

# Richard Weiss

## List of Publications by Year in descending order

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76  
papers

2,143  
citations

159358

30  
h-index

253896

43  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2405  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-facilitated epicutaneous immunotherapy with hypoallergenic beta-glucan neoglycoconjugates suppresses lung inflammation and avoids local side effects in a mouse model of allergic asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 210-222.	2.7	17
2	IL-31 transgenic mice show reduced allergen-induced lung inflammation. <i>European Journal of Immunology</i> , 2021, 51, 191-196.	1.6	11
3	Laser-facilitated epicutaneous immunization of mice with SARS-CoV-2 spike protein induces antibodies inhibiting spike/ACE2 binding. <i>Vaccine</i> , 2021, 39, 4399-4403.	1.7	0
4	Laser facilitated epicutaneous peptide immunization using dry patch technology. <i>Vaccine</i> , 2021, 39, 5259-5264.	1.7	1
5	Gold nanoparticles (AuNPs) impair LPS-driven immune responses by promoting a tolerogenic-like dendritic cell phenotype with altered endosomal structures. <i>Nanoscale</i> , 2021, 13, 7648-7666.	2.8	13
6	The Influence of Ketogenic Diets on Psoriasiform-Like Skin Inflammation. <i>Journal of Investigative Dermatology</i> , 2020, 140, 707-710.e7.	0.3	9
7	Mast cells and $\hat{I}^3\hat{T}$ T cells are largely dispensable for adaptive immune responses after laser-mediated epicutaneous immunization. <i>Vaccine</i> , 2020, 38, 1015-1024.	1.7	3
8	Laser-facilitated epicutaneous immunotherapy with depigmented house dust mite extract alleviates allergic responses in a mouse model of allergic lung inflammation. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1217-1228.	2.7	12
9	Towards middle-up analysis of polyclonal antibodies: subclass-specific N-glycosylation profiling of murine immunoglobulin G (IgG) by means of HPLC-MS. <i>Scientific Reports</i> , 2020, 10, 18080.	1.6	7
10	Effect of structural stability on endolysosomal degradation and T-cell reactivity of major shrimp allergen tropomyosin. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 2909-2919.	2.7	25
11	Multiple roles of Bet v 1 ligands in allergen stabilization and modulation of endosomal protease activity. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 2382-2393.	2.7	51
12	Arabidopsis MAP-Kinase 3 Phosphorylates UDP-Glucose Dehydrogenase: a Key Enzyme Providing UDP-Sugar for Cell Wall Biosynthesis. <i>Plant Molecular Biology Reporter</i> , 2018, 36, 870-877.	1.0	6
13	Evaluation of modified Interferon alpha mRNA constructs for the treatment of non-melanoma skin cancer. <i>Scientific Reports</i> , 2018, 8, 12954.	1.6	12
14	DNA and mRNA vaccination against allergies. <i>Pediatric Allergy and Immunology</i> , 2018, 29, 679-688.	1.1	56
15	Skin vaccination via fractional infrared laser ablation - Optimization of laser-parameters and adjuvantation. <i>Vaccine</i> , 2017, 35, 1802-1809.	1.7	39
16	Influence of protein fold stability on immunogenicity and its implications for vaccine design. <i>Expert Review of Vaccines</i> , 2017, 16, 479-489.	2.0	121
17	Synergistic effects of dendritic cell targeting and laser-microporation on enhancing epicutaneous skin vaccination efficacy. <i>Journal of Controlled Release</i> , 2017, 266, 87-99.	4.8	31
18	Generation and Evaluation of Prophylactic mRNA Vaccines Against Allergy. <i>Methods in Molecular Biology</i> , 2017, 1499, 123-139.	0.4	3

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19	Allergy Enhances Neurogenesis and Modulates Microglial Activation in the Hippocampus. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 169.	1.8	27
20	Potential of nanoparticles for allergen-specific immunotherapy – use of silica nanoparticles as vaccination platform. <i>Expert Opinion on Drug Delivery</i> , 2016, 13, 1777-1788.	2.4	11
21	Fold stability during endolysosomal acidification is a key factor for allergenicity and immunogenicity of the major birch pollen allergen. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 1525-1534.	1.5	69
22	Natural clinical tolerance to peanut in African patients is caused by poor allergenic activity of peanut IgE. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2015, 70, 638-652.	2.7	26
23	Pectate Lyase Pollen Allergens: Sensitization Profiles and Cross-Reactivity Pattern. <i>PLoS ONE</i> , 2015, 10, e0120038.	1.1	41
24	Prophylactic mRNA Vaccination against Allergy Confers Long-Term Memory Responses and Persistent Protection in Mice. <i>Journal of Immunology Research</i> , 2015, 2015, 1-12.	0.9	19
25	Development and characterization of a recombinant, hypoallergenic, peptide-based vaccine for grass pollen allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 1207-1217.e11.	1.5	115
26	What is the antiallergic potential of DNA vaccination?. <i>Immunotherapy</i> , 2015, 7, 587-590.	1.0	5
27	Immune Repertoire Profiling Reveals that Clonally Expanded B and T Cells Infiltrating Diseased Human Kidneys Can Also Be Tracked in Blood. <i>PLoS ONE</i> , 2015, 10, e0143125.	1.1	12
28	Allergens are not pathogens. <i>Human Vaccines and Immunotherapeutics</i> , 2014, 10, 703-707.	1.4	15
29	Allergen microarray detects high prevalence of asymptomatic IgE sensitizations to tropical pollen-derived carbohydrates. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 910-914.e5.	1.5	40
30	Protective and Therapeutic DNA Vaccination Against Allergic Diseases. <i>Methods in Molecular Biology</i> , 2014, 1143, 243-258.	0.4	2
31	Transcutaneous delivery of CpG-adjuvanted allergen via laser-generated micropores. <i>Vaccine</i> , 2013, 31, 3427-3434.	1.7	48
32	The influence of antigen targeting to sub-cellular compartments on the anti-allergic potential of a DNA vaccine. <i>Vaccine</i> , 2013, 31, 6113-6121.	1.7	24
33	Laser microporation of the skin: prospects for painless application of protective and therapeutic vaccines. <i>Expert Opinion on Drug Delivery</i> , 2013, 10, 761-773.	2.4	42
34	Generation of hypoallergenic neoglycoconjugates for dendritic cell targeted vaccination: A novel tool for specific immunotherapy. <i>Journal of Controlled Release</i> , 2013, 165, 101-109.	4.8	36
35	The Fold Variant BM4 Is Beneficial in a Therapeutic Bet v 1 Mouse Model. <i>BioMed Research International</i> , 2013, 2013, 1-5.	0.9	19
36	New approaches to transcutaneous immunotherapy. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2013, 13, 669-676.	1.1	17

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37	Protein Antigen Delivery by Gene Gun-Mediated Epidermal Antigen Incorporation (EAI). , 2013, 940, 401-411.		0
38	T Cell Epitopes of the Timothy Grass Pollen Allergen Phl p 5 of Mice and Men and the Detection of Allergen-Specific T Cells Using Class II Ultimers. International Archives of Allergy and Immunology, 2012, 158, 326-334.	0.9	3
39	mRNA vaccination as a safe approach for specific protection from type I allergy. Expert Review of Vaccines, 2012, 11, 55-67.	2.0	38
40	DNA and RNA Vaccines for Prophylactic and Therapeutic Treatment of Type I Allergy. , 2012, , 247-263.		1
41	Transcutaneous immunotherapy via laser-generated micropores efficiently alleviates allergic asthma in P h l p 5 sensitized mice. Allergy: European Journal of Allergy and Clinical Immunology, 2012, 67, 1365-1374.	2.7	37
42	General Mechanisms of Gene Vaccines. , 2012, , 1-35.		0
43	Transcutaneous vaccination via laser microporation. Journal of Controlled Release, 2012, 162, 391-399.	4.8	86
44	The extent of the uptake of plasmid into the skin determines the immune responses induced by a DNA vaccine applied topically onto the skin. Journal of Pharmacy and Pharmacology, 2011, 63, 199-205.	1.2	7
45	Replicase-based plasmid DNA shows anti-tumor activity. BMC Cancer, 2011, 11, 110.	1.1	2
46	Polymeric Structure and Host Toll-like Receptor 4 Dictate Immunogenicity of NY-ESO-1 Antigen in Vivo. Journal of Biological Chemistry, 2011, 286, 37077-37084.	1.6	7
47	Characterization of Novel Peroxisome Proliferator-activated Receptor $\beta$ Coactivator-1 $\pm$ (PGC-1 $\pm$ ) Isoform in Human Liver. Journal of Biological Chemistry, 2011, 286, 42923-42936.	1.6	32
48	Prophylactic mRNA vaccination against allergy. Current Opinion in Allergy and Clinical Immunology, 2010, 10, 567-574.	1.1	31
49	Differential effects of C3d on the immunogenicity of gene gun vaccines encoding Plasmodium falciparum and Plasmodium berghei MSP142. Vaccine, 2010, 28, 4515-4522.	1.7	7
50	Role of the polypeptide backbone and post-translational modifications in cross-reactivity of Art v 1, the major mugwort pollen allergen. Biological Chemistry, 2009, 390, 445-451.	1.2	26
51	Confirmation of immuno-reactivity of the recombinant major birch pollen allergen Bet v 1a by affinity-ELISA. Electrophoresis, 2009, 30, 2337-2346.	1.3	17
52	Immunize and disappear-Safety-optimized mRNA vaccination with a panel of 29 allergens. Journal of Allergy and Clinical Immunology, 2009, 124, 1070-1077.e11.	1.5	68
53	Clinical Significance of HLA-E*0103 Homozygosity on Survival After Allogeneic Hematopoietic Stem-Cell Transplantation. Transplantation, 2009, 88, 528-532.	0.5	48
54	Epidermal Langerhans Cells Are Dispensable for Humoral and Cell-Mediated Immunity Elicited by Gene Gun Immunization. Journal of Immunology, 2007, 179, 886-893.	0.4	55

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55	Epidermal inoculation of Leishmania-antigen by gold bombardment results in a chronic form of leishmaniasis. <i>Vaccine</i> , 2007, 25, 25-33.	1.7	12
56	From sequence to antibody: Genetic immunisation is suitable to generate antibodies against a rare plant membrane protein, the KAT 1 channel. <i>FEBS Letters</i> , 2007, 581, 448-452.	1.3	1
57	Gene gun immunization with clinically relevant allergens aggravates allergen induced pathology and is contraindicated for allergen immunotherapy. <i>Molecular Immunology</i> , 2007, 44, 1879-1887.	1.0	20
58	Protective efficiency of dendrosomes as novel nano-sized adjuvants for DNA vaccination against birch pollen allergy. <i>Journal of Biotechnology</i> , 2006, 124, 602-614.	1.9	43
59	Generation of hypoallergenic DNA vaccines by forced ubiquitination: Preventive and therapeutic effects in a mouse model of allergy. <i>Journal of Allergy and Clinical Immunology</i> , 2006, 118, 269-276.	1.5	42
60	Immunization with a low-dose replicon DNA vaccine encoding Phl p 5 effectively prevents allergic sensitization. <i>Journal of Allergy and Clinical Immunology</i> , 2006, 118, 734-741.	1.5	37
61	Bicistronic expression plasmid encoding allergen and anti-IgE single chain variable fragment antibody as a novel DNA vaccine for allergy therapy and prevention. <i>Medical Hypotheses</i> , 2006, 67, 71-74.	0.8	2
62	Inhibition of type I allergic responses with nanogram doses of replicon-based DNA vaccines. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2006, 61, 828-835.	2.7	26
63	Genetic vaccination approaches against malaria based on the circumsporozoite protein. <i>Wiener Klinische Wochenschrift</i> , 2006, 118, 9-17.	1.0	5
64	Is Genetic Vaccination against Allergy Possible?. <i>International Archives of Allergy and Immunology</i> , 2006, 139, 332-345.	0.9	35
65	C3d binding to the circumsporozoite protein carboxy-terminus deviates immunity against malaria. <i>International Immunology</i> , 2005, 17, 245-255.	1.8	37
66	Design of Protective and Therapeutic DNA Vaccines for the Treatment of Allergic Diseases. <i>Inflammation and Allergy: Drug Targets</i> , 2005, 4, 585-597.	3.1	21
67	DNA vaccines for allergy treatment. <i>Methods</i> , 2004, 32, 328-339.	1.9	31
68	Treatment of 1-methyl-1-nitrosourea-induced mammary tumours with immunostimulatory CpG motifs and 13-cis retinoic acid in female rats: histopathological study. <i>Experimental and Toxicologic Pathology</i> , 2003, 55, 173-179.	2.1	5
69	A DNA vaccine encoding the outer surface protein C from <i>Borrelia burgdorferi</i> is able to induce protective immune responses. <i>Microbes and Infection</i> , 2003, 5, 939-946.	1.0	38
70	Gene gun bombardment with gold particles displays a particular Th2-promoting signal that over-rides the Th1-inducing effect of immunostimulatory CpG motifs in DNA vaccines. <i>Vaccine</i> , 2002, 20, 3148-3154.	1.7	90
71	Removal of the circumsporozoite protein (CSP) glycosylphosphatidylinositol signal sequence from a CSP DNA vaccine enhances induction of CSP-specific Th2 type immune responses and improves protection against malaria infection. <i>European Journal of Immunology</i> , 2001, 31, 692-698.	1.6	40
72	Genetic Vaccination against Malaria Infection by Intradermal and Epidermal Injections of a Plasmid Containing the Gene Encoding the <i>Plasmodium berghei</i> Circumsporozoite Protein. <i>Infection and Immunity</i> , 2000, 68, 5914-5919.	1.0	50

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73	DNA immunization in vivo down-regulates nuclear all-trans retinoic acid receptors in mouse spleen cells. <i>Molecular and Cellular Endocrinology</i> , 2000, 165, 107-113.	1.6	3
74	Isoforms of the Major Allergen of Birch Pollen Induce Different Immune Responses after Genetic Immunization. <i>International Archives of Allergy and Immunology</i> , 1999, 120, 17-29.	0.9	43
75	Improvement of the immune response against plasmid DNA encoding OspC of <i>Borrelia</i> by an ER-targeting leader sequence. <i>Vaccine</i> , 1999, 18, 815-824.	1.7	25
76	Immune responses after immunization with plasmid DNA encoding Bet v 1, the major allergen of birch pollen. <i>Journal of Allergy and Clinical Immunology</i> , 1999, 103, 107-113.	1.5	86