

# Gerhard Adam

## List of Publications by Citations

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106  
papers

6,003  
citations

40  
h-index

76  
g-index

111  
ext. papers

7,046  
ext. citations

5.1  
avg, IF

5.18  
L-index

#	Paper	IF	Citations
106	The <i>Fusarium graminearum</i> genome reveals a link between localized polymorphism and pathogen specialization. <i>Science</i> , <b>2007</b> , 317, 1400-2	33.3	668
105	Detoxification of the <i>Fusarium</i> mycotoxin deoxynivalenol by a UDP-glucosyltransferase from <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 47905-14	5.4	396
104	Masked mycotoxins: determination of a deoxynivalenol glucoside in artificially and naturally contaminated wheat by liquid chromatography-tandem mass spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , <b>2005</b> , 53, 3421-5	5.7	317
103	The ability to detoxify the mycotoxin deoxynivalenol colocalizes with a major quantitative trait locus for <i>Fusarium</i> head blight resistance in wheat. <i>Molecular Plant-Microbe Interactions</i> , <b>2005</b> , 18, 1318-24	3.6	299
102	Hydrolytic fate of deoxynivalenol-3-glucoside during digestion. <i>Toxicology Letters</i> , <b>2011</b> , 206, 264-7	4.4	186
101	The UGT73C5 of <i>Arabidopsis thaliana</i> glucosylates brassinosteroids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 15253-8	11.5	174
100	Formation, determination and significance of masked and other conjugated mycotoxins. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 395, 1243-52	4.4	165
99	Development of a <i>Fusarium graminearum</i> Affymetrix GeneChip for profiling fungal gene expression in vitro and in planta. <i>Fungal Genetics and Biology</i> , <b>2006</b> , 43, 316-25	3.9	150
98	Assessment of human deoxynivalenol exposure using an LC-MS/MS based biomarker method. <i>Toxicology Letters</i> , <b>2012</b> , 211, 85-90	4.4	131
97	Transformation system for <i>Hypocrea jecorina</i> ( <i>Trichoderma reesei</i> ) that favors homologous integration and employs reusable bidirectionally selectable markers. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 114-21	4.8	119
96	Metabolism of the masked mycotoxin deoxynivalenol-3-glucoside in pigs. <i>Toxicology Letters</i> , <b>2014</b> , 229, 190-7	4.4	116
95	Development and validation of a rapid multi-biomarker liquid chromatography/tandem mass spectrometry method to assess human exposure to mycotoxins. <i>Rapid Communications in Mass Spectrometry</i> , <b>2012</b> , 26, 1533-40	2.2	112
94	New tricks of an old enemy: isolates of <i>Fusarium graminearum</i> produce a type A trichothecene mycotoxin. <i>Environmental Microbiology</i> , <b>2015</b> , 17, 2588-600	5.2	111
93	Transcriptome analysis of the barley-deoxynivalenol interaction: evidence for a role of glutathione in deoxynivalenol detoxification. <i>Molecular Plant-Microbe Interactions</i> , <b>2010</b> , 23, 962-76	3.6	110
92	Simultaneous determination of major type A and B trichothecenes, zearalenone and certain modified metabolites in Finnish cereal grains with a novel liquid chromatography-tandem mass spectrometric method. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 4745-55	4.4	109
91	Metabolism of the masked mycotoxin deoxynivalenol-3-glucoside in rats. <i>Toxicology Letters</i> , <b>2012</b> , 213, 367-73	4.4	107
90	Validation of a candidate deoxynivalenol-inactivating UDP-glucosyltransferase from barley by heterologous expression in yeast. <i>Molecular Plant-Microbe Interactions</i> , <b>2010</b> , 23, 977-86	3.6	98

89	Metabolism of Zearalenone and Its Major Modified Forms in Pigs. <i>Toxins</i> , <b>2017</b> , 9,	4.9	94
88	CESTA, a positive regulator of brassinosteroid biosynthesis. <i>EMBO Journal</i> , <b>2011</b> , 30, 1149-61	13	90
87	Stable isotopic labelling-assisted untargeted metabolic profiling reveals novel conjugates of the mycotoxin deoxynivalenol in wheat. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 5031-6	4.4	88
86	Control of peroxisome proliferation in <i>Saccharomyces cerevisiae</i> by ADR1, SNF1 (CAT1, CCR1) and SNF4 (CAT3). <i>Yeast</i> , <b>1992</b> , 8, 303-9	3.4	86
85	Transcriptomic characterization of two major <i>Fusarium</i> resistance quantitative trait loci (QTLs), Fhb1 and Qfhs.ifa-5A, identifies novel candidate genes. <i>Molecular Plant Pathology</i> , <b>2013</b> , 14, 772-85	5.7	85
84	The <i>Fusarium graminearum</i> genome reveals more secondary metabolite gene clusters and hints of horizontal gene transfer. <i>PLoS ONE</i> , <b>2014</b> , 9, e110311	3.7	80
83	FGDB: revisiting the genome annotation of the plant pathogen <i>Fusarium graminearum</i> . <i>Nucleic Acids Research</i> , <b>2011</b> , 39, D637-9	20.1	73
82	Transgenic <i>Arabidopsis thaliana</i> expressing a barley UDP-glucosyltransferase exhibit resistance to the mycotoxin deoxynivalenol. <i>Journal of Experimental Botany</i> , <b>2012</b> , 63, 4731-40	7	70
81	FGDB: a comprehensive fungal genome resource on the plant pathogen <i>Fusarium graminearum</i> . <i>Nucleic Acids Research</i> , <b>2006</b> , 34, D456-8	20.1	69
80	GC-MS based targeted metabolic profiling identifies changes in the wheat metabolome following deoxynivalenol treatment. <i>Metabolomics</i> , <b>2015</b> , 11, 722-738	4.7	66
79	Biotransformation of the mycotoxin deoxynivalenol in <i>Fusarium</i> resistant and susceptible near isogenic wheat lines. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119656	3.7	65
78	Zearalenone-16-O-glucoside: a new masked mycotoxin. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 1181-9	5.7	63
77	Cleavage of zearalenone by <i>Trichosporon</i> mycotoxinivorans to a novel nonestrogenic metabolite. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 2353-9	4.8	62
76	Heterologous expression of <i>Arabidopsis</i> UDP-glucosyltransferases in <i>Saccharomyces cerevisiae</i> for production of zearalenone-4-O-glucoside. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 4404-10	4.8	61
75	In vivo contribution of deoxynivalenol-3- $\beta$ -D-glucoside to deoxynivalenol exposure in broiler chickens and pigs: oral bioavailability, hydrolysis and toxicokinetics. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 699-712	5.8	58
74	A novel stable isotope labelling assisted workflow for improved untargeted LC-HRMS based metabolomics research. <i>Metabolomics</i> , <b>2014</b> , 10, 754-769	4.7	57
73	Deoxynivalenol-sulfates: identification and quantification of novel conjugated (masked) mycotoxins in wheat. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 1033-9	4.4	56
72	Direct quantification of deoxynivalenol glucuronide in human urine as biomarker of exposure to the <i>Fusarium</i> mycotoxin deoxynivalenol. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 195-200	4.4	56

71	Identification of two GDP-6-deoxy-D-lyxo-4-hexulose reductases synthesizing GDP-D-rhamnose in <i>Aneurinibacillus thermoaerophilus</i> L420-91T. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 5577-83	5.4	55
70	Metabolism of the <i>Fusarium</i> Mycotoxins T-2 Toxin and HT-2 Toxin in Wheat. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 7862-72	5.7	54
69	Functional characterization of two clusters of <i>Brachypodium distachyon</i> UDP-glycosyltransferases encoding putative deoxynivalenol detoxification genes. <i>Molecular Plant-Microbe Interactions</i> , <b>2013</b> , 26, 781-92	3.6	52
68	A barley UDP-glucosyltransferase inactivates nivalenol and provides <i>Fusarium</i> Head Blight resistance in transgenic wheat. <i>Journal of Experimental Botany</i> , <b>2017</b> , 68, 2187-2197	7	47
67	Tracing the metabolism of HT-2 toxin and T-2 toxin in barley by isotope-assisted untargeted screening and quantitative LC-HRMS analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 8019-33	4.4	46
66	Effects of oral exposure to naturally-occurring and synthetic deoxynivalenol congeners on proinflammatory cytokine and chemokine mRNA expression in the mouse. <i>Toxicology and Applied Pharmacology</i> , <b>2014</b> , 278, 107-15	4.6	39
65	Comparative <i>in vitro</i> cytotoxicity of modified deoxynivalenol on porcine intestinal epithelial cells. <i>Food and Chemical Toxicology</i> , <b>2016</b> , 95, 103-9	4.7	37
64	Identification of a novel human deoxynivalenol metabolite enhancing proliferation of intestinal and urinary bladder cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 33854	4.9	36
63	Individual and combined roles of malonichrome, ferricrocin, and TAFC siderophores in <i>Fusarium graminearum</i> pathogenic and sexual development. <i>Frontiers in Microbiology</i> , <b>2014</b> , 5, 759	5.7	35
62	Untargeted profiling of tracer-derived metabolites using stable isotopic labeling and fast polarity-switching LC-ESI-HRMS. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11533-7	7.8	35
61	Synthesis of deoxynivalenol-3- $\beta$ -D-O-glucuronide for its use as biomarker for dietary deoxynivalenol exposure. <i>World Mycotoxin Journal</i> , <b>2012</b> , 5, 127-132	2.5	34
60	A sensitive and inexpensive yeast bioassay for the mycotoxin zearalenone and other compounds with estrogenic activity. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 805-11	4.8	33
59	<i>Saccharomyces cerevisiae</i> URH1 (encoding uridine-cytidine N-ribohydrolase): functional complementation by a nucleoside hydrolase from a protozoan parasite and by a mammalian uridine phosphorylase. <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 1336-43	4.8	33
58	Comparison of anorectic and emetic potencies of deoxynivalenol (vomitoxin) to the plant metabolite deoxynivalenol-3-glucoside and synthetic deoxynivalenol derivatives EN139528 and EN139544. <i>Toxicological Sciences</i> , <b>2014</b> , 142, 167-81	4.4	32
57	Metabolically independent and accurately adjustable <i>Aspergillus</i> sp. expression system. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 672-8	4.8	32
56	Crystal Structure of Os79 (Os04g0206600) from <i>Oryza sativa</i> : A UDP-glucosyltransferase Involved in the Detoxification of Deoxynivalenol. <i>Biochemistry</i> , <b>2016</b> , 55, 6175-6186	3.2	32
55	<i>Saccharomyces Cerevisiae</i> and <i>Arabidopsis Thaliana</i> : Useful Model Systems for the Identification of Molecular Mechanisms Involved in Resistance of Plants to Toxins. <i>European Journal of Plant Pathology</i> , <b>2002</b> , 108, 699-703	2.1	30
54	Toxin-dependent utilization of engineered ribosomal protein L3 limits trichothecene resistance in transgenic plants. <i>Plant Biotechnology Journal</i> , <b>2004</b> , 2, 329-40	11.6	29

53	Biochemical Characterization of a Recombinant UDP-glucosyltransferase from Rice and Enzymatic Production of Deoxynivalenol-3-O- $\beta$ -D-glucoside. <i>Toxins</i> , <b>2015</b> , 7, 2685-700	4.9	28
52	Short review: Metabolism of the Fusarium mycotoxins deoxynivalenol and zearalenone in plants. <i>Mycotoxin Research</i> , <b>2007</b> , 23, 68-72	4	28
51	Determination of the Mycotoxin Content in Distiller's Dried Grain with Solubles Using a Multianalyte UHPLC-MS/MS Method. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 9441-51	5.7	26
50	Fast and reproducible chemical synthesis of zearalenone-14- $\beta$ -D-glucuronide. <i>World Mycotoxin Journal</i> , <b>2012</b> , 5, 289-296	2.5	26
49	The Metabolic Fate of Deoxynivalenol and Its Acetylated Derivatives in a Wheat Suspension Culture: Identification and Detection of DON-15-O-Glucoside, 15-Acetyl-DON-3-O-Glucoside and 15-Acetyl-DON-3-Sulfate. <i>Toxins</i> , <b>2015</b> , 7, 3112-26	4.9	25
48	Engineered baker's yeast as a sensitive bioassay indicator organism for the trichothecene toxin deoxynivalenol. <i>Journal of Microbiological Methods</i> , <b>2008</b> , 72, 306-12	2.8	22
47	Study on the uptake and deglycosylation of the masked forms of zearalenone in human intestinal Caco-2 cells. <i>Food and Chemical Toxicology</i> , <b>2016</b> , 98, 232-239	4.7	20
46	Response of intestinal HT-29 cells to the trichothecene mycotoxin deoxynivalenol and its sulfated conjugates. <i>Toxicology Letters</i> , <b>2018</b> , 295, 424-437	4.4	20
45	The Fusarium metabolite culmorin suppresses the in vitro glucuronidation of deoxynivalenol. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 1729-1743	5.8	19
44	DON-glycosides: Characterisation of synthesis products and screening for their occurrence in DON-treated wheat samples. <i>Mycotoxin Research</i> , <b>2005</b> , 21, 123-7	4	19
43	Chemical synthesis of culmorin metabolites and their biologic role in culmorin and acetyl-culmorin treated wheat cells. <i>Organic and Biomolecular Chemistry</i> , <b>2018</b> , 16, 2043-2048	3.9	18
42	A Versatile Family 3 Glycoside Hydrolase from <i>Bifidobacterium adolescentis</i> Hydrolyzes $\beta$ -Glucosides of the Fusarium Mycotoxins Deoxynivalenol, Nivalenol, and HT-2 Toxin in Cereal Matrices. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 4885-93	4.8	18
41	Methylthiodeoxynivalenol (MTD): insight into the chemistry, structure and toxicity of thia-Michael adducts of trichothecenes. <i>Organic and Biomolecular Chemistry</i> , <b>2014</b> , 12, 5144-50	3.9	18
40	Isolation and characterization of a new less-toxic derivative of the Fusarium mycotoxin diacetoxyscirpenol after thermal treatment. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 9709-14	5.7	17
39	Biotransformation of the Mycotoxin Zearalenone to its Metabolites Hydrolyzed Zearalenone (HZEN) and Decarboxylated Hydrolyzed Zearalenone (DHZEN) Diminishes its Estrogenicity In Vitro and In Vivo. <i>Toxins</i> , <b>2019</b> , 11,	4.9	16
38	Stable Isotope-Assisted Plant Metabolomics: Investigation of Phenylalanine-Related Metabolic Response in Wheat Upon Treatment With the Virulence Factor Deoxynivalenol. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1137	6.2	16
37	Synthesis of deoxynivalenol-glucosides and their characterization using a QTrap LC-MS/MS. <i>Mycotoxin Research</i> , <b>2003</b> , 19, 47-50	4	16
36	Synthesis of Mono- and Di-Glucosides of Zearalenone and $\beta$ -Zearalenol by Recombinant Barley Glucosyltransferase HvUGT14077. <i>Toxins</i> , <b>2017</b> , 9,	4.9	15

35	Sulfation of deoxynivalenol, its acetylated derivatives, and T2-toxin. <i>Tetrahedron</i> , <b>2014</b> , 70, 5260-5266	2.4	15
34	Synthesis of zearalenone-16- $\beta$ -D-glucoside and zearalenone-16-sulfate: A tale of protecting resorcylic acid lactones for regiocontrolled conjugation. <i>Beilstein Journal of Organic Chemistry</i> , <b>2014</b> , 10, 1129-34	2.5	15
33	Sulfation of $\beta$ -resorcylic acid esters—first synthesis of zearalenone-14-sulfate. <i>Tetrahedron Letters</i> , <b>2013</b> , 54, 3290-3293	2	15
32	Determinants and Expansion of Specificity in a Trichothecene UDP-Glucosyltransferase from <i>Oryza sativa</i> . <i>Biochemistry</i> , <b>2017</b> , 56, 6585-6596	3.2	14
31	Cloning and characterization of the ribosomal protein L3 (RPL3) gene family from <i>Triticum aestivum</i> . <i>Molecular Genetics and Genomics</i> , <b>2007</b> , 277, 507-17	3.1	14
30	Critical evaluation of indirect methods for the determination of deoxynivalenol and its conjugated forms in cereals. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 6009-20	4.4	13
29	Stable Isotope-Assisted Metabolomics for Deciphering Xenobiotic Metabolism in Mammalian Cell Culture. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 970-981	4.9	13
28	Less-toxic rearrangement products of NX-toxins are formed during storage and food processing. <i>Toxicology Letters</i> , <b>2018</b> , 284, 205-212	4.4	12
27	UDP-Glucosyltransferases from Rice, Brachypodium, and Barley: Substrate Specificities and Synthesis of Type A and B Trichothecene-3-O- $\beta$ -D-glucosides. <i>Toxins</i> , <b>2018</b> , 10,	4.9	12
26	Retrofitting YACs for direct DNA transfer into plant cells. <i>Plant Journal</i> , <b>1997</b> , 11, 1349-58	6.9	12
25	Biolistic transfer of large DNA fragments to tobacco cells using YACs retrofitted for plant transformation. <i>Molecular Breeding</i> , <b>1998</b> , 4, 449-457	3.4	12
24	New Plasmids for Transformation Allowing Positive-Negative Selection and Efficient Cre-Mediated Marker Recycling. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1954	5.7	12
23	Impact of glutathione modulation on the toxicity of the Fusarium mycotoxins deoxynivalenol (DON), NX-3 and butenolide in human liver cells. <i>Toxicology Letters</i> , <b>2018</b> , 299, 104-117	4.4	12
22	The role of roughage provision on the absorption and disposition of the mycotoxin deoxynivalenol and its acetylated derivatives in calves: from field observations to toxicokinetics. <i>Archives of Toxicology</i> , <b>2019</b> , 93, 293-310	5.8	10
21	Hydrophilic interaction liquid chromatography coupled with tandem mass spectrometry for the quantification of uridine diphosphate-glucose, uridine diphosphate-glucuronic acid, deoxynivalenol and its glucoside: In-house validation and application to wheat. <i>Journal of Chromatography A</i> , <b>2015</b> , 1423, 183-9	4.5	9
20	Isolation and structure elucidation of pentahydroxyscirpene, a trichothecene Fusarium mycotoxin. <i>Journal of Natural Products</i> , <b>2014</b> , 77, 188-92	4.9	9
19	Stereoselective Luche reduction of deoxynivalenol and three of its acetylated derivatives at C8. <i>Toxins</i> , <b>2014</b> , 6, 325-36	4.9	9
18	Production of zearalenone-4-glucoside, $\alpha$ -zearalenol-4-glucoside and $\beta$ -zearalenol-4-glucoside. <i>Mycotoxin Research</i> , <b>2007</b> , 23, 180-4	4	9

17	Identification and Characterization of Carboxylesterases from <i>Brachypodium distachyon</i> Deacetylating Trichothecene Mycotoxins. <i>Toxins</i> , <b>2015</b> , 8,	4.9	9
16	Ribosome quality control is a central protection mechanism for yeast exposed to deoxynivalenol and trichothecin. <i>BMC Genomics</i> , <b>2016</b> , 17, 417	4.5	8
15	Stable Isotope-Assisted Plant Metabolomics: Combination of Global and Tracer-Based Labeling for Enhanced Untargeted Profiling and Compound Annotation. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1366	6.2	7
14	Biochemical Characterization of the Candidate ACC-Deaminases and Virulence Testing of Knockout Mutant Strains. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1072	6.2	6
13	Metabolism of nivalenol and nivalenol-3-glucoside in rats. <i>Toxicology Letters</i> , <b>2019</b> , 306, 43-52	4.4	6
12	Double mutation in tomato ribosomal protein L3 cDNA confers tolerance to deoxynivalenol (DON) in transgenic tobacco. <i>Pakistan Journal of Biological Sciences</i> , <b>2007</b> , 10, 2327-33	0.8	6
11	Fusarium Mycotoxins and Their Role in Plant Pathogen Interactions. <i>Fungal Biology</i> , <b>2015</b> , 199-233	2.3	5
10	Pro-Inflammatory Effects of NX-3 Toxin Are Comparable to Deoxynivalenol and not Modulated by the Co-Occurring Pro-Oxidant Aurofusarin. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	4
9	Identification and Functional Characterization of the Gene Cluster Responsible for Fusaproliferin Biosynthesis in. <i>Toxins</i> , <b>2021</b> , 13,	4.9	4
8	Cross-reactivity of commercial and non-commercial deoxynivalenol-antibodies to emerging trichothecenes and common deoxynivalenol-derivatives. <i>World Mycotoxin Journal</i> , <b>2019</b> , 12, 45-53	2.5	4
7	Ubiquitin and fusarium resistance: Lessons from wheat cDNAs conferring deoxynivalenol resistance in yeast. <i>Cereal Research Communications</i> , <b>2008</b> , 36, 437-441	1.1	3
6	Suppression of Trichothecene-Mediated Immune Response by the Secondary Metabolite Butenolide in Human Colon Epithelial Cells. <i>Frontiers in Nutrition</i> , <b>2020</b> , 7, 127	6.2	3
5	Zearalenone and Zearalenol But Not Their Glucosides Inhibit Heat Shock Protein 90 ATPase Activity. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 1160	5.6	2
4	Cloning and heterologous expression of candidate DON-inactivating UDP-glucosyltransferases from rice and wheat in yeast. <i>Plant Breeding and Seed Science</i> , <b>2011</b> , 64,	0.1	1
3	First results of GEN-AU: Cloning of Deoxynivalenol- and Zearalenone-inactivating UDP-glucosyltransferase genes from <i>Arabidopsis thaliana</i> and expression in yeast for production of mycotoxin-glucosides. <i>Mycotoxin Research</i> , <b>2005</b> , 21, 108-11	4	1
2	Elucidation of xenoestrogen metabolism by non-targeted, stable isotope-assisted mass spectrometry in breast cancer cells. <i>Environment International</i> , <b>2021</b> , 158, 106940	12.9	1
1	Immunosuppressive effect of the Fusarium secondary metabolite butenolide in human colon epithelial cells		1