

MALGORZATA MARJANSKA

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Education:

- Ph.D. University of California, Berkeley** - Physical Chemistry May 2002
Professor Alexander Pines, Advisor
Thesis Title: “*Quantum Logic Gates, Local Field, Selective Excitation and Structural Studies of Dipolar Couplings in Oriented Molecules*”
- B.S. Loyola University of Chicago** (*summa cum laude*) May 1997
Major: Chemistry; Minor: Mathematics

Awards and Fellowships:

Honorary Mention, National Science Foundation, 1997
Departmental Honors in Chemistry, Loyola University of Chicago, 1997
Merck Index Award, Loyola University of Chicago, 1997
AT&T Bell Labs Summer Fellowship, Lucent Technologies, 1996
Undergraduate Award in Analytical Chemistry, Loyola University of Chicago, 1996
Sophomore Award in Mathematics, Loyola University of Chicago, 1995
W.I.S.E.R. Summer Research Fellowship, Loyola University of Chicago, 1994
Fr. Morrissey Medal, best undergraduate in chemistry, Loyola University of Chicago, received each year 1994-1997

Research experience:

- Sep. 2013 to present Center for Magnetic Resonance Research, University of Minnesota – Assistant Professor
– developed DNP applications in the brain
– developing spectroscopic methods for *in vivo* applications at high fields (brain)
- Oct. 2004 to Sep. 2013 Center for Magnetic Resonance Research, University of Minnesota – Research Associate/Assistant Professor without Tenure Track
– developed DNP applications in the brain
– developing spectroscopic methods for *in vivo* applications at high fields (brain, leg muscles)
– overseeing collection, responsible for analysis and interpretation of spectroscopy data for Alzheimer’s mouse project
- Oct. 2002 to Oct. 2004 Center for Magnetic Resonance Research, University of Minnesota – Postdoctoral Fellow, Supervisor: Professor Kamil Ugurbil
– designed novel spectroscopic editing methods for *in vivo* applications
- Sep. 1997 to Jun. 2002 University of California, Berkeley and Lawrence Berkeley National Laboratory – Graduate Student Assistant, Advisor: Professor Alexander Pines
– developed a novel approach for performing selective excitation in strongly coupled systems
– developed generalized methods for the measurement of the ^{19}F - ^1H dipolar couplings in nematic liquid crystalline samples
– demonstrated the viability of liquid crystals as a platform for quantum computing
- Jan. to Jul. 1997 Argonne National Laboratory – Researcher, Supervisor: Dr. Lester Morss
– evaluated the properties of new chelating agents with respect to the acidity and metal complexation ability

- Summer 1996 AT&T Bell Laboratories/Lucent Technologies – Summer Fellow, Supervisor: Dr. Peter Mirau
– characterized self-assembly of polymer films using solid-state NMR
- May 1994 to Sep. 1995 Loyola University of Chicago - Undergraduate Research, Advisor: Professor Alanah Fitch
– studied the transport of water soluble porphyrins through nano-sized channels constructed from clay films using cycling voltammetry

Teaching experience:

- Fall 2006 Lecturer, BPhy8293 – Directed Study, Advanced Topics in Biomedical Magnetic Resonance Imaging and Spectroscopy (University of Minnesota)
– instructed the course with four other people (P Bolan, C Corum, P-G Henry, P-F Van de Moortele)
– taught all lectures related to spectroscopic techniques, reviewed current literature on the topic, chose topics for student presentations
- Fall 2005 Lecturer, BPhy8147 – Advanced Physics of MRI (University of Minnesota)
– instructed the course with four other people (P Bolan, C Olman, K Ugurbil, P-F Van de Moortele)
– taught all lectures related to magnetic resonance spectroscopy
- Fall 2003 Lecturer, BPhy8293 – Directed Studies in MR Research (University of Minnesota)
– instructed the course with one other person (C Olman)
– lectured on variety of topics in magnetic resonance, designed and instructed laboratories
- Fall 1999 Head Teaching Assistant, CHM 1A – General Chemistry (U. C. Berkeley)
– supervised 43 teaching assistants for class of 1300 students
– wrote exams and weekly quizzes for the course
– held weekly discussion sessions and gave review sessions
- Fall 1998 Graduate Student Instructor, CHM 125 – Physical Chemistry Laboratory (U. C. Berkeley)
– gave one-on-one, hands-on instruction of physical chemistry laboratory techniques to ~30 students
– gave oral exams, graded written laboratory reports
- Fall 1997 Graduate Student Instructor, CHM 1A – General Chemistry (U. C. Berkeley)
– prepared and led weekly discussions, graded homework and exams for ~30 students
– supervised laboratory sessions for ~30 students
- 1995 to 1997 Teaching Assistant – Department of Chemistry (Loyola University of Chicago)
– trained undergraduate students to operate 300 MHz high-field solution spectrometer as part of introducing NMR spectroscopy at the earliest practical level into the undergraduate curriculum

Affiliations:

- 2003 to present International Society of Magnetic Resonance in Medicine
- 2000 to 2002 Group AMPERE

Publications:

- Christine Wiebking, Niall W Duncan, Brice Tiret, David J Hayes, **Malgorzata Marjanska**, Julien Doyon, Malek Bajbouj, Georg Northoff, “GABA in insula – a predictor of the neural response to interoceptive awareness.” – *NeuroImage* – doi: 10.1016/j.neuroimage.2013.04.042.

2. Evan A Weitz, Cutler Lewandowski, Eric D Smolensky, **Malgorzata Marjanska**, Valerie Pierre, “A magnetoplasmonic imaging agent for copper(I) with dual response by MRI and dark field microscopy” – *ACS Nano* **7** (2013) 5842-5849.
3. Eric Smolensky, Hee-Yun Park, Yue Zhou, **Malgorzata Marjanska**, Mauro Botta, Valerie Pierre, “Scaling laws at the nano size: the effect of particle size and shape on the magnetism and relaxivity of iron oxide nanoparticle contrast agents.” - *Journal of Material Chemistry B*, **22** (2013) 2818-2828.
4. Ryan L Muetzel, **Malgorzata Marjanska**, Paul F. Collins, Mary Petrosko, Romain Valabregue, Edward J. Auerbach, Kelvin O. Lim, Monica Luciana, “In vivo 1H magnetic resonance spectroscopy in young-adult daily marijuana users.” – *NeuroImage Clinical* **2** (2013) 581-589.
5. Niall W. Duncan, Christine Wiebking, Brice Tiret, **Malgorzata Marjanska**, Dave J. Hayes, Oliver Lyttleton, Julien Doyon, Georg Northoff. “Glutamate concentration in the medial prefrontal cortex predicts resting-state cortical-subcortical functional connectivity in humans.” – *Plos One* **8** (2013) e60312.
6. Sara Tremblay, Vincent Beaulé, Sebastien Proulx, Louis De Beaumont, **Malgorzata Marjanska**, Julien Doyon, Alvaro Pascual-Leone, Maryse Lassonde, Hugo Théoret. “The relationship between transcranial magnetic stimulation measures of intracortical inhibition and spectroscopy measures of GABA and glutamate+glutamine.” – *Journal of Neurophysiology* **109** (2013) 1343-1349. PMID: 23221412
7. **Malgorzata Marjańska**, Stephane Lehericy, Romain Valabrègue, Traian Popa, Yulia Worbe, Margherita Russo, Edward J. Auerbach, David Grabli, Cecilia Bonnet, Cecile Gallea, Mathieu Coudert, LydiaYahia-Cherif, Marie Vidailhet, Sabine Meunier. “Brain dynamic neurochemical changes in dystonic patients: A magnetic resonance spectroscopy study.” – *Movement Disorders* **28** (2013) 201-209. PMID: 23239076
8. **Malgorzata Marjańska**, Lynn E. Eberly, Gregor Adriany, Sarah N. Verdoliva, Michael Garwood, Lisa Chow, “Influence of foot orientation on the appearance and quantification of ¹H magnetic resonance muscle spectra obtained from the soleus and the vastus lateralis” – *Magnetic Resonance in Medicine* **68** (2012) 1731-1737. PMID: 22298295 PMCID: PMC3381854
9. **Malgorzata Marjańska**, Thomas Z. Teisseyre, Nicholas W. Halpern-Manners, Yi Zhang, Isabelle Iltis, Vikram Bajaj, Kamil Ugurbil, Alexander Pines, Pierre-Gilles Henry, “Measurement of Arterial Input Function in Hyperpolarized ¹³C Studies”– *Applied Magnetic Resonance* **43** (2012) 289-297.
10. Eric D. Smolensky, **Malgorzata Marjanska**, Valerie C. Pierre, “A responsive particulate MRI contrast agent for copper (I): optimal cluster size for maximum response”– *Dalton Transactions* **41** (2012) 8039-8046. PMID: 22582342
11. Hermien Kan, Mahidol Aranee, Matthias van Osch, Dinesh Deelchand, Pierre-Gilles Henry, **Malgorzata Marjanska**, Mark van Buchem, Andrew Webb, Itamar Ronen, “Differences in apparent diffusion coefficients of neuronal metabolites between grey and white matter in the human brain measured at 7 T” – *Magnetic Resonance in Medicine* **67** (2012) 1203-1209. PMID: 22083562
12. Pierre-Gilles Henry, Dinesh Deelchand, Isabelle Iltis, **Malgorzata Marjanska**, Gulin Oz, Alexander Shestov, Julien Valette, “In vivo ¹³C NMR spectroscopy and metabolic modeling: methodology.” Chapter in *Advances in Neurobiology*, edited by Rolf Gruetter and In-Young Choi, Springer, 2012.
13. Dinesh Deelchand, Pierre-Gilles Henry, Kamil Ugurbil, and **Malgorzata Marjańska**, “Measurement of transverse relaxation times of J-coupled metabolites in the human visual cortex at 4 T” – *Magnetic Resonance in Medicine* **67** (2012) 891-897. PMID: 21748799
14. **Malgorzata Marjańska**, Edward J. Auerbach, Romain Valabrègue, Pierre-François Van de Moortele, Gregor Adriany, Michael Garwood, “Localized ¹H NMR Spectroscopy in Different Regions of Human Brain *In Vivo* at 7 T:

T₂ Relaxation Times and Concentrations of Cerebral Metabolites”– *NMR in Biomedicine* **25** (2012) 332- 339. PMID: 21796710

15. Uzay Emir, Edward J. Auerbach, Pierre-Francois Van de Moortele, **Malgorzata Marjanska**, Kamil Ugurbil, Melissa Terpstra, Ivan Tkac, Gulin Oz, “Regional Neurochemical Profiles in the Human Brain measured by ¹H MRS at 7 Tesla using Local B₁ Shimming” – *NMR in Biomedicine* **25** (2012) 152-160. PMID: 21766380
16. Joseph F. Poduslo, Kristi Hultman, Geoffrey L. Curran, Gregory M. Preboske, Ryan Chamberlain, **Malgorzata Marjanska**, Michael A. Garwood, Clifford R. Jack, and Thomas Wengenack, “Targeting Vascular Amyloid in Arterioles of Alzheimer’s Disease Transgenic Mice with Amyloid Beta Protein Antibody Coated Nanoparticles” – *Journal of Neuropathology & Experimental Neurology* **70** (2011) 653-661. PMID: 21760540
17. Thomas M. Wengenack, Denise A. Reyes, Geoffry L. Curran, Brent J. Borowski, Joseph Lin, Gregory M. Preboske, Silvina S. Holasek, Emily J. Gilles, Ryan Chamberlain, **Malgorzata Marjanska**, Clifford R. Jack Jr., Michael Garwood, Joseph F. Poduslo, “Regional differences in MRI detection of amyloid plaques in AD transgenic mouse brain,” *NeuroImage* **54** (2011) 113-122. PMID: 20728546
18. **Malgorzata Marjanska**, Isabelle Iltis, Alexander A. Shestov, Dinesh K. Deelchand, Christopher Nelson, Kamil Ugurbil, Pierre-Gilles Henry, “*In Vivo* ¹³C Spectroscopy in the Rat Brain using Hyperpolarized [1-¹³C]pyruvate and [2-¹³C]pyruvate,” *Journal of Magnetic Resonance* **206** (2010) 210-218. PMID: 2068514
19. Gulin Oz, Christopher Nelson, Dee M. Koski, Pierre-Gilles Henry, **Malgorzata Marjanska**, Dinesh K. Deelchand, Ryan Shanley, Lynn E. Eberly, Harry T. Orr, H. Brent Clark, “Noninvasive detection of presymptomatic and progressive neurodegeneration in a mouse model of spinocerebellar ataxia type 1,” *Journal of Neuroscience*, **30** (2010) 3831-3838. PMID: 20220018
20. Lana G. Kaiser, **Malgorzata Marjanska**, Gerald B. Matson, Isabelle Iltis, Seth D. Bush, Brian J. Soher, Susanne Mueller, Karl Young, “¹H MRS detection of glycine residue of reduced glutathione in vivo,” *Journal of Magnetic Resonance*, **202** (2010) 259-266. PMID: 20005139
21. Fei Du, Yi Zhang, Isabelle Iltis, **Malgorzata Marjanska**, Xiao-Hong Zhu, Pierre-Gilles Henry, and Wei Chen, “*In Vivo* ¹H MRS to Quantify Anesthetic Effects of Pentobarbital on Cerebral Metabolism and Brain Activity in Rat,” *Magnetic Resonance in Medicine*, **62** (2009) 1385-1393.
22. Ryan Chamberlain, Denise Reyes, Geoffrey L. Curran, **Malgorzata Marjanska**, Thomas M Wengenack, Joseph F. Poduslo, Michael Garwood, Clifford R. Jack Jr., “Comparison of amyloid plaque contrast generated by T₂-weighted, T₂*-weighted, and susceptibility-weighted imaging methods in transgenic mouse models of Alzheimer's disease,” *Magnetic Resonance in Medicine*, **61** (2009) 1158-1164.
23. **Malgorzata Marjanska**, Matt Waks, Carl J. Snyder, J. Tommy Vaughan, “Multinuclear NMR Investigation of Probe Construction Materials at 9.4 T,” *Magnetic Resonance in Medicine*, **59** (2008) 936-938.
24. Isabelle Iltis, **Malgorzata Marjanska**, Fei Du, Deanne M. Koski, Xiao-Hong Zhu, Kamil Ugurbil, Wei Chen, and Pierre-Gilles Henry, “¹H MRS in the Rat Brain under Pentobarbital Anesthesia: Accurate Quantification of In Vivo Spectra in the Presence of Propylene Glycol,” *Magnetic Resonance in Medicine*, **59** (2008) 631-635.
25. **Malgorzata Marjanska**, Pierre-Gilles Henry, Kamil Ugurbil, Rolf Gruetter, “Editing through Multiple Bonds – Threonine Detection,” *Magnetic Resonance in Medicine*, **59** (2008) 245-251.
26. Stefan Posse, Ricardo Otazo, Arvind Caprihan, Juan Bustillo, Hongji Chen, Pierre-Gilles Henry, **Malgorzata Marjanska**, Charles Gasparovic, Chun Zuo, Vincent Magnotta, Bryon Mueller, Paul Mullins, Perry Renshaw, Kamil Ugurbil, Kelvin O. Lim, Jeffry R. Alger, “Proton Echo Planar Spectroscopic Imaging of J-Coupled Resonances in Human Brain at 3 and 4 Tesla,” *Magnetic Resonance in Medicine*, **58** (2007) 236-244.

27. Mircea C. Dobre, Kamil Ugurbil, **Malgorzata Marjanska**, “Determination of the Blood Relaxation Time (T_1) at High Magnetic Field Strengths,” *Magnetic Resonance Imaging*, **25** (2007) 733-735.
28. Clifford R. Jack, Jr., **Malgorzata Marjanska**, Thomas M. Wengenack, Denise A. Reyes, Geoffrey L. Curran, Joseph Lin, Gregory M. Preboske, Joseph F. Poduslo, and Michael Garwood, “Magnetic Resonance Imaging of Alzheimer’s Pathology in the Brains of Living Transgenic Mice: A New Tool in Alzheimer’s Disease Research,” *Neuroscientist*, **13** (2007) 38-48.
29. Stéphane Lehericy, **Malgorzata Marjanska**, Lilia Mesrob, Serge Kinkingnehun, “Magnetic Resonance Imaging of Alzheimer’s Disease,” *European Radiology*, **17** (2007) 347-362.
30. Melissa Terpstra, **Malgorzata Marjanska**, Pierre-Gilles Henry, Ivan Tkac, and Rolf Gruetter, “Detection of an Antioxidant Profile in the Human Brain In Vivo using Double Editing Within (DEW) Localized NMR Spectroscopy,” *Magnetic Resonance in Medicine*, **56** (2006) 1192-1199.
31. Kamil Ugurbil, Gregor Adriany, Can Akgün, Peter Andresen, Wei Chen, Michael Garwood, Rolf Gruetter, Pierre-Gilles Henry, **Malgorzata Marjanska**, Steen Moeller, Pierre-Francois Van de Moortele, K Prüssmann, Ivan Tkac, J. Tommy Vaughan, Florian Wiesinger, Essa Yacoub, Xia-Hong Zhu, “High magnetic fields for imaging cerebral morphology, function and biochemistry.” In: Robitaille PM and Berliner LJ, editor. Biomedical Magnetic Resonance: Ultra High Field Magnetic Resonance Imaging. Volume 26. New York: Springer; 2006. p. 285-342.
32. Pierre-Gilles Henry, Gregor Adriany, Dinesh Deelchand, Rolf Gruetter, **Malgorzata Marjanska**, Guling Oz, Elizabeth R. Seaquist, Alexander Shestov, Kamil Ugurbil, “In Vivo ^{13}C NMR Spectroscopy and Metabolic Modeling in the Brain: a Practical Perspective,” *Magnetic Resonance Imaging*, **24** (2006) 527-539.
33. Pierre-Gilles Henry, **Malgorzata Marjanska**, Jamie D. Walls, Julien Valette, Rolf Gruetter, Kamil Ugurbil, “Proton-Observed Carbon-Edited NMR Spectroscopy in Strongly Coupled Systems,” *Magnetic Resonance in Medicine*, **55** (2006) 250-257.
34. Kathleen E. Chaffee, **Malgorzata Marjanska**, Boyd M. Goodson, “NMR Studies of Chloroform@cryptophane-A and Chloroform@bis-cryptophane Inclusion Complexes Oriented in Thermotropic Liquid Crystals,” *Solid State NMR*, **29** (2006) 104-112.
35. **Malgorzata Marjanska**, Geoffrey L. Curran, Thomas M. Wengenack, Pierre-Gilles Henry, Robin L. Bliss, Joseph F. Poduslo, Clifford R. Jack Jr., Kamil Ugurbil, Michael Garwood, “Monitoring Disease Progression in Transgenic Mouse Models of Alzheimer’s Disease with Proton Magnetic Resonance Spectroscopy,” *Proceedings of the National Academy of Science USA*, **102** (2005) 11906-11910.
36. Charles H. Cunningham, Daniel B. Vigneron, **Malgorzata Marjanska**, Albert P. Chen, Duan Xu, Ralph E. Hurd, John Kurhaniewicz, Michael Garwood and John M. Pauly, “Sequence Design for MR Spectroscopic Imaging of Prostate Cancer at 3 T,” *Magnetic Resonance in Medicine*, **53** (2005) 1033-1039.
37. **Malgorzata Marjanska**, Pierre-Gilles Henry, Patrick J. Bolan, Brooks Vaughn, Elizabeth R. Seaquist, Rolf Gruetter, Kamil Ugurbil and Michael Garwood, “Uncovering Hidden In Vivo Resonances Using Editing Based on Localized TOCSY,” *Magnetic Resonance in Medicine*, **53** (2005) 783-789.
38. Liang-shi Li, **Malgorzata Marjanska**, Gregory H. J. Park, Alexander Pines and A. Paul Alvisatos, “Isotropic-Liquid Crystalline Phase Diagram of CdSe Nanorod Solution,” *Journal of Chemical Physics*, **120**(3) (2004) 1149-1152.
39. **Malgorzata Marjanska**, Boyd M. Goodson, Franca Castiglione, and Alexander Pines, “Inclusion Complexes Oriented in Thermotropic Liquid Crystalline Solvents Studied with Carbon-13 NMR,” *Journal of Physical Chemistry B*, **107** (2003) 12558-12561 (cover article).

40. **Malgorzata Marjanska**, Robert H. Havlin and Dimitris Sakellariou, “Coherent Averaging and Correlation of Anisotropic Spin Interactions in Oriented Molecules,” part of “NMR of Ordered Liquids” edited by Elliot Burnell and Cornelis A. de Lange, Kluwer Scientific, 2003.
41. **Malgorzata Marjanska**, Franca Castiglione, Jamie D. Walls, and Alexander Pines, “Measurement of Dipolar Couplings in Partially Oriented Molecules by Local Field NMR Spectroscopy with Low-Power Decoupling,” *Journal of Magnetic Resonance*, **158** (2002) 52-59.
42. Jamie D. Walls, **Malgorzata Marjanska**, Dimitris Sakellariou, Franca Castiglione, and Alexander Pines, “Selective Excitation in Dipole Coupled Systems,” *Chemical Physics Letters*, **357** (2002) 241-248.
43. **Malgorzata Marjanska**, Isaac L. Chuang, and Mark G. Kubinec, “Demonstration of Quantum Logic Gates in Liquid Crystal Nuclear Magnetic Resonance,” *Journal of Chemical Physics*, **12** (2000) 5095-5099.
44. **Malgorzata Marjanski**, Mohan Srinivasarao, Peter Mirau, “Solid-state Multipulse Proton Nuclear Magnetic Resonance Characterization of Self-assembling Polymer Films,” *Solid State Nuclear Magnetic Resonance*, **12** (1998) 113-118.
45. Alanah Fitch, Sungho Park, Yunlong Wang, **Malgorzata Marjanski**, and Pal Joo, “Intelligent Design of Thin Clay Films; Transport and Tailoring”, Book Chapter, International Clay Conference, A. Yamagishi and A. Aramata, Eds., 1997, Hokkaido University Press, Hokkaido, Japan.
46. Alanah Fitch, Yunlong, Sungho Park, **Malgorzata Marjanski**, “Molecular Basis for Transport in Nanoporous Media: Utility of Clay-Modified Electrodes” in “New Directions in Electroanalytical Chemistry,” eds: Leddy, Johna, Wightman, Mark, The Electrochemical Society, Inc., Pennington: 1996.

Invited Talks:

1. Malgorzata Marjanska, “Hyperpolarized ^{13}C Spectroscopy in Rat Brain at 9.4 T and Localized ^1H Spectroscopy in Human Brain at 7 T” – Martinos Center, Massachusetts General Hospital, March 14, 2012
2. Malgorzata Marjanska, “ ^1H Spectroscopy Techniques and Applications at High Field” – McLean Hospital, March 13, 2012.
3. Malgorzata Marjanska, “Hyperpolarized ^{13}C spectroscopy in rat brain” – 3rd International Meeting on Dynamic Nuclear Polarization, Lausanne, Switzerland, September 7-10, 2011
4. Malgorzata Marjanska, “Hyperpolarized ^{13}C spectroscopy in the rat brain”, University of New Mexico, Department of Physics, December 2, 2010.
5. Malgorzata Marjanska, “Hyperpolarized ^{13}C spectroscopy in the rat brain”, University of New Mexico School of Medicine, December 3, 2010.
6. Malgorzata Marjanska, “Magnetic Resonance Imaging and Spectroscopy for Understanding Alzheimer’s Disease”, Medtronic, September 28, 2010.
7. Malgorzata Marjanska, “Methodology of MRS in Transgenic Mouse Models” – 18th International Society for Magnetic Resonance Research in Medicine Meeting, Stockholm, May 1-7, 2010
8. Malgorzata Marjanska, “Measurement of Intramyocellular Lipid – Challenges and Opportunities” – Mayo CTSA NMR Spectroscopy Workshop, October 28, 2008
9. Malgorzata Marjanska, “Localized Spectroscopy in Different Regions of Human Brain at High Magnetic Field” – 6th Bi-annual Minnesota Workshop on High Field MR Imaging and Spectroscopy and MR Imaging of Brain Function, October 4-7, 2007

10. Malgorzata Marjanska, “Magnetic Resonance Imaging and Spectroscopy for Understanding Alzheimer’s Disease”, Centre for NeuroImaging Research, Pitie-Salpetriere Hospital, Paris, France, July 16, 2007
11. Malgorzata Marjanska, “Magnetic Resonance Imaging and Spectroscopy for Understanding Alzheimer’s Disease”, NEUROSPIN, France, July 11, 2007
12. Malgorzata Marjanska, Geoffrey L. Curran, Thomas M. Wengenack, Pierre-Gilles Henry, Robin L. Bliss, Joseph F. Poduslo, Clifford R. Jack, Jr., Kamil Ugurbil, Michael Garwood, “Monitoring Disease Progression in Transgenic Mouse Models of Alzheimer’s Disease with MRS”, European Society for Magnetic Resonance in Medicine and Biology, 23rd Annual Meeting, Warszawa, Poland, September 21-23, 2006
13. Malgorzata Marjanska, “NMR Spectroscopy for Understanding Alzheimer’s Disease” – University of California at Berkeley, Alexander Pines’ laboratory – August 4, 2006
14. Malgorzata Marjanska, Geoffrey L. Curran, Thomas M. Wengenack, Joseph F. Poduslo, Clifford R. Jack Jr., Kamil Ugurbil, Michael Garwood “NMR Spectroscopy for Understanding Alzheimer Disease”, Symposium and Training XIV: New Frontiers in Metabolic Imaging, Southwestern Medical Center, April 20, 2006
15. Malgorzata Marjanska, “Progression of Alzheimer’s Disease in Transgenic Mouse Models Monitored with ¹H MRS”, VA Medical Center, Minneapolis, February 3, 2006
16. Malgorzata Marjanska, “Monitoring Disease Progression on Transgenic Mouse Models of Alzheimer’s Disease Using ¹H MRS”, Department of Neurology, University of Minnesota, November 3, 2005
17. Malgorzata Marjanska, Geoffrey L. Curran, Thomas M. Wengenack, Joseph F. Poduslo, Clifford R. Jack Jr., Kamil Ugurbil, Michael Garwood, “Proton Magnetic Resonance Spectroscopy in Alzheimer Mouse Model”, 5th Bi-annual Minnesota Workshop on High Field MR Imaging and Spectroscopy and MR Imaging of Brain Function, October 13-16, 2005
18. Malgorzata Marjanska, “Uncovering *In Vivo* Resonance using Magnetic Resonance Spectroscopy”, Department of Chemistry, Southern Illinois University at Carbondale, August 31, 2005
19. Malgorzata Marjanska, “Uncovering Hidden *In Vivo* Resonances using 1D-TOCSY-LASER Spectroscopy”, New York Structural Biology Center, NY, October 18, 2004
20. Malgorzata Marjanska, Jamie Walls, Dimitris Sakellariou, Franca Castiglione, and Alexander Pines, “Selective Excitation in Strongly Coupled Systems”, 85th CSC Conference and Exhibition, Vancouver, Canada, June, 2002

Presentations:

1. Najib Allaili, Romain Valagregue, Malgorzata Marjanska, Pauline Delaveau, Eric Bardinnet, Martiza Jabourian, Judith Laredo, Stephane Lehericy, Philippe Fossati, “Hippocampal Choline Level predicts symptomatic improvement with Agomelatine in major depressive disorder: a 3 Tesla single voxel spectroscopy study” Society of Biological Psychiatry, 68th Annual Scientific Conference, San Francisco, May 6-18, 2013 – oral presentation
2. Najib Allaili, Romain Valagregue, Malgorzata Marjanska, Pauline Delaveau, Eric Bardinnet, Martiza Jabourian, Judith Laredo, Philippe Fossati, Stephane Lehericy, “Hippocampal Choline Level predicts symptomatic improvement with Agomelatine in major depressive disorder: a 3 Tesla single voxel spectroscopy study” 21st International Society for Magnetic Resonance Research in Medicine Meeting, Salt Lake City, April 20-26, 2013, pg. 737 – oral presentation
3. Malgorzata Marjanska, Pierre-Gilles Henry, “In vivo time courses of brain TCA cycle intermediate observes using hyperpolarized magnetic resonance”, 54th Experimental Nuclear Magnetic Resonance Conference, Asilomar, April 14-19, 2013 - poster

4. Vincent Beaulieu, Sara Tremblay, Louis de Beaumont, Julien Doyon, Malgorzata Marjanska, Maryse Lassonde, Hugo Theoret, “Long-term investigation of primary motor cortex metabolism in concussed athletes” - Human Brain Mapping, Beijing, China, June 10-14, 2012
5. Sara Tremblay, Vincent Beaulieu, Louis de Beaumont, Julien Doyon, Malgorzata Marjanska, Maryse Lassone, Hugo Theoret, “On the relationship between TMS-derived measures of GABA_B synaptic activity and ¹H MRS measure of glutamate and GABA in primary motor cortex” – Human Brain Mapping, Beijing, China, June 10-14, 2012
6. Uzay E. Emir, Malgorzata Marjanska, Dinesh Deelchand, Melissa Terpstra, “Metabolite ¹H transverse relaxation rates measured in the healthy young versus elderly human brain at 4 T” 20th International Society for Magnetic Resonance Research in Medicine Meeting, Melbourne, May 5-11, 2012, pg. 1820 – poster
7. Malgorzata Marjanska, Alexander Shestov, Pierre-Gilles Henry, “Brain metabolism under different anesthesia using hyperpolarized [1-¹³C]pyruvate 20th International Society for Magnetic Resonance Research in Medicine Meeting, Melbourne, May 5-11, 2012, pg. 1692 – poster
8. Malgorzata Marjanska, Stephen D. Weigand, Geoffrey L. Curran, Thomas M. Wengenack, Joseph F. Poduslo, Michael Garwood, Clifford R. Jack, Jr., “Correlation between Plaque Counts and Metabolite Concentrations in Transgenic Mouse Model of Alzheimer’s Disease” - 20th International Society for Magnetic Resonance Research in Medicine Meeting, Melbourne, May 5-11, 2012, pg. 1797 – poster
9. Alaa Houry, Bonnie Klimes-Dougan, Malgorzata Marjanska, Kelvin O. Lim, and Kathryn Cullen, “Brain metabolite levels in the anterior cingulate cortex in adolescents with major depressive disorder” 67th Annual Society of Biological Psychiatry, Philadelphia, PA, May 3-5, 2012. - poster
10. Michael-Paul Schallmo, Scott R. Sponheim, Malgorzata Marjanska, Cheryl A. Olman, “Schizophrenia Affects Contextual Modulation during Contour Detection” – Society of Neuroscience, Washington D.C., November 12-16, 2011 – poster
11. Sabine Meunier, Malgorzata Marjanska, Romain Valabregue, Traian Popa, Yulia Worbe, Margherita Russo, Edward J. Auerbach, David Grabli, Cecilia Bonnet, Marie Vidailhet, Stephane Lehericy, “The neurochemical profile of writer’s cramp and its changes after non-invasive 5 Hz cortical stimulation: a 3 tesla magnetic resonance spectroscopy study” – European Congress of Clinical Neurophysiology, Rome, Italy, June 20-26, 2011 – poster
12. Sabine Meunier, Malgorzata Marjanska, Romain Valabregue, Traian Popa, Yulia Worbe, Margherita Russo, Edward J. Auerbach, David Grabli, Cecilia Bonnet, Marie Vidailhet, Stephane Lehericy, “The neurochemical profile of writer’s cramp and its changes after non-invasive 5 Hz cortical stimulation: a 3 tesla magnetic resonance spectroscopy study” – Movement Disorder Society, Toronto, Canada, June 5-10, 2011 - poster
13. Alaa Houry, Kristina Reigstad, Caroline Schimunek, Bonnie Klimes-Dougan, Malgorzata Marjanska, Kelvin Lim, Kathryn Cullen, “Magnetic Resonance Spectroscopy and Depression in Adolescent Girls” – Society of Biological Psychiatry 66th Annual Meeting, San Francisco, May 12-14, 2011 – poster
14. Ulrike Dydak, Jun S. Xu, Malgorzata Marjanska, Stefan Posse, “3D GABA Spectroscopic Imaging using MEGA-PEPSI” – 19th International Society for Magnetic Resonance Research in Medicine Meeting, Montreal, May 7-13, 2011, pg. 1428 – poster
15. Malgorzata Marjanska, Edward J. Auerbach, Romain Valabregue, Pierre-Francois Van de Moortele, Gregor Adriany, Michael Garwood, “T₂ Relaxation Times in the Human Brain at 7 T” – 19th International Society for Magnetic Resonance Research in Medicine Meeting, Montreal, May 7-13, 2011, pg. 1439 – poster
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19. Malgorzata Marjanska, Ryan Chamberlain, Gregory Preboske, Linda Kotilinek, Thomas M. Wengenack, Joseph F. Poduslo, Karen H. Ashe, Michael Garwood, Clifford R. Jack, Jr, “Magnetic Resonance Biomarkers of Neurodegeneration in a Transgenic Mouse Model of Alzheimer’s Disease” – 10th International Conference on Alzheimer’s Disease, Honolulu, July 10-15, 2010 - poster
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76. Peter A. Mirau and Malgorzata Marjanski, “NMR Characterization of Self-Assembling Polymer Films,” 7th Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics, November 2, 1996 – talk
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Research Support:

Active

P41RR08079 Ugurbil (PI)

07/01/2008-06/30/2013

NIH

NMR Imaging and Localized Spectroscopy at High Magnetic Fields

Role: Co-I Core IV: High Field Brain Spectroscopy

Puybasset (PI)

PHRC national 2005 - National Clinical research Project 2005

Utilisation de l'IRM multimodale comme outil prédictif de l'avenir neurologique des patients dans le coma après un accident de la voie publique

Use of multimodal MRI as a prognosis tool to determine the neurological outcome of comatose patients following a traumatic brain injury

Role: external collaborator

Lehericy (PI)

ANR

Approche IRM multimodale de la physiopathologie du syndrome de Gilles de la Tourette.

Multimodal MRI study of the physiopathology of Gilles de la Tourette syndrome.

Role: external collaborator

Completed

Jack, Jr, Poduslo, and Garwood (PIs)

04/15-2007-04/14/2009

Minnesota Partnership for Biotechnology and Medical Genomics

Validation of Magnetic Resonance Techniques as Measures of Therapeutic Efficacy for Drug Discovery in Alzheimer's Disease

Role: co-I

Poduslo, Jack, Jr, and Garwood (PIs)

04/15-2007-04/14/2009

Minnesota Partnership for Biotechnology and Medical Genomics

Development of Antibody Fragments as Contrast Agents for MR Imaging of Alzheimer's Disease Amyloid Plaques

Role: co-I

R21 PA-03-107 Terpstra (PI)

07/01/2007-06/30/2009

NIH

Human Brain Antioxidant Levels Measured In Vivo as a Function of Age and Diet

Role: co-I

R21 NS060253 Oz (PI)

07/01/2007 – 06/30/2009

NIH

Neurochemical Correlates of Pathology in Spinocerebellar Ataxia

K12 5K12RR023247-02 Luepker (PI)

2006 - 2010

NIH

Scholar Development Clinical Research

Role : co-I

Jack, Jr and Marjanska (PIs)

03/01/2007-02/29/2008

Pfizer Inc.

Pfizer/Rinat MRMI and MRS APP/PS1 Mouse Treatment Study

Role: co-PI

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02/01/2007 – 01/31/2008

Dana Foundation

Non-Invasive Quantitation of Biochemical Changes in the Human Substantia Nigra in Parkinson's Disease: A Window into Pathogenesis

Role: co-I