

# Katja Dettmer

## List of Publications by Year in descending order

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108  
papers

9,209  
citations

61945

43  
h-index

42364

92  
g-index

110  
all docs

110  
docs citations

110  
times ranked

14935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mass spectrometry-based metabolomics. <i>Mass Spectrometry Reviews</i> , 2007, 26, 51-78.	2.8	1,754
2	LDHA-Associated Lactic Acid Production Blunts Tumor Immunosurveillance by T and NK Cells. <i>Cell Metabolism</i> , 2016, 24, 657-671.	7.2	1,126
3	Lactic Acid and Acidification Inhibit TNF Secretion and Glycolysis of Human Monocytes. <i>Journal of Immunology</i> , 2010, 184, 1200-1209.	0.4	325
4	Srebp-controlled glucose metabolism is essential for NK cell functional responses. <i>Nature Immunology</i> , 2017, 18, 1197-1206.	7.0	249
5	Amino acid-dependent cMyc expression is essential for NK cell metabolic and functional responses in mice. <i>Nature Communications</i> , 2018, 9, 2341.	5.8	238
6	Lactate promotes glioma migration by TGF- $\beta$ 2-dependent regulation of matrix metalloproteinase-2. <i>Neuro-Oncology</i> , 2009, 11, 368-380.	0.6	204
7	Metabolite extraction from adherently growing mammalian cells for metabolomics studies: optimization of harvesting and extraction protocols. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1127-1139.	1.9	200
8	Restricting Glycolysis Preserves T Cell Effector Functions and Augments Checkpoint Therapy. <i>Cell Reports</i> , 2019, 29, 135-150.e9.	2.9	189
9	Microbiota Disruption Induced by Early Use of Broad-Spectrum Antibiotics Is an Independent Risk Factor of Outcome after Allogeneic Stem Cell Transplantation. <i>Biology of Blood and Marrow Transplantation</i> , 2017, 23, 845-852.	2.0	183
10	Delaying aging and the aging-associated decline in protein homeostasis by inhibition of tryptophan degradation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14912-14917.	3.3	180
11	Metabolic profiling of major vitamin D metabolites using Diels-Alder derivatization and ultra-performance liquid chromatography-tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1917-1930.	1.9	175
12	Advances in amino acid analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 445-452.	1.9	168
13	Third-party fecal microbiota transplantation following allo-HCT reconstitutes microbiome diversity. <i>Blood Advances</i> , 2018, 2, 745-753.	2.5	167
14	Low urinary indoxyl sulfate levels early after transplantation reflect a disrupted microbiome and are associated with poor outcome. <i>Blood</i> , 2015, 126, 1723-1728.	0.6	164
15	Double genetic disruption of lactate dehydrogenases A and B is required to ablate the Warburg effect-restricting tumor growth to oxidative metabolism. <i>Journal of Biological Chemistry</i> , 2018, 293, 15947-15961.	1.6	160
16	A Metabolome-Wide Association Study of Kidney Function and Disease in the General Population. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 1175-1188.	3.0	159
17	Automated GC-MS analysis of free amino acids in biological fluids. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 870, 222-232.	1.2	158
18	Urinary amino acid analysis: A comparison of iTRAQ-LC-MS/MS, GC-MS, and amino acid analyzer. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 1838-1846.	1.2	150

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19	Metabolomics—a new exciting field within the "omics" sciences.. Environmental Health Perspectives, 2004, 112, A396-7.	2.8	140
20	Nuclear magnetic resonance and mass spectrometry-based milk metabolomics in dairy cows during early and late lactation. Journal of Dairy Science, 2010, 93, 1539-1550.	1.4	133
21	Quantitative profiling of tryptophan metabolites in serum, urine, and cell culture supernatants by liquid chromatography—tandem mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 401, 3249-3261.	1.9	130
22	Urinary Metabolite Quantification Employing 2D NMR Spectroscopy. Analytical Chemistry, 2008, 80, 9288-9297.	3.2	123
23	Ferritin-Mediated Iron Sequestration Stabilizes Hypoxia-Inducible Factor-1 $\alpha$ upon LPS Activation in the Presence of Ample Oxygen. Cell Reports, 2015, 13, 2048-2055.	2.9	106
24	Comprehensive two-dimensional gas chromatography in metabolomics. Analytical and Bioanalytical Chemistry, 2012, 402, 1993-2013.	1.9	104
25	Mistargeting of Peroxisomal EHHADH and Inherited Renal Fanconi's Syndrome. New England Journal of Medicine, 2014, 370, 129-138.	13.9	99
26	D-2-hydroxyglutarate interferes with HIF-1 $\alpha$ stability skewing T-cell metabolism towards oxidative phosphorylation and impairing Th17 polarization. Oncoimmunology, 2018, 7, e1445454.	2.1	97
27	Rifaximin preserves intestinal microbiota balance in patients undergoing allogeneic stem cell transplantation. Bone Marrow Transplantation, 2016, 51, 1087-1092.	1.3	90
28	Correcting for natural isotope abundance and tracer impurity in MS-, MS/MS- and high-resolution-multiple-tracer-data from stable isotope labeling experiments with IsoCorrectoR. Scientific Reports, 2018, 8, 17910.	1.6	88
29	New Aspects of an Old Drug — Diclofenac Targets MYC and Glucose Metabolism in Tumor Cells. PLoS ONE, 2013, 8, e66987.	1.1	86
30	Polyol Pathway Links Glucose Metabolism to the Aggressiveness of Cancer Cells. Cancer Research, 2018, 78, 1604-1618.	0.4	83
31	Mitochondrial arginase-2 is essential for IL-10 metabolic reprogramming of inflammatory macrophages. Nature Communications, 2021, 12, 1460.	5.8	74
32	Direct and tumor microenvironment mediated influences of 5 $\alpha$ -deoxy-5 $\alpha$ -(methylthio)adenosine on tumor progression of malignant melanoma. Journal of Cellular Biochemistry, 2009, 106, 210-219.	1.2	70
33	Detrimental Effect of Broad-spectrum Antibiotics on Intestinal Microbiome Diversity in Patients After Allogeneic Stem Cell Transplantation: Lack of Commensal Sparing Antibiotics. Clinical Infectious Diseases, 2019, 68, 1303-1310.	2.9	69
34	Development of a quantitative, validated Capillary electrophoresis—time of flight — mass spectrometry method with integrated high—confidence analyte identification for metabolomics. Electrophoresis, 2008, 29, 2203-2214.	1.3	63
35	Extracellular Citrate Affects Critical Elements of Cancer Cell Metabolism and Supports Cancer Development <i>In Vivo</i> . Cancer Research, 2018, 78, 2513-2523.	0.4	59
36	Integrative Normalization and Comparative Analysis for Metabolic Fingerprinting by Comprehensive Two-Dimensional Gas Chromatography—Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2009, 81, 5731-5739.	3.2	56

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37	Down-Regulation of Methylthioadenosine Phosphorylase (MTAP) Induces Progression of Hepatocellular Carcinoma via Accumulation of 5â€²-Deoxy-5â€²-Methylthioadenosine (MTA). <i>American Journal of Pathology</i> , 2011, 178, 1145-1152.	1.9	54
38	Capillary electrophoresis and column chromatography in biomedical chiral amino acid analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 695-706.	1.9	53
39	Comparison of derivatization and chromatographic methods for GCâ€”MS analysis of amino acid enantiomers in physiological samples. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 1103-1112.	1.2	53
40	Improved enantiomer resolution and quantification of free d-amino acids in serum and urine by comprehensive two-dimensional gas chromatographyâ€”time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 4537-4544.	1.8	53
41	Glycine Amidinotransferase (GATM), Renal Fanconi Syndrome, and Kidney Failure. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1849-1858.	3.0	53
42	Reduced Expression of Fibroblast Growth Factor Receptor 2IIIb in Hepatocellular Carcinoma Induces a More Aggressive Growth. <i>American Journal of Pathology</i> , 2010, 176, 1433-1442.	1.9	52
43	Suppressive effects of tumor cell-derived 5â€²-deoxy-5â€²-methylthioadenosine on human T cells. <i>Oncolmmunology</i> , 2016, 5, e1184802.	2.1	48
44	Autism and urinary exogenous neuropeptides: development of an on-line SPEâ€”HPLCâ€”tandem mass spectrometry method to test the opioid excess theory. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1643-1651.	1.9	47
45	Cooperative STAT/NF-Î²B signaling regulates lymphoma metabolic reprogramming and aberrant GOT2 expression. <i>Nature Communications</i> , 2018, 9, 1514.	5.8	44
46	Arginase impedes the resolution of colitis by altering the microbiome and metabolome. <i>Journal of Clinical Investigation</i> , 2020, 130, 5703-5720.	3.9	44
47	Balancing of mitochondrial translation through METTL8-mediated m3C modification of mitochondrial tRNAs. <i>Molecular Cell</i> , 2021, 81, 4810-4825.e12.	4.5	44
48	Comparison of serum versus plasma collection in gas chromatography â€” Mass spectrometryâ€”based metabolomics. <i>Electrophoresis</i> , 2010, 31, 2365-2373.	1.3	43
49	Performance Evaluation of Gas Chromatographyâ€”Atmospheric Pressure Chemical Ionizationâ€”Time-of-Flight Mass Spectrometry for Metabolic Fingerprinting and Profiling. <i>Analytical Chemistry</i> , 2011, 83, 7514-7522.	3.2	43
50	Quantification of intermediates of the methionine and polyamine metabolism by liquid chromatographyâ€”tandem mass spectrometry in cultured tumor cells and liver biopsies. <i>Journal of Chromatography A</i> , 2010, 1217, 3282-3288.	1.8	39
51	Metformin inhibits proliferation and migration of glioblastoma cells independently of TGF-Î²2. <i>Cell Cycle</i> , 2016, 15, 1755-1766.	1.3	39
52	Amino Acid Analysis in Physiological Samples by GCâ€”MS with Propyl Chloroformate Derivatization and iTRAQâ€”LCâ€”MS/MS. <i>Methods in Molecular Biology</i> , 2012, 828, 165-181.	0.4	33
53	From Discovery to Translation: Characterization of C-Mannosyltryptophan and Pseudouridine as Markers of Kidney Function. <i>Scientific Reports</i> , 2017, 7, 17400.	1.6	31
54	Quantitative analysis of 5â€²-deoxy-5â€²-methylthioadenosine in melanoma cells by liquid chromatography-stable isotope ratio tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 876, 123-128.	1.2	30

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55	Distinct metabolic differences between various human cancer and primary cells. <i>Electrophoresis</i> , 2013, 34, 2836-2847.	1.3	29
56	Limitation of TCA Cycle Intermediates Represents an Oxygen-Independent Nutritional Antibacterial Effector Mechanism of Macrophages. <i>Cell Reports</i> , 2019, 26, 3502-3510.e6.	2.9	29
57	Assessment of ionic liquid stationary phases for the GC analysis of fatty acid methyl esters. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 4931-4939.	1.9	28
58	Renal Fanconi Syndrome Is Caused by a Mistargeting-Based Mitochondriopathy. <i>Cell Reports</i> , 2016, 15, 1423-1429.	2.9	27
59	Early changes in the liver's soluble proteome from mice fed a nonalcoholic steatohepatitis inducing diet. <i>Proteomics</i> , 2012, 12, 1437-1451.	1.3	26
60	High CD206 levels in Hodgkin lymphoma-educated macrophages are linked to matrix remodeling and lymphoma dissemination. <i>Molecular Oncology</i> , 2020, 14, 571-589.	2.1	25
61	Comparison of two algorithmic data processing strategies for metabolic fingerprinting by comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2011, 1218, 7031-8.	1.8	24
62	Correlations between Milk and Plasma Levels of Amino and Carboxylic Acids in Dairy Cows. <i>Journal of Proteome Research</i> , 2013, 12, 5223-5232.	1.8	24
63	Continuous Water Infusion Enhances Atmospheric Pressure Chemical Ionization of Methyl Chloroformate Derivatives in Gas Chromatography Coupled to Time-of-Flight Mass Spectrometry-Based Metabolomics. <i>Analytical Chemistry</i> , 2014, 86, 9186-9195.	3.2	24
64	Quantification of Metabolites by NMR Spectroscopy in the Presence of Protein. <i>Journal of Proteome Research</i> , 2017, 16, 1784-1796.	1.8	24
65	Changes in the hepatic mitochondrial and membrane proteome in mice fed a non-alcoholic steatohepatitis inducing diet. <i>Journal of Proteomics</i> , 2013, 80, 107-122.	1.2	23
66	Combined Modulation of Tumor Metabolism by Metformin and Diclofenac in Glioma. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2586.	1.8	23
67	LEF1 supports metastatic brain colonization by regulating glutathione metabolism and increasing ROS resistance in breast cancer. <i>International Journal of Cancer</i> , 2020, 146, 3170-3183.	2.3	23
68	Distinct von Hippel-Lindau gene and hypoxia-regulated alterations in gene and protein expression patterns of renal cell carcinoma and their effects on metabolism. <i>Oncotarget</i> , 2015, 6, 11395-11406.	0.8	23
69	Comprehensive Metaboproteomics of Burkitt's and Diffuse Large B-Cell Lymphoma Cell Lines and Primary Tumor Tissues Reveals Distinct Differences in Pyruvate Content and Metabolism. <i>Journal of Proteome Research</i> , 2017, 16, 1105-1120.	1.8	22
70	Incidence of Arterial Hypotension in Patients Receiving Peroral or Continuous Intra-arterial Nimodipine After Aneurysmal or Perimesencephalic Subarachnoid Hemorrhage. <i>Neurocritical Care</i> , 2019, 31, 32-39.	1.2	22
71	Optimizing the SWATH-MS-workflow for label-free proteomics. <i>Journal of Proteomics</i> , 2016, 145, 137-140.	1.2	21
72	Evaluation of dilution and normalization strategies to correct for urinary output in HPLC-HRTOFMS metabolomics. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8483-8493.	1.9	21

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73	Biological and clinical significance of tryptophan-catabolizing enzymes in cutaneous T-cell lymphomas. <i>Oncolimmunology</i> , 2017, 6, e1273310.	2.1	21
74	Improved methods for urinary atrazine mercapturate analysis—Assessment of an enzyme-linked immunosorbent assay (ELISA) and a novel liquid chromatography—mass spectrometry (LC—MS) method utilizing online solid phase extraction (SPE). <i>Analytica Chimica Acta</i> , 2006, 572, 180-189.	2.6	20
75	Topical Diclofenac Reprograms Metabolism and Immune Cell Infiltration in Actinic Keratosis. <i>Frontiers in Oncology</i> , 2019, 9, 605.	1.3	20
76	Prolonged Suppression of Butyrate-Producing Bacteria Is Associated With Acute Gastrointestinal Graft-vs-Host Disease and Transplantation-Related Mortality After Allogeneic Stem Cell Transplantation. <i>Clinical Infectious Diseases</i> , 2022, 74, 614-621.	2.9	20
77	Kynurenine induces T cell fat catabolism and has limited suppressive effects in vivo. <i>EBioMedicine</i> , 2021, 74, 103734.	2.7	20
78	De novo polyamine synthesis supports metabolic and functional responses in activated murine NK cells. <i>European Journal of Immunology</i> , 2021, 51, 91-102.	1.6	18
79	Enhanced metabolite profiling using a redesigned atmospheric pressure chemical ionization source for gas chromatography coupled to high-resolution time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6669-6680.	1.9	17
80	Quantification and <sup>13</sup> C-Tracer analysis of total reduced glutathione by HPLC-QTOFMS/MS. <i>Analytica Chimica Acta</i> , 2019, 1080, 127-137.	2.6	17
81	D-2-Hydroxyglutarate and L-2-Hydroxyglutarate Inhibit IL-12 Secretion by Human Monocyte-Derived Dendritic Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 742.	1.8	16
82	Optimized Protocol for the In Situ Derivatization of Glutathione with N-Ethylmaleimide in Cultured Cells and the Simultaneous Determination of Glutathione/Glutathione Disulfide Ratio by HPLC-UV-QTOF-MS. <i>Metabolites</i> , 2020, 10, 292.	1.3	15
83	Potential biomarkers to predict outcome of faecal microbiota transfer for recurrent <i>Clostridioides difficile</i> infection. <i>Digestive and Liver Disease</i> , 2019, 51, 944-951.	0.4	13
84	LDHB Overexpression Can Partially Overcome T Cell Inhibition by Lactic Acid. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5970.	1.8	13
85	Empagliflozin Reduces Renal Hyperfiltration in Response to Uninephrectomy, but Is Not Nephroprotective in UNx/DOCA/Salt Mouse Models. <i>Frontiers in Pharmacology</i> , 2021, 12, 761855.	1.6	12
86	The Role of Inflammatory Mediators in the Synergistic Toxicity of Ozone and 1-Nitronaphthalene in Rat Airways. <i>Environmental Health Perspectives</i> , 2006, 114, 1354-1360.	2.8	11
87	Development of a HPLC/Tandem-MS Method for the Analysis of the Larvicides Methoprene, Hydroprene, and Kinoprene at Trace Levels Using Diels—Alder Derivatization. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 3306-3312.	2.4	9
88	Amino Acid Analysis in Physiological Samples by GC-MS with Propyl Chloroformate Derivatization and iTRAQ-LC-MS/MS. <i>Methods in Molecular Biology</i> , 2019, 2030, 173-190.	0.4	9
89	Cytokine-specific autoantibodies shape the gut microbiome in autoimmune polyendocrine syndrome type 1. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 876-888.	1.5	9
90	Lactonization of the Oncometabolite D-2-Hydroxyglutarate Produces a Novel Endogenous Metabolite. <i>Cancers</i> , 2021, 13, 1756.	1.7	8

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91	Cold Atmospheric Plasma Changes the Amino Acid Composition of Solutions and Influences the Anti-Tumor Effect on Melanoma Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7886.	1.8	8
92	Metabolic Fingerprinting Using Comprehensive Two-Dimensional Gas Chromatography â€“ Time-of-Flight Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2012, 815, 399-411.	0.4	7
93	Degradation of D-2-hydroxyglutarate in the presence of isocitrate dehydrogenase mutations. <i>Scientific Reports</i> , 2019, 9, 7436.	1.6	7
94	Expression and Function of Methylthioadenosine Phosphorylase in Chronic Liver Disease. <i>PLoS ONE</i> , 2013, 8, e80703.	1.1	7
95	Hyphenated mass spectrometry in the analysis of the central carbon metabolism. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 895-898.	1.9	6
96	Quantitative Imaging of D-2-Hydroxyglutarate in Selected Histological Tissue Areas by a Novel Bioluminescence Technique. <i>Frontiers in Oncology</i> , 2016, 6, 46.	1.3	6
97	Melanocytes are more responsive to IFN- $\beta$ and produce higher amounts of kynurenine than melanoma cells. <i>Biological Chemistry</i> , 2016, 397, 85-90.	1.2	6
98	Activation of Epidermal Growth Factor Receptor Sensitizes Glioblastoma Cells to Hypoxia-Induced Cell Death. <i>Cancers</i> , 2020, 12, 2144.	1.7	6
99	Gas Chromatographic Techniques in Metabolomics. <i>RSC Chromatography Monographs</i> , 2013, , 87-113.	0.1	5
100	Characterization of the Methylthioadenosine Phosphorylase Polymorphism rs7023954 - Incidence and Effects on Enzymatic Function in Malignant Melanoma. <i>PLoS ONE</i> , 2016, 11, e0160348.	1.1	5
101	Associations between urinary 3-indoxyl sulfate, a gut microbiome-derived biomarker, and patient outcomes after intensive care unit admission. <i>Journal of Critical Care</i> , 2021, 63, 15-21.	1.0	4
102	Acidic Microenvironments Found in Cutaneous Leishmania Lesions Curtail NO-Dependent Antiparasitic Macrophage Activity. <i>Frontiers in Immunology</i> , 2022, 13, 789366.	2.2	4
103	Acquired resistance to DZNep-mediated apoptosis is associated with copy number gains of AHCY in a B-cell lymphoma model. <i>BMC Cancer</i> , 2020, 20, 427.	1.1	3
104	Serotonin and tryptophan metabolites, autoantibodies and gut microbiome in APECED. <i>Endocrine Connections</i> , 2019, 8, 69-77.	0.8	3
105	Inducing anti-tumor cytokines and an immune response in melanoma by inhibition of MIA using the peptide AR71. <i>European Journal of Dermatology</i> , 2013, 23, 820-825.	0.3	2
106	When Chromatography Meets Mass Spectrometry - Retirement Colloquium for Werner Engewald and Rainer Herzschuh. <i>Journal of Separation Science</i> , 2002, 25, 1364-1364.	1.3	0
107	On the occasion of Professor Werner Engewaldâ€™s 70th birthday. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 1631-1632.	1.9	0
108	Library Selection with a Randomized Repertoire of $\beta$ -Barrel Enzymes Results in Unexpected Induction of Gene Expression. <i>Biochemistry</i> , 2019, 58, 4207-4217.	1.2	0