

## List of Publications Gerhard J. Schütz

1. Th. Schmidt, G.J. Schütz, W. Baumgartner H.J. Gruber, and H. Schindler  
Proc.Natl.Acad.Sci. USA **93**(1996) 2926-2929.  
*Imaging of Single Molecule Diffusion*
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*Characterization of Photophysics and Mobility of Single Molecules in a Fluid Lipid Membrane*
3. Th.Schmidt, G.J.Schütz, H.J.Gruber, and H.Schindler  
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*Local Stoichiometries Determined by Counting Individual Molecules*
4. G.J.Schütz, H.Schindler, and Th.Schmidt  
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*Imaging Single-Molecule Dichroism*
5. G.J.Schütz, H.J.Gruber, H.Schindler, and Th.Schmidt  
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*Fluorophores for Single-Molecule Microscopy*
6. G.J.Schütz, H.Schindler, and Th.Schmidt  
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*Single-Molecule Microscopy on Model Membranes Reveals Anomalous Diffusion*
7. G.J.Schütz, W. Trabesinger and Th.Schmidt  
Biophys.J. **74**(1998) 2223-2226.  
*Direct Observation of Ligand Colocalization on Individual Receptor Molecules*
8. W.Trabesinger, G.J.Schütz, H.J.Gruber, H.Schindler, and Th.Schmidt  
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*Detection of Individual Oligonucleotide Pairing by Single-Molecule Microscopy*
9. R.A.Obermüller, G.J.Schütz, H.J.Gruber, and H.Falk  
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*Concerning regioselective photochemical intermolecular proton transfer from Hypericin*
10. M.Sonnleitner, G.J.Schütz, and Th.Schmidt  
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*Imaging Individual Molecules by Two-photon Excitation*
11. G.S.Harms, M.Sonnleitner, G.J.Schütz, H.J.Gruber, and Th.Schmidt  
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*Single-Molecule Anisotropy Imaging*
12. A.Sonnleitner, G.J.Schütz, and Th.Schmidt  
Biophys.J. **77** (1999) 2638-2642.  
*Free Brownian Motion of Individual Lipid Molecules in Biomembranes*
13. G.J.Schütz, V.Ph.Pastushenko, H.J.Gruber, H.-G.Knaus, B.Pragl, and H.Schindler  
Single Mol. **1** (2000) 25-31.  
*3D Imaging of Individual Ion Channels in Live Cells at 40nm Resolution*
14. G.J.Schütz, G.Kada, V.Ph.Pastushenko, and H.Schindler  
EMBO J. **19** (2000) 892-901.  
*Properties of lipid microdomains in a muscle cell membrane visualized by single molecule microscopy*

15. G.J.Schütz, J.Hesse, G.Freudenthaler, V.Ph.Pastushenko, H.-G.Knaus, B.Pragl, H.Schindler  
Single Mol. **1** (2000) 153-157.  
*3D Mapping of Individual Ion Channels on Living Cells*
16. B.Immitzer, Ch.Etzlstorfer, R.A.Obermüller, M.Sonnleitner, G.J.Schütz, H.Falk  
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*On the Photochemical Proton Expulsion Capability of Fringelite D – a Model of the Protist Photosensory Pigments of the Stentorin and Blepharismis Types*
17. W.Trabesinger, B.Hecht, U.P.Wild, G.J.Schütz, H.Schindler, and Th.Schmidt  
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*Statistical Analysis of Single-Molecule Colocalization Assays*
18. A.Pfeiffer, M.Kapinsky, E.Orsó, G.J.Schütz, H.Schindler, P.Nagy, G.Rothe, J.Szöllösi, S.Damjanovich, and G.Schmitz  
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*The Cholesterol Content of the Plasma Membrane as a Regulator of CD14 Dependent Signal Transduction*
19. A.Pfeiffer, A.Böttcher, E.Orsó, M.Kapinsky, P.Nagy, A.Bodnár, I.Spreitzer, G.Liebisch, W.Drobnik, K.Gempel, M.Horn, S.Holmer, T.Hartung, G.Multhoff, G.J.Schütz, H.Schindler, A.J.Ulmer, H.Heine, F.Stelter, C.Schütt, G.Rothe, J.Szöllösi, S.Damjanovich and G.Schmitz  
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*Synthesis, characterization and application of Cy-dye- and Alexa-dye-labeled hongotoxin<sub>1</sub> analogues – the first high affinity fluorescence probes for voltage-gated  $K^+$  channels*
22. Wolfgang Drobnik, Hana Borsukova, Alfred Böttcher, Alexandra Pfeiffer, Gerhard Liebisch, Gerhard J. Schütz, Hansgeorg Schindler, Gerd Schmitz  
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23. Manuel Mörtelmaier, Eva J. Kögler, Jan Hesse, Max Sonnleitner, Lukas A. Huber, Gerhard J. Schütz  
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*Single Molecule Microscopy in Living Cells: Subtraction of Autofluorescence Based on Two Color Recording*
24. V. Borisenko, T. Loughheed, J. Hesse, E. Füreder-Kitzmüller, N. Fertig, J. Behrends, A. Woolley, G.J. Schütz  
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*Simultaneous Optical and Electrical Recording of Single Gramicidin Channels*
25. W.Baumgartner, G.J.Schütz, J.Wiegand, N.Golenhofen, D.Drenkhahn  
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*Association of Stomatin with Lipid Bodies*
  29. S.Rhode, A.Breuer, J.Hesse, M.Sonnleitner, T.A.Pagler, M.Doring, G.J.Schütz, H.Stangl  
*Cell Biochem.Biophys.* **41** (2004) 343-356.  
*Visualization of the uptake of individual HDL particles in living cells via the scavenger receptor class B type I*
  30. J.Hesse, M.Sonnleitner, A.Sonnleitner, G.Freudenthaler, J.Jacak, O.Höglinger, H.Schindler, G.J.Schütz  
*Anal.Chem.* **76** (2004) 5960-5964.  
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*Chem.Phys.Lett.* **404** (2005) 13-18.  
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  32. J.Jacak, J.Hesse, C.Hesch, M.Kasper, F.Aberger, A.Frischauf, M.Sonnleitner, G.Freudenthaler, S.Howorka, G.J.Schütz  
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  33. M.Sonnleitner, G.Freudenthaler, J.Hesse, G.J.Schütz  
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*Appl. Phys. Lett.* **87** (2005) 263903.  
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  35. T.A.Pagler, S.Rhode, A.Neuhofer, H.Laggner, W.Strobl, C.Hinterdorfer, I.Volf, M.Pavelka, E.R.M.Eckhardt, D.van der Westenhuyzen, G.J.Schütz, H.Stangl  
*J. Biol. Chem.* **281** (2006) 11193-11204.  
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*Ultramicroscopy* **106** (2006) 645-651.  
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  37. J.Hesse, J.Jacak, M.Kasper, G.Regl, T.Eichberger, M.Winklmayr, F.Aberger, M.Sonnleitner, R.Schlapak, S.Howorka, L.Muresan, A.-M.Frischauf, G.J.Schütz

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40. Karel Drbal, Manuel Moertelmaier, Christa Holzhauser, Arshad Muhammad, Elke Fürtbauer, Stefan Howorka, Maria Hinterberger, Hannes Stockinger, Gerhard J. Schütz  
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47. S. Wieser, M. Axmann, Gerhard J. Schütz  
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66. M. C. Aichinger, M. Ginzler, J. Weghuber, L. Zimmermann, K. Riedl, G. J. Schütz, E. Nagy, A. von Gabain, R. J. Schweyen, T. Henics  
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67. R. Schmidt, J. Jacak, C. Schirwitz, V. Stadler, G. Michel, N. Marmé, G. J. Schütz, J. Hoheisel, J. P. Knemeyer  
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*Single-molecule detection on a protein-array assay platform for the exposure of a tuberculosis antigen*
68. Verena Ruprecht, Stefan Wieser, Didier Marguet, Gerhard J. Schütz  
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69. Julian Weghuber, Michael C. Aichinger, Mario Brameshuber, Stefan Wieser, Verena Ruprecht, Birgit Plochberger, Josef Madl, Andreas Horner, Siegfried Reipert, Karl Lohner, Tamás Henics, Gerhard J. Schütz  
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71. R. A. Alexander, G. W. Prager, J. Mihaly-Bison, P. Uhrin, S. Sunzenauer, B. R. Binder, G. J. Schütz, M. Freissmuth, J.M. Breuss  
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## Invited Reviews

72. G.J.Schütz, M.Sonnleitner, P.Hinterdorfer, and H.Schindler  
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*Single Molecule Microscopy of Biomembranes (Review)*
73. G.J.Schütz, M.Sonnleitner, and H.Schindler  
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*Ultra-sensitive Microscopy of the Plasma Membrane of Living Cells*
74. G.J.Schütz, M.Axmman, and H.Schindler  
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*Imaging Single Molecules in Three Dimensions*
75. P.Hinterdorfer, G.J.Schütz, F.Kienberger, H.Schindler  
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78. Jan Hesse, Max Sonnleitner, Gerhard J. Schütz  
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*Ultra-sensitive Fluorescence Reader for Bioanalysis*
79. Andreas Ebner, Josef Madl, Ferry Kienberger, Lilia A. Chtcheglova, Theeraporn Puntheeranurak, Rong Zhu, Jilin Tang, Hermann J. Gruber, Gerhard J. Schütz, Peter Hinterdorfer  
Current Nanoscience **3** (2007) 49-56.  
*Single Molecule Force Microscopy on Cells and Biological Membranes*
80. Jan Hesse, Gerhard J. Schütz  
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*Single Molecule Bioanalysis*
81. Gerhard J. Schütz, Jan Hesse  
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*Hochempfindliche PCR-freie Genexpressionsanalyse einzelner cDNAs*
82. Mario Brameshuber, Gerhard J. Schütz  
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*How the sum of its parts gets greater than the whole (News & Views)*

83. Stefan Wieser & Gerhard J. Schütz  
*Methods* **46** (2008) 131-140.  
*Tracking Single Molecules in the Live Cell Plasma Membrane – Do's and Don't's*
84. Julian Weghuber, Mario Brameshuber, Stefan Sunzenauer, Manuela Lehner, Christian Paar, Thomas Haselgrübler, Michaela Schwarzenbacher, Martin Kaltenbrunner, Clemens Hesch, Wolfgang Paster, Bettina Heise, Alois Sonnleitner, Hannes Stockinger & Gerhard J. Schütz  
*Methods Enzymol.* **472** (2010) 133-151.  
*Detection of protein-protein interactions in the live cell plasma membrane by quantifying prey redistribution upon bait micropatterning*
85. Verena Ruprecht, Julian Weghuber, Stefan Wieser, Gerhard J. Schütz  
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*Measuring Colocalization by Dual Color Single Molecule Imaging: Thresholds, Error Rates, and Sensitivity*
86. Verena Ruprecht, Markus Axmann, Stefan Wieser, Gerhard J. Schütz  
*Curr. Prot. Pept. Sci.*, **12** (2011) 714-724.  
*What can we learn from single molecule trajectories?*
87. Mario Brameshuber, Gerhard J. Schütz  
*Methods Enzymol.* **505** (2012) 159-186.  
*Detection and Quantification of Biomolecular Association in Living Cells using Single Molecule Microscopy*
88. Isabella Derler, Josef Madl, Gerhard J. Schütz, Christoph Romanin  
*Adv. Exp. Med. Biol.* **740** (2012) 383-410.  
*Structure, regulation and biophysics of I<sub>CRAC</sub>, STIM/Orai1*

## Book Articles

89. C.K.Riener, G.Kada, C.Borken, F.Kienberger, P.Hinterdorfer, H.Schindler, G.J.Schütz, Th.Schmidt, C.D.Hahn, H.J.Gruber  
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*Bioconjugation for Biospecific Detection of Single Molecules in Atomic Force Microscopy (AFM) and in Single Dye Tracing.*
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*Recent Research Developments in Bioconjugate Chemistry*, **1** (2002) 83-94.  
*Fluorescently-labeled K<sup>+</sup> channel toxins - tools to study K<sup>+</sup> channels in native tissues.*
91. G.J.Schütz, H.Schindler  
*Single Molecule Detection in Solution*, Ch. Zander, J.Enderlein, R.A.Keller (eds.), Wiley-VCH 2002  
*Single Dye Tracing for Ultrasensitive Microscopy on Living Cells*
92. Manuel Moertelmaier, Markus Axmann, Alois Sonnleitner, Werner Trabesinger, Hermann Gruber, Greg Harms, Andrew Woolley, Thomas Schmidt, Gerhard J. Schütz  
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