

Publications

Reviewed papers

S. Kraatz, P. Guichard, J.M. Obbineni, N. Olieric, G.N. Hatzopoulos, M. Hilbert, I. Sen, J. Missimer, P. Gönczy, M.O. Steinmetz, “The Human Centriolar Protein CEP135 Contains a Two-Stranded Coiled-Coil Domain Critical for Microtubule Binding”.
Structure (2016) 24(8):1358-1371. doi:10.1016/j.str.2016.06.011

S. Bianchi, W.E. van Riel, S.H.W. Kraatz, N. Olieric, D. Frey, E.A. Katrukha, R. Jaussi, J. Missimer, I. Grigoriev, V. Olieric, R.M. Benoit, M.O. Steinmetz, A. Akhmanova, R.A. Kammerer, “Structural basis for misregulation of kinesin KIF21A autoinhibition by CFEOM1 disease mutations”.
Scientific Reports (2016) 6:30668. doi:10.1038/srep306680

E. Abela, J. Missimer, A. Federspiel , A. Seiler, C. Hess, M. Sturzenegger, R. Wiest and B. J. Weder, “A thalamic-fronto-parietal structural covariance network emerging in the course of recovery from hand paresis after ischemic stroke”.
Frontiers in Neurology (2015) doi:10.3389/fneur.2015.00211

S. Manni, K. Kisko, T. Schleier, J. Missimer, K. Ballmer-Hofer, “ Functional and structural characterization of the kinase insert and the carboxy terminal domain in VEGF receptor 2 activation”.
FASEB J (2014) 28(11):4914-4923.

R. Wiest, E. Abela, J. Missimer, G. Schroth, C. Hess, M. Sturzenegger, D.J.J. Wang, B. J. Weder, A. Federspiel, ”Interhemispheric cerebral blood flow balance during recovery of motor hand function after ischemic stroke – a longitudinal MRI study using arterial spin labeling perfusion”.
PLoS ONE (2014) 9(9):e106327

E. Abela, A. Seiler, J. Missimer, A. Federspiel, C. Hess, M. Sturzenegger, B. J. Weder, R. Wiest, ”Grey matter volumetric changes related to recovery from hand paresis after cortical sensorimotor stroke.”
Brain Struct Function (2014) doi:10.1007/s00429-014-0804-y

J. H. Missimer, M. O. Steinmetz, W. F. van Gunsteren, and J. Dolenc, “Influence of 63Ser phosphorylation and dephosphorylation on the structure of the stathmin helical nucleation sequence: A molecular dynamics study.”
Biochemistry (2012). doi: 10.1021/bi300885y

J. R. Allison, S. Hertig, J. H. Missimer, L. J. Smith, M. O. Steinmetz, and J. Dolenc, “Probing the structure and dynamics of proteins by combining molecular dynamics simulations and experimental NMR data.”
J. of Chem. Theory and Comput. (2012). doi: 10.1021/ct300393b

E. Abela, J. Missimer, R. Wiest, A. Federspiel, C. Hess, M. Sturzenegger, B. Weder, ”Lesions to primary sensory and posterior parietal cortices impair recovery from hand paresis after stroke.”

PLoS ONE (2012) 7(2): e31275. doi:10.1371/journal.pone.0031275

R.M. Buey, R. Mohan, K. Leslie, T. Walzthoeni, J.H. Missimer, A. Menzel, S. Bjelić, K. Bargsten, I. Grigoriev, I. Smal, E. Meijering, R. Aebersold, A. Akhmanova and M.O. Steinmetz, "Insights into EB structure and the role of its C-terminal domain in discriminating microtubule tips from lattice." Mol. Biol. Cell (2011) 22:2912-2923.

K. Kisko, M. S. Brozzo, J. H. Missimer, T. Schleier, A. Menzel, V.-M. Leppänen, K. Alitalo, T. Walzthoeni, R. Aebersold, K. Ballmer-Hofer, "Structural analysis of vascular endothelial growth factor receptor-2/ligand complexes by small-angle X-ray solution scattering."

FASEB J (2011) 25:2980-2986.

G. Kägi, J. H. Missimer, E. Abela , R. J. Seitz and B. J. Weder, "Neural networks engaged in tactile object manipulation: patterns of expression among healthy individuals."

Behavioral and Brain Functions (2010) 6:71.

J. H. Missimer J. Dolenc, M. O. Steinmetz, and W. F. van Gunsteren, "Exploring the trigger sequence of the GCN4 coiled-coil: Biased molecular dynamics resolves apparent inconsistencies in NMR measurements."

Protein Science (2010) 19:2462-2474

J. Dolenc , J. H. Missimer, M. O. Steinmetz and W. F. van Gunsteren. "Methods of NMR structure refinement: molecular dynamics simulations improve the agreement with measured NMR data of a C-terminal peptide of GCN4-p1."

J Biomol NMR (2010) 47:221–235

J. H. Missimer, R. J. Seitz, R. Kleiser. "Data-driven analyses of an fMRI study of a subject experiencing phosphenes".

Journal of Magnetic Resonance Imaging (2010) 31:821–828

J. Dolenc , R. Baron, J. H. Missimer, M. O. Steinmetz and W. F. van Gunsteren. "Exploring the hydration of a coiled-coil trimerization motif: A MD simulation study". ChemBioChem (2008) 9(11):1749-56.

J. Nomi, D. Scherfeld, S. Friederichs, R. Schäfer, F. M ., H.-J. Wittsack, N. P. Azari, J.H. Missimer, R. J. Seitz. "On the neural networks of empathy: A principal component analysis of an fMRI study". Behavioral and Brain Functions (2008) 4:41 doi:10.1186/1744-9081-4-41

S. Hartmann, J.H. Missimer, C. Stoeckel, E. Abela, J. Shah, R. J. Seitz, B. Weder. "Functional Connectivity in Tactile Object Discrimination - A Principal Component Analysis of an Event Related fMRI-Study". PLoS ONE (2008) 3(12): e3831 doi:10.1371/journal.pone.0003831.

M.O. Steinmetz, I. Jelesarov, W.M. Matousek, S. Honnappa, W. Jahnke, J.H. Missimer, S. Frank, A.T. Alexandrescu, and R.A. Kammerer. "Molecular basis of coiled-coil formation". PNAS (2007) 104:7062–7067.

J.H. Missimer, M.O. Steinmetz, R. Baron, F.K. Winkler, R.A. Kammerer, X. Daura, and W.F. van Gunsteren. "Configurational entropy elucidates the role of salt-bridge networks in protein thermostability". *Protein Science* (2007) 16: 1349 - 1359.

B. Weder, K. Schindler, T. Loher, R. Wiest, M. Wissmeyer, P. Ritter, K. Lovblad, F. Donati, J. Missimer. "Brain areas involved and interacting during mesial temporal lobe seizures. A covariance analysis of ictal SPECT data". *Human Brain Mapping*, 27 (2006) 520-534.

J.H. Missimer, M.O. Steinmetz, F.K. Winkler, W.F. van Gunsteren, and X. Daura. "Molecular dynamic simulations of monomeric 16-residue C- and N-terminal GCN4p peptides in aqueous solution". *Chemistry and Biodiversity*, 2 (2005) 1086-1104.

N.P. Azari, J. Missimer, R. Seitz. "Religious Experience and Emotion: Evidence for distinctive cognitive neural patterns". *International J of the Psychology of Religion*, Volume 15 (2005) 263-281.

M. Honer, M. Bruehlmeier, J. Missimer, P.A. Schubiger, S. Ametamey. "Dynamic Imaging of Striatal D2 Receptors in Mice Using Ultra-High Resolution PET", *J Nucl Med* 45 (2004) 464-470.

J. Missimer, Z. Madi, M. Honer, C. Keller, P. A. Schubiger, S-M. Ametamey. "Performance evaluation of the 16-module quad-HIDAC small animal PET camera". *J of Physics in Medicine and Biology* 49 (2004) 1-13.

M. Bruehlmeier, U. Roelcke, P. Bläuenstein, J. Missimer, P. A. Schubiger, J.T. Locher, R. Pellikka, S. Ametamey. "Measurement of the extracellular space in brain tumors using ⁷⁶Br-bromide and PET". *J Nucl Med*. 44 (2003) 1210-1218 .

C. Martin-Sölc, J. Missimer, K.L .Leenders, W. Schultz. "Neural activity related to the processing of increasing monetary reward in smokers and nonsmokers". *Eur J Neurosci*. 18 (2003) 680-688 .

I. Novak-Hofer, M. Honer, S. Ametamey, J. Grunberg, J. Missimer, K. Zimmermann, P.A. Schubiger. "Imaging of renal carcinoma xenografts with ⁶⁴Cu-labelled anti-L1-CAM antibody chCE7". *Eur J Nucl Med Mol Imaging*. 30 (2003) 1066 .

U. Roelcke, O. Hausmann, A. Merlo, J. Missimer, R.P. Maguire, P. Freitag, E.W. Radü, R. Weinreich, O. Gratzl, K.L. Leenders. "PET Imaging Drug Distribution After Intratumoral Injection: The Case for [¹²⁴I]-Iododeoxyuridine in Malignant Gliomas". *J Nucl Med*; 43 (2002) 1444-1451.

A.F. Rodriguez, W.E. Blass , J. Missimer, K.L. Leenders. "Artificial neural network radon inversion for image reconstruction". *Med. Phys.* 28 (2001) 508-514.

Bruehlmeier M, Roelcke U, Blaeuenstein P, Missimer J, Schubiger PA, Locher JT, Pellikka R, Ametamey S. "Measurement of the extracellular space in brain tumors by ⁷⁶Br-bromide PET". *Eur J of Nuclear Medicine* 28 (2001) S999.

- C. Martin-Söлch, S. Magyar, G. Künig, J. Missimer, K.L. Leenders, W. Schultz. "Changes in brain activation associated with reward in nonsmokers and smokers: A PET study". *Exp. Brain Res.* 139 (2001) 278-286.
- C. Martin-Söлch, A.-F. Chevalley, G. Künig, J. Missimer, S. Magyar, A. Mino, W. Schultz, K.L. Leenders. "Changes in reward-induced brain activation in opiate addicts". *Eur. J. Neurosci.* 14 (2001) 1-10.
- C. Martin-Söлch, K.L. Leenders, A.-F. Chevalley , J. Missimer, G. Künig, S. Magyar, A. Mino, W. Schultz. "Reward mechanisms in the brain and their role in dependence: Evidence from neurophysiological and neuroimaging studies". *Brain Res. Rev.* 36 (2001) 139-49.
- C. Martin-Söлch, K.L. Leenders, J. Missimer, G. Künig, S. Magyar, W. Schultz. "Sex and age differences in rCBF changes associated with reward processing". *Neuroimage* 13 (2001) S566.
- A. Feigin, K.L. Leenders, J.R. Moeller, J. Missimer, G. Künig, P. Spetsieris, A. Antonini, D. Eidelberg. "Metabolic Network Abnormalities in Early Huntington's Disease: An [¹⁸F]FDG PET Study". *J Nucl Med.* 42 (2001) 1591-1595.
- R.G. Blasberg, U. Roelcke, R. Weinreich, B. Beattie, K. von Ammon, Y. Yonekawa , H. Landolt, I. Guenther, N.E. Crompton, P. Vontobel, J. Missimer, R.P. Maguire, J. Koziorowski, E.J. Knust, R.D. Finn, K.L. Leenders. "Imaging brain tumor proliferative activity with [¹²⁴I]iododeoxyuridine". *Cancer Res.* 60 (2000) 624-635.
- G. Künig , K.L. Leenders , C. Martin-Söлch, J. Missimer, S. Magyar, W. Schultz. "Reduced reward processing in the brains of Parkinsonian patients". *Neuroreport.* 11 (2000) 3681-3687.
- F. X. Vollenweider, D. Bachle, K. L. Leenders, J. H. Missimer, and D. Hell. "5-HT₂ receptor activation: A common denominator of the NMDA antagonist and 5-HT_{2A} agonist models of psychosis? *Biological Psychiatry* 47 (2000) 129S-130S.
- J. H. Missimer, U. Knorr, R. P. Maguire, G. Schlaug, H. Herzog, L. Tellmann, R.J. Seitz, and K. L. Leenders: "Comparison of Two Methods of Statistical Image Analysis". *Human Brain Mapping* 8 (1999) 245-258.
- J.R. Moeller, T. Nakamura, M.J. Mentis, V. Dhawan, A. Antonini, J.H. Missimer, K.L. Leenders, D. Eidelberg. "Reproducibility of Regional Metabolic Covariance Patterns: Comparison of Four Populations". *Journal of Nuclear Medicine* 40 (1999) 1264-1269.
- K. Kirch, D. Abbott, B. Bach, P. Hauser, P. Indelicato, F. Kottmann, J. Missimer, P. Patte, R.T. Siegel, D. Viel, L.M. Simons. "Muonic cascades in isolated low Z atoms and molecules". *Phy. Rev. A* 59 (1999) 3375-3385.
- J. Pinkert, I. Gerdzen, R. Fötzsch, L. Oehme, J. Missimer, B. Ripke, N. Galley, and W.-G. Franke. "Pathologic macro square wave jerks in spasmodic torticollis - a SPECT study with ^{99m}Tc-ECD". *J of Nuclear Medicine* 40 (1999) 66P.

M. Bruehlmeier, V. Dietz, K.L. Leenders, U. Roelcke, J. Missimer and A. Curt. "How does the human brain deal with a spinal cord injury?". Euro. J. of Neuroscience 10 (1998) 3918-3922.

M. Bruehlmeier, K.L. Leenders, A. Curt, J. Missimer, V. Dietz, and U. Roelcke. "Pathological brain activation in paraplegic and tetraplegic patients following spinal cord injury". Neurology 50 (1998) A305.

J.R. Moeller, J.H. Missimer, A. Antonini, K.L. Leenders, D. Eidelberg. "Reproducibility of Regional Metabolic Covariance Patterns: Comparison of Four Populations". Neurology 50 (1998) A391.

A. Otte, U. Roelcke, K. von Ammon, O. Hausmann, R. P. Maguire, J. H. Missimer, J. Müller-Brand, E.W. Radü, K. L. Leenders: "Crossed cerebellar diaschisis and brain tumor biochemistry studied with positron emission tomography, 18F-fluorodeoxyglucose and 11C-methionine." J Neurol. Sci. 156 (1998) 73-77.

G. Thut, W. Schultz, U. Roelcke, M. Nienshusmeier, J. H. Missimer, R. P. Maguire and K. L. Leenders: "Activation of the human brain by monetary reward ". NeuroReport 8 (1997) 1225-1228.

A. Antonini, K. L. Leenders, P. Vontobel, R. P. Maguire, J. H. Missimer, M. Psylla, and I. Günther. "Complementary PET studies of striatal neuronal function in the differential diagnosis between multiple system atrophy and Parkinson's disease". Brain 120 (1997) 2187-2195.

N. Kahn, K. L. Leenders, M. Hajek, P. Maguire, J. Missimer, and H. G. Wieser. "Thalamic glucose metabolism in temporal lobe epilepsy measured with 18F-FDG positron emission tomography (PET)". Epilepsy Research 28 (1997) 233-243.

K. Kirch, P. DeCecco, P. Hauser, D. Horváth, J. H. Missimer, L.M. Simons, D. Abbott, B. Bach, R.T. Siegel, D. Viel, F. Kottmann. "Metastability of the muonic boron 2S state". Phys. Rev. Letters 78 (1997) 4363-4366.

S. Magyar-Lehmann, A. Antonini, U. Roelcke, R. P. Maguire, J. H. Missimer, M. Meier, K. L. Leenders. "Cerebral glucose metabolism in patients with spasmodic torticollis". Movement Disorders 12 (1997) 704-708.

U. Roelcke, A. Curt, A. Otte, J. H. Missimer, R. P. Maguire, V. Dietz, K. L. Leenders. "Influence of spinal cord injury on cerebral sensorimotor systems. A PET study". J of Neurology, Neurosurgery, and Psychiatry 62 (1997) 61-65.

U. Roelcke, L. Kappos, J. Lechner-Scott, H. Brunnenschweiler, S. Huber, W. Ammann, A. Plohmann, S. Dellas, R. P. Maguire, J. H. Missimer, E.W. Radü, A. Steck, K. L. Leenders. "Reduced glucose metabolism in the frontal cortex and basal ganglia of multiple sclerosis patients with fatigue. A 18F-fluorodeoxyglucose positron emission tomography study". J of Neurology 48 (1997) 1566-1571.

G. Thut, U. Halsband, U. Roelcke, M. Nienshusmeier, J. H. Missimer, R. P. Maguire, M. Regard, T. Landis and K. L. Leenders. "Intermanual transfer of training: blood

flow correlates in the human brain". Behavioral Brain Research 89 (1997) 129-134.

F. X. Vollenweider, K. L. Leenders, C. Scharfetter, A. Antonini, R. P. Maguire, J. H. Missimer, and J. Angst. "Metabolic hyperfrontality and psychopathology in the ketamine model of psychosis using positron emission tomography (PET) and [F-18]-Fluorodeoxyglucose (FDG)". European Neuropsychopharmacology 7 (1997) 9-24.

R. P. Maguire, J. H. Missimer, F. Emert, D. Townsend, H. Dollinger, and K. L. Leenders. "Positron emission tomography of large rock samples using a multiring PET instrument". IEEE Trans Nucl Sci. Vol 44, No. 1 (1997) 26-30.

C. Degueldre, H. Pleinert, R.P. Maguire, E. Lehman, J. Missimer, J. Hammer, K.L. Leenders, H. Bock and D. Townsend. "Porosity and pathway determination in crystalline rock by positron emission tomography and neutron radiography". Earth Planet. Sci. Lett. 140 (1996) 213-225.

G. Thut, A. Antonini, R. Spiegel, R. P. Maguire, J. H. Missimer, K. L. Leenders, D. Eidelberg. "The metabolic topography of Huntington's disease". Neurology 46S (1996) 3108.

A. Antonini, P. Vontobel, M. Psylla, I. Guenther, R. P. Maguire, J. Missimer, K. L. Leenders. "Complementary PET Studies of the Striatal Dopaminergic System in Parkinson's Disease". Archives of Neurology 52 (1995) 1183-1190.

E.C. Aschenauer, K. Gabathuler, P. Hauser, J. Missimer, L.M. Simons, A. Badertscher, P.F.A. Goudsmit, H.J. Leisi, H.-Ch. Schröder, D. Sigg, Z.G. Zhao, D. Chatellard, J.-P. Egger and V.E. Markushin. "Cascade Processes and Kinetic Energy Distribution of Pionic Hydrogen Atoms". Phys. Rev. A 51 (1994) 1965-1979.

J.H. Missimer, R.N. Mohapatra and Nimai C. Mukhopadhyay. "Muonic Analogue of Nuclear Double Beta Decay: a New Window on Lepton Number Violation". Phys. Rev. D 50 (1994) 2067-2070.

Simons, D. Abbott, B. Bach, R. Bacher, A. Badertscher, P. Blüm, P. DeCecco, J. Eades, J.-P. Egger, K. Elsener, D. Gotta, P. Hauser, K. Heitlinger, D. Horváth, F. Kottmann, E. Morenzone, J. Missimer, J.J. Reidy, R.T. Siegel, D. Taqqu and D. Viel. "Exotic Atoms and their electron shell". Nucl. Instr. and Methods in Physics Research B 87 (1994) 293-300.

D. Horváth, E.C. Aschenauer, D. Cauz, D. Chatellard, P. DeCecco, J. Eades, J.-P. Egger, K. Elsener, P. Eugster, F. Formisano, G. Gorini, P. Hauser, F. Kottmann, I. Krafcsik, V. Lagomarsino, G. Manuzio, J. Missimer, R. Poggiani, L.M. Simons, G. Testera, G. Torelli, F. Waldner. "Deceleration of MeV Antiprotons and Muons to KeV Energies – The Anticyclotron - A Progress Report". Nucl. Instr. and Methods in Physics Research B 85 (1994) 736-740.

P. DeCecco, P. Hauser, D. Horváth, F. Kottmann, J. Missimer, L.M. Simons, D. Taqqu, D. Abbott, B. Bach, R.T. Siegel, and D. Viel. "Low-energy μ Beam from the PSI anticyclotron". Hyperfine Interactions 76 (1993) 275-280.

- J. Kambor, J.F. Donoghue, B.R. Holstein, J.H. Missimer and D. Wyler. "Chiral Symmetry Tests in Nonleptonic K Decay". Phys. Rev. Lett. 68 (1992) 1818-1821.
- J. Kambor, J. Missimer and D. Wyler. "K \rightarrow 2 π and K \rightarrow 3 π decays in Next-to-leading Order Chiral Perturbation Theory". Phys. Lett. B261 (1991) 496-503.
- J. Missimer and L.M. Simons. "The Photon-Electron Directional Correlation and the Weak Neutral Current in Muonic Boron". Zeitschrift für Physik D 17 (1990) 275-281.
- J. Kambor, J. Missimer and D. Wyler. "The Chiral Loop Expansion of the Nonleptonic Weak Interactions of Mesons". Nucl. Phys. B346(1990)17-64.
- R. Bacher, P. Blüm, D. Gotta, W. Kunold, M. Schneider, L.M. Simons, and J. Missimer. "The Relevance of Ionization and Electron Refilling to the Observation of the M1 Transition in Light Muonic Atoms". Phys. Rev. A 39 (1989) 1610-1620.
- R. Bacher, P. Blüm, D. Gotta, K. Heitlinger, M. Schneider, J. Missimer, L.M. Simons and K. Elsener. "Degree of Ionization in Antiprotonic Noble Gases". Phys. Rev. A 38 (1988) 4395-4404.
- J. Missimer and L.M. Simons. "The Neutral Weak Current in Muonic Atoms". Phys. Rep. 118 (1985) 179-238.
- R. Bacher, D. Gotta, L.M. Simons, J. Missimer and N.C. Mukhopadhyay. "Muonic Atoms with Vacant Electron Shells". Phys. Rev. Lett. 54 (1985) 2087-2090.
- J. Missimer and L.M. Simons. "Nuclear Dynamic Resonance and Neutral Currents in Muonic $^{169}\text{Tm}_{69}$ ". Nucl. Phys. A356 (1981) 317-322 .
- J. Missimer, F. Scheck and R. Tegen. "Neutrino Masses from Three Particle Decays". Nucl. Phys. B188 (1981) 29-44.
- B. Desplanques and J. Missimer. "Analysis of Parity Violating Effects in Complex Nuclei". Phys. Lett. 84B (1979) 363-367.
- J. Missimer and L.M. Simons. "Neutral Current Effects in Muonic Atoms: E1-E2 Interference". Nucl. Phys. A316 (1979) 413-436.
- B. Desplanques and J. Missimer. "An Analysis of Parity Violating Nuclear Effects at Low Energy". Nucl. Phys. A300 (1978) 286-312.
- J. Missimer. "Parity Violation in the Two Nucleon System". Phys. Rev. C14 (1976)347-350.
- J. Missimer, L. Wolfenstein and J. Gunion. "Parity Violation in Proton-Proton Collisions at High Momentum Transfer". Nucl. Phys. B111 (1976) 20-32.
- J. Missimer and L. Wolfenstein. "Phenomenology of Neutral Currents Mediated by a Light Vector Boson". Nucl. Phys. B94 (1975) 189-196.

A. Andras, B. Eman, J. Missimer and D. Tadic. "The Parity Violating Nucleon-Pion Interaction and Simultaneous Fits to Nonleptonic Hyperon Decays". Phys. Rev. D11(1975) 2484-2489.

A. Andras, J. Missimer and D. Tadic. "Parity Violation in Three Triplet Gauge Models". Phys. Rev. D11 (1975) 1331-1336.

B. Guberina, J. Missimer and D. Tadic. "Leading Divergences of Weak NN Amplitudes". Phys. Rev. D9 (1974) 2456-2464 .

J. Missimer, E. Fischbach and A.D. Jackson. "Short Range Correlations, Effective Charge and Parity Violation in the 482 kev Transition in Tantalum". Nucl. Phys. A209(1973) 221-232 .

Proceedings and Abstracts

E. Abela, A. Seiler, J. Missimer, A. Federspiel, C. Hess, M. Sturzenegger, R. Wiest, B. Weder, "Perilesional and subcortical plasticity after focal ischemic stroke is associated with motor recovery: A tensor-based morphometry study"

Abstracts of the XXI World Congress of Neurology, Journal of the Neurological Sciences, Volume 333, Supplement 1, 15 October 2013, Pages e231,

J. Dolenc , J. H. Missimer, M. O. Steinmetz, and W. F. van Gunsteren. "Molecular dynamics simulations of stathmin: A study of phosphorylation and dephosphorylation." Swiss Chemical Society Meeting, September 2012, ETH Zürich, Switzerland

J. Dolenc , J. H. Missimer, M. O. Steinmetz, and W. F. van Gunsteren. "Molecular dynamics simulations of stathmin: Phosphorylation of Ser63 disrupts the helical conformaton." 9th International NCCR Symposium on New Trends in Structural Biology, September 2011, Zürich, Switzerland

J. Dolenc , J. H. Missimer, A. T. Alexandrescu, W. Jahnke, M. O. Steinmetz, and W. F. van Gunsteren. "GCN4 coiled-coil trigger sequence: molecular dynamics simulation techniques resolve apparent inconsistencies between measured NMR data." 8th European Symposium of the Protein Society, June 2009, Zürich, Switzerland

J. Dolenc, J.H. Missimer, R. Baron, M.O. Steinmetz, W.F. van Gunsteren. "Hydration of a three-stranded coiled coil". Computer Simulation and Theory of Macromolecules, Huenfeld, Germany, 2007.

D. Flügel, J. Missimer, R. Wiest, M. Wissmeyer, F. Donati, B. Weder. "Brain areas involved in medial temporal lobe seizures are different in males and females: A principal component analysis of ictal SPECT data". Human Brain Mapping, Chicago, USA, 2007.

G. Kägi, J. Missimer, E. Abela, C.M. Stöckel, J. Shah, R.J. Seitz, B.J. Weder. "Reproducibility of individual functional connectivity patterns evoked by tactile object manipulation - a principal component analysis of an event-related fMRI-study". Human Brain Mapping, Chicago, USA, 2007.

D. Flügel, J. Missimer, R. Wiest, M. Wissmeyer, F. Donati, B. Weder. "Gender differences in ictal rCBF SPECT patterns of medial temporal lobe seizures". Schweizerische Neurologische Gesellschaft: SNG-SSN 177. Herbsttagung:19. - 21. Oktober 2006, Interlaken, Schw Arch Neurol Psych 2006;157:335.

S. Hartmann, J. Missimer, L. Bönig, C. Stöckel, J. Shah, R.J. Seitz, and B. Weder. "Functional connectivity evoked by tactile object discrimination - a principal component analysis of an event related fMRI-study". Human Brain Mapping 2006, Florenz, Italy, 11-15 June 2006.

R .Kleiser, R.J. Seitz, J. Missimer. "Hypothesis-free analyses of an fMRI study of a subject experiencing phosphenes". Human Brain Mapping 2006, Florenz, Italy, 11-15

June 2006.

J.H. Missimer, M.O. Steinmetz, R. Baron, F.K. Winkler, R.A. Kammerer, X. Daura and W.F. van Gunsteren. "Configurational entropy elucidates the role of salt-bridge networks in protein thermostability". Biomolecular Simulation: From Physical Principles to Biological Function, Bad Honnef, 2006

N.P. Azari, J. Missimer and R.J. Seitz. "What makes an experience 'religious'? Distinctive Neural Patterns for Religious Experience and Emotion". Human Brain Mapping 2005, Toronto, Canada, 12-16 June 2005.

Wiest R, Schindler K, Jüngling F, Missimer J, and Weder B. "Evaluation strategies for ictal SPECT data." 174. Tagung der Schweizerischen Neurologischen Gesellschaft zusammen mit der Jahrestagung der Schweizerischen Gesellschaft für Neuroradiologie, Genf, 04-06 November 2004.

S. Hartmann, J. Missimer, L. Bönig, C. Stöckel, J. Shah, R.J. Seitz, and B. Weder. "Functional connectivity as evidenced by principal component analysis of event related fMRI-data in tactile object discrimination". Human Brain Mapping 2004, Budapest, Hungary, 13-17 June 2004.

B. Weder, J. Missimer, K. Schindler, T. Loher, P. Ritter, M. Wissmeyer, R. Wiest, J. Mathis. "Brain areas involved and interacting during mesial temporal lobe seizures". Human Brain Mapping 2003, New York, New York, USA 18-22 June 2003.

M. Honer, J. Missimer, M. Brühlmeier, C. Keller, P.A. Schubiger and S. Ametamey. "Dynamic Imaging of Striatal D2 Receptors in Mice with the Quad-HIDAC PET Camera: a Validation Study with [¹⁸F]-Fallypride". 2002 Annual Conference of the Academy of Molecular Imaging (AMI), San Diego, California, 23-27 October, 2002.

R. Manavaki, A.J. Reader, C. Keller, J. Missimer, and R.J. Walledge. "Scatter Modeling for 3D PET List-Mode EM Reconstruction". IEEE Nuclear Science Symposium and Medical Imaging Conference, Norfolk, Virginia, 11-16 November 2002.

B. Weder, K. Schindler, T. Loher, J. Missimer, P. Ritter, M. Wissmeyer, K. Lovblad, J. Mathis, and F. Donati. "Subject-Specific Versus Common Abnormal Perfusion Patterns in Patients with Mesial Temporal Lobe Epilepsy as Detected by ^{99m}Tc-ECD SPECT". 5th European Congress on Epileptology, Madrid, Spain, 6-10 October 2002 Epilepsia 43 (2002) Supp 8: p55.

J. Missimer, M. Honer, S. Ametamey, P.A. Schubiger: "Performance of 16-module Quad-Hidac PET camera". High Resolution Imaging in Small Animals: Instrumentation, Applications and Animal Handling". Rockville, Maryland, USA, September 2001.

C. Martin-Sölch, J. Missimer, K.L. Leenders, W. Schultz. "rCBF changes related to the processing of increasing reward". 12th annual meeting of the American Neuropsychiatric Association, Sanibel Island, Florida, February 2001.

J. Oakley, J. Missimer and G. Székely. "Multigrid Bayesian Image Reconstruction for Positron Emission Tomography", In 1999 International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine, Egmond aan Zee, The Netherlands, 1999.

J. Oakley, J. Missimer and G. Székely. "MRI-Based Correction and Reconstruction of PET Images", In Energy Minimization Methods in Computer Vision and Pattern Recognition 1999, York, England, 1999.

J. Oakley, J. Missimer and G. Székely. "Better Anatomical Priors for PET Reconstruction" In Medical Imaging Understanding and Analysis 99, Examination Schools, Oxford, 19-20 July 1999.

J. Pinkert, I. Gerdzen, R. Fötzsch, L. Oehme, J. Missimer, B. Ripke, N. Galley, and W.-G. Franke. "Functional correlates of macro square jerks in patients with spasmodic torticollis - a SPECT study with ^{99m}Tc - ECD, Brain 99, Düsseldorf, June 1999.

I. Gerdzen, J. Pinkert, R. Fötzsch, L. Oehme, S. Magyar-Lehmann, J. Missimer, R.P. Maguire, F. Vollenweider, K.L. Leenders, H. Lineman, N. Galley, V. Hietschold, B. Beuthien-Baumann, A. Richter, A. Müller, and W.-G. Franke. "Spasmodic torticollis shows impaired performance during numeric recognition and discrimination tasks - a study with ^{18}F -FDG-PET". Brain 99, Düsseldorf, June 1999.

I. Gerdzen, V. Hietschold, R. Fötzsch, L. Oehme, A. Müller, J. Pinkert, B. Ripke, J. Missimer, and A. Richter. "Cerebral activation during externally triggered and self-generated movement in spasmodic torticollis and normal volunteers". Brain 99, Düsseldorf, June 1999.

I. Gerdzen, J. Pinkert, R. Fötzsch, L. Oehme, J. Missimer, B. Ripke, N. Galley, and W.-G. Franke, S. Oeser, and O. Bach. "Compensatory strategies of the cerebellum of impaired visual attentional processing during smooth pursuit eye tracking in schizophrenia". Brain 99, Düsseldorf, June 1999.

I. Gerdzen, R. Fötzsch, V. Hietschold, L. Oehme, J. Pinkert, B. Ripke, A. Müller, J. Missimer, and A. Richter. "Functional imaging of externally triggered hand movements in torticollis spasmodicus using 1.5 T fMRI". European Congress of Radiology, Vienna, Austria, March 1999.

R. Fötzsch, I. Gerdzen, J. Pinkert, L. Oehme, J. Missimer, N. Galley, and W.-G. Franke. "Functional correlates of macro square wave jerks - results of a functional imaging study in patients with spasmodic torticollis". The cerebellum in health and disease:International Conference in Tübingen, September 1998.

I. Gerdzen, J. Pinkert, R. Fötzsch, L. Oehme, J. Missimer, B. Ripke, N. Galley, H. Pleines, and W.-G. Franke. "Functional correlates of smooth tracking in patients with spasmodic torticollis". Human Brain Mapping 98, Montreal, June 1998.

I. Gerdzen, L. Oehme, H. Elser, J. Missimer, P. Georgi, J. Pinkert, and B. Ripke, The influence of synaptic inhibitory control on positive and negative symptoms in

schizophrenia , Human Brain Mapping 98, Montreal, June 1998.

I. Gerdzen, J. Pinkert, R. Fötzsch, L. Oehme, J. Missimer, B. Ripke, N. Galley, S. Oeser, W.-G. Franke, and O. Bach, Compensatory strategies of the cerebellum for impaired visual attentional processing and timing during smooth pursuit eye tracking in schizophrenia , Human Brain Mapping 98, Montreal, June 1998.

A.F. Rodriguez, W.E. Blass, F. Emert, J. Missimer, K. L. Leenders. "Artificial neural network inverse Radon Transform". In 1997 International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine, Pittsburgh, PA, 25-28 June 1997.

J. H. Missimer, U. Knorr, R.J. Seitz, R. P. Maguire, G. Schlaug, and K. L. Leenders. "Localization of rCBF increases in human frontal cortex and cerebellum in voluntary index flexion movements". In Quantification of Brain Function using PET, Eds. R. Myers, B. Cunningham, D. Bailey, T. Jones, Academic Press, San Diego, California, (1996) pp 393-397.

I. Gerdzen, J. Pinkert, R. Foetzsche, L. Oehme, J. Missimer, B. Ripke, S. Oeser, U. Neumann, W.G. Franke and O. Bach. "Functional Correlates of Smooth Pursuit Eye Movement in Schizophrenia and Affective Disorders". Human Brain Mapping 96, Boston, July 1996.

R. P. Maguire, F. Emert, J. H. Missimer, K. L. Leenders and D. Townsend. "3D Imaging Study of Activity Distribution in Massive Granite with Positron Emission Tomography". 1995 International Meeting on Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine, Aix-les-Bains, France, 4 - 6 July 1995.

E.C. Aschenauer, V.E. Markushin, A. Badertscher, D. Chatellard, J.-P. Egger, K. Gabatuler, P.F.A. Goudsmit, P. Hauser, H.J. Leisi, J. Missimer, L.M. Simons, H.Ch. Schröder, D. Sigg and Z.G. Zhao: High Velocity Components in Exotic Atoms: Their Origin and Effects , Muon Catalysed Fusion Conference 1995, Dubna, 1995.

R.J. Seitz, J. H. Missimer, G. Schlaug, R. P. Maguire, U. Knorr, K. L. Leenders. "Localization of rCBF increases in human frontal cortex and cerebellum in voluntary index flexion movements". Annual Meeting of the Society of Neuroscience, Miami, Florida, USA, 13 - 18 November, 1994.

E.C. Aschenauer, K. Gabathuler, P. Hauser, J. Missimer, L.M. Simons, A. Badertscher, P.F.A. Goudsmit, H.J. Leisi, H.-Ch. Schröder, D. Sigg, Z.G. Zhao, D. Chatellard, J.-P. Egger and V.E. Markushin. "Exotic Atoms Swift or Slow". In Exotic Atoms, Molecules and their Interactions, Proc. 6th Workshop of the International School of Physics of Exotic Atoms (Erice, Sicily, 1994), C.Rizzo and E.Zavattini, eds., INFN Press, Trieste, 1994, pp.1 – 20.

A. Antonini, G. Thut, J. H. Missimer, R.P. Maguire, K. Hess and K.L. Leenders. "Frontal lobe glucose metabolism in patients with Parkinson's disease". 11th International Symposium on Parkinson's disease. Rome, 26 - 30 March 1994.

R.P. Maguire, J. H. Missimer, M. Psylla, H.W. Reist, R. Schwarzbach and K.L. Leenders. "Quantification in the Context of Positron Emission Tomography". Gemeinsame Wissenschaftliche Tagung SGSMP und SGBT, PSI, 4 - 5 November 1993.

D.W. Townsend, L.G. Byars, M. Defrise, A. Geissbuhler, R.P. Maguire, J. H. Missimer, R. Roddy, T. Brun, M.A. Brun, M.A. Mintun and R. Nutt. "Design and performance of a rotating positron tomograph, RPT-2". IEEE 1993 Nuclear Science Symposium and Medical Imaging Conference, San Francisco, 30 October to 5 November, 1993.

E.C. Aschenauer, K. Gabatuler, J. Missimer, L.M. Simons, A. Badertscher, P.F.A. Goudsmit, H.J. Leisi, H.Ch. Schröder, D. Sigg, Z.G. Zhao, D. Chatellard, J.-P. Egger and V. Markushin. "Strong Interaction shift and width of the 1s State in $\pi^- p$ ". V. International Oberjoch meeting on pion-nuclear physics, Oberjoch 1993.

A. Badertscher, W. Beer, J.-F. Gilot, P.F.A. Goudsmit, H.J. Leisi, A.J. Rusi El Hassani, D. Sigg, St. Thomann, W. Volken, Z.G. Zhao, E.D. Bovet, D. Chatellard, J.-P. Egger, G. Fiorucci, E. Jeannet, E.C. Aschenauer, K. Gabatuler, J. Missimer and L.M. Simons. "Crystal Diffraction of Pionic Hydrogen and Deuterium X-Rays". In Pions in Nuclei, ed. E. Oset (World Scientific, Singapore, 1992).

J. Kambor, J. Missimer and D. Wyler. "K \rightarrow 2 π and K \rightarrow 3 π decays in Next-to-leading Order Chiral Perturbation Theory". Proceedings of the International Workshop on Weak Interactions and Neutrinos, Ginosar, Israel, 9-14 April 1989.

J. Missimer. "Ionization and Refilling of the Electron Shell in Muonic Atoms". Proceedings of the International Symposium on Collective Phenomena in Nuclear and Subnuclear Long-Range Interactions in Nuclei, World Scientific (1988), p. 160.

J. Missimer. "Electroweak Effects in Muonic Atoms, Proceedings of the Workshop on Fundamental Muon Physics: Atoms, Nuclei and Particles". LA-10714-C, Los Alamos, 1986.

J. Missimer and L.M. Simons. "The Neutral Weak Current in Muonic Atoms". in Fundamental Interactions in Low-Energy Systems. Ed. P. Dalpiaz, G. Fiorentini and G. Torelli, Plenum Publ. Corp. (1985), p.115.

J. Missimer. "Parity Violating Effects due to Neutral Currents". Invited contribution to Alpine Medium-Energy Physics Workshop, SIN 81-2, 1980.

J. Missimer. "Parity Violation in the Two Nucleon System". Bulletin of the American Physical Society 21 (1976) 525.

A. Andras, B. Eman, J. Missimer and D. Tadic. "The Parity Violating Nucleon-Pion Interaction and Simultaneous Fits to Nonleptonic Hyperon Decays". Proceedings of "Symposium of Interaction Studies in Nuclei," North-Holland Publ. Co. ,1975.

A. Andras, J. Missimer and D. Tadic. "Parity Violation in Three Triplet Gauge Models". Proceedings of "Symposium of Interaction Studies in Nuclei," North-Holland

Publ. Co., 1975.