

List of publications

- “Coupling of a Microfluidic Mixer to a Fourier-transform Infrared Spectrometer for Protein-Conformation Studies”
D. Prim, S. Crelier, and J.-M. Segura
Chimia **65** (2011) 815
- “Acetylcholine Receptor Organization in Membrane Domains in Muscle Cells: EVIDENCE FOR RAPSYN-INDEPENDENT AND RAPSYN-DEPENDENT MECHANISMS”
J. Piguët, C. Schreiter, J.-M. Segura, H. Vogel, and R. Hovius
J. Biol. Chem. **286** (2011) 363
- “Increased Mobility of Major Histocompatibility Complex I-Peptide Complexes Decreases the Sensitivity of Antigen Recognition”
J. - M. Segura, P. Guillaume, S. Mark, D. Dojcinovic, A. Johannsen, G. Bosshard, G. Angelov, D.F. Legler, H. Vogel, and I. F. Luescher
J. Biol. Chem. **283** (2008) 24254
- “Fluorescence-emission spectroscopy of individual LH2 and LH3 complexes”
W.P.F. de Ruijter, J.-M. Segura, R.J. Cogdell, A.T. Gardiner, S. Oellerich, and T.J. Aartsma
Chemical Physics **341** (2007) 320
- “Repetitive Reversible Labeling of Proteins at Polyhistidine Sequences for Single-Molecule Imaging in Live Cells”
E. G. Guignet*, J.-M. Segura*, R. Hovius, and H. Vogel
Chemphyschem **8** (2007) 1221 (* contributed equally)
- “Monitoring the Diffusion of Single Heterotrimeric G Proteins in Supported Cell-membrane Sheets Reveals their Partitioning into Microdomains”
J.-B. Perez*, J.-M. Segura*, D. Abankwa, J. Piguët, K.L. Martinez, and H. Vogel
J. Mol. Biol. **363** (2006) 918 (* contributed equally)
- “Visualizing odorant receptor trafficking in living cells down to the single-molecule level”
V. Jacquier, M. Prummer, J.-M. Segura, H. Pick, and H. Vogel
Proc. Natl. Acad. Sci. USA **103** (2006) 14325
- “Posttranslational covalent labeling reveals heterogeneous mobility of individual G-protein coupled receptors in living cells”
M. Prummer, B.H. Meyer, R. Francini, J.-M. Segura, N. Georges, K. Johnsson, and H. Vogel
Chembiochem **7** (2006) 908
- “Covalent labeling of cell surface proteins for in-vivo FRET studies”
B.H. Meyer, K.L. Martinez, J.-M. Segura, R. Hovius, N. Georges, K. Johnsson, and H. Vogel
FEBS Lett. **580** (2006) 1654
- “FRET imaging reveals that functional neurokinin-1 receptors are monomeric and reside in membrane microdomains of live cells”
B.H. Meyer*, J.-M. Segura*, K.L. Martinez, R. Hovius, N. Georges, K. Johnsson, and H. Vogel
Proc. Natl. Acad. Sci USA **103** (2006) 2138 (* contributed equally)
- “Supported Cell-Membrane Sheets for Functional Fluorescence Imaging of Membrane Proteins”
J.-B. Perez, K.L. Martinez, J.-M. Segura, and H. Vogel
Adv. Funct. Mater. **16** (2006) 306
- “Probing the Electronic Structure and Conformational Flexibility of Individual Light-Harvesting 3 Complexes by Optical Single-Molecule Spectroscopy”

- M. Ketelaars*, J.-M. Segura*, S. Oellerich, W.P.F. de Ruijter, G. Magis, M. Matsushita, R.J. Cogdell, J. Köhler, J. Schmidt, and T.J. Aartsma
J. Phys. Chem. B **110** (2006) 18710 (* contributed equally)
- “Reversible Sequential-Binding Assays Probe Receptor-Ligand Interactions in Single Cells”
 Ch. Schreiter, M. Gjoni, R. Hovius, K.L. Martinez, J.-M. Segura, and H. Vogel
Chembiochem **6** (2005) 2187
 - “Synthesis of Nanoscopic Optical Fibers Using Lipid Membranes as Templates”
 G. Gopalakrishnan, J.-M. Segura, D. Stamou, C. Gaillard, M. Gjoni, R. Hovius, K.J. Schenk, P.A. Stadelmann, and H. Vogel
Angew. Chem. Int. Ed. **44** (2005) 4957 (Cover Page)
 - “CD8+ Cytotoxic T Lymphocyte Activation by Soluble Major Histocompatibility Complex - Peptide Dimers”
 M. Cebecauer, P. Guillaume, S. Mark, O. Michielin, N. Boucheron, M. Bezard, B.H. Meyer, J.-M. Segura, H. Vogel, and I.F. Luescher
J. Biol. Chem. **280** (2005) 23820
 - “Highly Fluorescent Streptavidin-coated CdSe Nanoparticles: Preparation in Water, Characterization, Micropatterning”
 M. Bäuml, D. Stamou*, J.-M. Segura*, R. Hovius*, and H. Vogel
Langmuir **20** (2004) 3828 (* contributed equally)
 - “Observation of the Energy Level Structure of the Low Light Adapted B800 LH4 Complex by Single Molecule Spectroscopy”
 W.P.F. de Ruijter, S. Oellerich, J.-M. Segura, A.M. Lawless, M. Papiz, and T.J. Aartsma
Biophys. J. **87** (2004) 3413
 - “A cryogenic scanning near-field optical microscope with shear-force gapwidth control”
 A. Kramer, J.-M. Segura, A. Hunkeler, A. Renn, and B. Hecht
Rev. Sci. Instrum. **73** (2002) 2937
 - “Photon statistics in single-molecule fluorescence at room temperature”
 L. Fleury, J.-M. Segura, G. Zumofen, B. Hecht, and U.P. Wild
J. Lumin. **94** (2001) 805
 - “Tip-induced spectral dynamics of single molecules”
J.-M. Segura, G. Zumofen, A. Renn, B. Hecht, and U.P. Wild
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 - “Optical microscopy of single ions and morphological inhomogeneities in Sm-doped CaF₂ thin films”
 R. Rodrigues-Herzog, F. Trotta, H. Bill, J.-M. Segura, B. Hecht, and H.-J. Güntherodt
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 - “A sample-scanning confocal optical microscope for cryogenic operation”
J.-M. Segura, A. Renn, and B. Hecht
Rev. Sci. Instrum. **71** (2000) 1706
 - “Nonclassical Photon Statistics in Single-Molecule Fluorescence at Room Temperature”
 L. Fleury, J.-M. Segura, G. Zumofen, B. Hecht, and U.P. Wild
Phys. Rev. Lett. **84** (2000) 1148
 - “Optical Microscopy in the Nano-World”
 D. W. Pohl et al.
Chimia **51** (1997) 760