

## Prof. S. Gründer

Data as of January 07, 2022

Total citations: >5000

Papers with >100 citations: 14

h-Index: 32

(Data based on Clarivate Analytics)

### Original Publications

- (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<sup>+</sup> channel Kv1.1 through protein kinase C delta.*  
**BMC Biology**, 18, 143 (2020)
- (60) Schmidt A, Jousen 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, YFMRamide 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, Joussen 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\***  
*Glioblastoma cancer stem cell lines express functional acid sensing ion channels ASIC1a and ASIC3.*  
**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\***  
*Identification of a cono-RFamide from the venom of Conus textile that targets ASIC3 and enhances muscle pain.*  
**Proc. Natl. Acad. Sci. USA** 114(17), E3507-E3515 (2017)
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**PLOS ONE** 11(11), e0165235 (2016)
- (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.** 5, 18242 (2015)
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**PLOS ONE** 9(10), e111549 (2014)
- (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)
- (44) Wiemuth D, Lefèvre C, Heidtmann H and **Gründer S**  
*Bile acids increase the activity of the Epithelial Na<sup>+</sup> Channel.*  
**Pfluegers Archiv, Eur. J. Physiol.**, 466, 1725-1733 (2014)
- (43) Bartoi T, Augustinowski K, Polleichtner G, **Gründer S\*** and Ulbrich MH  
*Acid-sensing ion channel (ASIC) 1a/2a heteromers have a flexible 2:1/1:2 stoichiometry.*  
**Proc. Natl. Acad. Sci. USA**, 111(2), 8281-8286 (2014)
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*Pharmacological and electrophysiological characterization of the human bile acid-sensitive ion channel (hBASIC).*  
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- (35) Wiemuth D and **Gründer S**  
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## **Reviews**

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- (1) **Gründer S** and Rossier BC  
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