

J. BENITA SJOGREN

PUBLICATIONS:

* indicates corresponding author

Articles:

1. McNabb HM, Gonzalez S, Muli CM, **Sjögren B***. (2020) N-terminal Targeting of Regulator of G Protein Signaling 2 for F-box Only Protein 44-mediated Proteasomal Degradation. *Mol. Pharmacol.* 98(6):677-685.
2. Phan HT, **Sjögren B**, Neubig RR. (2017) Human Missense Mutations in Regulator of G Protein Signaling 2 Affect the Protein Function Through Multiple Mechanisms. *Mol. Pharmacol.* 92(4):451-458.
3. Feng H, **Sjögren B**, Karaj B, Shaw V, Gezer A, Neubig RR. (2017) Movement disorder in GNAO1 encephalopathy associated with gain-of-function mutations. *Neurology.* 89(8):762-770.
4. Dong H, Zhang Y, Wang J, Kim DS, Wu H, **Sjögren B**, Gao W, Luttrell L, Wang H. (2017) Regulator of G protein signaling 2 is a key regulator of pancreatic β -cell mass and function. *Cell Death and Disease* 8:e2821.
5. Jones CL, Njomen E, **Sjögren B**, Dexheimer TS, Tepe JJ. (2017) Small Molecule Enhancement of 20S Proteasome Activity Targets Intrinsically Disordered Proteins. *ACS Chem Biol.* 12(9):2240-2247.
6. Ferland DJ, Darios ES, Neubig RR, **Sjögren B**, Truong N, Torres R, Dexheimer TS, Thompson JM, Watts SW. (2017) Chemerin-induced arterial contraction is Gi- and calcium-dependent. *Vascul. Pharmacol.* 88:30-41.
7. **Sjögren B***, Parra S, Atkins KB, Karaj B, Neubig RR. (2016) Digoxin-Mediated Upregulation of RGS2 Protein Protects against Cardiac Injury. *J. Pharmacol. Exp. Ther.* 357:1-9.
8. **Sjögren B***, Swaney S, Neubig RR. (2015) FBXO44-mediated degradation of RGS2 protein uniquely depends on a Cullin 4B/DDB1 complex. *PLoS One.* 10(5): e0123581.
9. Raveh A, Schultz PJ, Aschermann L, Carpenter C, Tamayo-Castillo G, Cao S, Clardy J, Neubig RR, Sherman DH, **Sjögren B.*** (2014) Identification of PKC activation as a novel mechanism for RGS2 protein upregulation through phenotypic screening of natural product extracts. *Mol. Pharmacol.* 86(4):406-16.
10. Storaska AJ, Mei JP, Wu M, Li M, Wade SM, Blazer LL, **Sjögren B**, Hopkins CR, Lindsley CW, Lin Z, Babcock JJ, McManus OB, Neubig RR. (2013) Reversible inhibitors of regulators of G-protein signaling identified in a high-throughput cell-based calcium signaling assay. *Cell Signal.* 25(12):2848-55.
11. **Sjögren B**, Parra S, Heath LJ, Atkins KB, Xie Z-J, Neubig RR. (2012) Cardiotonic steroids stabilize RGS2 protein levels. *Mol Pharmacol* 82(3):500-9.
12. Eriksson TM, Holst S, Stan TL, Hager T, **Sjögren B**, Ogren SÖ, Svenningsson P, Stiedl O. (2012) 5-HT1A and 5-HT7 receptor crosstalk in the regulation of emotional memory: implications for effects of selective serotonin reuptake inhibitors. *Neuropharmacology* 63(6):1150-60.
13. Madeira A, Ohman E, Nilsson A, **Sjögren B**, Andrén PE, Svenningsson P. (2009) Coupling surface plasmon resonance to mass spectrometry to discover novel protein-protein interactions. *Nat Protoc.* 4(7):1023-37.
14. Svensson M, Boren M, Sköld K, Fälth M, **Sjögren B**, Andersson M, Svenningsson P, Andren PE. (2009) Heat stabilization of the tissue proteome: a new technology for improved proteomics. *J Proteome Res.* 8(2):974-81.
15. **Sjögren, B.**, Csöreg, L., Svenningsson, P. (2008) Cholesterol reduction attenuates 5-HT1A receptor-mediated signaling in human primary neuronal cultures. *Naunyn Schmiedebergs Arch Pharmacol.* 378(4):441-6.
16. Ohman E, Nilsson A, Madeira A, **Sjögren B**, Andrén PE, Svenningsson P. (2008) Use of surface plasmon resonance coupled with mass spectrometry reveals an interaction between the voltage-gated sodium channel type X alpha-subunit and caveolin-1. *J Proteome Res.* 7(12):5333-8.
17. **Sjögren, B.**, Svenningsson, P. (2007) Depletion of the lipid raft constituents, sphingomyelin and ganglioside, decreases serotonin binding at human 5-HT7(a) receptors in HeLa cells. *Acta Phys.* 190(1):47-53.
18. **Sjögren, B.**, Svenningsson, P. (2007) Caveolin-1 affects serotonin binding and cell surface levels of human 5-HT7(a) receptors. *FEBS Lett.* 581(26):5115-21.

19. Sköld, K., Nilsson, A., **Sjögren, B.**, Svensson, M., Pierson, J., Zhang, X., Caprioli, R.M., Buijs, J., Persson, B., Svenningsson, P., André, P.E. (2007) Increased striatal mRNA and protein levels of the immunophilin FKBP-12 in experimental Parkinson disease and identification of FKBP12-binding proteins. *J. Proteome. Res.* 6(10):3952-61.
20. Sköld, K., Svensson, M., Norrman, M., **Sjögren, B.**, Svenningsson, P., André, P.E. (2007) The significance of biochemical and molecular sample integrity in brain proteomics and peptidomics: Stathmin 2-20 and peptides as sample quality indicators. *Proteomics.* 7(24):4445-56.
21. **Sjögren, B.**, Hamblin, M.W., Svenningsson, P. (2006) Cholesterol depletion reduces serotonin binding and signaling via human 5-HT_{7a} receptors. *Eur. J. Pharm.* 553:1-10.

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1. McNabb HM, Zhang Q, **Sjögren B***. (2020) Emerging roles for RGS2 in (patho)physiology. *Mol Pharmacol.* 98(6):751-760.
2. Ahlers-Dannen, K. E., Alqinyah, M., Bodle, C., Bou Dagher, J., Chakravarti, B., Choudhuri, S. P., Druey, K. M., Fisher, R. A., Gerber, K. J., Hepler, J. R., Hooks, S. B., Kantheti, H. S., Karaj, B., Lee, J.-K., Luo, Z., Martemyanov, K., Mascarenhas, L. D., Phan Thi Nhu, H., Roman, D. L., Shaw, V., **Sjögren, B.***, Spicer, M. M., Squires, K. E., Sutton, L., Wilkie, T. M., Xie, K. and Zolghadri, Y. (2020) "Regulators of G protein Signaling (RGS) proteins (version 2020.4) in the IUPHAR/BPS Guide to Pharmacology Database", IUPHAR/BPS Guide to Pharmacology CITE, 2020(4). doi: 10.2218/gtopdb/F891/2020.4.
3. Alexander SPH, Kelly E, Mathie A, Peters JA, Veale EL, Armstrong JF, Faccenda E, Harding SD, Pawson AJ, Sharman JL, Southan C, Buneman OP, Cidlowski JA, Christopoulos A, Davenport AP, Fabbro D, Spedding M, Striessnig J, Davies JA; **CGTP Collaborators.** (2019) THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Introduction and Other Protein Targets. *Br J Pharmacol.* 176 Suppl 1(Suppl 1):S1-S20.
4. **Sjögren B*** (2017) The evolution of RGS proteins as drug targets – 20 years in the making. *IUPHAR Review* 21. *Br. J. Pharmacol.* 174(6):427-437.
5. **Sjögren B**, Neubig RR. (2010) Thinking outside of the "RGS box": new approaches to therapeutic targeting of regulators of G protein signaling. *Mol Pharmacol.* 78(4):550-7.
6. Björk K, **Sjögren B**, Svenningsson P. (2010) Regulation of serotonin receptor function in the nervous system by lipid rafts and adaptor proteins. *Exp Cell Res.* 316(8):1351-6.

Book chapters:

1. **Sjögren B.*** (2011) Regulators of G protein signaling proteins as drug targets: Current state and future possibilities. *Adv. Pharm.* 62:315-347.
2. Madeira A, Vikeved E, Nilsson A, **Sjögren B**, André PE, Svenningsson P.(2011) Identification of protein-protein interactions by surface plasmon resonance followed by mass spectrometry. *Curr Protoc Protein Sci.* 2011 Aug; Chapter 19; Unit 19.21.
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Database entries:

1. Hoa Phan Thi Nhu, **Benita Sjögren.** R4 family: regulator of G-protein signaling 2. Last modified on 14/09/2015. IUPHAR/BPS Guide to PHARMACOLOGY.
<http://guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2808>.
2. Vincent Shaw, **Benita Sjögren.** R4 family: regulator of G-protein signaling 4. Last modified on 14/09/2015. IUPHAR/BPS Guide to PHARMACOLOGY,
<http://guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=2811>.
3. Kirk M. Druey, Rory A. Fisher, Zili Luo, Hoa Phan Thi Nhu, Vincent Shaw, Thomas Wilkie, Yalda Zolghadri, **Benita Sjögren.** R4 family. IUPHAR/BPS Guide to PHARMACOLOGY

<http://www.guidetopharmacology.org/GRAC/FamilyDisplayForward?familyId=893>