

Dr. CLAUDIO ACUNA GOYCOLEA**1) General information**

Date of birth: 17 May, 1977
 Gender: Male
 Address: Heidelberg University
 Institute of Anatomy and Cell Biology
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 69120 Heidelberg, Germany
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 Position: Chica and Heinz Schaller Research Group Leader
 Children: None
 Parental leave, if applicable: None

**2) University training and degree**

1995 - 2000 Studies in Biology, Universidad Catolica, Chile

3) Advanced academic qualifications

2001 - 2005 Doctoral dissertation in Biological Sciences, Neurobiology, Mentors:
 Prof. Anthony van den Pol, Dept. of Neurosurgery, Yale University, New Haven, USA
 Prof. Fernando Torrealba, Dept. of Physiology, Universidad Catolica, Chile

4) Postgraduate professional career

Since 2018 Independent Group Leader, Schaller Research group at the Institute of Anatomy and Cell Biology, Medical Faculty of Heidelberg, Heidelberg University, Germany
 2009 - 2017 Postdoctoral Fellow with Prof. Dr. Thomas C Südhof, Stanford University Palo Alto, CA, USA
 2006 - 2008 Postdoctoral fellow with Prof. Dr. Wade G Regehr, Dept. of Neurobiology, Harvard University, Boston, USA

5) OtherAwards and honours:

2018 - 2025 Chica and Heinz Schaller Group Leader Grant, Germany
 2010 - 2014 Fondecyt Grant, Chile (equivalent to RO1) (PI, declined)
 2006 - 2008 Dana Mahony Neuroscience Fellowship (Harvard)
 2000 - 2004 Conicyt fellowship for PhD students (Chile)
 2002 - 2004 Conicyt PhD thesis Fellowship (Chile)
 2002 - 2003 MECESUP Fellowship to visit international centers (Chile-Yale)
 2002 Fellowship to attend SfN Meeting (Orlando USA)

6) Publications

A)

Mencacci NE, Brockmann MM, Dai J, Pajusalu S, Atasu B, Campos J, Pino G, Gonzalez-Latapi P, Patzke C, Schwake M, Tucci A, Pittman A, Simon-Sanchez J, Carvill GL, Balint B, Wiethoff S, Warner TT, Papandreou A, Soo A, Rein R, Kadastik-Eerme L, Puusepp S, Reinson K, Tomberg T, Hanagasi H, Gasser T, Bhatia KP, Kurian MA, Lohmann E, Öunap K, Rosenmund C, Südhof TC, Wood NW, Krainc D, Acuna C**. Biallelic variants in TSPOAP1, encoding the active-zone protein RIMBP1, cause autosomal recessive dystonia. **J Clin Invest.**; 131(7):e140625, 2021.

Sclip A, Acuna C, Luo F, Südhof TC. RIM-binding proteins recruit BK-channels to presynaptic release sites adjacent to voltage-gated Ca(2+)-channels. **EMBO J**; pii: e98637. doi 10.15252/embj.201798637, 2018.

Luo F, Liu X, Südhof TC**, Acuna C**. Efficient stimulus-secretion coupling at ribbon synapses requires RIM-binding protein tethering of L-type Ca(2+) channels. **Proc Natl Acad Sci U S A**; 114(38):E8081-e8090, 2017.

Patzke C, Acuna C, Giam LR, Wernig M, Südhof TC. Conditional deletion of L1CAM in human neurons impairs both axonal and dendritic arborization and action potential generation. **J Exp Med**; 213(4):499-515, 2016.

Acuna C**, Liu X, Südhof TC**. How to Make an Active Zone: Unexpected Universal Functional Redundancy between RIMs and RIM-BPs. **Neuron**; 91(4):792-807, 2016.

Acuna C**, Liu X, Gonzalez A, Südhof TC**. RIM-BPs Mediate Tight Coupling of Action Potentials to Ca(2+)-Triggered Neurotransmitter Release. **Neuron**; 87(6):1234-1247, 2015.

Acuna C, Guo Q, Burre J, Sharma M, Sun J, Südhof TC. Microsecond dissection of neurotransmitter release: SNARE-complex assembly dictates speed and Ca(2+)(+) sensitivity. **Neuron**; 82(5):1088-1100, 2014.

Antal M*, Acuna-Goycolea C*, Pressler RT, Blitz DM, Regehr WG. Cholinergic activation of M2 receptors leads to context-dependent modulation of feedforward inhibition in the visual thalamus. **PLoS Biol**; 8(4):e1000348, 2010.

Acuna-Goycolea C, Brenowitz SD, Regehr WG. Active dendritic conductances dynamically regulate GABA release from thalamic interneurons. **Neuron**; 57(3):420-431, 2008.

van den Pol AN, Acuna-Goycolea C, Clark KR, Ghosh PK. Physiological properties of hypothalamic MCH neurons identified with selective expression of reporter gene after recombinant virus infection. **Neuron**; 42(4):635-652, 2004.

* Equally contributing authors

** Corresponding authors

B) other publications: -

C) Patents: -