

## 2020:

Richard G. Held, Changliang Liu, Kunpeng Ma, Tyler Tarr, Austin Ramsey, Shan Shan H. Wang, Jiexin Wang, Arn van den Maagdenberg, **Toni Schneider**, Jianyuan Sun, Thomas A. Blanpied, and Pascal S. Kaeser (2020) Synapse and active zone assembly in the absence of presynaptic  $\text{Ca}^{2+}$  channels and  $\text{Ca}^{2+}$  entry. *Neuron*, in press.

Neumaier F., Alpdogan S., Hescheler J., **Schneider T.** (2020)  $\text{Zn}^{2+}$ -induced changes in  $\text{Ca}_v2.3$  channel function: An electrophysiological and modeling study. *J. Gen. Physiology*, doi: 10.1085/jgp.202012585, in press.

**Schneider T.**, Neumaier F., Hescheler J., Alpdogan S. (2020)  $\text{Ca}_v2.3$  R-type calcium channels: from its discovery to pathogenic de novo CACNA1E variants: a historical perspective. *Pflügers Archive European J. Physiology*, in press.

Lüke J.N., Neumaier F., Alpdogan S., Hescheler J., **Schneider T.**, Albanna W., Akhtar-Schäfer I. (2020) Submicromolar copper (II) ions modulate transretinal signaling differently in the isolated retina from  $\text{Ca}_v2.3$ -competent compared to  $\text{Ca}_v2.3$ -deficient mice. *BMC Ophthalmology*, in press.

Alpdogan S., Neumaier F., Hescheler J., Albanna W., **Schneider T.** (2020) Experimentally induced convulsive seizures are modulated in part by zinc ions through the pharmacoresistant  $\text{Ca}_v2.3$  calcium channel. *Cellul. Physiol. Biochem.*, 54, 180-194.

## 2019:

Julia Benkert, Simon Hess, Shoumik Roy, Dayne Beccano-Kelly, Nicole Wiederspohn, Johanna Duda, Carsten Simons, Komal Patil, Aisylu Gaiffulina, Nadja Mannal, Elena Dragicevic, Desirée Spaich, Sonja Müller, Julia Nemeth, Helene Hollmann, Nora Deuter, Yassine Mousba, Christian Kubisch, Christina Pötschke, Joerg Striessnig, Olaf Pongs, **Toni Schneider**, James D. Surmeier, Richard Wade-Martins, Sandip Patel, Rosanna Parlato, Tobias Frank, Peter Kloppenburg, Birgit Liss (2019)  $\text{Ca}_v2.3$  channels trigger selective dopaminergic degeneration in Parkinson's disease. *Nature communication*, in press.

Carsten Simons, Julia Benkert, Nora Deuter, Olaf Pongs, **Toni Schneider**, Johanna Duda, Birgit Liss (2019) NCS-1 deficiency affects mRNA-levels of genes involved in regulation of ATP-Synthesis and mitochondrial stress in highly vulnerable Substantia nigra dopaminergic neurons. *Frontiers in Molecular Neuroscience*, in press.

Benkert J, Hess S, Roy S, Wiederspohn N, Duda J, Hollmann H, Mueller S, Poetschke C, Parlato R, Striessnig J, Schneider T, Frank T, Kloppenburg P, Liss B (2019)  $\text{Ca}_v2.3$  channels trigger selective dopaminergic neuron loss in Parkinsons disease. *Acta Physiol (Ox.)*. **227** 719: - (Impact(2017)=5.93, Typ=Meeting Abstract)

Alpdogan S., Neumaier F., Dibué-Adjei M., Hescheler J., **Schneider T.** (2019) Intracerebroventricular administration of histidine reduces kainic acid induced convulsive seizures in mice. *Experimental Brain Research*, 237: 2481-2493 doi: 10.1007/s00221-019-05605-z.

Albanna W\*, Lüke J.N.\*, Schubert G.A., Dibué-Adjei M., Kotliar K., Hescheler J., Clusmann H., Steiger J.-J., Hänggi D., Kamp M.A., **Schneider T.**, Neumaier F. (2019). Modulation of  $\text{Ca}_v2.3$  channels by unconjugated bilirubin (UCB) – Candidate mechanism for UCB-induced neuromodulation and neurotoxicity. *Mol. Cellul. Neuroscience*, 96, 35-46. \* contributed equally to first authorship

## 2018:

Albanna W, Kotliar K., Lüke JN, Alpdogan S, Conzen C, Lindauer U, Clusmann H, Hescheler J, Vilser W, **Schneider T**, Schubert GA (2018) Non-invasive evaluation of neurovascular coupling in the murine retina by dynamic retinal vessel analysis. *PLoS One* 13 (10) doi: 10.1371/journal.pone.0204689. eCollection 2018.

Neumaier Felix, Alpdogan Serdar, Hescheler Jürgen, **Schneider Toni** (2018) A practical guide to the preparation and use of metal ion-buffered systems in physiological research. *Acta Physiol (Oxf)*. 2018 Mar;222(3). doi: 10.1111/apha.12988. Epub 2017 Nov 12. Review.

Neumaier Felix, Alpdogan Serdar, Hescheler Jürgen, **Schneider Toni** (2018) Protein phosphorylation maintains the normal function of cloned human Ca<sub>v</sub>2.3 channels. *J. Gen. Physiology*, 150, 491 – 510. doi: 10.1085/jgp.201711880. Epub 2018 Feb 16.

Neumaier Felix, Paterno Mario, Alpdogan Serdar, Tevoufouet Etienne E., **Schneider Toni**, Hescheler Jürgen, Albanna Walid (2018) In Reply to „Corpus Callosotomy for Drug-Resistant Schizophrenia: Novel Treatment Based on Pathophysiology”. *World Neurosurgery*, in press, doi: 10.1016/j.wneu.2018.04.206.

Walid Albanna\*; Felix Neumaier\*; Jan Niklas Lüke; Konstantin Kotliar; Catharina Conzen; Ute Lindauer; Jürgen Hescheler; Hans Clusmann; **Toni Schneider**<sup>§</sup>; Gerrit Alexander Schubert<sup>§</sup> (2018) Unconjugated bilirubin modulates neuronal signaling only in wildtype mice, but not after ablation of the R-type / Ca<sub>v</sub>2.3 voltage-gated calcium channel. *CNS Neuroscience & Therapeutics*, 24(3):222-230. doi: 10.1111/cns.12791. \*/<sup>§</sup> Contributed equally

Albanna W., Lüke J.N., Neumaier F., Alpdogan S., Conzen, C., Hescheler J., Clusmann H., Lüke M., Schubert G.A., **Schneider T.** (2018) Selected aspects of retinal signaling and energy metabolism and its perspective as a cerebral surrogate model. *New Frontiers in Ophthalmology*, in press.

Neumaier F., Akhtar I, Hescheler J., **Schneider T.** (2018) Reciprocal modulation of Ca<sub>v</sub>2.3 E-/ R-Type voltage-gated calcium channels by copper(II) ions and kainate. *J. Neurochem.*, 147, 310 - 322, doi: 10.1111/jnc.14546.

**Schneider T.**, Alpdogan S., Hescheler J., Neumaier F. (2018) In vitro and in vivo phosphorylation of the Ca<sub>v</sub>2.3 voltage-gated R-type calcium channel. *Channels*, 12, 326 - 334.

## 2017:

Neumaier Felix, Mario Paterno, Serdar Alpdogan, Etienne E. Tevoufouet, **Toni Schneider**, Jürgen Hescheler, Walid Albanna (2017) Surgical approaches in psychiatry: A survey of the world literature on psychosurgery. *World Neurosurgery*, 97: 140-147. doi: 10.1016/j.wneu.2016.10.008. Review.

Tevoufouet E.E., Nembo E.N., Distler F., Neumaier F., Hescheler J., Nguemo F., **Schneider T.** (2017) Multiple Nickel-Sensitive Targets Elicit Cardiac Arrhythmia in Isolated Mouse Hearts after Pituitary Adenylate Cyclase-Activating Polypeptide-Mediated Chronotropy. *Pharmacological Research* 117, 140-147.

Marcel A. Kamp, Jasper v. Lieshout, Maxine Dibué-Adjei, Jasmin Weber, **Toni Schneider**, Tanja Restin, Igor Fischer, Hans-Jakob Steiger (2016) A systematic and meta-analysis of mortality in experimental mouse models analyzing delayed cerebral ischemia after subarachnoid hemorrhage. *Translational Stroke Research*, 8: 206 – 219. doi: 10.1007/s12975-016-0513-3.

Mahdy Ranjbar, **Toni Schneider**, Salvatore Grisnati, Carl Brand, Julia Lüke, Matthias Lüke (2017) The effect of anakinra on retinal function in isolated perfused vertebrate retina. *J. Curr. Ophthalmology*, 29:69-71. doi: 10.1016/j.joco.2016.12.002. eCollection 2017 Mar.

Poomvanicha Montatip, Matthes Jan, Domes Katrin, Patrucco Enrico, Angermeier Elisabeth, Laugwitz Karl-Ludwig, **Schneider Toni**, Hofmann Franz (2017) Beta-adrenergic regulation of the heart expressing the Ser1700A/Thr1704A mutated Ca<sub>v</sub>1.2 channel. *Molecular and Cellular Cardiology* 111: 10-16.

Christian Ritter\*, Martin K. R. Svačina\*, Ilja Bobylev, Abhijeet Joshi, **Toni Schneider**, Helmar C. Lehmann (2017) Impact of age and polytherapy on fingolimod induced bradycardia: a preclinical study. *Journal of Neuroimmune Pharmacology*, 12: 204-209. \* contributed equally

Jasper van Lieshout, Maxine Dibué-Adjei, Jan F. Cornelius, Philipp J. Slotty, **Toni Schneider**, Restin T., Boongaaarts H.D., Hans-Jakob Steiger, Athanasios K. Petridis, Marcel A. Kamp (2017) An Introduction to the

pathophysiology of aneurysmal subarachnoid hemorrhage. *Neurosurgical Review*, doi: 10.1007/s10143-017-0827-y. [Epub ahead of print].

Walid Albanna, Miriam Weiss, Catharina Conzen, Hans Clusmann, **Schneider Toni**, Nicole Heussen, Martin Reinsch, Marguerite Müller, Anke Höllig, Gerrit Alexander Schubert (2017) Systemic and cerebral concentration of nimodipine during established and experimental vasospasm treatment. *World Neurosurgery*, 102: 459-465.

Walid Albanna, Jan Niklas Lueke, Volha Sjapic, Konstantin Kotlair, Jürgen Hescheler, Hans Clusmann, Sergej Sjapic, **Toni Schneider**, Gerrit Alexander Schubert, Felix Neumaier (2017) Electroretinographic assessment of inner retinal signaling in the isolated and superfused murine retina. *Current Eye Research*, 42: 1518-1526.

Dibué-Adjei Maxine, Marcel A. Kamp, Serdar Alpdogan, Etienne E. Tevoufouet, Wolfram F. Neiss, Jürgen Hescheler, **Toni Schneider** (2017)  $Ca_v2.3$  (R-Type) Calcium Channels are Critical for Mediating Anticonvulsive and Neuroprotective Properties of Lamotrigine In Vivo. *Cell. Physiol. Biochem.*, 44: 935 – 947.

**Schneider T.** (2017) Response to “Radiotelemetric EEG recordings in mice — Critical role of transmitter bandwidth and nominal sampling rate in frequency analysis”. *Epilepsy Res.*, 132: 117-118.  
<http://dx.doi.org/10.1016/j.eplepsyres.2016.12.004>

## 2015:

**Schneider T**, Dibue-Adjei M (2015)  $Ca_v2.3$  E-/R-Type Voltage-Gated Calcium Channels Modulate Sleep in Mice. *Sleep* 38:499.

Drobinskaya I, Neumaier F, Pereverzev A, Hescheler J, **Schneider T** (2015) Diethyldithiocarbamate-mediated zinc ion chelation reveals role of  $Ca_v2.3$  channels in glucagon secretion. *Biochim Biophys Acta Mol Cell Res* 1854:953-964.

Ranjbar M, **Schneider T**, Brand C, Grisanti S, Lüke J, Lüke M (2015) The effect of disease-modifying anti-rheumatic drugs on retinal function in the electrophysiological ex-vivo model of the isolated perfused vertebrate retina. *Ophthalmic Res* 53:136-140.

Neumaier F, Dibué-Adjei M, Hescheler J, **Schneider T** (2015) Voltage-gated calcium channels: Determinants of channel function and modulation by inorganic cations. *Progress in Neurobiology* 129:1-36.

Kamp MA, Dibué M, Sommer C, Steiger HJ, **Schneider T**, Hänggi D (2015) Evaluation of a murine single-blood-injection SAH model. *PLoS One* 9:e114946.

Alnawaiseh M, Albanna W, Abumuaileq R, Böhm MRR, Eter N, **Schneider T** (2015) Einfluss von Hypericin auf die isolierte pigmentepithelfreie Netzhaut: Eine elektroretinographische Untersuchung. *Klinische Monatsblätter für Augenheilkunde* 232: 1304-1307..

Siapich S, Akhtar I, Hescheler J, **Schneider T**, Lüke M (2015) Low concentrations of ethanol but not of dimethyl sulfoxide (DMSO) impair reciprocal retinal signal transduction. *Graefes Arch Clin Exp Ophthalmol* 253:1713-1719.

**Schneider T**, Dibué-Adjei M, Neumaier F, Akhtar I, Hescheler J, Kamp MA, Tevoufouet EE (2015) R-type voltage-gated  $Ca^{2+}$  channels in cardiac and neuronal rhythmogenesis. *Current Molecular Pharmacology* 8:102-108.

## 2014:

Kamp MA, Dibué M, Sommer C, Steiger HJ, **Schneider T**, Hänggi D (2014) Evaluation of a murine single-blood-injection SAH model. *PLoS One* 29: e114946. Doi: 10.1371/journal.pone.0114946. eCollection 2014..

Tevoufouet EE, Nembo EN, Dibue-Adjei M, Hescheler J, Nguemo F, **Schneider T** (2014) Cardiac Functions of

Voltage-Gated Ca(2+) Channels: Role of the Pharmacoresistant Type (E-/R-Type) in Cardiac Modulation and Putative Implication in Sudden Unexpected Death in Epilepsy (SUDEP). *Rev Physiol Biochem Pharmacol* 167: 115-139.

**Schneider T**, Dibue-Adjei M (2014) Ca<sub>v</sub>2.3 E-/R-Type Voltage-Gated Calcium Channels Modulate Sleep in Mice. *Sleep* Epub ahead of print (Letter to the editor).

Dibué M, Kamp MA, Neumaier F, Steiger H-J, Hänggi D, Hescheler J, **Schneider T** (2014) Cardiac Phenomena During Kainic-acid Induced Epilepsy and Lamotrigine Antiepileptic Therapy. *Epilepsy Res* 108: 666-674.

Tura A, Alt A, Haritoglou C, Meyer CH, **Schneider T**, Grisanti S, Lüke J, Lüke M, for the international Chromovitrectomy Collaboration (2014) Testing the effects of the dye Acid violet-17 on retinal function for an intraocular application in vitreo-retinal surgery. *Graefes Arch Clin Exp Ophthalmol* 252: 1927-1937.

Ranjbar M, Alt A, Nassar K, Reinsberg M, **Schneider T**, Grisanti S, Lüke J, Lüke M (2014) The Concentration-Dependent Effects of Indocyanine Green on Retinal Function in the Electrophysiological ex vivo Model of Isolated Perfused Vertebrate Retina. *Ophthalmic Res* 51: 167-171.

### 2013:

Kamp MA, Dibué MAH, Etminan N, Steiger H-J, **Schneider T**, Hänggi D (2013) Evidence for direct impairment of neuronal function by subarachnoid metabolites following SAH. *Acta Neurochirurgica* 155: 255-260

Alt A, Hilgers R-D, Tura A, Nassar K, **Schneider T**, Hüber A, Januschowski K, Grisanti S, Lüke J, Lüke M (2013) The Neuroprotective Potential of Rho-Kinase Inhibitor in Promoting Cell Survival and Reducing Reactive Gliosis in Response to Hypoxia in Isolated Bovine Retina. *Cell Physiol Biochem* 32: 218 - 234.

Dartsch T, Fischer R, Gapelyuk A, Weiergräber M, Ladage D, **Schneider T**, Schirdewan A, Reuter H, Mueller-Ehmsen J, Zobel C (2013) Aldosterone induces electrical remodeling independent of hypertension. *Int J Cardiol* 164: 170-178.

Dibué M, Tevoufouet EE, Neumaier F, Krieger A, Kiel A, Evdokimov D, Galetin T, Alpdogan S, Akthar I, Scharf S, Clemens R, Radhakrishnan K, Hescheler J, **Schneider T**, Kamp MA (2013) Protein interaction partners of Cav2.3 R-type voltage-gated calcium channels. In: *Presynaptic Voltage-gated Calcium Channels* (Stephens GJ, Mochida S, eds; Basel, Switzerland: MDPI), Pharmaceuticals 6: 151-174.

Dibué MAH, Alpdogan S, Tevoufouet EE, Hescheler J, Kamp M, **Schneider T** (2013) Cav2.3 (R-type) Calcium Channels are critical for Mediating Anticonvulsive and Neuroprotective Properties of Lamotrigine and Topiramate in vivo. *Epilepsia* 54: 1542-1550.

Galetin T, Tevoufouet EE, Sandmeyer J, Matthes J, Nguemo F, Hescheler J, Weiergräber M, **Schneider T** (2013) Pharmacoresistant Ca<sub>v</sub>2.3 (E-/R-type) voltage-gated calcium channels influence heart rate dynamics and contribute to cardiac impulse conduction. *Cell Biochemistry & Function* 31: 434 – 449.

**Schneider T**, Dibué M, Hescheler J (2013) How "Pharmacoresistant" is Cav2.3, the Major Component of Voltage-gated R-type Ca<sup>2+</sup> Channels? In: *Calcium Antagonists* (**Schneider T**, Stephens GJ, eds; Basel, Switzerland: MDPI), Pharmaceuticals 6: 759-776.

Rassaei M, Thelen M, Abumuaileq R, Hescheler J, Luke M, **Schneider T** (2013) Effect of high-intensity irradiation from dental photopolymerization on the isolated and superfused vertebrate retina. *Graefes Arch Clin Exp Ophthalmol* 251: 751-762.

Yang L, Topia I, **Schneider T**, Stephens GJ (2013) Phorbol ester modulation of Ca<sup>2+</sup> channels mediate nociceptive transmission in dorsal horn neurones. In: *Calcium Antagonists* (**Schneider T**, Stephens GJ, eds; Basel, Switzerland: MDPI), Pharmaceuticals 6: 777-787.

### 2012:

Kamp MA, Hanggi D, Steiger HJ, **Schneider T** (2012) Diversity of presynaptic calcium channels displaying different synaptic properties. *Rev Neurosci* 23: 179-190.

Kamp MA, Shakeri B, Tevoufouet EE, Krieger A, Henry M, Behnke K, Herzig S, Hescheler J, Radhakrishnan K, Parent L, **Schneider T** (2012) The C-terminus of human Ca(v)2.3 voltage-gated calcium channel interacts with alternatively spliced calmodulin-2 expressed in two human cell lines. *Biochim Biophys Acta* 1824: 1045-1057.

Müller R, Struck H, Ho MS, Brockhaus-Dumke A, Klosterkötter J, Broich K, Hescheler J, **Schneider T**, Weiergräber M (2012) Atropine-sensitive hippocampal theta oscillations are mediated by Ca(v)2.3 R-type Ca(2)(+) channels. *Neuroscience* 205: 125-139.

Lammers C, Dartsch T, Brandt MC, Rottlander D, Halbach M, Peinkofer G, Ockenpoehler S, Weiergräber M, **Schneider T**, Reuter H, Müller-Ehmsen J, Hescheler J, Hoppe UC, Zobel C (2012) Spironolactone prevents aldosterone induced increased duration of atrial fibrillation in rat. *Cell Physiol Biochem* 29: 833-840.

Parajuli LK, Nakajima C, Kulik A, Matsui K, **Schneider T**, Shigemoto R, Fukazawa Y (2012) Quantitative Regional and Ultrastructural Localization of the Cav2.3 Subunit of R-type Calcium Channels in Mouse Brain. *J Neurosci* 32: 13555-13567.

Kamp MA, Dibué MAH, **Schneider T**, Steiger H-J, Hänggi D (2012) Calcium and Potassium Channels in Experimental Subarachnoid Hemorrhage and Transient Global Ischemia. *Stroke Research and Treatment* doi: 10.1155/2012/382146.

Kamp MA, Dibué MAH, Etmnan N, Steiger H-J, **Schneider T**, Hänggi D (2012) Evidence for direct impairment of neuronal function by subarachnoid metabolites following SAH. *Acta Neurochirurgica* DOI 10.1007/s00701-012-1559-y.

## 2011:

Alnawaiseh M, Albanna W, Chen C-C, Campbell KP, Hescheler J, Lüke M, **Schneider T** (2011) Two separate Ni<sup>2+</sup> sensitive voltage-gated Ca<sub>2+</sub> channels modulate transretinal signalling in the isolated murine retina. *Acta Ophthalmologica* 89: e579-e590.

Radhakrishnan K, Krieger A, Maxine Dibué, Hescheler J, **Schneider T** (2011) APLP1 and Rab5A Interact with the II-III loop of the Voltage-gated Ca<sub>2+</sub>-channel Cav2.3 and Modulate its Internalization Differently. *Cellul Physiol Biochem* 28: 603-612.

Radhakrishnan K, Kamp MA, Siapich SA, Hescheler J, Luke M, **Schneider T** (2011) Ca(v)2.3 Ca<sub>2+</sub> Channel Interacts with the G1-subunit of V-ATPase. *Cell Physiol Biochem* 27: 421-432.

Radhakrishnan K, Krieger A, Tevoufouet EE, Bähr M, Hescheler J, **Schneider T** (2011) Interaction of Recombinant and Native Cav2.3 E-/R-type Voltage-gated Ca<sub>2+</sub> Channels with the Molecular Chaperone Hsp70. *J Receptor Ligand Channel Research* 4: 29-40.

Alnawaiseh M, Albanna W, Banat M, Abumuaileq R, Hescheler J, **Schneider T** (2011) Electroretinographic Recordings from the Isolated and Superfused Murine Retina. In: *Electroretinograms* (Belulscic G, ed), pp 175-190. Rijeka: Croatia.

## 2010:

Bourdin B, Marger F, Wall-Lacelle S, **Schneider T**, Klein H, Sauve R, Parent L (2010) Molecular determinants of the CaV{beta}-induced plasma membrane targeting of the CaV1.2 channel. *J Biol Chem* 285: 22853-22863.

Galetin T., Weiergräber M., Hescheler J., **Schneider T**. (2010) Analyzing murine electrocardiogram with PhysioToolkit. *J. Electrocardiol.*, 43: 701-705.

Lee S, Grafweg S, **Schneider T**, Jimenez M, Giacobino JP, Ghanem A, Tiemann K, Bloch W, Müller-Ehmsen J, Schwinger RH, Brixius K (2010) Total beta-adrenoceptor deficiency results in cardiac hypotrophy and negative inotropy. *Physiol Res* 59: 679-689.

Lüke M, Januschowski K, Tura A, Lüke J, Nassar K, Lüke C, **Schneider T**, Szurman P, Grisanti S, Bartz-Schmidt KU (2010) Effects of pegaptanib sodium on retinal function in isolated perfused vertebrate retina. *Curr Eye Res.* 35:248-254.

Radhakrishnan K., Hescheler J., **Schneider T.** (2010) Heat shock proteins and ion channels. Functional interactions and therapeutic consequences. *Curr Pharm. Biotechnol.* 11: 175-179.

Siapich S.A., Wrubel H., Albanna W., Alnawaiseh M., Hescheler J., Weiergräber M., Lüke M., **Schneider T.** (2010) Effect of ZnCl<sub>2</sub> and chelation of zinc ions by N,N-diethyldithiocarbamate (DEDTC) on the ERG b-wave amplitude from the isolated superfused vertebrate retina. *Curr. Eye Res.* 35: 322-334.

Vasudevan A, Ho MS, Weiergräber M, Nischt R, **Schneider T**, Lie A, Smyth N, Köhling R. (2010) Basement membrane protein nidogen-1 shapes hippocampal synaptic plasticity and excitability. *Hippocampus.* 2010 May;20(5):608-20

#### 2009:

Albanna W, Banat M, Albanna N, Alnawaiseh M, Siapich SA, Igelmund P, Weiergräber M, Lüke M, **Schneider T.** (2009) Longer lasting electroretinographic recordings from the isolated and superfused murine retina. *Graefes Arch Clin Exp Ophthalmol.* 247:1339-1352 (Note the animation in the supplement!).

Bartels P, Behnke K, Michels G, Groner F, **Schneider T**, Henry M, Barrett PQ, Kang HW, Lee JH, Wiesen MH, Matthes J, Herzig S (2009) Structural and biophysical determinants of single Ca(V)<sub>3.1</sub> and Ca(V)<sub>3.2</sub> T-type calcium channel inhibition by N(2)O. *Cell Calcium* 46: 293-302.

Hildebrand ME, Isope P, Miyazaki T, Nakaya T, Garcia E, Feltz A, **Schneider T**, Hescheler J, Kano M, Sakimura K, Watanabe M, Dieudonné S, Snutch TP (2009) Functional coupling between mGluR1 and Cav3.1 T-type calcium channels contributes to parallel fiber-induced fast calcium signaling within Purkinje cell dendritic spines. *J Neurosci.* 29:9668-82

Joksovic P.M., Weiergräber M., Lee W.Y., Struck H., **Schneider T.**, Todorovic S.M. (2008) Isoflurane-sensitive presynaptic R-type calcium channels contribute to inhibitory synaptic transmission in the rat thalamus. *J.Neurosci.*, 29: 1434-1445..

Matar Nora, Jin Wei, Wrubel Heiko, Hescheler Jürgen, **Schneider Toni**, Weiergräber, Marco (2009) Zonisamide Block of Cloned Human T-Type Voltage-Gated Calcium Channels. *Epilepsy Research*, 83: 224-234.

Siapich S.A., Banat M., Albanna W., Hescheler J., Lüke M., **Schneider T.** (2009) Antagonists of ionotropic GABA receptors impair the NiCl<sub>2</sub> mediated stimulation of the ERG b-wave amplitude from the isolated superfused vertebrate retina. *Acta Ophthalmol.*, 87: 854-865.

#### 2008:

Salvador-Recatalà, Vicenta, **Schneider, Toni** and Robert M. Greenberg (2008) Atypical properties of a conventional Ca<sub>2+</sub> channel β subunit from the platyhelminth *Schistosoma mansoni*. *BMC Physiol.*, 8: 6.

Matthias Lüke, Kai Januschowski, Julia Beutel, Max Warga, Salvatore Grisanti, Swaantje Peters, **Toni Schneider**, Christoph Lüke, Karl U Bartz-Schmidt, Peter Szurman (2008) The effects of triamcinolone crystals on retinal function in a model of isolated perfused vertebrate retina. *Experimental Eye Res.*, 87, 22-29.

Weiergräber, Marco, Margit Henry, Matthew S.P. Ho, Henrik Struck, Jürgen Hescheler, **Toni Schneider** (2008) Altered Thalamocortical Rhythmicity in Ca<sub>v</sub>2.3-Deficient Mice. *Mol.Cellul.Neurosci.*, 39: 605 - 618.

Weiergräber M., Hescheler J., **Schneider T.** (2008) [Human calcium channelopathies: Voltage-gated Ca<sub>2+</sub> channels in etiology, pathogenesis, and pharmacotherapy of neurologic disorders.] *Nervenarzt* 79: 426-36; German.

Banat M., Lüke M., Siapich S.A., Hescheler J., Weiergräber M., **Schneider T.** (2008) The dihydropyridine isradipine inhibits the murine but not the bovine a-wave response of the electroretinogram. *Acta Ophthalmol.*, 86: 676-82.

#### 2007:

Lüke M., Szurman P., **Schneider T.**, Lüke C. (2007) The effects of the phosphodiesterase type V inhibitor sildenafil on human and bovine retinal function *in vitro*. *Graefes Archive for Clinical and Experimental Ophthalmology*, 245: 1211-1215.

Weiergräber M., Henry M., Radhakrishnan K., Hescheler J., **Schneider T.** (2007) Hippocampal seizure resistance and reduced neuronal excitotoxicity in mice lacking the Cav2.3 E/R-type voltage-gated calcium channel. *J. Neurophysiology*, 97, 3660 - 3669.

Zhang Q., Bengtsson M., Partridge C., Salehi A., Braun M., Cox R., Eliasson L., Johnson P.R., Renström E., **Schneider T.**, Berggren P.-O., Göpel S., Ashcroft F.M., Rorsman P. (2007) R-type Ca<sub>2+</sub>-channel-evoked CICR regulates glucose-induced somatostatin secretion. *Nature Cell Biol.*, 9, 453-60.

Matthias Lüke, Krott Ralf, Warga Max, Szurman Peter, Grisanti Salvatore, Bartz-Schmidt Karl Ulrich, **Schneider Toni**, Lüke Christoph (2007) Effects of the Protein Tyrosine Kinase Inhibitor Genistein and Taurine on Retinal Function in Isolated Superfused Retina. *Graefes Archive for Clinical and Experimental Ophthalmology*, 245, 242 – 248.

Lüke M, Januschowski K, Warga M, Beutel J, Leitritz M, Gelisken F, Grisanti S, **Schneider T**, Lüke C, Bartz-Schmidt KU, Szurman P (2007) The retinal tolerance to bevacizumab in co-application with a recombinant tissue plasminogen activator. *Br J Ophthalmol* 91: 1077-1082.

## 2006:

Andreas Krieger\*, Kayalvizhi Radhakrishnan\*, Alexey Pereverzev\*, Siarhei A. Siapich, Mohammed Banat, Marcel A. Kamp, Jérôme Leroy, Udo Klöckner, Jürgen Hescheler, Marco Weiergräber, **Toni Schneider** (2006) The molecular chaperone hsp70 interacts with the cytosolic II-III loop of the Cav2.3 E-type voltage-gated Ca<sub>2+</sub> channel. *Cell Physiol Biochem*. 17, 97-110; (\* = contributed equally)

Lüke C., Lüke M., Sickel W., **Schneider T.** (2006) Effects of patent blue on human retinal function. *Graefes Archive for Clinical and Experimental Ophthalmology*, 244, 1188 - 90.

Köhling R., Nischt R., Vasudevan A., Ho M., Weiergräber M., **Schneider T.**, Smyth N. (2006) *Neurodegener. Dis.* 3, 56 – 61.

Weiergräber M., Kamp M.A., Radhakrishnan K., Hescheler J., **Schneider T.** (2006) The Cav2.3 voltage-gated Ca<sub>2+</sub> channel in epileptogenesis – Shedding new light on an enigmatic channel. *Neurosci. Biobehav. Rev.*, 30, 1122-1144.

Natrajan R., Little S.E., Reis-Filho J.S., Hing L., Messahel B., Grundy P.E., Dome J.S., **Schneider T.**, Vujanic G.M., Pritchard-Jones K., Jones C. (2006) Amplification and overexpression of CACNA1E correlates with relapse in favorable histology Wilms' tumors. *Clin. Cancer Res.*, 12, 7284 – 93.

Lüke M., Warga M., Ziemssen F., Gelisken F., Grisanti S., **Schneider T.**, Lüke C., Partsch M., Bartz-Schmidt K.U., Szurman P., for the Tuebingen Bevacizumab Study Group (2006) Effects of bevacizumab on retinal function in isolated vertebrate retina. *British Journal of Ophthalmology*, 90, 1178 - 1182

Marco Weiergräber, Margit Henry, Andreas Krieger, Marcel Kamp, Kayalvizhi Radhakrishnan, Jürgen Hescheler, **Toni Schneider** (2006) Altered seizure susceptibility in mice lacking the Cav2.3 E-type Ca<sub>2+</sub> channel. *Epilepsia*. 47, 839-50.

## 2005:

Matthias Lüke , Marco Weiergräber, Carl Brand, Siarhei A. Siapich, Mohammed Banat, Jürgen Hescheler, Christoph Lüke, **Toni Schneider** (2005) The isolated perfused bovine retina - a sensitive tool for pharmacological research on retinal function .*Brain Res Brain Res Protoc.* 16, 27-36.

Matthias Lüke, Christoph Lüke, J. Hescheler, **T. Schneider**, W. Sickel (2005) Effects of Phosphodiesterase Type 5 Inhibitor Sildenafil on Retinal Function in Isolated Superfused Retina. *J. Ocul. Pharmacol. & Ther.*, 21: 305-14

Matthias Lüke, Margit Henry, Thea Lingohr, Mehran Maghsoodan, Jürgen Hescheler , Marco Weiergräber, Werner Sickel , **Toni Schneider** (2005) A Ni<sub>2+</sub>-sensitive component of the ERG-b-wave from the isolated bovine retina is related to E-type voltage-gated Ca<sub>2+</sub> channels. *Graefe Archive for Clinical and Experimental Ophthalmology*, 243: 933-941.

Marco Weiergräber, Margit Henry, Jürgen Hescheler, Neil Smyth & **Toni Schneider** (2005) Electroencephalographic and deep intracerebral EEG recording in mice using a telemetry system. *Brain Res. & Brain Res. Protoc.*, 14: 154-64.

Kamp M.A., Krieger A., Henry M., Hescheler J., Weiergräber M., **Schneider T.** (2005) Presynaptic "Cav2.3 containing" E-type Ca<sub>2+</sub> channels share dual roles during neurotransmitter release. *Eur J Neurosci.* 21:1617-25. Review

Pereverzev A, Salehi A, Mikhna M, Renström E, Hescheler J, Weiergräber M, Smyth N, **Schneider T.** (2005) The ablation of the Cav2.3/E-type voltage-gated Ca<sub>2+</sub> channel causes a mild phenotype despite an altered glucose induced glucagon response in isolated islets of Langerhans. *Eur. J. Pharmacol.* 511, 65-72.

Xingjun Jing, Dai-Qing Li, Charlotta S. Olofsson, Albert Salehi, Vikas V. Surve, José Caballero, Rosita Ivarsson, Ingmar Lundquist, Alexey Pereverzev, **Toni Schneider**, Patrik Rorsman and Erik Renström (2005) Cav2.3 calcium channels control second phase insulin release. *J. Clin. Invest.* 115: 146-154.

Marco Weiergräber, Margit Henry, Michael Südkamp, Ernst-Rainer de Vivie, Jürgen Hescheler, **Toni Schneider** (2005) Ablation of Cav2.3 / E-type voltage-gated calcium channel results in cardiac arrhythmia and altered autonomic control within the murine cardiovascular system. *Basic Res. Cardiol.* 100: 1-13.

#### 2004:

Klößner U., Pereverzev A, Leroy J, Krieger A, Vajna R, Pfitzer G, Hescheler J, Malécot CO, **Schneider T** (2004) The cytosolic II-III loop of Cav2.3 provides an essential determinant for the phorbol ester-mediated stimulation of E-type Ca<sub>2+</sub> channel activity. *Eur. J. Neurosci.*, 19, 2659-2668.

Jahn Holger & **Schneider Toni** (2004) Diabetes mellitus als Komplikation der Behandlung mit atypischen Neuroleptika. Mögliche Pathomechanismen und Therapieempfehlungen. *Der Nervenarzt*, 75, 442-50.

Zhong-Ju Lu, Alexey Pereverzev, Hui-Lin Liu, Marco Weiergräber, Margit Henry, Andreas Krieger, Neil Smyth, Jürgen Hescheler, **Toni Schneider** (2004) Arrhythmia in Isolated Prenatal Hearts after Ablation of the Cav2.3 (a1E) Subunit of Voltage-gated Ca<sub>2+</sub> Channels. *Cellul. Physiol. Biochem.*, 14, 11-22.

#### 2003:

Jérôme Leroy, Alexey Pereverzev, Rolf Vajna, Ning Qin, Gabriele Pfitzer, Jürgen Hescheler, Claire Malécot, **Toni Schneider**, Udo Klößner (2003) A novel Ca<sub>2+</sub>-dependent regulation of neuronal E-type Ca<sub>2+</sub> channels is mediated by an arginine-rich region in the cytosolic II-III linker. *Eur. J. Neurosci.*, 18, 841-855.

Atticus H. Hainsworth, Nicolle C McNaughton, Alexey Pereverzev, **Toni Schneider**, and Andrew D Randall (2003) Actions of sipatrigine, 202W92 and lamotrigine on R-type and T-type Ca<sub>2+</sub> channel currents. *Eur. J. Pharmacol.* 467, 77 – 80.

Dirk Dietrich, Timo Kirschstein, Maria Kukley, Alexej Pereverzev, C. von der Brélie, **Toni Schneider**, Heinz Beck (2003) Functional specialization of presynaptic Cav2.3 Ca<sup>2+</sup> channels. *Neuron*, 39, 483-496

#### 2002:

Pereverzev Alexey, Jérôme Leroy, Claire Malécot, Gabriele Pfitzer, Jürgen Hescheler, Udo Klößner, **Toni Schneider** (2002) Alternate Splicing in the Cytosolic II-III Loop and Carboxy Terminus of the human E-type voltage-gated Ca<sub>2+</sub> channels. - Electrophysiological characterization of isoforms. *Molec. Cellul. Neurosci.* 21:352-65.

Sochivko Dmitry, Alexey Pereverzev, Neil Smyth, Cornelia Gissel, **Toni Schneider**, Heinz Beck (2002) The a1E Ca<sub>2+</sub> channel subunit underlies R-type Ca<sub>2+</sub> currents in hippocampal and cortical pyramidal neurons. *J. Physiol.*, 542, 699-710.

Pereverzev Alexey, Marina Mikhna, Rolf Vajna, Cornelia Gissel, Margit Henry, Marco Weiergräber, Jürgen Hescheler, Neil Smyth, **Toni Schneider** (2002) Disturbances in glucose-tolerance, insulin-release and stress-induced hyperglycemia upon disruption of the Cav2.3 (a1E) subunit of voltage-gated Ca<sub>2+</sub> channels. *Mol. Endocrinol.*, 16, 884-95..

Pereverzev Alexey, Rolf Vajna, Gabriele Pfitzer, Jürgen Hescheler, Udo Klößner, **Toni Schneider** (2002) Reduction of insulin secretion in the insulinoma cell line INS-1 by overexpression of a Ca<sub>2+</sub> channel antisense-a1E cassette. *Eur. J. Endocrinol.*, 146, 881-889.



Michels Guido, Jan Matthes, Renate Handrock, Ute Kuchinke, Ferdi Groner, Leanne L. Cribbs, Alexey Pereverzev, **Toni Schneider**, Edward Perez-Reyes and Stefan Herzig (2002) Single-channel pharmacology of mibefradil in human native T-type and recombinant Cav3.2 calcium channels. *Mol. Pharmacol.*, 61, 682-694.

#### 2001:

Vajna, R., Klöckner, U., Pereverzev, A., Weiergräber, M., Chen, X.-H., Miljanich, G., Klugbauer, N., Hescheler, J., Perez-Reyes, E., **Schneider, T.** (2001) Functional Coupling between 'R-Type' Ca<sup>2+</sup> channels and insulin secretion in the insulinoma cell line INS-1. *Eur. J. Biochem.*, 268, 1066-1075.

#### 2000:

Weiergräber Marco, Alexey Pereverzev, Rolf Vajna, Margit Henry, Martin Schramm, Wolfgang Nastainczyk, Heike Grabsch, **Toni Schneider** (2000) Immunodetection of  $\alpha 1E$  Voltage-gated Ca<sup>2+</sup> Channel in Chromogranin-positive Muscle Cells of Rat Heart, and in Distal Tubules of Human Kidney. *J. Histochem. Cytochem.* 48, 807-819.

#### 1999:

Klöckner, U., Lee, J.-H., Cribbs, L.L., Daud, A., Hescheler, J., Pereverzev, A., Perez-Reyes, E., **Schneider, T.** (1999) Comparison of the Ca<sup>2+</sup> currents induced by expression of three cloned  $\alpha 1$  subunits,  $\alpha 1G$ ,  $\alpha 1H$ , and  $\alpha 1I$  of low-voltage-activated T-type Ca<sup>2+</sup> channels. *Eur. J. Neurosci.* 11, 4171-4178.

Nakashima, Y.M., Pereverzev, A., **Schneider, T.**, Covey, D.F., Lingle, C.J. (1999) Blockade of Ba<sup>2+</sup> current through human  $\alpha 1E$  channels by two steroid analogs, (+)-ACN and (+)-ECN. *Neuropharmacology* 38, 843-855.

Grabsch, H., Pereverzev, A., Weiergräber, M., Schramm, M., Henry, M., Vajna, R., Beattie, R., Volsen, S.G., Klöckner, U., Hescheler, J., **Schneider T.** (1999) Immunohistochemical Detection of  $\alpha 1E$  Voltage-gated Ca<sup>2+</sup> Channel Isoforms in Cerebellum, INS-1 cells, and Neuroendocrine Cells of the Digestive System. *J.Histochem.Cytochem.* 47, 981-994.

Schramm, M., Vajna, R., Pereverzev, A., Tottene A., Tottene, A., Klöckner, U., Pietrobon, D., Hescheler, J., **Schneider, T.** (1999) Isoforms of  $\alpha 1E$  voltage-gated calcium channels in rat cerebellar granule cells. Detection of major calcium channel  $\alpha 1$ -transcripts by reverse transcription-polymerase chain reaction. *Neuroscience* 92, 565-575.

Jung-Ha Lee, Asif N. Daud, Leanne L. Cribbs, Antonio E. Lacerda, Alexei Pereverzev, Udo Klöckner, **Toni Schneider**, and Edward Perez-Reyes (1999) Cloning and expression of a novel member of the low-voltage-activated T-type calcium channel family. *J. Neurosci.*, 19, 1912-1921.

#### 1998:

Nakashima, Y.M., Todorovic, S.M., Pereverzev, A., Hescheler, J., **Schneider, T.**, Lingle, C.J. (1998) Properties of Ba<sup>2+</sup> currents arising from human  $\alpha 1E$  and  $\alpha 1E\beta 3$  constructs expressed in HEK293 cells: physiology, pharmacology, and comparison to native T-type Ba<sup>2+</sup> currents. *Neuropharmacology*, 37, 957-972.

Vajna, R., Schramm, M., Pereverzev, A., Arnhold, S., Grabsch, H., Klöckner, U., Perez-Reyes E., Hescheler, J., **Schneider, T.** (1998) New Isoform of the Neuronal Ca<sup>2+</sup> Channel  $\alpha 1E$  Subunit in Islets of Langerhans and Kidney. Distribution of Voltage-Gated Ca<sup>2+</sup> Channel  $\alpha 1$  Subunits in Cell Lines and Tissues. *Eur. J. Biochem.* 257, 274-285.

Pereverzev, A., Köckner, U., Henry, M., Grabsch, H., Vajna, R., Olyschläger, S., Viatchenko-Karpinski, S., Schröder, R., Hescheler, J., **Schneider T.** (1998) Structural Diversity of Voltage-Dependent Ca<sup>2+</sup> Channel  $\alpha 1E$ -Subunit. *Eur. J. Neurosci.*, 10, 916-925.

#### 1997:

Parent, L., **Schneider, T.**, Moore, C. P., Talwar, D. (1997) Subunit regulation of the human brain  $\alpha 1E$  calcium channel. *J. Membrane Biology*, 160, 127 - 140.

Mehrke, G., Pereverzev, A., Grabsch, H., Hescheler, J., **Schneider T.** (1997) Receptor Mediated Modulation of Recombinant Neuronal Class E Calcium Channels. *FEBS Lett.* 408, 261-270

**Schneider, T.**, Igelmund, P., Hescheler J. (1997) G Protein Interaction with K<sup>+</sup> and Ca<sup>2+</sup> Channels. Trends in Pharmacological Science, 18, 8-11.

#### 1995:

Perez-Reyes, E., **Schneider T.** (1995) The Molecular Biology of Calcium Channels. Kidney International 48, 111-1124.

Wei, X.Y., S. Pan, H. Kim, **T. Schneider**, E. Perez-Reyes & L. Birnbaumer (1995) Multiple subunits are required for the high affinity and allosteric regulation of dihydropyridine binding to the cardiac L-type Ca<sup>2+</sup> channels. J. Biol. Chem. 270, 27106-27111.

**Schneider T.**, Perez-Reyes, E., Nyormoi, O., Wei, X., Crawford, G.D., Smith R.G., Appel, S.H., Birnbaumer, L. (1995). Alpha-1 Subunits of Voltage Gated Ca<sup>2+</sup> Channels in the Mesen-cephalon x Neuroblastoma Hybrid Cell Line MES23.5. Neuroscience 68, 479-485.

Timchenko, L., Nastainczyk, W., **Schneider, T.**, Hofmann, F., Caskey, C.T. (1995) Full-length myotonin protein kinase (72 kDa) displays serine kinase activity. Proc. Natl. Acad. Sci. USA 92, 5366 - 5370

#### 1994:

Olcese, R., Qin, N., **Schneider, T.**, Neely, A., Wei, X., Birnbaumer, L., Stefani, E. (1994) The Amino Terminus of a Calcium Channel  $\beta$  Subunit Sets Rates of channel Inactivation Independently of the Subunit's Effect on Activation. Neuron 13, 1433-1438

Perez-Reyes, E., **Schneider T.** (1994) Ca<sup>2+</sup> channels: Structure, function, and classification. Drug Development Research 33, 295-318

Nyormoi, O., **Schneider, T.**, Smith, R.G. (1994) A large scale preparative gel electrophoresis separation of  $\alpha 1$  and  $\alpha 2$  subunits of the voltage-gated Ca<sup>2+</sup> channel from rabbit skeletal muscle. Electrophoresis, 15, 1183-1190.

**Schneider T.**, X. Wei, Olcese, R., Costantin, J.L., Neely, A., Palade, P., Perez-Reyes, E., Qin, N., Zhou, J., Crawford, G.D., Smith, R.G., Appel, S.H., Stefani, E., Birnbaumer, L. (1994). Molecular analysis and functional expression of the human type E neuronal Ca<sup>2+</sup>-channel  $\alpha 1$  subunit. Receptors and Channels 2, 255 - 270.

Kimura, F., R. G. Smith, O. Delbono, O. Nyormoi, **T. Schneider**, W. Nastainczyk, F. Hofmann, E. Stefani & S. H. Appel (1994) Amyotrophic lateral sclerosis patient antibodies label the Ca<sup>2+</sup> channel  $\alpha 1$  subunit. Ann. Neurol. 35, 164-171.

#### 1992 – 1989:

Smith, R.G., S. Hamilton, F. Hofmann, **T. Schneider**, W. Nastainczyk, L. Birnbaumer, E. Stefani & S. H. Appel (1992) Serum antibodies to L-type calcium channels in patients with amyotrophic lateral sclerosis. N.Engl.J.Med. 327, 1721-1728.

Regulla, S., **T. Schneider**, W. Nastainczyk, H. E. Meyer & F. Hofmann (1991) Identification of the site of interaction of the dihydropyridine channel blockers nitrendipine and azidopine with the calcium- channel  $\alpha 1$  subunit. EMBO J. 10, 45-49.

**Schneider, T.**, S. Regulla & F. Hofmann (1991) The devapamil-binding site of the purified skeletal muscle receptor for organic-calcium channel blockers is modulated by micromolar and millimolar concentrations of Ca<sup>2+</sup>. Eur.J.Biochem. 200, 245-253.

Hofmann, F., V. Flockerzi, W. Nastainczyk, P. Ruth & **T. Schneider** (1990) The molecular structure and regulation of muscular calcium channels. Curr.Top.Cell Regul. 31, 223-239.

Hofmann, F., **T. Schneider**, A. Röhrkasten, W. Nastainczyk, M. Sieber, P. Ruth & V. Flockerzi (1989) Calcium channels: structure and function of receptors for calcium channel blockers in skeletal muscle. Arzneimittelforschung. 39, 164-168.

Hofmann F. & **Schneider T.** (1989) Calcium Channels: Structure and Function of the Skeletal Muscle Calcium Antagonist Receptor. In: Kotyk A. et al. (eds.) Highlights Modern Biochem. 1, 361-368

**1988 – 1984:** Jahn, H., W. Nastainczyk, A. Röhrkasten, **T. Schneider** & F. Hofmann (1988) Site-specific phosphorylation of the purified receptor for calcium-channel blockers by cAMP- and cGMP-dependent protein

kinases, protein kinase C, calmodulin-dependent protein kinase II and casein kinase II. Eur.J.Biochem. 178, 535-542.

Hofmann, F., H. J. Oeken, T. **Schneider** & M. Sieber (1988) The biochemical properties of L-type calcium channels. J.Cardiovasc.Pharmacol. 12 Suppl 1, S25-S30.

**Schneider, T.** & F. Hofmann (1988) The bovine cardiac receptor for calcium channel blockers is a 195-kDa protein. Eur.J.Biochem. 174, 369-375.

Hofmann F., Nastainczyk W., Röhrkasten A., **Schneider T.**, Sieber M. (1987) Regulation of the L-type calcium channel. Trends in Pharmacol. Sci. 8, 393-398

Pönsgen-Schmidt E, **Schneider T**, Hammer U, Betz A (1988) Comparison of Phosphoenolpyruvate-Carboxykinase from Autotrophically and Heterotrophically Grown Euglena and Its Role During Dark Anaerobiosis. Plant Physiology 86: 457-462.

**Schneider T**, Betz A (1985) Waxmonoester fermentation in Euglena gracilis T. Factors favouring the synthesis of odd-numbered fatty acids and alcohols. Planta 166: 67-73.

**Schneider T**, Borkowski C, Betz A (1984) Rotenone sensitive waxmonoester synthesis in anaerobic Euglena Gracilis. Evidence for operation of methylmalonyl-CoA pathway. In: Structure, Function and Metabolism of Plant Lipids (Siegenthaler P-A, Eichenberger W, eds), pp 577-580. United Kingdom: Elsevier Science Ltd.

**Schneider T**, Borkowski C, Betz A (1984) Wax Ester Formation in Euglena Gracilis During Anaerobiosis and Photoheterotrophic Growth. In: Advances in Photosynthesis Research. Proceedings of the VIth International Congress on Photosynthesis, August 1-6, 1983 (Sybesma C, ed), pp III.6.445-III.6.448. The Hague, The Netherlands: Martinus Nijhoff / Dr. W. Junk Publishers.