# Gabriele Gadermaier

## List of Publications by Year in Descending Order



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| 104 papers | 3,214 citations | 31 h-index | 54 g-index |
| 110 ext. papers | 3,832 ext. citations | 5.7 avg, IF | 4.68 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 104 | En route to personalized medicine: uncovering distinct IgE reactivity pattern to house dust mite components in Brazilian and Austrian allergic patients. *Clinical and Translational Allergy*, **2021**, 11, e12004 | 5.2 | 3 |
| 103 | Proteomic profiling of commercial dust mite skin prick test solutions and allergy vaccines from India. *World Allergy Organization Journal*, **2021**, 14, 100516 | 5.2 | 0 |
| 102 | Component-Resolved Diagnosis of American Cockroach () Allergy in Patients From Different Geographical Areas.. *Frontiers in Allergy*, **2021**, 2, 691627 | 0 | 0 |
| 101 | Carbohydrate epitopes currently recognized as targets for IgE antibodies. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, 76, 2383-2394 | 9.3 | 6 |
| 100 | Laser-facilitated epicutaneous immunotherapy with hypoallergenic beta-glucan neoglycoconjugates suppresses lung inflammation and avoids local side effects in a mouse model of allergic asthma. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, 76, 210-222 | 9.3 | 5 |
| 99 | High-affinity Bet v 1-specific secretory IgA antibodies in nasal fluids protect against birch pollen allergy. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, 76, 2267-2270 | 9.3 | |
| 98 | The COMPARE Database: A Public Resource for Allergen Identification, Adapted for Continuous Improvement.. *Frontiers in Allergy*, **2021**, 2, 700533 | 0 | 3 |
| 97 | SELEX: Critical factors and optimization strategies for successful aptamer selection. *Biotechnology and Applied Biochemistry*, **2021**, | 2.8 | 8 |
| 96 | Identification of a defensin as novel allergen in celery root: Api g 7 as a missing link in the diagnosis of celery allergy?. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, | 9.3 | 0 |
| 95 | Retinoic acid-loading of the major birch pollen allergen Bet v 1 may improve specific allergen immunotherapy: In silico, in vitro and in vivo data in BALB/c mice. *Allergy: European Journal of Allergy and Clinical Immunology*, **2020**, 75, 2073-2077 | 9.3 | 15 |
| 94 | Peptidase PepP is a novel virulence factor of contributing to murine campylobacteriosis. *Gut Microbes*, **2020**, 12, 1770017 | 8.8 | 5 |
| 93 | N-terminal peptide deletion influences immunological and structural features of Blo t 5. *Allergy: European Journal of Allergy and Clinical Immunology*, **2020**, 75, 1503-1507 | 9.3 | 4 |
| 92 | The Cell Wall PAC (Proline-Rich, Arabinogalactan Proteins, Conserved Cysteines) Domain-Proteins Are Conserved in the Green Lineage. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 1 |
| 91 | Rituximab-specific DNA aptamers are able to selectively recognize heat-treated antibodies. *PLoS ONE*, **2020**, 15, e0241560 | 3.7 | 3 |
| 90 | Hydrogen/deuterium exchange memory NMR reveals structural epitopes involved in IgE cross-reactivity of allergenic lipid transfer proteins. *Journal of Biological Chemistry*, **2020**, 295, 17398-17410 | 5.4 | 2 |
| 89 | Public perception and knowledge on nanotechnology: A study based on a citizen science approach. *NanoImpact*, **2020**, 17, 100201 | 5.6 | 17 |
| 88 | Variation in IgE binding potencies of seven Artemisia species depending on content of major allergens. *Clinical and Translational Allergy*, **2020**, 10, 50 | 5.2 | 4 |

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| 87 | Biochemical and functional characterization of a new recombinant phospholipase A inhibitor from Crotalus durissus collilineatus snake serum. *International Journal of Biological Macromolecules*, **2020**, 164, 1545-1553 | 7.9 | 0 |
| 86 | Relevanz homologer Allergene bei der spezifischen Immuntherapie von Pollenallergien. *Wiener Klinisches Magazin: Beilage Zur Wiener Klinischen Wochenschrift*, **2020**, 23, 260-267 | 0 | |
| 85 | Similar Allergenicity to Different Species Is a Consequence of Highly Cross-Reactive Art v 1-Like Molecules. *Medicina (Lithuania)*, **2019**, 55, | 3.1 | 6 |
| 84 | Aptamers as quality control tool for production, storage and biosimilarity of the anti-CD20 biopharmaceutical rituximab. *Scientific Reports*, **2019**, 9, 1111 | 4.9 | 17 |
| 83 | Helicobacter pylori-controlled c-Abl localization promotes cell migration and limits apoptosis. *Cell Communication and Signaling*, **2019**, 17, 10 | 7.5 | 10 |
| 82 | Rational Design, Structure-Activity Relationship, and Immunogenicity of Hypoallergenic Pru p 3 Variants. *Molecular Nutrition and Food Research*, **2019**, 63, e1900336 | 5.9 | 9 |
| 81 | The relevance of a digestibility evaluation in the allergenicity risk assessment of novel proteins. Opinion of a joint initiative of COST action ImpARAS and COST action INFOGEST. *Food and Chemical Toxicology*, **2019**, 129, 405-423 | 4.7 | 31 |
| 80 | Cashew Tree Pollen: An Unknown Source of IgE-Reactive Molecules. *International Journal of Molecular Sciences*, **2019**, 20, | 6.3 | 2 |
| 79 | Immunoreactivity of Gluten-Sensitized Sera Toward Wheat, Rice, Corn, and Amaranth Flour Proteins Treated With Microbial Transglutaminase. *Frontiers in Microbiology*, **2019**, 10, 470 | 5.7 | 7 |
| 78 | Localization of Four Allergens in Artemisia Pollen by Immunofluorescent Antibodies. *International Archives of Allergy and Immunology*, **2019**, 179, 165-172 | 3.7 | 4 |
| 77 | Prevention of allergy by virus-like nanoparticles (VNP) delivering shielded versions of major allergens in a humanized murine allergy model. *Allergy: European Journal of Allergy and Clinical Immunology*, **2019**, 74, 246-260 | 9.3 | 24 |
| 76 | Boiling down the cysteine-stabilized LTP fold - loss of structural and immunological integrity of allergenic Art v 3 and Pru p 3 as a consequence of irreversible lanthionine formation. *Molecular Immunology*, **2019**, 116, 140-150 | 4.3 | 7 |
| 75 | Keeping Allergen Names Clear and Defined. *Frontiers in Immunology*, **2019**, 10, 2600 | 8.4 | 7 |
| 74 | Artemisia pollen allergy in China: Component-resolved diagnosis reveals allergic asthma patients have significant multiple allergen sensitization. *Allergy: European Journal of Allergy and Clinical Immunology*, **2019**, 74, 284-293 | 9.3 | 28 |
| 73 | WHO/IUIS Allergen Nomenclature: Providing a common language. *Molecular Immunology*, **2018**, 100, 3-13 | 4.3 | 85 |
| 72 | Distinct epitope structures of defensin-like proteins linked to proline-rich regions give rise to differences in their allergenic activity. *Allergy: European Journal of Allergy and Clinical Immunology*, **2018**, 73, 431-441 | 9.3 | 15 |
| 71 | Peer-reviewed publishing of results from Citizen Science projects. *Journal of Science Communication*, **2018**, 17, L01 | 2 | 12 |
| 70 | Does clinical outcome of birch pollen immunotherapy relate to induction of blocking antibodies preventing IgE from allergen binding? A pilot study monitoring responses during first year of AIT. *Clinical and Translational Allergy*, **2018**, 8, 39 | 5.2 | 13 |

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| 69 | Monitoring of Deamidation and Lanthionine Formation in Recombinant Mugwort Allergen by Capillary Zone Electrophoresis (CZE)-UV and Transient Capillary Isotachophoresis-CZE-Electrospray Ionization-TOF-MS. *Analytical Chemistry*, **2018**, 90, 11933-11940 | 7.8 | 6 |
| 68 | Do Plantago lanceolata Skin Prick Test-Positive Patients Display IgE to Genuine Plantain Pollen Allergens? Investigation of Pollen Allergic Patients from the North-East of France. *International Archives of Allergy and Immunology*, **2018**, 177, 97-106 | 3.7 | 2 |
| 67 | Crystal structure of Pla l 1 reveals both structural similarity and allergenic divergence within the Ole e 1-like protein family. *Journal of Allergy and Clinical Immunology*, **2017**, 140, 277-280 | 11.5 | 12 |
| 66 | Complete NMR Assignment of Succinimide and Its Detection and Quantification in Peptides and Intact Proteins. *Analytical Chemistry*, **2017**, 89, 11962-11970 | 7.8 | 15 |
| 65 | Exposure to Indoor Allergens in Different Residential Settings and Its Influence on IgE Sensitization in a Geographically Confined Austrian Cohort. *PLoS ONE*, **2017**, 12, e0168686 | 3.7 | 13 |
| 64 | Conjugation of wildtype and hypoallergenic mugwort allergen Art v 1 to flagellin induces IL-10-DC and suppresses allergen-specific TH2-responses in vivo. *Scientific Reports*, **2017**, 7, 11782 | 4.9 | 8 |
| 63 | Proteomic profiling of the weed feverfew, a neglected pollen allergen source. *Scientific Reports*, **2017**, 7, 6049 | 4.9 | 12 |
| 62 | Influence of Intrinsic and Lifestyle Factors on the Development of IgE Sensitization. *International Archives of Allergy and Immunology*, **2017**, 173, 99-104 | 3.7 | 12 |
| 61 | Cross-sectional study on allergic sensitization of Austrian adolescents using molecule-based IgE profiling. *Allergy: European Journal of Allergy and Clinical Immunology*, **2017**, 72, 754-763 | 9.3 | 32 |
| 60 | Endolysosomal Degradation of Allergenic Ole e 1-Like Proteins: Analysis of Proteolytic Cleavage Sites Revealing T Cell Epitope-Containing Peptides. *International Journal of Molecular Sciences*, **2017**, 18, | 6.3 | 7 |
| 59 | Multi-Approach Analysis for the Identification of Proteases within Birch Pollen. *International Journal of Molecular Sciences*, **2017**, 18, | 6.3 | 11 |
| 58 | Marker Allergens of Weed Pollen: Basic Considerations and Diagnostic Benefits in Routine Clinical Practice **2017**, 227-240 | | |
| 57 | Regulatory T Cell Specificity Directs Tolerance versus Allergy against Aeroantigens in Humans. *Cell*, **2016**, 167, 1067-1078.e16 | 56.2 | 170 |
| 56 | Cloning, Purification and Characterization of the Collagenase ColA Expressed by Bacillus cereus ATCC 14579. *PLoS ONE*, **2016**, 11, e0162433 | 3.7 | 10 |
| 55 | Pollen Allergens for Molecular Diagnosis. *Current Allergy and Asthma Reports*, **2016**, 16, 31 | 5.6 | 33 |
| 54 | EAACI Molecular Allergology User's Guide. *Pediatric Allergy and Immunology*, **2016**, 27 Suppl 23, 1-250 | 4.2 | 441 |
| 53 | Pectate lyase pollen allergens: sensitization profiles and cross-reactivity pattern. *PLoS ONE*, **2015**, 10, e0120038 | 3.7 | 31 |
| 52 | Markerallergene von Kräuterpollen: diagnostischer Nutzen im klinischen Alltag **2015**, 193-204 | | |

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| 51 | Ovalbumin modified with pyrraline, a Maillard reaction product, shows enhanced T-cell immunogenicity. *Journal of Biological Chemistry*, **2014**, 289, 7919-28 | 5.4 | 53 |
| 50 | Nitration of the birch pollen allergen Bet v 1.0101: efficiency and site-selectivity of liquid and gaseous nitrating agents. *Journal of Proteome Research*, **2014**, 13, 1570-7 | 5.6 | 36 |
| 49 | Prevention of intestinal allergy in mice by rflaA:Ova is associated with enforced antigen processing and TLR5-dependent IL-10 secretion by mDC. *PLoS ONE*, **2014**, 9, e87822 | 3.7 | 16 |
| 48 | Marker allergens of weed pollen - basic considerations and diagnostic benefits in the clinical routine: Part 16 of the Series Molecular Allergology. *Allergo Journal International*, **2014**, 23, 274-280 | 1.5 | 17 |
| 47 | Markerallergene von Kr□uterpollen □Grundlagen und diagnostischer Nutzen im klinischen Alltag. *Allergo Journal*, **2014**, 23, 20-26 | 0 | |
| 46 | Oil body-associated hazelnut allergens including oleosins are underrepresented in diagnostic extracts but associated with severe symptoms. *Clinical and Translational Allergy*, **2014**, 4, 4 | 5.2 | 37 |
| 45 | Plantago lanceolata: an important trigger of summer pollinosis with limited IgE cross-reactivity. *Journal of Allergy and Clinical Immunology*, **2014**, 134, 472-5 | 11.5 | 19 |
| 44 | Allergens of weed pollen: an overview on recombinant and natural molecules. *Methods*, **2014**, 66, 55-66 | 4.6 | 61 |
| 43 | Glutathione-S-transferase: a minor allergen in birch pollen due to limited release from hydrated pollen. *PLoS ONE*, **2014**, 9, e109075 | 3.7 | 18 |
| 42 | Cockroach and Other Inhalant Insect Allergens **2014**, 203-215 | | |
| 41 | Allergenic relevance of nonspecific lipid transfer proteins 2: Identification and characterization of Api g 6 from celery tuber as representative of a novel IgE-binding protein family. *Molecular Nutrition and Food Research*, **2013**, 57, 2061-70 | 5.9 | 23 |
| 40 | Peach allergy in China: a dominant role for mugwort pollen lipid transfer protein as a primary sensitizer. *Journal of Allergy and Clinical Immunology*, **2013**, 131, 224-6.e1-3 | 11.5 | 70 |
| 39 | Novel allergens from ancient foods: Man e 5 from manioc (Manihot esculenta Crantz) cross reacts with Hev b 5 from latex. *Molecular Nutrition and Food Research*, **2013**, 57, 1100-9 | 5.9 | 10 |
| 38 | Expression of the major mugwort pollen allergen Art v 1 in tobacco plants and cell cultures: problems and perspectives for allergen production in plants. *Plant Cell Reports*, **2012**, 31, 561-71 | 5.1 | 6 |
| 37 | Developments in the field of allergy in 2011 through the eyes of Clinical and Experimental Allergy. *Clinical and Experimental Allergy*, **2012**, 42, 1697-723 | 4.1 | 2 |
| 36 | Specific allergen concentration of WHO and FDA reference preparations measured using a multiple allergen standard. *Journal of Allergy and Clinical Immunology*, **2012**, 129, 1408-10 | 11.5 | 14 |
| 35 | A multi-allergen standard for the calibration of immunoassays: CREATE principles applied to eight purified allergens. *Allergy: European Journal of Allergy and Clinical Immunology*, **2012**, 67, 235-41 | 9.3 | 34 |
| 34 | Distinct roles of secreted HtrA proteases from gram-negative pathogens in cleaving the junctional protein and tumor suppressor E-cadherin. *Journal of Biological Chemistry*, **2012**, 287, 10115-10120 | 5.4 | 122 |

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| 33 | Protein unfolding strongly modulates the allergenicity and immunogenicity of Pru p 3, the major peach allergen. *Journal of Allergy and Clinical Immunology*, **2011**, 128, 1022-30.e1-7 | 11.5 | 65 |
| 32 | Allergic reactions to manioc (Manihot esculenta Crantz): identification of novel allergens with potential involvement in latex-fruit syndrome. *Journal of Allergy and Clinical Immunology*, **2011**, 128, 1367-9 | 11.5 | 15 |
| 31 | Sensitization prevalence, antibody cross-reactivity and immunogenic peptide profile of Api g 2, the non-specific lipid transfer protein 1 of celery. *PLoS ONE*, **2011**, 6, e24150 | 3.7 | 44 |
| 30 | N-Nitrosodiethylamine genotoxicity in primary rat hepatocytes: effects of cytochrome P450 induction by phenobarbital. *Toxicology Letters*, **2011**, 206, 139-43 | 4.4 | 7 |
| 29 | N-nitrosodiethylamine genotoxicity evaluation: a cytochrome P450 induction study in rat hepatocytes. *Genetics and Molecular Research*, **2011**, 10, 2340-8 | 1.2 | 8 |
| 28 | Molecular characterization of Api g 2, a novel allergenic member of the lipid-transfer protein 1 family from celery stalks. *Molecular Nutrition and Food Research*, **2011**, 55, 568-77 | 5.9 | 23 |
| 27 | Characterization of novel peroxisome proliferator-activated receptor □coactivator-1□(PGC-1)□ isoform in human liver. *Journal of Biological Chemistry*, **2011**, 286, 42923-36 | 5.4 | 25 |
| 26 | Is aboriginal food less allergenic? Comparing IgE-reactivity of eggs from modern and ancient chicken breeds in a cohort of allergic children. *PLoS ONE*, **2011**, 6, e19062 | 3.7 | 12 |
| 25 | A new allergen from ragweed (Ambrosia artemisiifolia) with homology to art v 1 from mugwort. *Journal of Biological Chemistry*, **2010**, 285, 27192-27200 | 5.4 | 61 |
| 24 | Targeting the cysteine-stabilized fold of Art v 1 for immunotherapy of Artemisia pollen allergy. *Molecular Immunology*, **2010**, 47, 1292-8 | 4.3 | 23 |
| 23 | The role of lipid transfer proteins in allergic diseases. *Current Allergy and Asthma Reports*, **2010**, 10, 326-35 | 3.6 | 115 |
| 22 | Mapping the interactions between a major pollen allergen and human IgE antibodies. *Structure*, **2010**, 18, 1011-21 | 5.2 | 44 |
| 21 | Characterization of plant food allergens: an overview on physicochemical and immunological techniques. *Molecular Nutrition and Food Research*, **2010**, 54, 93-112 | 5.9 | 30 |
| 20 | 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, 445-51 | 4.5 | 24 |
| 19 | Sequence-specific 1H, 15N and 13C resonance assignments of Art v 1: a proline-rich allergen of Artemisia vulgaris pollen. *Biomolecular NMR Assignments*, **2009**, 3, 103-6 | 0.7 | 5 |
| 18 | Immunologic characterization of isoforms of Car b 1 and Que a 1, the major hornbeam and oak pollen allergens. *Allergy: European Journal of Allergy and Clinical Immunology*, **2009**, 64, 452-60 | 9.3 | 35 |
| 17 | Immune recognition of novel isoforms and domains of the mugwort pollen major allergen Art v 1. *Molecular Immunology*, **2009**, 46, 416-21 | 4.3 | 24 |
| 16 | Isoform identification and characterization of Art v 3, the lipid-transfer protein of mugwort pollen. *Molecular Immunology*, **2009**, 46, 1919-24 | 4.3 | 38 |

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| 15 | The CREATE project: development of certified reference materials for allergenic products and validation of methods for their quantification. *Allergy: European Journal of Allergy and Clinical Immunology*, **2008**, 63, 310-26 | 9.3 | 148 |
| 14 | Array-based profiling of ragweed and mugwort pollen allergens. *Allergy: European Journal of Allergy and Clinical Immunology*, **2008**, 63, 1543-9 | 9.3 | 74 |
| 13 | Prevalence of IgE-binding to Art v 1, Art v 4 and Amb a 1 in mugwort-allergic patients. *International Archives of Allergy and Immunology*, **2008**, 145, 94-101 | 3.7 | 46 |
| 12 | Characterization of HLA class II/peptide-TCR interactions of the immunodominant T cell epitope in Art v 1, the major mugwort pollen allergen. *Journal of Immunology*, **2008**, 181, 3636-42 | 5.3 | 20 |
| 11 | Production of recombinant allergens in plants. *Phytochemistry Reviews*, **2008**, 7, 539-552 | 7.7 | 13 |
| 10 | Mutational analysis of amino acid positions crucial for IgE-binding epitopes of the major apple (Malus domestica) allergen, Mal d 1. *International Archives of Allergy and Immunology*, **2006**, 139, 53-62 | 3.7 | 62 |
| 9 | Pollen-food syndromes associated with weed pollinosis: an update from the molecular point of view. *Allergy: European Journal of Allergy and Clinical Immunology*, **2006**, 61, 461-76 | 9.3 | 177 |
| 8 | Artemisia and Ambrosia hypersensitivity: co-sensitization or co-recognition?. *Clinical and Experimental Allergy*, **2006**, 36, 658-65 | 4.1 | 73 |
| 7 | Characterization of recombinant Mal d 4 and its application for component-resolved diagnosis of apple allergy. *Clinical and Experimental Allergy*, **2006**, 36, 1087-96 | 4.1 | 36 |
| 6 | Physico-chemical characterization of candidate reference materials. *Arbeiten Aus Dem Paul-Ehrlich-Institut (Bundesamt F Sera Und Impfstoffe) Zu Frankfurt A M*, **2006**, 75-82; discussion 82-3, 100-4 | | 3 |
| 5 | The spectrum of allergens in ragweed and mugwort pollen. *International Archives of Allergy and Immunology*, **2005**, 138, 337-46 | 3.7 | 120 |
| 4 | Antigen presentation of the immunodominant T-cell epitope of the major mugwort pollen allergen, Art v 1, is associated with the expression of HLA-DRB1 *01. *Journal of Allergy and Clinical Immunology*, **2005**, 115, 399-404 | 11.5 | 56 |
| 3 | Biology of weed pollen allergens. *Current Allergy and Asthma Reports*, **2004**, 4, 391-400 | 5.6 | 65 |
| 2 | Over-expression and production of plant allergens by molecular farming strategies. *Methods*, **2004**, 32, 235-40 | 4.6 | 9 |
| 1 | Immunodominant B cell epitope in a hotspot mutation site and mechanism of immune escape for SARS-CoV-2 | | 3 |