molecular Weight Compounds Using the Local Lymph Node Assay in Conjunction with RT-PCR and ELISA for Interferon-Î³ and Interleukin-4. Toxicology and Applied Pharmacology, 2000, 162, 77-85.	1.3	88
14	The use of biomarkers of toxicity for integrating in vitro hazard estimates into risk assessment for humans. ALTEX: Alternatives To Animal Experimentation, 2012, 29, 411-425.	0.9	87
15	A quantitative method for assessing the sensitizing potency of low molecular weight chemicals using a local lymph node assay: employment of a regression method that includes determination of the uncertainty margins. Toxicology, 2000, 146, 49-59.	2.0	81
16	Keratinocyte Gene Expression Profiles Discriminate Sensitizing and Irritating Compounds. Toxicological Sciences, 2010, 117, 81-89.	1.4	73
17	Immunotoxicity of silver nanoparticles in an intravenous 28-day repeated-dose toxicity study in rats. Particle and Fibre Toxicology, 2014, 11, 21.	2.8	71
18	Cytokine Production Induced by Low-Molecular-Weight Chemicals as a Function of the Stimulation Index in a Modified Local Lymph Node Assay: An Approach to Discriminate Contact Sensitizers from Respiratory Sensitizers. Toxicology and Applied Pharmacology, 2002, 184, 46-56.	1.3	70

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19	Non-animal sensitization testing: State-of-the-art. Critical Reviews in Toxicology, 2010, 40, 389-404.	1.9	69
20	Genetic Variation in the Response to Vaccination. Public Health Genomics, 2007, 10, 201-217.	0.6	65
21	Horizon scan of nanomedicinal products. Nanomedicine, 2015, 10, 1599-1608.	1.7	62
22	In Vitro Testing for Direct Immunotoxicity: State of the Art. Methods in Molecular Biology, 2010, 598, 401-423.	0.4	61
23	Toxicogenomics of subchronic hexachlorobenzene exposure in Brown Norway rats.. Environmental Health Perspectives, 2004, 112, 782-791.	2.8	60
24	Assessment of potency of allergenic activity of low molecular weight compounds based on IL-1Î± and IL-18 production by a murine and human keratinocyte cell line. Toxicology, 2005, 210, 95-109.	2.0	58
25	An European inter-laboratory validation of alternative endpoints of the murine local lymph node assay: First round. Toxicology, 2005, 212, 60-68.	2.0	54
26	The Use ofIn VitroSystems for Evaluating Immunotoxicity: The Report and Recommendations of an ECVAM Workshop. Journal of Immunotoxicology, 2005, 2, 61-83.	0.9	53
27	A comparison of immunotoxic effects of nanomedicinal products with regulatory immunotoxicity testing requirements. International Journal of Nanomedicine, 2016, 11, 2935.	3.3	53
28	Use of statins is associated with an increased risk of rheumatoid arthritis. Annals of the Rheumatic Diseases, 2012, 71, 648-654.	0.5	51
29	In vitro immunotoxicity of bis(tri-n-butyltin)oxide (TBTO) studied by toxicogenomics. Toxicology, 2007, 237, 35-48.	2.0	50
30	Ranking of Allergenic Potency of Rubber Chemicals in a Modified Local Lymph Node Assay. Toxicological Sciences, 2002, 66, 226-232.	1.4	46
31	An European inter-laboratory validation of alternative endpoints of the murine local lymph node assay. Toxicology, 2005, 212, 69-79.	2.0	46
32	Nanomedicinal products: a survey on specific toxicity and side effects. International Journal of Nanomedicine, 2017, Volume 12, 6107-6129.	3.3	46
33	In vitro assessment of sensitizing activity of low molecular weight compounds. Toxicology and Applied Pharmacology, 2005, 207, 142-148.	1.3	41
34	Host Genetics of Bordetella pertussis Infection in Mice: Significance of Toll-Like Receptor 4 in Genetic Susceptibility and Pathobiology. Infection and Immunity, 2006, 74, 2596-2605.	1.0	40
35	The crystal structure of titanium dioxide nanoparticles influences immune activity in vitro and in vivo. Particle and Fibre Toxicology, 2018, 15, 9.	2.8	40
36	The role of Toll-like receptor-4 in pertussis vaccine-induced immunity. BMC Immunology, 2008, 9, 21.	0.9	38

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37	Effects ofin VivoExposure to Bis(tri-n-butyltin)oxide, Hexachlorobenzene, and Benzo(a)pyrene on Cytokine (Receptor) mRNA Levels in Cultured Rat Splenocytes and on IL-2 Receptor Protein Levels. Toxicology and Applied Pharmacology, 1998, 148, 126-136.	1.3	37
38	Toxicogenomics in the assessment of immunotoxicity. Methods, 2007, 41, 132-141.	1.9	36
39	Lipopolysaccharide Analogs Improve Efficacy of Acellular Pertussis Vaccine and Reduce Type I Hypersensitivity in Mice. Vaccine Journal, 2007, 14, 821-829.	3.2	35
40	Comparison of doseâ€“responses of contact allergens using the guinea pig maximization test and the local lymph node assay. Toxicology, 2001, 167, 207-215.	2.0	34
41	Determination of the sensitising activity of the rubber contact sensitisers TMTD, ZDMC, MBT and DEA in a modified local lymph node assay and the effect of sodium dodecyl sulfate pretreatment on local lymph node responses. Toxicology, 2002, 176, 123-134.	2.0	34
42	Optimization of an air-liquid interface in vitro cell co-culture model to estimate the hazard of aerosol exposures. Journal of Aerosol Science, 2021, 153, 105703.	1.8	32
43	Association of Bordetella pertussis with host immune cells in the mouse lung. Microbial Pathogenesis, 2003, 35, 19-29.	1.3	31
44	In vitro exposure effects of cyclosporin A and bis(tri-n-butyltin)oxide on lymphocyte proliferation, cytokine (receptor) mRNA expression, and cell surface marker expression in rat thymocytes and splenocytes. Toxicology, 1999, 135, 49-66.	2.0	30
45	Impact of exposure duration by low molecular weight compounds on interferon-Î³ and interleukin-4 mRNA expression and production in the draining lymph nodes of mice. Toxicology, 2003, 188, 1-13.	2.0	29
46	Mechanism of Action of TiO₂: Recommendations to Reduce Uncertainties Related to Carcinogenic Potential. Annual Review of Pharmacology and Toxicology, 2021, 61, 203-223.	4.2	29
47	Association Between Statin Use and Lupus-Like Syndrome Using Spontaneous Reports. Seminars in Arthritis and Rheumatism, 2011, 41, 373-381.	1.6	28
48	Statin-Associated Polymyalgia Rheumatica. An Analysis Using WHO Global Individual Case Safety Database: A Case/Non-Case Approach. PLoS ONE, 2012, 7, e41289.	1.1	27
49	Strategies for the optimisation of in vivo experiments in accordance with the 3Rs philosophy. Regulatory Toxicology and Pharmacology, 2012, 63, 140-154.	1.3	27
50	Immunotoxicology: A brief history, current status and strategies for future immunotoxicity assessment. Current Opinion in Toxicology, 2017, 5, 55-59.	2.6	27
51	Multi-omics approaches confirm metal ions mediate the main toxicological pathways of metal-bearing nanoparticles in lung epithelial A549 cells. Environmental Science: Nano, 2018, 5, 1506-1517.	2.2	27
52	A methodology for developing key events to advance nanomaterial-relevant adverse outcome pathways to inform risk assessment. Nanotoxicology, 2021, 15, 289-310.	1.6	24
53	An Air-liquid Interface Bronchial Epithelial Model for Realistic, Repeated Inhalation Exposure to Airborne Particles for Toxicity Testing. Journal of Visualized Experiments, 2020, , .	0.2	24
54	Detection of immunotoxicity using T-cell based cytokine reporter cell lines (?Cell Chip?). Toxicology, 2005, 206, 257-272.	2.0	23

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55	A practical approach to assess inhalation toxicity of metal oxide nanoparticles in vitro. Journal of Applied Toxicology, 2018, 38, 160-171.	1.4	23
56	Altered cytokine (receptor) mRNA expression as a tool in immunotoxicology. Toxicology, 1998, 130, 43-67.	2.0	22
57	Risk assessment and immunotoxicology. Toxicology Letters, 1998, 102-103, 261-265.	0.4	22
58	Dendritic cell-based in vitro assays for vaccine immunogenicity. Human Vaccines and Immunotherapeutics, 2012, 8, 1323-1325.	1.4	22
59	Environmental and lifestyle factors may act in concert to increase the prevalence of respiratory allergy including asthma. Clinical and Experimental Allergy, 1999, 29, 1303-1308.	1.4	21
60	Statins accelerate the onset of collagen type II-induced arthritis in mice. Arthritis Research and Therapy, 2012, 14, R90.	1.6	20
61	Development of the ?Cell Chip?: a new in vitro alternative technique for immunotoxicity testing. Toxicology, 2005, 206, 245-256.	2.0	19
62	Toll-Like Receptor 4 Polymorphism Associated with the Response to Whole-Cell Pertussis Vaccination in Children from the KOALA Study. Vaccine Journal, 2007, 14, 1377-1380.	3.2	19
63	Lung response to Bordetella pertussis infection in mice identified by gene-expression profiling. Immunogenetics, 2007, 59, 555-564.	1.2	19
64	Production of specific macrophage-arming factor precedes cytotoxic T lymphocyte activity in vivo during tumor rejection. Cancer Immunology, Immunotherapy, 1989, 30, 28-33.	2.0	18
65	Variability of in vivo potency tests of Diphtheria, Tetanus and acellular Pertussis (DTaP) vaccines. Vaccine, 2021, 39, 2506-2516.	1.7	17
66	Drivers and barriers in the consistency approach for vaccine batch release testing: Report of an international workshop. Biologicals, 2017, 48, 1-5.	0.5	16
67	Effect of prolonged exposure to low antigen concentration for sensitization. Toxicology, 2003, 184, 23-30.	2.0	15
68	The effect of zirconium doping of cerium dioxide nanoparticles on pulmonary and cardiovascular toxicity and biodistribution in mice after inhalation. Nanotoxicology, 2017, 11, 1-15.	1.6	15
69	Interleukin-10 is an Unequivocal Th2 Parameter in the Rat, whereas Interleukin-4 is Not *. Scandinavian Journal of Immunology, 2000, 52, 519-524.	1.3	14
70	Consequences of the expression of lipopolysaccharide-modifying enzymes for the efficacy and reactogenicity of whole-cell pertussis vaccines. Microbes and Infection, 2007, 9, 1096-1103.	1.0	14
71	Comparison of the molecular topologies of stress-activated transcription factors HSF1, AP-1, NRF2, and NF-Î²B in their induction kinetics of HMOX1. BioSystems, 2014, 124, 75-85.	0.9	14
72	Pattern of risks of rheumatoid arthritis among patients using statins: A cohort study with the clinical practice research datalink. PLoS ONE, 2018, 13, e0193297.	1.1	14

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73	Respiratory sensitization: Advances in assessing the risk of respiratory inflammation and irritation. Toxicology in Vitro, 2011, 25, 1251-1258.	1.1	13
74	Pattern of risks of systemic lupus erythematosus among statin users: a population-based cohort study. Annals of the Rheumatic Diseases, 2017, 76, 1723-1730.	0.5	13
75	Sensitive method for endotoxin determination in nanomedicinal product samples. Nanomedicine, 2019, 14, 1231-1246.	1.7	13
76	Applicability of organ-on-chip systems in toxicology and pharmacology. Critical Reviews in Toxicology, 2021, 51, 540-554.	1.9	13
77	Supplementation of whole-cell pertussis vaccines with lipopolysaccharide analogs: Modification of vaccine-induced immune responses. Vaccine, 2008, 26, 899-906.	1.7	12
78	Response of MUTZ-3 dendritic cells to the different components of the Haemophilus influenzae type B conjugate vaccine: Towards an in vitro assay for vaccine immunogenicity. Vaccine, 2011, 29, 5114-5121.	1.7	12
79	InÂvitro innate immune cell based models to assess whole cell Bordetella pertussis vaccine quality: A proof of principle. Biologicals, 2015, 43, 100-109.	0.5	12
80	Immunotoxicity Testing of Nanomedicinal Products: Possible Pitfalls in Endotoxin Determination. Current Bionanotechnology, 2017, 2, 95-102.	0.6	12
81	Lung pathology and immediate hypersensitivity in a mouse model after vaccination with pertussis vaccines and challenge with Bordetella pertussis. Vaccine, 2007, 25, 2346-2360.	1.7	11
82	Nonclinical regulatory immunotoxicity testing of nanomedicinal products: Proposed strategy and possible pitfalls. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1633.	3.3	11
83	The value of organs-on-chip for regulatory safety assessment. ALTEX: Alternatives To Animal Experimentation, 2020, 37, 208-222.	0.9	11
84	Differences in the Induction of Macrophage Cytotoxicity by the Specific T Lymphocyte Factor, Specific Macrophage Arming Factor (SMAF), and the Lymphokine, Macrophage Arming Factor (SMAF), and the Lymphokine, Macrophage Activating Factor (MAF). Immunobiology, 1989, 179, 131-144.	0.8	9
85	Gene polymorphisms within the immune system that may underlie drug allergy. Naunyn-Schmiedeberg's Archives of Pharmacology, 2004, 369, 125-132.	1.4	9
86	Angiotensinâ€converting enzyme inhibitors or angiotensin II receptor blockers and the risk of developing rheumatoid arthritis in antihypertensive drug users. Pharmacoepidemiology and Drug Safety, 2012, 21, 835-843.	0.9	9
87	Statin Use and Markers of Immunity in the Doetinchem Cohort Study. PLoS ONE, 2013, 8, e77587.	1.1	8
88	Livestock farm particulate matter enhances airway inflammation in mice with or without allergic airway disease. World Allergy Organization Journal, 2020, 13, 100114.	1.6	8
89	Identification of biomarkers to detect residual pertussis toxin using microarray analysis of dendritic cells. Vaccine, 2013, 31, 5223-5231.	1.7	6
90	Cytokine production induced by low-molecular-weight chemicals as a function of the stimulation index in a modified local lymph node assay: an approach to discriminate contact sensitizers from respiratory sensitizers. Toxicology and Applied Pharmacology, 2002, 184, 46-56.	1.3	6

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91	Comparative gene expression profiling in two congenic mouse strains following Bordetella pertussis infection. BMC Microbiology, 2007, 7, 88.	1.3	5
92	Toward a mechanism-based in vitro safety test for pertussis toxin. Human Vaccines and Immunotherapeutics, 2014, 10, 1391-1395.	1.4	5
93	Role of chemical composition and redox modification of poorly soluble nanomaterials on their ability to enhance allergic airway sensitisation in mice. Particle and Fibre Toxicology, 2019, 16, 39.	2.8	5
94	Overcoming scientific barriers in the transition from in vivo to non-animal batch testing of human and veterinary vaccines. Expert Review of Vaccines, 2021, 20, 1-13.	2.0	5
95	Evaluation of Adverse Effects of Resorbable Hyaluronic Acid Fillers: Determination of Macrophage Responses. International Journal of Molecular Sciences, 2022, 23, 7275.	1.8	5
96	Initial immunochemical characterization of specific macrophage-arming factor. Cancer Immunology, Immunotherapy, 1989, 30, 21-27.	2.0	4
97	[9] Methods in immunotoxicology. Methods in Neurosciences, 1995, , 151-169.	0.5	4
98	A helper T-cell epitope of the E7 protein of human papillomavirus type 16 in BALB/c mice. Virus Research, 1995, 37, 13-22.	1.1	3
99	Cytokine Production Induced by Low-Molecular-Weight Chemicals as a Function of the Stimulation Index in a Modified Local Lymph Node Assay: An Approach to Discriminate Contact Sensitizers from Respiratory Sensitizers. , 2002, 184, 46-46.		3
100	Physiologically based pharmacokinetic modeling of intravenously administered nanoformulated substances. Drug Delivery and Translational Research, 2022, 12, 2132-2144.	3.0	3
101	An inter-laboratory comparison of an NLRP3 inflammasome activation assay and dendritic cell maturation assay using a nanostructured lipid carrier and a polymeric nanomedicine, as exemplars. Drug Delivery and Translational Research, 2022, 12, 2225-2242.	3.0	3
102	Risk assessment of titanium dioxide nanoparticles via oral exposure, including toxicokinetic considerations. Toxicology Letters, 2017, 280, S236.	0.4	2
103	A next-generation sequencing based method for determining genetic stability in Clostridium tetani vaccine strains. Biologicals, 2020, 64, 10-14.	0.5	2
104	A Decision Support System for preclinical assessment of nanomaterials in medical products: the REFINE DSS. Drug Delivery and Translational Research, 2022, , 1.	3.0	2
105	Effects of a Diphtheria-Tetanus-Acellular Pertussis Vaccine on Immune Responses in Murine Local Lymph Node and Lung Allergy Models. Vaccine Journal, 2007, 14, 211-219.	3.2	1
106	Cytokine Measurement Tools for Immunotoxicology. Methods in Pharmacology and Toxicology, 2007, , 17-30.	0.1	1
107	Impact of Nanoparticles on Dendritic Cells. Molecular and Integrative Toxicology, 2020, , 73-82.	0.5	1
108	Regulation of Clostridium tetani Neurotoxin Expression by Culture Conditions. Toxins, 2022, 14, 31.	1.5	1

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109	Pathways Related to NLRP3 Inflammasome Activation Induced by Gold Nanorods. International Journal of Molecular Sciences, 2022, 23, 5763.	1.8	1
110	a proteinaceous particle from the wax moth, Galleria mellonella. Journal of Invertebrate Pathology, 1985, 45, 363-364.	1.5	0
111	Specific T-cell factor production and lymphocytes in the direct surroundings of a subcutaneous allogeneic tumor. Cellular Immunology, 1992, 144, 269-286.	1.4	0
112	Specific T-Cell Factors That Initiate Cellular Immune Responses Are Produced by CD4-, CD8-, Vî²8-Lymphocytes and Are Present in Nude Mice. Cellular Immunology, 1994, 159, 1-14.	1.4	0
113	In vitro approaches to the assessment of immunotoxicity. Toxicology Letters, 2007, 172, S6-S7.	0.4	0
114	Toxicogenomics as a Tool to Assess Immunotoxicity. , 0, , 127-142.		0
115	Response to 'Statins accelerate the onset of collagen type II-induced arthritis in mice'-authors' reply. Arthritis Research and Therapy, 2013, 15, 403.	1.6	0
116	Shape-dependent impact of gold nanoparticles on differentiating human dendritic cells. Toxicology Letters, 2017, 280, S312-S313.	0.4	0
117	Nanomedicinal products and immunotoxicity assessment: an improved and integrated strategy. Toxicology Letters, 2018, 295, S39.	0.4	0
118	Airborne particulate matter from goat farm increases acute allergic airway responses in mice. Inhalation Toxicology, 2020, 32, 265-277.	0.8	0