

# Karsten Niehaus

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

1,987  
citations

279701

23  
h-index

276775

41  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2875  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Evaluation of virulence potential of methicillin-sensitive and methicillin-resistant <i>Staphylococcus aureus</i> isolates from a German refugee cohort. <i>Travel Medicine and Infectious Disease</i> , 2022, 45, 102204.                          | 1.5 | 3         |
| 2  | Subtyping non-small cell lung cancer by histology-guided spatial metabolomics. <i>Journal of Cancer Research and Clinical Oncology</i> , 2022, 148, 351-360.  | 1.2 | 20        |
| 3  | Two Flagellar mutants of <i>Xanthomonas campestris</i> are characterized by enhanced xanthan production and higher xanthan viscosity. <i>Journal of Biotechnology</i> , 2022, 347, 9-17.  | 1.9 | 3         |
| 4  | Human Coxsackie- and adenovirus receptor is a putative target of neutrophil elastase-mediated shedding. <i>Molecular Biology Reports</i> , 2022, 49, 3213-3223.   | 1.0 | 4         |
| 5  | Analysis of Gum proteins involved in xanthan biosynthesis throughout multiple cell fractions in a "single-tube". <i>Journal of Proteomics</i> , 2022, 257, 104513.  | 1.2 | 3         |
| 6  | Abstract 111: Head and neck cancer cells can differentiate and resemble their tissue of origin. <i>Cancer Research</i> , 2022, 82, 111-111.   | 0.4 | 0         |
| 7  | MetHoS: a platform for large-scale processing, storage and analysis of metabolomics data. <i>BMC Bioinformatics</i> , 2022, 23, .   | 1.2 | 4         |
| 8  | Overexpression of alfalfa SIMK promotes root hair growth, nodule clustering and shoot biomass production. <i>Plant Biotechnology Journal</i> , 2021, 19, 767-784.   | 4.1 | 11        |
| 9  | Fast visual exploration of mass spectrometry images with interactive dynamic spectral similarity pseudocoloring. <i>Scientific Reports</i> , 2021, 11, 4606.  | 1.6 | 2         |
| 10 | A new technological approach in diagnostic pathology: mass spectrometry imaging-based metabolomics for biomarker detection in uveal cancer. <i>Laboratory Investigation</i> , 2021, 101, 1281-1288.   | 1.7 | 10        |
| 11 | Metabolic responses of sugar beet to the combined effect of root hypoxia and NaCl-salinity. <i>Journal of Plant Physiology</i> , 2021, 267, 153545.   | 1.6 | 5         |
| 12 | Immersion by rotation-based application of the matrix for fast and reproducible sample preparations and robust results in mass spectrometry imaging. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4488.   | 0.7 | 1         |
| 13 | Spatial evaluation of long-term metabolic changes induced by cisplatin nephrotoxicity. <i>Toxicology Letters</i> , 2020, 334, 36-43.  | 0.4 | 4         |
| 14 | Glioblastoma multiforme: Metabolic differences to peritumoral tissue and mutated gliomas revealed by mass spectrometry imaging. <i>Neuropathology</i> , 2020, 40, 546-558.  | 0.7 | 25        |
| 15 | Tissue culture, genetic transformation, interaction with beneficial microbes, and modern bio-imaging techniques in alfalfa research. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 1265-1280.  | 5.1 | 6         |
| 16 | Mass spectrometry imaging reveals lipid upregulation and bile acid changes indicating amitriptyline induced steatosis in a rat model. <i>Toxicology Letters</i> , 2020, 325, 43-50.   | 0.4 | 16        |
| 17 | Naturally occurring variants in the transmembrane and cytoplasmic domains of the human Coxsackie- and adenovirus receptor have no impact on virus internalisation. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 401-405. | 1.0 | 2         |
| 18 | Mass Spectrometry Imaging of the Spatial and Temporal Localization of Alkaloids in Nightshades. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13470-13477.  | 2.4 | 36        |

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|----|--|-----|-----------|
| 19 | Assessment of mixture toxicity of (tri)azoles and their hepatotoxic effects in vitro by means of omics technologies. Archives of Toxicology, 2019, 93, 2321-2333.  | 1.9 | 28        |
| 20 | A comprehensive analysis of the <i>Lactuca sativa</i> , L. transcriptome during different stages of the compatible interaction with <i>Rhizoctonia solani</i> . Scientific Reports, 2019, 9, 7221.   | 1.6 | 11        |
| 21 | Flavin-Dependent Halogenases from <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 Prefer Bromination over Chlorination. Advanced Synthesis and Catalysis, 2019, 361, 2475-2486.   | 2.1 | 24        |
| 22 | An integrated approach to study novel properties of a MALDI matrix (4-maleicanhydridoproton) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62   | 1.9 | 18        |
| 23 | Regulatory associations between the metabolism of sulfur-containing amino acids and xanthan biosynthesis in <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100. FEMS Microbiology Letters, 2019, 366, .  | 0.7 | 4         |
| 24 | Microorganisms growing on rapeseed during storage affect the profile of volatile compounds of virgin rapeseed oil. Journal of the Science of Food and Agriculture, 2018, 98, 2147-2155.  | 1.7 | 7         |
| 25 | Comparative transcription profiling of two fermentation cultures of <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 sampled in the growth and in the stationary phase. Applied Microbiology and Biotechnology, 2018, 102, 6613-6625.  | 1.7 | 8         |
| 26 | Metabolic survey of <i>Botryococcus braunii</i> : Impact of the physiological state on product formation. PLoS ONE, 2018, 13, e0198976.  | 1.1 | 31        |
| 27 | Conjugated Polymers as a New Class of Dual-Mode Matrices for MALDI Mass Spectrometry and Imaging. Journal of the American Chemical Society, 2018, 140, 11416-11423.  | 6.6 | 41        |
| 28 | Perfect merohedral twinning combined with noncrystallographic symmetry potentially causes the failure of molecular replacement with low-homology search models for the flavin-dependent halogenase HalX from <i>Xanthomonas campestris</i> . Acta Crystallographica Section F, Structural Biology Communications, 2018, 74, 345-350. | 0.4 | 1         |
| 29 | The lipopolysaccharide of the crop pathogen <i>Xanthomonas translucens</i> pv. <i>translucens</i> : chemical characterization and determination of signaling events in plant cells. Glycobiology, 2017, 27, 264-274.   | 1.3 | 8         |
| 30 | Comparative analysis of different xanthan samples by atomic force microscopy. Journal of Biotechnology, 2017, 257, 2-8.  | 1.9 | 21        |
| 31 | Refined annotation of the complete genome of the phytopathogenic and xanthan producing <i>Xanthomonas campestris</i> pv. <i>campestris</i> strain B100 based on RNA sequence data. Journal of Biotechnology, 2017, 253, 55-61.   | 1.9 | 7         |
| 32 | A robust protocol for the isolation of cellular proteins from <i>Xanthomonas campestris</i> to analyze the methionine effect in 2D-gel experiments. Electrophoresis, 2017, 38, 2603-2609.  | 1.3 | 6         |
| 33 | Co-encapsulation of amyloglucosidase with starch and <i>Saccharomyces cerevisiae</i> as basis for a long-lasting CO <sub>2</sub> release. World Journal of Microbiology and Biotechnology, 2017, 33, 71.   | 1.7 | 16        |
| 34 | Using transposition to introduce eGFP fusions in <i>Sinorhizobium meliloti</i> : A tool to analyze protein localization patterns in bacteria. Journal of Biotechnology, 2017, 257, 139-149.  | 1.9 | 1         |
| 35 | The <i>Rhizoctonia solani</i> AG1-IB (isolate 7/3/14) transcriptome during interaction with the host plant lettuce ( <i>Lactuca sativa</i> L.). PLoS ONE, 2017, 12, e0177278.  | 1.1 | 28        |
| 36 | Physiological roles of sigma factor SigD in <i>Corynebacterium glutamicum</i> . BMC Microbiology, 2017, 17, 158.   | 1.3 | 26        |

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|----|---|-----|-----------|
| 37 | Systems and synthetic biology perspective of the versatile plant-pathogenic and polysaccharide-producing bacterium <i>Xanthomonas campestris</i> . <i>Microbiology (United Kingdom)</i> , 2017, 163, 1117-1144.   | 0.7 | 7         |
| 38 | Applying DNA affinity chromatography to specifically screen for sucrose-related DNA-binding transcriptional regulators of <i>Xanthomonas campestris</i> . <i>Journal of Biotechnology</i> , 2016, 232, 89-98.   | 1.9 | 3         |
| 39 | Genetic engineering in <i>Actinoplanes</i> sp. SE50/110 – development of an intergeneric conjugation system for the introduction of actinophage-based integrative vectors. <i>Journal of Biotechnology</i> , 2016, 232, 79-88.  | 1.9 | 17        |
| 40 | The influence of a modified lipopolysaccharide O-antigen on the biosynthesis of xanthan in <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100. <i>BMC Microbiology</i> , 2016, 16, 93.  | 1.3 | 13        |
| 41 | Genome wide transcription start sites analysis of <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 with insights into the gum gene cluster directing the biosynthesis of the exopolysaccharide xanthan. <i>Journal of Biotechnology</i> , 2016, 225, 18-28.             | 1.9 | 38        |
| 42 | Spatio-Temporal Metabolite Profiling of the Barley Germination Process by MALDI MS Imaging. <i>PLoS ONE</i> , 2016, 11, e0150208.   | 1.1 | 62        |
| 43 | Metabolite profiling of somatic embryos of <i>Cyclamen persicum</i> in comparison to zygotic embryos, endosperm, and testa. <i>Frontiers in Plant Science</i> , 2015, 6, 597.   | 1.7 | 12        |
| 44 | Metabolic Adaptations of White Lupin Roots and Shoots under Phosphorus Deficiency. <i>Frontiers in Plant Science</i> , 2015, 6, 1014.   | 1.7 | 79        |
| 45 | Proteomic and metabolomic analysis of the carotenogenic yeast <i>Xanthophyllomyces dendrorhous</i> using different carbon sources. <i>BMC Genomics</i> , 2015, 16, 289.   | 1.2 | 40        |
| 46 | Fast responses of metabolites in <i>Vicia faba</i> L. to moderate NaCl stress. <i>Plant Physiology and Biochemistry</i> , 2015, 92, 19-29.  | 2.8 | 19        |
| 47 | Learning to Classify Organic and Conventional Wheat – A Machine Learning Driven Approach Using the MeltDB 2.0 Metabolomics Analysis Platform. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 35.   | 2.0 | 23        |
| 48 | Draft genome of the xanthan producer <i>Xanthomonas campestris</i> NRRL B-1459 (ATCC 13951). <i>Journal of Biotechnology</i> , 2015, 204, 45-46.  | 1.9 | 19        |
| 49 | ALlocator: An Interactive Web Platform for the Analysis of Metabolomic LC-ESI-MS Datasets, Enabling Semi-Automated, User-Revised Compound Annotation and Mass Isotopomer Ratio Analysis. <i>PLoS ONE</i> , 2014, 9, e113909.  | 1.1 | 28        |
| 50 | Carbon source dependent biosynthesis of acarvioside metabolites in <i>Actinoplanes</i> sp. SE50/110. <i>Journal of Biotechnology</i> , 2014, 191, 113-120.  | 1.9 | 21        |
| 51 | Characterization of the pyrophosphate-dependent 6-phosphofructokinase from <i>Xanthomonas campestris</i> pv. <i>campestris</i> . <i>Archives of Biochemistry and Biophysics</i> , 2014, 546, 53-63.   | 1.4 | 14        |
| 52 | Rapid incorporation of glucosinolates as a strategy used by a herbivore to prevent activation by myrosinases. <i>Insect Biochemistry and Molecular Biology</i> , 2014, 52, 115-123.   | 1.2 | 52        |
| 53 | Detection and localization of novel hordatine-like compounds and glycosylated derivatives of hordatines by imaging mass spectrometry of barley seeds. <i>Planta</i> , 2014, 239, 1321-1335.   | 1.6 | 52        |
| 54 | Metabolic flux pattern of glucose utilization by <i>Xanthomonas campestris</i> pv. <i>campestris</i> : prevalent role of the Entner-Doudoroff pathway and minor fluxes through the pentose phosphate pathway and glycolysis. <i>Molecular BioSystems</i> , 2014, 10, 2663-2676. | 2.9 | 28        |

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|----|--|-----|-----------|
| 55 | The noncanonical type III secretion system of <i>Xanthomonas translucens</i> pv. <i>graminis</i> is essential for forage grass infection. <i>Molecular Plant Pathology</i> , 2013, 14, 576-588.  | 2.0 | 48        |
| 56 | Metabolomic responses in grain, ear, and straw of winter wheat under increasing sulfur treatment. <i>Journal of Plant Nutrition and Soil Science</i> , 2013, 176, 964-970.   | 1.1 | 8         |
| 57 | Establishment, in silico analysis, and experimental verification of a large-scale metabolic network of the xanthan producing <i>Xanthomonas campestris</i> pv. <i>campestris</i> strain B100. <i>Journal of Biotechnology</i> , 2013, 167, 123-134.  | 1.9 | 43        |
| 58 | Dynamic protein phosphorylation during the growth of <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 revealed by a gel-based proteomics approach. <i>Journal of Biotechnology</i> , 2013, 167, 111-122.   | 1.9 | 16        |
| 59 | Experimental Measurements and Mathematical Modeling of Cytosolic Ca <sup>2+</sup> Signatures upon Elicitation by Penta-N-acetylchitopentaose Oligosaccharides in <i>Nicotiana tabacum</i> Cell Cultures. <i>Plants</i> , 2013, 2, 750-768.   | 1.6 | 4         |
| 60 | Metabolite profiling of wheat flag leaf and grains during grain filling phase as affected by sulfur fertilisation. <i>Functional Plant Biology</i> , 2012, 39, 156.  | 1.1 | 14        |
| 61 | IncP-1 <sup>+</sup> plasmids of <i>Comamonas</i> sp. and <i>Delftia</i> sp. strains isolated from a wastewater treatment plant mediate resistance to and decolorization of the triphenylmethane dye crystal violet. <i>Microbiology (United Kingdom)</i> , 2012, 158, 2060-2072.                       | 0.7 | 20        |
| 62 | Involvement of bacterial TonB-dependent signaling in the generation of an oligogalacturonide damage-associated molecular pattern from plant cell walls exposed to <i>Xanthomonas campestris</i> pv. <i>campestris</i> pectate lyases. <i>BMC Microbiology</i> , 2012, 12, 239.                         | 1.3 | 33        |
| 63 | Protein arginine methylation modulates light harvesting antenna translation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2011, 65, 119-130.  | 2.8 | 19        |
| 64 | Genome-enabled determination of amino acid biosynthesis in <i>Xanthomonas campestris</i> pv. <i>campestris</i> and identification of biosynthetic pathways for alanine, glycine, and isoleucine by <sup>13</sup> C-isotopologue profiling. <i>Molecular Genetics and Genomics</i> , 2011, 286, 247-59. | 1.0 | 19        |
| 65 | Proteomic analysis of the carotenogenic yeast <i>Xanthophyllomyces dendrorhous</i> . <i>BMC Microbiology</i> , 2011, 11, 131.  | 1.3 | 20        |
| 66 | Antiviral effect of Bosentan and Valsartan during coxsackievirus B3 infection of human endothelial cells. <i>Journal of General Virology</i> , 2010, 91, 1959-1970.  | 1.3 | 15        |
| 67 | Low molecular weight plant extract induces metabolic changes and the secretion of extracellular enzymes, but has a negative effect on the expression of the type-III secretion system in <i>Xanthomonas campestris</i> pv. <i>campestris</i> . <i>Journal of Biotechnology</i> , 2009, 140, 59-67.     | 1.9 | 26        |
| 68 | Analysis of outer membrane vesicle associated proteins isolated from the plant pathogenic bacterium <i>Xanthomonas campestris</i> pv. <i>campestris</i> . <i>BMC Microbiology</i> , 2008, 8, 87.   | 1.3 | 118       |
| 69 | The genome of <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 and its use for the reconstruction of metabolic pathways involved in xanthan biosynthesis. <i>Journal of Biotechnology</i> , 2008, 134, 33-45.  | 1.9 | 238       |
| 70 | Identification of <i>Xanthomonas campestris</i> pv. <i>campestris</i> galactose utilization genes from transcriptome data. <i>Journal of Biotechnology</i> , 2008, 135, 309-317.   | 1.9 | 36        |
| 71 | Investigation of the chemical structure and biological activity of oligosaccharides isolated from rough-type <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100 lipopolysaccharide. <i>Journal of Endotoxin Research</i> , 2007, 13, 101-108.  | 2.5 | 15        |
| 72 | Characterization of the <i>Xanthomonas campestris</i> pv. <i>campestris</i> Lipopolysaccharide Substructures Essential for Elicitation of an Oxidative Burst in Tobacco Cells. <i>Molecular Plant-Microbe Interactions</i> , 2005, 18, 674-681.  | 1.4 | 55        |

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| 73 | Comprehensive analysis of the extracellular proteins from <i>Xanthomonas campestris</i> pv. <i>campestris</i> B100. <i>Proteomics</i> , 2005, 5, 153-167.  | 1.3 | 89        |
| 74 | The lipopolysaccharides of the phytopathogen <i>Xanthomonas campestris</i> pv. <i>campestris</i> induce an oxidative burst reaction in cell cultures of <i>Nicotiana tabacum</i> . <i>Planta</i> , 2001, 213, 214-222. | 1.6 | 114       |
| 75 | Suppression of an elicitor-induced oxidative burst reaction in <i>Medicago sativa</i> cell cultures by <i>Sinorhizobium meliloti</i> lipopolysaccharides. <i>New Phytologist</i> , 2001, 151, 597-606.                 | 3.5 | 69        |