

# Rob J Vandebriel

## List of Publications by Citations

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113  
papers

4,102  
citations

34  
h-index

61  
g-index

125  
ext. papers

4,578  
ext. citations

4.9  
avg, IF

5.23  
L-index

#	Paper	IF	Citations
113	Distribution, elimination, and toxicity of silver nanoparticles and silver ions in rats after 28-day oral exposure. <i>ACS Nano</i> , <b>2012</b> , 6, 7427-42	16.7	515
112	A review of mammalian toxicity of ZnO nanoparticles. <i>Nanotechnology, Science and Applications</i> , <b>2012</b> , 5, 61-71	3.9	319
111	Allergic contact dermatitis: epidemiology, molecular mechanisms, in vitro methods and regulatory aspects. Current knowledge assembled at an international workshop at BfR, Germany. <i>Cellular and Molecular Life Sciences</i> , <b>2012</b> , 69, 763-81	10.3	231
110	Systemic and immunotoxicity of silver nanoparticles in an intravenous 28 days repeated dose toxicity study in rats. <i>Biomaterials</i> , <b>2013</b> , 34, 8333-43	15.6	202
109	Biology-inspired microphysiological system approaches to solve the prediction dilemma of substance testing. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2016</b> , 33, 272-321	4.3	161
108	Sub-chronic toxicity study in rats orally exposed to nanostructured silica. <i>Particle and Fibre Toxicology</i> , <b>2014</b> , 11, 8	8.4	137
107	UVB exposure-induced systemic modulation of Th1- and Th2-mediated immune responses. <i>Immunology</i> , <b>1999</b> , 97, 506-14	7.8	101
106	Risk assessment of titanium dioxide nanoparticles via oral exposure, including toxicokinetic considerations. <i>Nanotoxicology</i> , <b>2016</b> , 10, 1515-1525	5.3	95
105	Vaccine-induced antibody responses as parameters of the influence of endogenous and environmental factors. <i>Environmental Health Perspectives</i> , <b>2001</b> , 109, 757-64	8.4	94
104	Towards a nanospecific approach for risk assessment. <i>Regulatory Toxicology and Pharmacology</i> , <b>2016</b> , 80, 46-59	3.4	88
103	State of the art in non-animal approaches for skin sensitization testing: from individual test methods towards testing strategies. <i>Archives of Toxicology</i> , <b>2016</b> , 90, 2861-2883	5.8	76
102	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-gamma and interleukin-4. <i>Toxicology and Applied Pharmacology</i> , <b>2000</b> , 162, 77-85	4.6	76
101	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. <i>Toxicology</i> , <b>2000</b> , 146, 49-59	4.4	71
100	Considerations for Safe Innovation: The Case of Graphene. <i>ACS Nano</i> , <b>2017</b> , 11, 9574-9593	16.7	68
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. <i>Toxicology and Applied Pharmacology</i> , <b>2002</b> , 184, 46-56	4.6	66
98	The use of biomarkers of toxicity for integrating in vitro hazard estimates into risk assessment for humans. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2012</b> , 29, 411-25	4.3	66
97	Non-animal sensitization testing: state-of-the-art. <i>Critical Reviews in Toxicology</i> , <b>2010</b> , 40, 389-404	5.7	63

96	Keratinocyte gene expression profiles discriminate sensitizing and irritating compounds. <i>Toxicological Sciences</i> , <b>2010</b> , 117, 81-9	4.4	62
95	Immunotoxicity of silver nanoparticles in an intravenous 28-day repeated-dose toxicity study in rats. <i>Particle and Fibre Toxicology</i> , <b>2014</b> , 11, 21	8.4	58
94	Assessment of potency of allergenic activity of low molecular weight compounds based on IL-1alpha and IL-18 production by a murine and human keratinocyte cell line. <i>Toxicology</i> , <b>2005</b> , 210, 95-109	4.4	56
93	Toxicogenomics of subchronic hexachlorobenzene exposure in Brown Norway rats. <i>Environmental Health Perspectives</i> , <b>2004</b> , 112, 782-91	8.4	55
92	Horizon scan of nanomedicinal products. <i>Nanomedicine</i> , <b>2015</b> , 10, 1599-608	5.6	52
91	Genetic variation in the response to vaccination. <i>Public Health Genomics</i> , <b>2007</b> , 10, 201-17	1.9	52
90	An European inter-laboratory validation of alternative endpoints of the murine local lymph node assay: first round. <i>Toxicology</i> , <b>2005</b> , 212, 60-8	4.4	49
89	In vitro testing for direct immunotoxicity: state of the art. <i>Methods in Molecular Biology</i> , <b>2010</b> , 598, 401-234	2.4	46
88	In vitro immunotoxicity of bis(tri-n-butyltin)oxide (TBTO) studied by toxicogenomics. <i>Toxicology</i> , <b>2007</b> , 237, 35-48	4.4	45
87	Use of statins is associated with an increased risk of rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , <b>2012</b> , 71, 648-54	2.4	44
86	The Use of In Vitro Systems for Evaluating Immunotoxicity: The Report and Recommendations of an ECVAM Workshop. <i>Journal of Immunotoxicology</i> , <b>2005</b> , 2, 61-83	3.1	44
85	In vitro assessment of sensitizing activity of low molecular weight compounds. <i>Toxicology and Applied Pharmacology</i> , <b>2005</b> , 207, 142-8	4.6	40
84	An European inter-laboratory validation of alternative endpoints of the murine local lymph node assay: 2nd round. <i>Toxicology</i> , <b>2005</b> , 212, 69-79	4.4	40
83	A comparison of immunotoxic effects of nanomedicinal products with regulatory immunotoxicity testing requirements. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 2935-52	7.3	39
82	Ranking of allergenic potency of rubber chemicals in a modified local lymph node assay. <i>Toxicological Sciences</i> , <b>2002</b> , 66, 226-32	4.4	37
81	Host genetics of Bordetella pertussis infection in mice: significance of Toll-like receptor 4 in genetic susceptibility and pathobiology. <i>Infection and Immunity</i> , <b>2006</b> , 74, 2596-605	3.7	36
80	Effects of in vivo exposure 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. <i>Toxicology and Applied Pharmacology</i> , <b>1998</b> , 148, 126-36	4.6	34
79	Nanomedicinal products: a survey on specific toxicity and side effects. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 6107-6129	7.3	33

78	Lipopolysaccharide analogs improve efficacy of acellular pertussis vaccine and reduce type I hypersensitivity in mice. <i>Vaccine Journal</i> , <b>2007</b> , 14, 821-9		32
77	The role of Toll-like receptor-4 in pertussis vaccine-induced immunity. <i>BMC Immunology</i> , <b>2008</b> , 9, 21	3.7	31
76	Determination of the sensitising activity of the rubber contact sensitizers 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. <i>Toxicology</i> , <b>2002</b> , 176, 123-34	4.4	31
75	Comparison of dose-responses of contact allergens using the guinea pig maximization test and the local lymph node assay. <i>Toxicology</i> , <b>2001</b> , 167, 207-15	4.4	30
74	Association of Bordetella pertussis with host immune cells in the mouse lung. <i>Microbial Pathogenesis</i> , <b>2003</b> , 35, 19-29	3.8	29
73	The crystal structure of titanium dioxide nanoparticles influences immune activity in vitro and in vivo. <i>Particle and Fibre Toxicology</i> , <b>2018</b> , 15, 9	8.4	28
72	Toxicogenomics in the assessment of immunotoxicity. <i>Methods</i> , <b>2007</b> , 41, 132-41	4.6	28
71	Impact of exposure duration by low molecular weight compounds on interferon-gamma and interleukin-4 mRNA expression and production in the draining lymph nodes of mice. <i>Toxicology</i> , <b>2003</b> , 188, 1-13	4.4	27
70	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. <i>Toxicology</i> , <b>1999</b> , 135, 49-66	4.4	26
69	Strategies for the optimisation of in vivo experiments in accordance with the 3Rs philosophy. <i>Regulatory Toxicology and Pharmacology</i> , <b>2012</b> , 63, 140-54	3.4	24
68	Association between statin use and lupus-like syndrome using spontaneous reports. <i>Seminars in Arthritis and Rheumatism</i> , <b>2011</b> , 41, 373-81	5.3	24
67	Statin-associated polymyalgia rheumatica. An analysis using WHO global individual case safety database: a case/non-case approach. <i>PLoS ONE</i> , <b>2012</b> , 7, e41289	3.7	22
66	Altered cytokine (receptor) mRNA expression as a tool in immunotoxicology. <i>Toxicology</i> , <b>1998</b> , 130, 43-67.4	4.4	21
65	Immunotoxicology: A brief history, current status and strategies for future immunotoxicity assessment. <i>Current Opinion in Toxicology</i> , <b>2017</b> , 5, 55-59	4.4	18
64	Statins accelerate the onset of collagen type II-induced arthritis in mice. <i>Arthritis Research and Therapy</i> , <b>2012</b> , 14, R90	5.7	18
63	Toll-like receptor 4 polymorphism associated with the response to whole-cell pertussis vaccination in children from the KOALA study. <i>Vaccine Journal</i> , <b>2007</b> , 14, 1377-80		18
62	Detection of immunotoxicity using T-cell based cytokine reporter cell lines ("Cell Chip"). <i>Toxicology</i> , <b>2005</b> , 206, 257-72	4.4	18
61	Multi-omics approaches confirm metal ions mediate the main toxicological pathways of metal-bearing nanoparticles in lung epithelial A549 cells. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 1506-1517 <sup>1</sup>	7.1	18

60	Production of specific macrophage-arming factor precedes cytotoxic T lymphocyte activity in vivo during tumor rejection. <i>Cancer Immunology, Immunotherapy</i> , <b>1989</b> , 30, 28-33	7.4	17
59	Lung response to Bordetella pertussis infection in mice identified by gene-expression profiling. <i>Immunogenetics</i> , <b>2007</b> , 59, 555-64	3.2	16
58	Development of the "Cell Chip": a new in vitro alternative technique for immunotoxicity testing. <i>Toxicology</i> , <b>2005</b> , 206, 245-56	4.4	16
57	Environmental and lifestyle factors may act in concert to increase the prevalence of respiratory allergy including asthma. <i>Clinical and Experimental Allergy</i> , <b>1999</b> , 29, 1303-8	4.1	16
56	A practical approach to assess inhalation toxicity of metal oxide nanoparticles in vitro. <i>Journal of Applied Toxicology</i> , <b>2018</b> , 38, 160-171	4.1	15
55	Dendritic cell-based in vitro assays for vaccine immunogenicity. <i>Human Vaccines and Immunotherapeutics</i> , <b>2012</b> , 8, 1323-5	4.4	14
54	Risk assessment and immunotoxicology. <i>Toxicology Letters</i> , <b>1998</b> , 102-103, 261-5	4.4	14
53	Mechanism of Action of TiO <sub>2</sub> : Recommendations to Reduce Uncertainties Related to Carcinogenic Potential. <i>Annual Review of Pharmacology and Toxicology</i> , <b>2021</b> , 61, 203-223	17.9	14
52	A methodology for developing key events to advance nanomaterial-relevant adverse outcome pathways to inform risk assessment. <i>Nanotoxicology</i> , <b>2021</b> , 15, 289-310	5.3	14
51	Comparison of the molecular topologies of stress-activated transcription factors HSF1, AP-1, NRF2, and NF- $\kappa$ B in their induction kinetics of HMOX1. <i>BioSystems</i> , <b>2014</b> , 124, 75-85	1.9	13
50	Respiratory sensitization: advances in assessing the risk of respiratory inflammation and irritation. <i>Toxicology in Vitro</i> , <b>2011</b> , 25, 1251-8	3.6	13
49	Interleukin-10 is an unequivocal Th2 parameter in the rat, whereas interleukin-4 is not. <i>Scandinavian Journal of Immunology</i> , <b>2000</b> , 52, 519-24	3.4	13
48	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. <i>Vaccine</i> , <b>2011</b> , 29, 5114-21	4.1	12
47	Consequences of the expression of lipopolysaccharide-modifying enzymes for the efficacy and reactogenicity of whole-cell pertussis vaccines. <i>Microbes and Infection</i> , <b>2007</b> , 9, 1096-103	9.3	12
46	The effect of zirconium doping of cerium dioxide nanoparticles on pulmonary and cardiovascular toxicity and biodistribution in mice after inhalation. <i>Nanotoxicology</i> , <b>2017</b> , 11, 794-808	5.3	11
45	Supplementation of whole-cell pertussis vaccines with lipopolysaccharide analogs: modification of vaccine-induced immune responses. <i>Vaccine</i> , <b>2008</b> , 26, 899-906	4.1	11
44	Lung pathology and immediate hypersensitivity in a mouse model after vaccination with pertussis vaccines and challenge with Bordetella pertussis. <i>Vaccine</i> , <b>2007</b> , 25, 2346-60	4.1	11
43	Effect of prolonged exposure to low antigen concentration for sensitization. <i>Toxicology</i> , <b>2003</b> , 184, 23-30	4.4	11

42	Pattern of risks of systemic lupus erythematosus among statin users: a population-based cohort study. <i>Annals of the Rheumatic Diseases</i> , <b>2017</b> , 76, 1723-1730	2.4	9
41	In vitro innate immune cell based models to assess whole cell Bordetella pertussis vaccine quality: a proof of principle. <i>Biologicals</i> , <b>2015</b> , 43, 100-9	1.8	9
40	Pattern of risks of rheumatoid arthritis among patients using statins: A cohort study with the clinical practice research datalink. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193297	3.7	9
39	The value of organs-on-chip for regulatory safety assessment. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2020</b> , 37, 208-222	4.3	9
38	Optimization of an air-liquid interface cell co-culture model to estimate the hazard of aerosol exposures. <i>Journal of Aerosol Science</i> , <b>2021</b> , 153, 105703	4.3	9
37	Sensitive method for endotoxin determination in nanomedicinal product samples. <i>Nanomedicine</i> , <b>2019</b> , 14, 1231-1246	5.6	8
36	Drivers and barriers in the consistency approach for vaccine batch release testing: Report of an international workshop. <i>Biologicals</i> , <b>2017</b> , 48, 1-5	1.8	8
35	Differences in the induction of macrophage cytotoxicity by the specific T lymphocyte factor, specific macrophage arming factor (SMAF), and the lymphokine, macrophage activating factor (MAF). <i>Immunobiology</i> , <b>1989</b> , 179, 131-44	3.4	8
34	An Air-liquid Interface Bronchial Epithelial Model for Realistic, Repeated Inhalation Exposure to Airborne Particles for Toxicity Testing. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	8
33	Angiotensin-converting enzyme inhibitors or angiotensin II receptor blockers and the risk of developing rheumatoid arthritis in antihypertensive drug users. <i>Pharmacoepidemiology and Drug Safety</i> , <b>2012</b> , 21, 835-43	2.6	7
32	Gene polymorphisms within the immune system that may underlie drug allergy. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2004</b> , 369, 125-32	3.4	7
31	Immunotoxicity Testing of Nanomedicinal Products: Possible Pitfalls in Endotoxin Determination. <i>Current Bionanotechnology</i> , <b>2017</b> , 2, 95-102		7
30	Identification of biomarkers to detect residual pertussis toxin using microarray analysis of dendritic cells. <i>Vaccine</i> , <b>2013</b> , 31, 5223-31	4.1	6
29	Statin use and markers of immunity in the Doetinchem cohort study. <i>PLoS ONE</i> , <b>2013</b> , 8, e77587	3.7	6
28	Variability of in vivo potency tests of Diphtheria, Tetanus and acellular Pertussis (DTaP) vaccines. <i>Vaccine</i> , <b>2021</b> , 39, 2506-2516	4.1	6
27	Nonclinical regulatory immunotoxicity testing of nanomedicinal products: Proposed strategy and possible pitfalls. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2020</b> , 12, e1633	9.2	5
26	Comparative gene expression profiling in two congenic mouse strains following Bordetella pertussis infection. <i>BMC Microbiology</i> , <b>2007</b> , 7, 88	4.5	5
25	Livestock farm particulate matter enhances airway inflammation in mice with or without allergic airway disease. <i>World Allergy Organization Journal</i> , <b>2020</b> , 13, 100114	5.2	4

24	Role of chemical composition and redox modification of poorly soluble nanomaterials on their ability to enhance allergic airway sensitisation in mice. <i>Particle and Fibre Toxicology</i> , <b>2019</b> , 16, 39	8.4	4
23	Toward a mechanism-based in vitro safety test for pertussis toxin. <i>Human Vaccines and Immunotherapeutics</i> , <b>2014</b> , 10, 1391-5	4.4	4
22	[9] Methods in immunotoxicology. <i>Methods in Neurosciences</i> , <b>1995</b> , 151-169		4
21	Initial immunochemical characterization of specific macrophage-arming factor. <i>Cancer Immunology, Immunotherapy</i> , <b>1989</b> , 30, 21-7	7.4	4
20	A helper T-cell epitope of the E7 protein of human papillomavirus type 16 in BALB/c mice. <i>Virus Research</i> , <b>1995</b> , 37, 13-22	6.4	3
19	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 <b>2002</b> , 184, 46-46		3
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. <i>Toxicology and Applied Pharmacology</i> , <b>2002</b> , 184, 46-56	4.6	3
17	Applicability of organ-on-chip systems in toxicology and pharmacology. <i>Critical Reviews in Toxicology</i> , <b>2021</b> , 51, 540-554	5.7	2
16	Overcoming scientific barriers in the transition from to non-animal batch testing of human and veterinary vaccines. <i>Expert Review of Vaccines</i> , <b>2021</b> , 20, 1221-1233	5.2	2
15	A next-generation sequencing based method for determining genetic stability in Clostridium tetani vaccine strains. <i>Biologicals</i> , <b>2020</b> , 64, 10-14	1.8	1
14	Effects of a diphtheria-tetanus-acellular pertussis vaccine on immune responses in murine local lymph node and lung allergy models. <i>Vaccine Journal</i> , <b>2007</b> , 14, 211-9		1
13	Cytokine Measurement Tools for Immunotoxicology. <i>Methods in Pharmacology and Toxicology</i> , <b>2007</b> , 17-30	1.1	1
12	Regulation of Neurotoxin Expression by Culture Conditions.. <i>Toxins</i> , <b>2022</b> , 14,	4.9	1
11	Physiologically based pharmacokinetic modeling of intravenously administered nanoformulated substances.. <i>Drug Delivery and Translational Research</i> , <b>2022</b> , 1	6.2	1
10	Impact of Nanoparticles on Dendritic Cells. <i>Molecular and Integrative Toxicology</i> , <b>2020</b> , 73-82	0.5	0
9	A Decision Support System for preclinical assessment of nanomaterials in medical products: the REFINE DSS.. <i>Drug Delivery and Translational Research</i> , <b>2022</b> , 1	6.2	0
8	Pathways Related to NLRP3 Inflammasome Activation Induced by Gold Nanorods. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5763	6.3	0
7	Airborne particulate matter from goat farm increases acute allergic airway responses in mice. <i>Inhalation Toxicology</i> , <b>2020</b> , 32, 265-277	2.7	

- 6 Response to statins accelerate the onset of collagen type II-induced arthritis in mice. *Arthritis Research and Therapy*, **2013**, 15, 403. Authors: [unreadable] 5-7
- 5 Profiling Adverse Immune Effects. *Methods and Principles in Medicinal Chemistry*, **2009**, 439-469. 0-4
- 4 Toxicogenomics as a Tool to Assess Immunotoxicity 127-142
- 3 In vitro approaches to the assessment of immunotoxicity. *Toxicology Letters*, **2007**, 172, S6-S7. 4-4
- 2 Specific T-cell factors that initiate cellular immune responses are produced by CD4<sup>+</sup>, CD8<sup>-</sup>, V beta 8<sup>+</sup> lymphocytes and are present in nude mice. *Cellular Immunology*, **1994**, 159, 1-14. 4-4
- 1 Specific T-cell factor production and lymphocytes in the direct surroundings of a subcutaneous allogeneic tumor. *Cellular Immunology*, **1992**, 144, 269-86. 4-4