

Prof. S. Gründer

Data as of February 17, 2023

Total citations: >5600

Papers with >100 citations: 15

h-Index: 34

(Data based on Clarivate Analytics)

Original Publications

- (69) Aguilar-Camacho JM, Foreman K, Jaimes-Becerra, A, Aharoni R, **Gründer S***, and Moran Y*
Functional analysis in a model sea anemone reveals phylogenetic complexity and a role in cnidocyte discharge of DEG/ENaC ion channels.
Commun. Biol., 6(1), 17 (2023)
- (68) Cortés Franco KD, Brakmann IC, Feoktistova M, Panayotova-Dimitrova D, **Gründer S***, and Tian, Y
Aggressive migration in acidic pH of a glioblastoma cancer stem cell line in vitro is independent of ASIC and K_{Ca}3.1 ion channels, but involves phosphoinositide 3-kinase.
Pflügers Arch., 475(3), 405-416 (2023)
- (67) Clusmann J, Franco KC, Suárez DAC, Katona I, Minguez MG, Boersch N, Pissas KP, Vanek J, Tian Y, and **Gründer S***
Acidosis induces RIPK1-dependent death of glioblastoma stem cells via acid-sensing ion channel 1a.
Cell Death Dis., 13(8), 702 (2022)
- (66) Neupane B, Pradhan K, Ortega-Ramirez AM, Aidery P, Kucikas V, Marks M, van Zandvoort MAMJ, Klingel K, Witte KK, **Gründer S**, Marx N, and Gramlich, M
Personalized Medicine Approach in a DCM Patient with LMNA Mutation Reveals Dysregulation of mTOR Signaling.
J. Pers. Med., 12(7), 1149 (2022)
- (65) Leisle L, Margreiter M, Ortega-Ramírez A, Cleuvers E, Bachmann M, Rossetti G, and **Gründer S***
Dynorphin Neuropeptides Decrease Apparent Proton Affinity of ASIC1a by Occluding the Acidic Pocket.
J. Med. Chem., 64(18), 13299-13311 (2021)
- (64) Neuhof A, Tian Y, Reska A, Falkenburger BH, and **Gründer S***
Large Acid-Evoked Currents, Mediated by ASIC1a, Accompany Differentiation in Human Dopaminergic Neurons.
Front. Cell. Neurosci., 15, 668008 (2021)
- (63) Kuspiel K, Wiemuth D, and **Gründer S***
The Neuropeptide Nocistatin Is Not a Direct Agonist of Acid-Sensing Ion Channel 1a (ASIC1a).
Biomolecules, 11(4), 571 (2021)

- (62) Bachmann M, Ortega-Ramírez A, Leisle L, and **Gründer S***
Efficient expression of a cnidarian peptide-gated ion channel in mammalian cells.
Channels, 15, 273-283 (2021)
- (61) Tian Y, Korn P, Tripathi P, Komnig D, Wiemuth D, Nikouee A, Classen A, Bolm C, Falkenburger BH, Lüscher B, and **Gründer S***
The mono-ADP-ribosyltransferase ARTD10 regulates the voltage-gated K⁺ channel Kv1.1 through protein kinase C delta.
BMC Biology, 18, 143 (2020)
- (60) Schmidt A, Joussem S, Hausmann R, **Gründer S** and Wiemuth D*
Bile acids are potent inhibitors of rat P2X2 receptors.
Purinergic Signal. 15(2), 213-221 (2019)
- (59) Vyvers, Schmidt A*, Wiemuth D and **Gründer S***
Screening of 109 neuropeptides on ASICs reveals no direct agonists and dynorphin A, YFMRFamide and endomorphin-1 as modulators.
Sci. Rep. 8(1), 18000 (2018)
- (58) Schmidt A, Bauknecht P, Williams EA, Augustinowski K, **Gründer S***, and Jékely G*
*Dual signaling of Wamide myoinhibitory peptides through a peptide-gated channel and a GPCR in *Platynereis*.*
FASEB J. 32, 5338-5349 (2018)
- (57) Reiners M, Margreiter MA, Oslender-Bujotzek A, Rossetti G, **Gründer S***, Schmidt A*
The conoRFamide RPRFa stabilizes the open conformation of Acid-Sensing Ion Channel 3 via the nonproton ligand sensing domain.
Mol. Pharmacol. 94(4), 1114-1124
- (56) Lehmke L, Coburn M, Möller M, Blaumeiser-Debarry R, Lenzig P, Wiemuth D and **Gründer S***
Inhalational anesthetics accelerate desensitization of acid-sensing ion channels.
Neuropharmacol. 135, 496-505 (2018)
- (55) Schmidt A, Alsop RJ, Rimal R, Lenzig P, Gervasi NN, **Gründer S**, Rheinstädter MC, and Wiemuth D
Amphiphilic substances modulate Deg/ENaCs by modifying membrane structure and density.
Biophysical. J. 114, 1321-1335 (2018)
- (54) Schmidt A, Rossetti G, Joussem S, **Gründer S***
Diminazene is a slow pore blocker of acid-sensing ion channel 1a (ASIC1a).
Mol. Pharmacol., 92(6), 665-675 (2017)
- (53) Tian Y, Bresenitz P, Reska A, El Moussaoui L, Beier C and **Gründer S***
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Sci. Rep. 7, 13674 (2017)
- (52) Reimers C, Lee C-H, Kalbacher H, Tian Y, Hung C-H, Schmidt A, Prokop L, Käuferstein S, Mebs D, Cheng C-C and **Gründer S***
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Proc. Natl. Acad. Sci. USA 114(17), E3507-E3515 (2017)
- (51) Komnig D, Imgrund S, Reich A, **Gründer S** and Falkenburger BH
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- (50) Schmidt A, Löhner D, Alsop RJ, Lenzig P, Oslender-Bujotzek A, Wirtz M, Rheinstädter MC, **Gründer S**, and Wiemuth D
A cytosolic amphiphilic alpha helix controls the activity of the Bile Acid Sensitive Ion Channel BASIC.
J. Biol. Chem. 291(47): 24551-24565 (2016)
- (49) Joeres N, Augustinowski K, Neuhof A, Assmann M and **Gründer S***
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Sci. Rep. 6, 27647 (2016)
- (48) Schwartz V, Friedrich K, Polleichtner G and **Gründer S***
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Sci. Rep. 5, 18242 (2015)
- (47) Hendriks CM, Penning TM, Zang T, Wiemuth D, **Gründer S**, Sanhueza IA, Schoenebeck F, and Bolm C
Pentafluorosulfanyl-containing flufenamic acid analogs: Syntheses, properties and biological activities.
Bioorg. Med. Chem. Lett. 52(20), 4437-4440 (2015)
- (46) Schmidt A, Lenzig P, Oslender-Bujotzek A, **Gründer S** and Wiemuth D
The bile acid-sensitive ion channel (BASIC) is activated by alterations of its membrane environment.
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- (45) Assmann M, Kuhn A, Dürrnagel S, Holstein TW and **Gründer S**
The comprehensive analysis of DEG/ENaC subunits in Hydra reveals a large variety of peptide-gated channels, potentially involved in neuromuscular transmission.
BMC Biology, 12, 84 (2014)
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Reviews

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- (3) Wiemuth D, Assmann M, and **Gründer S**. *The bile acid-sensitive ion channel (BASIC), the ignored cousin of ASICs and ENaC.* **Channels** 8(1): 29 – 34, (2014)

- (2) **Gründer S*** and Chen X
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- (1) **Gründer S** and Rossier BC
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