

Beate Niesler

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

4,656
citations

136950

32
h-index

106344

65
g-index

82
all docs

82
docs citations

82
times ranked

5341
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Pseudoautosomal deletions encompassing a novel homeobox gene cause growth failure in idiopathic short stature and Turner syndrome. <i>Nature Genetics</i> , 1997, 16, 54-63. | 21.4 | 867 |
| 2 | Irritable bowel syndrome. <i>Nature Reviews Disease Primers</i> , 2016, 2, 16014. | 30.5 | 674 |
| 3 | Cloning, physical mapping and expression analysis of the human 5-HT ₃ serotonin receptor-like genes HTR3C, HTR3D and HTR3E. <i>Gene</i> , 2003, 310, 101-111. | 2.2 | 246 |
| 4 | 5-HT ₃ receptors: Role in disease and target of drugs. , 2010, 128, 146-169. | | 185 |
| 5 | First evidence for an association of a functional variant in the microRNA-510 target site of the serotonin receptor-type 3E gene with diarrhea predominant irritable bowel syndrome. <i>Human Molecular Genetics</i> , 2008, 17, 2967-2977. | 2.9 | 173 |
| 6 | Characterization of the Novel Human Serotonin Receptor Subunits 5-HT _{3C} ,5-HT _{3D} , and 5-HT _{3E} . <i>Molecular Pharmacology</i> , 2007, 72, 8-17. | 2.3 | 154 |
| 7 | Association between the 5' UTR variant C178T of the serotonin receptor gene HTR3A and bipolar affective disorder. <i>Pharmacogenetics and Genomics</i> , 2001, 11, 471-475. | 5.7 | 119 |
| 8 | Heterogeneity of response to immune checkpoint blockade in hypermutated experimental gliomas. <i>Nature Communications</i> , 2020, 11, 931. | 12.8 | 112 |
| 9 | miR-16 and miR-125b are involved in barrier function dysregulation through the modulation of claudin-2 and cingulin expression in the jejunum in IBS with diarrhoea. <i>Gut</i> , 2017, 66, 1537.1-1538. | 12.1 | 105 |
| 10 | Disorders of the enteric nervous system – a holistic view. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2021, 18, 393-410. | 17.8 | 100 |
| 11 | Exploring the genetics of irritable bowel syndrome: a GWA study in the general population and replication in multinational case-control cohorts. <i>Gut</i> , 2015, 64, 1774-1782. | 12.1 | 97 |
| 12 | Serotonin type 3 receptor genes: <i>HTR3A, B, C, D, E</i>. <i>Pharmacogenomics</i> , 2008, 9, 501-504. | 1.3 | 80 |
| 13 | Lessons learned – resolving the enigma of genetic factors in IBS. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2016, 13, 77-87. | 17.8 | 76 |
| 14 | The HTR3A Polymorphism c. -42C>T Is Associated With Amygdala Responsiveness in Patients With Irritable Bowel Syndrome. <i>Gastroenterology</i> , 2011, 140, 1943-1951. | 1.3 | 73 |
| 15 | Activation of Myenteric Glia during Acute Inflammation In Vitro and In Vivo. <i>PLoS ONE</i> , 2016, 11, e0151335. | 2.5 | 69 |
| 16 | Dietary tryptophan links encephalogenicity of autoreactive T cells with gut microbial ecology. <i>Nature Communications</i> , 2019, 10, 4877. | 12.8 | 69 |
| 17 | Serotonin receptor gene HTR3A variants in schizophrenic and bipolar affective patients. <i>Pharmacogenetics and Genomics</i> , 2001, 11, 21-27. | 5.7 | 63 |
| 18 | Ginger and its pungent constituents non-competitively inhibit activation of human recombinant and native 5-HT ₃ receptors of enteric neurons. <i>Neurogastroenterology and Motility</i> , 2013, 25, 439. | 3.0 | 61 |

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|----|--|-----|-----------|
| 19 | Serotonin Signaling Is Required for Wnt-Dependent GRP Specification and Leftward Flow in <i>Xenopus</i> . <i>Current Biology</i> , 2012, 22, 33-39. | 3.9 | 60 |
| 20 | Sulforaphane Inhibits Inflammatory Responses of Primary Human T-Cells by Increasing ROS and Depleting Glutathione. <i>Frontiers in Immunology</i> , 2018, 9, 2584. | 4.8 | 56 |
| 21 | Investigation of the human serotonin receptor gene <i>HTR3B</i> in bipolar affective and schizophrenic patients. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2004, 131B, 1-5. | 1.7 | 53 |
| 22 | Polymorphisms in the novel serotonin receptor subunit gene <i>HTR3C</i> show different risks for acute chemotherapy-induced vomiting after anthracycline chemotherapy. <i>Journal of Cancer Research and Clinical Oncology</i> , 2008, 134, 1079-1086. | 2.5 | 53 |
| 23 | 5-HT ₃ receptors: potential of individual isoforms for personalised therapy. <i>Current Opinion in Pharmacology</i> , 2011, 11, 81-86. | 3.5 | 53 |
| 24 | Natural compounds boldine and menthol are antagonists of human 5-HT ₃ receptors: implications for treating gastrointestinal disorders. <i>Neurogastroenterology and Motility</i> , 2014, 26, 810-820. | 3.0 | 48 |
| 25 | miR-16 and miR-103 impact 5-HT ₄ receptor signalling and correlate with symptom profile in irritable bowel syndrome. <i>Scientific Reports</i> , 2017, 7, 14680. | 3.3 | 46 |
| 26 | Serotonin receptor diversity in the human colon: Expression of serotonin type 3 receptor subunits 5-HT _{3C} , 5-HT _{3D} , and 5-HT _{3E} . <i>Journal of Comparative Neurology</i> , 2011, 519, 420-432. | 1.6 | 43 |
| 27 | 5-HTTLPR and STin2 polymorphisms in the serotonin transporter gene and irritable bowel syndrome: effect of bowel habit and sex. <i>European Journal of Gastroenterology and Hepatology</i> , 2010, 22, 856-861. | 1.6 | 42 |
| 28 | Replication of functional serotonin receptor type 3A and B variants in bipolar affective disorder: a European multicenter study. <i>Translational Psychiatry</i> , 2012, 2, e103-e103. | 4.8 | 42 |
| 29 | CD40L controls obesity-associated vascular inflammation, oxidative stress, and endothelial dysfunction in high fat diet-treated and db/db mice. <i>Cardiovascular Research</i> , 2018, 114, 312-323. | 3.8 | 37 |
| 30 | Abnormalities of mucosal serotonin metabolism and 5-HT ₃ receptor subunit 3C polymorphism in irritable bowel syndrome with diarrhoea predict responsiveness to ondansetron. <i>Alimentary Pharmacology and Therapeutics</i> , 2019, 50, 538-546. | 3.7 | 37 |
| 31 | Phenotyping of subjects for large scale studies on patients with IBS. <i>Neurogastroenterology and Motility</i> , 2016, 28, 1134-1147. | 3.0 | 36 |
| 32 | Functional variants of the serotonin receptor type 3A and B gene are associated with eating disorders. <i>Pharmacogenetics and Genomics</i> , 2009, 19, 790-799. | 1.5 | 35 |
| 33 | A meta-analysis of immunogenetic Case-Control Association Studies in irritable bowel syndrome. <i>Neurogastroenterology and Motility</i> , 2015, 27, 717-727. | 3.0 | 35 |
| 34 | Naturally occurring variants in the <i>HTR3B</i> gene significantly alter properties of human heteromeric 5-hydroxytryptamine-3A/B receptors. <i>Pharmacogenetics and Genomics</i> , 2008, 18, 793-802. | 1.5 | 34 |
| 35 | Hypoxic Environment Promotes Barrier Formation in Human Intestinal Epithelial Cells through Regulation of MicroRNA 320a Expression. <i>Molecular and Cellular Biology</i> , 2019, 39, . | 2.3 | 34 |
| 36 | RIC-3 Exclusively Enhances the Surface Expression of Human Homomeric 5-Hydroxytryptamine Type 3A (5-HT _{3A}) Receptors Despite Direct Interactions with 5-HT _{3A} , -C, -D, and -E Subunits. <i>Journal of Biological Chemistry</i> , 2010, 285, 26956-26965. | 3.4 | 31 |

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|----|---|------|-----------|
| 37 | Gastrointestinal dysfunction in autism displayed by altered motility and achalasia in <i>Foxp1</i> ^{+/Δ} mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22237-22245. | 7.1 | 31 |
| 38 | Keratinocytes costimulate naive human T cells via CD2: a potential target to prevent the development of proinflammatory Th1 cells in the skin. <i>Cellular and Molecular Immunology</i> , 2020, 17, 380-394. | 10.5 | 31 |
| 39 | Polymorphism in <i>HTR3D</i> shows different risks for acute chemotherapy-induced vomiting after anthracycline chemotherapy. <i>Pharmacogenomics</i> , 2010, 11, 943-950. | 1.3 | 29 |
| 40 | Parkinson mice show functional and molecular changes in the gut long before motoric disease onset. <i>Molecular Neurodegeneration</i> , 2021, 16, 34. | 10.8 | 29 |
| 41 | Interaction of ER α and NRF2 Impacts Survival in Ovarian Cancer Patients. <i>International Journal of Molecular Sciences</i> , 2019, 20, 112. | 4.1 | 25 |
| 42 | Two naturally occurring variants of the serotonin receptor gene <i>HTR3C</i> are associated with nausea in pregnancy. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2010, 89, 7-14. | 2.8 | 24 |
| 43 | Emerging evidence for gene mutations driving both brain and gut dysfunction in autism spectrum disorder. <i>Molecular Psychiatry</i> , 2021, 26, 1442-1444. | 7.9 | 22 |
| 44 | The human <i>SHOX</i> mutation database. <i>Human Mutation</i> , 2002, 20, 338-341. | 2.5 | 20 |
| 45 | The novel human <i>SHOX</i> allelic variant database. <i>Human Mutation</i> , 2007, 28, 933-938. | 2.5 | 18 |
| 46 | Aequorin luminescence-based assay for 5-hydroxytryptamine (serotonin) type 3 receptor characterization. <i>Analytical Biochemistry</i> , 2007, 368, 185-192. | 2.4 | 18 |
| 47 | Catecholaminergic Gene Polymorphisms Are Associated with GI Symptoms and Morphological Brain Changes in Irritable Bowel Syndrome. <i>PLoS ONE</i> , 2015, 10, e0135910. | 2.5 | 18 |
| 48 | Inflammation induces pro-NETotic neutrophils via TNFR2 signaling. <i>Cell Reports</i> , 2022, 39, 110710. | 6.4 | 18 |
| 49 | Aberrant brain structural large-scale connectome in Crohn's disease. <i>Neurogastroenterology and Motility</i> , 2019, 31, e13593. | 3.0 | 17 |
| 50 | Patients with Multiple Functional Gastrointestinal Disorders (FGIDs) Show Increased Illness Severity: A Cross-Sectional Study in a Tertiary Care FGID Specialty Clinic. <i>Gastroenterology Research and Practice</i> , 2020, 2020, 1-10. | 1.5 | 17 |
| 51 | A Nonviable Probiotic in Irritable Bowel Syndrome: A Randomized, Double-Blind, Placebo-Controlled, Multicenter Study. <i>Clinical Gastroenterology and Hepatology</i> , 2022, 20, 1039-1047.e9. | 4.4 | 16 |
| 52 | Pilot-RCT of an integrative group therapy for patients with refractory irritable bowel syndrome (ISRCTN02977330). <i>Journal of Psychosomatic Research</i> , 2018, 105, 72-79. | 2.6 | 15 |
| 53 | Oncolytic H-1 parvovirus binds to sialic acid on laminins for cell attachment and entry. <i>Nature Communications</i> , 2021, 12, 3834. | 12.8 | 15 |
| 54 | The Human Serotonin Type 3 Receptor Gene (<i>HTR3A-E</i>) Allelic Variant Database. <i>Human Mutation</i> , 2017, 38, 137-147. | 2.5 | 14 |

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|----|--|-----|-----------|
| 55 | Comparative expression analysis of Shox2-deficient embryonic stem cell-derived sinoatrial node-like cells. <i>Stem Cell Research</i> , 2017, 21, 51-57. | 0.7 | 13 |
| 56 | Piperlongumine Acts as an Immunosuppressant by Exerting Prooxidative Effects in Human T Cells Resulting in Diminished TH17 but Enhanced Treg Differentiation. <i>Frontiers in Immunology</i> , 2020, 11, 1172. | 4.8 | 13 |
| 57 | A Specialty Clinic for Functional Gastrointestinal Disorders in Tertiary Care: Concept and Patient Population. <i>Clinical Gastroenterology and Hepatology</i> , 2017, 15, 1127-1129. | 4.4 | 12 |
| 58 | <p>Correlation of NRF2 and progesterone receptor and its effects on ovarian cancer biology</p>. <i>Cancer Management and Research</i> , 2019, Volume 11, 7673-7684. | 1.9 | 12 |
| 59 | Expression Analysis of ATP-Binding Cassette Transporters ABCB11 and ABCB4 in Primary Sclerosing Cholangitis and Variety of Pediatric and Adult Cholestatic and Noncholestatic Liver Diseases. <i>Canadian Journal of Gastroenterology and Hepatology</i> , 2019, 2019, 1-10. | 1.9 | 10 |
| 60 | The Role of Brain-Derived Neurotrophic Factor in Irritable Bowel Syndrome. <i>Frontiers in Psychiatry</i> , 2020, 11, 531385. | 2.6 | 10 |
| 61 | 1003 A Coding Variant in the Serotonin Receptor 3C Subunit Is Associated with Diarrhea-Predominant Irritable Bowel Syndrome. <i>Gastroenterology</i> , 2009, 136, A-155-A-156. | 1.3 | 9 |
| 62 | Funding for gastrointestinal disease research in the European Union. <i>The Lancet Gastroenterology and Hepatology</i> , 2018, 3, 593-595. | 8.1 | 9 |
| 63 | Expression Profiling of Rectal Biopsies Suggests Altered Enteric Neuropathological Traits in Parkinsonâ€™s Disease Patients. <i>Journal of Parkinson's Disease</i> , 2021, 11, 171-176. | 2.8 | 7 |
| 64 | A complementary study approach unravels novel players in the pathoetiology of Hirschsprung disease. <i>PLoS Genetics</i> , 2020, 16, e1009106. | 3.5 | 7 |
| 65 | Network-driven discovery yields new insight into Shox2-dependent cardiac rhythm control. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2021, 1864, 194702. | 1.9 | 6 |
| 66 | Oncolytic H-1 Parvovirus Hijacks Galectin-1 to Enter Cancer Cells. <i>Viruses</i> , 2022, 14, 1018. | 3.3 | 6 |
| 67 | Comparative expression profiling in the intestine of patients with <i>Giardia</i>-induced postinfectious functional gastrointestinal disorders. <i>Neurogastroenterology and Motility</i> , 2020, 32, e13868. | 3.0 | 5 |
| 68 | The alternative serotonin transporter promoter P2 impacts gene function in females with irritable bowel syndrome. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 8047-8061. | 3.6 | 5 |
| 69 | Siteâ€™specific gene expression analysis from archived human intestine samples combining laserâ€™capture microdissection and multiplexed colorâ€™coded probes. <i>Neurogastroenterology and Motility</i> , 2018, 30, e13261. | 3.0 | 4 |
| 70 | No association between the common calcium-sensing receptor polymorphism rs1801725 and irritable bowel syndrome. <i>BMC Medical Genetics</i> , 2015, 16, 110. | 2.1 | 3 |
| 71 | Novel insights into a reputedly irreversible process: combined mRNA and miRNA profiling of tissue from vesicourethral anastomotic stenosis after radical prostatectomy. <i>World Journal of Urology</i> , 2017, 35, 1701-1711. | 2.2 | 3 |
| 72 | Murine transgenic embryonic stem cell lines for the investigation of sinoatrial node-related molecular pathways. <i>Stem Cell Research</i> , 2017, 25, 278-282. | 0.7 | 3 |

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|----|---|-----|-----------|
| 73 | A common microdeletion affecting a hippocampus- and amygdala-specific isoform of tryptophan hydroxylase 2 is not associated with affective disorders. <i>Bipolar Disorders</i> , 2014, 16, 764-768. | 1.9 | 2 |
| 74 | Postnatal human enteric neurospheres show a remarkable molecular complexity. <i>Neurogastroenterology and Motility</i> , 2019, 31, e13674. | 3.0 | 2 |
| 75 | Genetic studies in irritable bowel syndrome-status quo. <i>World Journal of Meta-analysis</i> , 2018, 6, 1-8. | 0.1 | 2 |
| 76 | Molecular Characterization of Embryonic Stem Cell-Derived Cardiac Neural Crest-Like Cells Revealed a Spatiotemporal Expression of an Mlc-3 Isoform. <i>International Journal of Stem Cells</i> , 2020, 13, 65-79. | 1.8 | 2 |
| 77 | Serotonin type 3 receptor subunit gene polymorphisms associated with psychosomatic symptoms in irritable bowel syndrome: A multicenter retrospective study. <i>World Journal of Gastroenterology</i> , 2022, 28, 2334-2349. | 3.3 | 2 |
| 78 | Impact of Altered WNT2B Expression on Bladder Wall Fibroblasts: Implications for Apoptosis Regulation in the Stroma of the Lower Urinary Tract. <i>Urologia Internationalis</i> , 2017, 99, 476-483. | 1.3 | 1 |
| 79 | Editorial: understanding differences in patient response to ondansetron in irritable bowel syndrome with diarrhoea "are we any closer? Authors' reply. <i>Alimentary Pharmacology and Therapeutics</i> , 2019, 50, 826-827. | 3.7 | 0 |
| 80 | 5-HT ₃ receptors in GtoPdb v.2021.3. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2021, 2021, . | 0.2 | 0 |
| 81 | 5-HT ₃ receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. <i>IUPHAR/BPS Guide To Pharmacology CITE</i> , 2019, 2019, . | 0.2 | 0 |