

# Nicolas Schlegel

## List of Publications by Year in descending order

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69  
papers

1,630  
citations

304743

22  
h-index

330143

37  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1940  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lipopolysaccharide-induced endothelial barrier breakdown is cyclic adenosine monophosphate dependent in vivo and in vitro*. Critical Care Medicine, 2009, 37, 1735-1743.	0.9	99
2	Soluble VE-cadherin is involved in endothelial barrier breakdown in systemic inflammation and sepsis. Cardiovascular Research, 2015, 107, 32-44.	3.8	92
3	Desmoglein 2-mediated adhesion is required for intestinal epithelial barrier integrity. American Journal of Physiology - Renal Physiology, 2010, 298, G774-G783.	3.4	90
4	cAMP with other signaling cues converges on Rac1 to stabilize the endothelial barrier—a signaling pathway compromised in inflammation. Cell and Tissue Research, 2014, 355, 587-596.	2.9	79
5	Pro- and Anti-Inflammatory Responses in Severe COVID-19-Induced Acute Respiratory Distress Syndrome—An Observational Pilot Study. Frontiers in Immunology, 2020, 11, 581338.	4.8	75
6	Targeting desmosomal adhesion and signalling for intestinal barrier stabilization in inflammatory bowel diseases—Lessons from experimental models and patients. Acta Physiologica, 2021, 231, e13492.	3.8	64
7	Neurotrophic factor GDNF regulates intestinal barrier function in inflammatory bowel disease. Journal of Clinical Investigation, 2019, 129, 2824-2840.	8.2	63
8	VASP is involved in cAMP-mediated Rac 1 activation in microvascular endothelial cells. American Journal of Physiology - Cell Physiology, 2009, 296, C453-C462.	4.6	62
9	Glial cell line-derived neurotrophic factor promotes barrier maturation and wound healing in intestinal epithelial cells in vitro. American Journal of Physiology - Renal Physiology, 2015, 309, G613-G624.	3.4	62
10	Human Mesenchymal Stromal Cell-Derived Extracellular Vesicles Improve Liver Regeneration After Ischemia Reperfusion Injury in Mice. Stem Cells and Development, 2019, 28, 1451-1462.	2.1	57
11	Phosphodiesterase-4 inhibition as a therapeutic approach to treat capillary leakage in systemic inflammation. Journal of Physiology, 2012, 590, 2693-2708.	2.9	54
12	Differential role of Rho GTPases in intestinal epithelial barrier regulation in vitro. Journal of Cellular Physiology, 2011, 226, 1196-1203.	4.1	49
13	Desmoglein 2 regulates the intestinal epithelial barrier via p38 mitogen-activated protein kinase. Scientific Reports, 2017, 7, 6329.	3.3	48
14	Impaired cAMP and Rac 1 Signaling Contribute to TNF- $\alpha$ -Induced Endothelial Barrier Breakdown in Microvascular Endothelium. Microcirculation, 2009, 16, 521-533.	1.8	47
15	Desmoglein 2, but not desmocollin 2, protects intestinal epithelia from injury. Mucosal Immunology, 2018, 11, 1630-1639.	6.0	45
16	Loss of Desmoglein 2 Contributes to the Pathogenesis of Crohn's Disease. Inflammatory Bowel Diseases, 2015, 21, 1.	1.9	41
17	Serum-derived factors of breast cancer patients with brain metastases alter permeability of a human blood-brain barrier model. Fluids and Barriers of the CNS, 2020, 17, 31.	5.0	33
18	Clinical Presentation, Treatment, and Outcome of Parathyroid Carcinoma. Annals of Surgery, 2022, 275, e479-e487.	4.2	33

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19	Impaired integrin-mediated adhesion contributes to reduced barrier properties in VASP-deficient microvascular endothelium. <i>Journal of Cellular Physiology</i> , 2009, 220, 357-366.	4.1	32
20	Endothelial barrier stabilization by a cyclic tandem peptide targeting VE-cadherin transinteraction in vitro and in vivo. <i>Journal of Cell Science</i> , 2009, 122, 1616-1625.	2.0	31
21	Dsg2 via Src-mediated transactivation shapes EGFR signaling towards cell adhesion. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 4251-4268.	5.4	30
22	Phosphodiesterase 4 Inhibition Dose Dependently Stabilizes Microvascular Barrier Functions and Microcirculation in a Rodent Model of Polymicrobial Sepsis. <i>Shock</i> , 2014, 41, 537-545.	2.1	29
23	Clinical Implication of Phosphodiesterase-4-Inhibition. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1209.	4.1	25
24	Role of NF- $\kappa$ B activation in LPS-induced endothelial barrier breakdown. <i>Histochemistry and Cell Biology</i> , 2012, 138, 627-641.	1.7	24
25	Intestinal Epithelial Barrier Maturation by Enteric Glial Cells Is GDNF-Dependent. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1887.	4.1	24
26	Enteroids Generated from Patients with Severe Inflammation in Crohn's Disease Maintain Alterations of Junctional Proteins. <i>Journal of Crohn's and Colitis</i> , 2020, 14, 1473-1487.	1.3	23
27	E7080 (Lenvatinib), a Multi-Targeted Tyrosine Kinase Inhibitor, Demonstrates Antitumor Activities Against Colorectal Cancer Xenografts. <i>Neoplasia</i> , 2014, 16, 972-981.	5.3	20
28	The glial cell-line derived neurotrophic factor: a novel regulator of intestinal barrier function in health and disease. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G1118-G1123.	3.4	20
29	ST18 Enhances PV-IgG-Induced Loss of Keratinocyte Cohesion in Parallel to Increased ERK Activation. <i>Frontiers in Immunology</i> , 2019, 10, 770.	4.8	20
30	Prognostic Relevance of Steroid Sulfation in Adrenocortical Carcinoma Revealed by Molecular Phenotyping Using High-Resolution Mass Spectrometry Imaging. <i>Clinical Chemistry</i> , 2019, 65, 1276-1286.	3.2	19
31	Gastric Bypass-Related Effects on Glucose Control, $\beta$ Cell Function and Morphology in the Obese Zucker Rat. <i>Obesity Surgery</i> , 2016, 26, 1228-1236.	2.1	16
32	Desmoglein2 Regulates Claudin2 Expression by Sequestering PI-3-Kinase in Intestinal Epithelial Cells. <i>Frontiers in Immunology</i> , 2021, 12, 756321.	4.8	15
33	Balanced Hydroxyethylstarch (HES 130/0.4) Impairs Kidney Function In-Vivo without Inflammation. <i>PLoS ONE</i> , 2015, 10, e0137247.	2.5	14
34	Sphingosine-1-Phosphate Receptor-1 Agonist Sew2871 Causes Severe Cardiac Side Effects and Does Not Improve Microvascular Barrier Breakdown in Sepsis. <i>Shock</i> , 2018, 49, 71-81.	2.1	14
35	Gastrointestinal epithelial innate immunity regionalization and organoids as new model. <i>Journal of Molecular Medicine</i> , 2021, 99, 517-530.	3.9	13
36	Colorectal cancer in Crohn's colitis is associated with advanced tumor invasion and a poorer survival compared with ulcerative colitis: a retrospective dual-center study. <i>International Journal of Colorectal Disease</i> , 2021, 36, 141-150.	2.2	12

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37	Case Report: Abdominal Lymph Node Metastases of Parathyroid Carcinoma: Diagnostic Workup, Molecular Diagnosis, and Clinical Management. <i>Frontiers in Endocrinology</i> , 2021, 12, 643328.	3.5	12
38	G6b-B regulates an essential step in megakaryocyte maturation. <i>Blood Advances</i> , 2022, 6, 3155-3161.	5.2	11
39	The time point of completion thyroidectomy has no prognostic impact in patients with differentiated thyroid cancer. <i>Clinical Endocrinology</i> , 2018, 90, 479-486.	2.4	9
40	An underestimated pathogen: <i>Staphylococcus epidermidis</i> induces pro-inflammatory responses in human alveolar epithelial cells. <i>Cytokine</i> , 2019, 123, 154761.	3.2	9
41	Validation of MTL30 as a quality indicator for colorectal surgery. <i>PLoS ONE</i> , 2020, 15, e0238473.	2.5	9
42	Development of a Simple and Robust Whole Blood Assay with Dual Co-Stimulation to Quantify the Release of T-Cellular Signature Cytokines in Response to <i>Aspergillus fumigatus</i> Antigens. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 462.	3.5	9
43	Desmoglein 2 can undergo Ca <sup>2+</sup> -dependent interactions with both desmosomal and classical cadherins including E-cadherin and N-cadherin. <i>Biophysical Journal</i> , 2022, 121, 1322-1335.	0.5	9
44	Phosphodiesterase-4 inhibition with rolipram attenuates hepatocellular injury in hyperinflammation in vivo and in vitro without influencing inflammation and HO-1 expression. <i>Journal of Pharmacology and Pharmacotherapeutics</i> , 2015, 6, 13-23.	0.4	7
45	Obstructed defecation—“an enteric neuropathy? An exploratory study of patient samples. <i>International Journal of Colorectal Disease</i> , 2019, 34, 193-196.	2.2	7
46	Prognostic impact of simultaneous venous resections during surgery for resectable pancreatic cancer. <i>Hpb</i> , 2020, 22, 1384-1393.	0.3	7
47	Early Ileocecal Resection Is an Effective Therapy in Isolated Crohn’s Disease. <i>Journal of Clinical Medicine</i> , 2021, 10, 731.	2.4	7
48	Evaluation of diagnostic efficacy for localization of parathyroid adenoma in patients with primary hyperparathyroidism undergoing repeat surgery. <i>Langenbeck's Archives of Surgery</i> , 2021, 406, 1615-1624.	1.9	7
49	Ureaplasma Species Modulate Cytokine and Chemokine Responses in Human Brain Microvascular Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3583.	4.1	6
50	Simulating the Post-gastric Bypass Intestinal Microenvironment Uncovers a Barrier-Stabilizing Role for FXR. <i>iScience</i> , 2020, 23, 101777.	4.1	6
51	Chronic Occupational Mold Exposure Drives Expansion of <i>Aspergillus</i> -Reactive Type 1 and Type 2 T-Helper Cell Responses. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 698.	3.5	6
52	The Revival of Surgery in Crohn’s Disease—“Early Intestinal Resection as a Reasonable Alternative in Localized Ileitis. <i>Biomedicines</i> , 2021, 9, 1317.	3.2	6
53	Sphincter-sparing intersphincteric rectal resection as an alternative to proctectomy in long-standing fistulizing and stenotic Crohn’s proctitis?. <i>International Journal of Colorectal Disease</i> , 2015, 30, 655-663.	2.2	5
54	Prognostic impact of additive chemotherapy after curative resection of metachronous colorectal liver metastasis: a single-centre retrospective study. <i>BMC Cancer</i> , 2021, 21, 490.	2.6	5

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55	Ureaplasma species modulate cell adhesion molecules and growth factors in human brain microvascular endothelial cells. Cytokine, 2019, 121, 154737.	3.2	4
56	Suppurative thyroiditis caused by ingested fish bone in the thyroid gland: a case report on its diagnostics and surgical therapy. BMC Surgery, 2022, 22, 92.	1.3	4
57	Leaky Gut as a Potential Culprit for the Paradoxical Dysglycemic Response to Gastric Bypass-Associated Ileal Microbiota. Metabolites, 2021, 11, 153.	2.9	3
58	Weight loss from caloric restriction vs Roux-en-Y gastric bypass surgery differentially regulates systemic and portal vein GDF15 levels in obese Zucker fatty rats. Physiology and Behavior, 2021, 240, 113534.	2.1	3
59	Differences in morbidity and mortality between unilateral adrenalectomy for adrenal Cushing's syndrome and bilateral adrenalectomy for therapy refractory extra-adrenal Cushing's syndrome. Langenbeck's Archives of Surgery, 2022, 407, 2481-2488.	1.9	3
60	Ureaplasma-Driven Neonatal Neuroinflammation: Novel Insights from an Ovine Model. Cellular and Molecular Neurobiology, 2023, 43, 785-795.	3.3	1
61	cAMP-dependent Rac 1 inactivation is associated with LPS-induced endothelial barrier breakdown. FASEB Journal, 2008, 22, 926.14.	0.5	0
62	VASP-mediated Rac 1 activation contributes to cAMP-induced microvascular endothelial barrier stabilization. FASEB Journal, 2009, 23, 796.2.	0.5	0
63	Intestinal epithelial barrier integrity requires Desmoglein-2-mediated adhesion. FASEB Journal, 2010, 24, 1002.30.	0.5	0
64	Phosphodiesterase-4 inhibition stabilizes microvascular endothelial barrier functions and microcirculation in a model of polymicrobial sepsis. FASEB Journal, 2013, 27, 1b656.	0.5	0
65	Dsg2 regulates intestinal epithelial cell adhesion and barrier function via EGFR. FASEB Journal, 2018, 32, 286.3.	0.5	0
66	GDNF-induced intestinal epithelial barrier stabilization is RET-dependent. FASEB Journal, 2019, 33, .	0.5	0
67	Enteroids from stem cells of patients with Crohn's disease reflect intestinal epithelial barrier changes when compared to tissue specimens. FASEB Journal, 2019, 33, 496.30.	0.5	0
68	Standardized Colon Ascendens Stent Peritonitis in Rats - a Simple, Feasible Animal Model to Induce Septic Acute Kidney Injury. Journal of Visualized Experiments, 2022, , .	0.3	0
69	Molecular and Functional Characterization of the Dual-Specificity Phosphodiesterase Type 10A in Human White Adipocytes. FASEB Journal, 2022, 36, .	0.5	0