List Of 2012 Reports

ID#	Title, First Author, and Category	Status
282	**Title:** Emerging Tumor Resistance and Sodium-Diffusion MRI **First Author:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **PI:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** No **VSP:** No **Published in** Magnet. Reson. Med. 67, 1159-1166 (2012) **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** None	Edited
423	**Title:** Biological and MR Impacts of Long Term SPIO Exposure on hMSCs Under Hypoxic-Ischemic Conditions **First Author:** Rosenberg, J.T., The Florida State University, National High Magnetic Field Laboratory, rosenberg@magnet.fsu.edu **PI:** Grant, S.C., The Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** Yes **VSP:** No **Published in** Cytotherapy 2012 Dec 17. doi:pii: S1465-3249(12)00020-5. **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** None	Edited
424	**Title:** Tracking hMSCs Under Ischemic Neuronal Injury Utilizing ^{1}H and ^{23}Na MRI at 21.1T **First Author:** Rosenberg, J.T., The Florida State University, National High Magnetic Field Laboratory, rosenberg@magnet.fsu.edu **PI:** Grant, S.C., The Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** None	Edited
428	**Title:** Ultrafast in vivo Diffusion Imaging of Stroke at 21.1 T by Spatiotemporal Encoding **First Author:** Leftin, A., Weizmann Institute, Chemical Physics, leftin@weizmann.ac.il **PI:** Frydman, L, Weizmann Institute, Chemical Physics, lucio.frydman@weizmann.ac.il **Category:** Biology **Facility:** NMR Facility **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** Yes, definitely **Director's Comments:** None	Edited
377	**Title:** Temporal Scaling (TS) of Diffusion in the Isolated Rat Hippocampus **First Author:** Ozarslan, E., NIH, evren@helix.nih.gov **PI:** Basser, P.J., NIH, pjbasser@helix.nih.gov **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** Yes **VSP:** No **Published in** NeuroImage 60(2):1380–1393 (2012) **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
406	**Title:** Determining the Contribution of Iron to Quantitative MRI of the Alzheimer's Brain **First Author:** Collingwood, J.F., University of Warwick, J.F.Collingwood@warwick.ac.uk **PI:** Collingwood, J.F., University of Warwick, J.F.Collingwood@warwick.ac.uk **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** NeuroImage 59,1249 -1260 (2012) **Sign. Achievement:** Yes **Director's Recommendation:** Yes	Edited

	Director's Comments: None	
341	**Title:** Novel Olfactory System Neural Organization Revealed by Diffusion Tensor MRI **First Author:** Kajiura, S.M., Florida Atlantic University, kajiura@fau.edu **PI:** Frank, L.R., University of California San Diego, lfrank@ucsd.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
345	**Title:** Identification of Male and Female Mating Pheromones in Panagrellus redivivus **First Author:** Choe, A., Caltech, Biology, andreachoe@gmail.com **PI:** Edison, A.S., University of Florida, Biochemistry & Molecular Biology, aedison@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** P. Natl. Acad. Sci. U.S.A. 109, 20949–20954 (2012) **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
372	**Title:** MR Microscopy of Human and Porcine Neurons **First Author:** Flint, J.J., UF, Neuroscience, jflint@mbi.ufl.edu **PI:** Blackband, S.J., UF, Neuroscience, blackie@mbi.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** Yes **VSP:** No **Published in** NeuroImage 2012 Apr 2;60(2):1404-1 **Sign. Achievement:** Yes **Director's Recommendation:** Yes **Director's Comments:** None	Edited
136	**Title:** Neural Processing of a Cocaine-Associated Odor Cue Revealed by Functional MRI in Awake Rats **First Author:** Johnson, T.R., Northeastern University, Behavioral Neuroscience, tehya.rj@gmail.com **PI:** Febo, M., University of Florida, Psychiatry, febo@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Accepted by** Neuroscience letters **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
137	**Title:** Predator Odor-Evoked BOLD Activation in the Awake Rat: Modulation by Oxytocin and V1a Vasopressin Receptor Antagonists **First Author:** Reed, M.D., Northeastern University, Behavioral Neuroscience, reed.michael@mail.com **PI:** Febo, M., University of Florida, Psychiatry, febo@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Accepted by** Brain Research **Sign. Achievement:** No **Director's Recommendation:** Yes **Director's Comments:** None	Edited
139	**Title:** Cocaine Sensitization Increases Kyphosis and Modulates Neural Activity in Adult Nulliparous Rats **First Author:** Nephew, B.C., Tufts University, Biomedical Sciences, bcnephew@aol.com **PI:** Febo, M., University of Florida, Psychiatry, febo@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** Brain Sciences **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Diffusion Tensor Imaging at 11Tesla in IFN? Overexpressing Mice **First Author:** Chakrabarty, P., University of Florida, Neuroscience Dept, pchakrabarty@ufl.edu **PI:** Febo, M., University of Florida, Psychiatry, febo@ufl.edu **Category:** Biology	

140	**Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
141	**Title:** In Vivo Functional Brain Mapping in a Conditional Mouse Model of Human Tauopathy (tau_{P301L}) Reveals Reduced Neural Activity in Memory Formation Structures **First Author:** Perez, P.D., University of Florida, Psychiatry, pabperez@ufl.edu **PI:** Febo, M., University of Florida, Psychiatry, febo@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Submitted to** Molecular Neurodegeneration **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
143	**Title:** Characterization of Brain Morphology in Mucopolysaccharidosis Type IIIB Affected Mice Using Magnetic Resonance Imaging **First Author:** Gilkes, J., University of Florida, medicine, jgilkes@ufl.edu **PI:** Heldermon, C.D., University of Florida, Medicine, coy.heldermon@medicine.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
165	**Title:** Structural Characterization of the DNA-binding Domain of the Xenopus NO38 Chaperone Complexed with its Duplex DNA Target. **First Author:** Smirnov, S.L., Western Washington University, Chemistry, smirnov@chem.wwu.edu **PI:** Smirnov, S.L., Western Washington University, Chemistry, smirnov@chem.wwu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
173	**Title:** NMR Imaging of Drought-induced Vessel Blockage and Restoration of Hydraulic Conductivity in Citrus and Blueberry Plants **First Author:** Brodersen, C.R., University of Florida, Horticulture/CREC, brodersen@ufl.edu **PI:** Brodersen, C.R., University of Florida, Horticulture/CREC, brodersen@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
182	**Title:** Structural and Functional Brain Changes in Late-Life Major and Minor Depression **First Author:** Dotson, V.M., University of Florida, Clinical & Health Psychology, vonetta@phhp.ufl.edu **PI:** Dotson, V.M., University of Florida, Clinical & Health Psychology, vonetta@phhp.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
202	**Title:** Resolution and Sensitivity of Magic Angle Spinning Solid-State NMR Spectra of Membrane Proteins at Ultra High Magnetic Fields **First Author:** Ladizhansky, V., University of Guelph, Physics, vladizha@uoguelph.ca **PI:** Ladizhansky, V., University of Guelph, Physics, vladizha@uoguelph.ca **Category:** Biology	Edited

	Facility: NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
210	**Title:** Magnetic Resonance Imaging of Gadolinium-Filled Neurophilic Lipid Nanoparticles **First Author:** Tari, A.M., University of Florida, Neuroscience, anamtari@ufl.edu **PI:** Tari, A.M., University of Florida, Neuroscience, anamtari@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
212	**Title:** Neuroanatomic Studies in Prader-Willi Syndrome and Early-onset Obesity **First Author:** Miller, J., University of Florida, Pediatrics, millejl@peds.ufl.edu **PI:** Miller, J., University of Florida, Pediatrics, millejl@peds.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
234	**Title:** Quantifying Gd-Albumin Concentration Profiles in the Rat Brain after CED **First Author:** Astary, G.W., University of Florida, Biochemistry and Molecular Biology, gwastary@ufl.edu **PI:** Mareci, T.H., University of Florida, Biochemistry and Molecular Biology, tmareci@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
243	**Title:** Lack of Neuronal Nitric Oxide Synthase Slows Phosphocreatine Recovery and Reduces Microvascular Function Following Muscle Contractions **First Author:** Forbes, S.C., University of Florida, Physical Therapy, scforbes@ufl.edu **PI:** Forbes, S.C., University of Florida, Physical Therapy, scforbes@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
244	**Title:** Validation of Gluco-CEST Experiments with ^{13}C-Labeled Glucose Detection in vivo **First Author:** Artemov, D., Johns Hopkins University, Radiology, dmitri@mri.jhu.edu **PI:** Artemov, D., Johns Hopkins University, Radiology, dmitri@mri.jhu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
245	**Title:** Longitudinal Study of Brain Volume and White Matter Integrity After Blast Injury **First Author:** Fitzgerald, D.B., University of Florida, Neurology, david.fitzgerald@neurology.ufl.edu **PI:** Fitzgerald, D.B., University of Florida, Neurology, david.fitzgerald@neurology.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No**	Edited

	Director's Comments: None	
246	**Title:** HARDI Tractography of Thalamic Connectivity of Broca's Area **First Author:** Ford, A., University of Florida, Psychology, sokolova@ufl.edu **PI:** White, K.D., University of Florida, Psychology, kdwhite@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Submitted to** NeuroImage **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
261	**Title:** MRS Evaluation of Muscle Glycogen Content in a Mouse Model of Pompe Disease **First Author:** Baligand, C., University of Florida , Department of Physiology and Functional Genomic, baligand@ufl.edu **PI:** Baligand, C., University of Florida , Department of Physiology and Functional Genomic, baligand@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
263	**Title:** Hindlimb Muscle Morphology and Function in a New Atrophy Model Combining Spinal Cord Injury and Cast Immobilization **First Author:** Ye, F., University of Florida, Department of Physical Therapy, evan1979@PHHP.UFL.EDU **PI:** Vandenborne, K., University of Florida, Department of Physical Therapy, kvandenb@phhp.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Published in** Journal of Neurotrauma http://www.ncbi.nlm.nih.gov/pubmed/22985272 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
264	**Title:** Asymmetry in Spinal Cord DTI Metrics Correlates with the Loss of Hindlimb Muscle Mass in a Rat Model of Severe Contusion SCI **First Author:** Baligand, C., University of Florida, Department of Physiology and Functional Genomic, baligand@ufl.edu **PI:** Vandenborne, K., University of Florida, Department of Physical Therapy, kvandenb@phhp.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
278	**Title:** Pulsed EPR Analysis of an Ectodomain Region of HIV Envelope Protein gp41 by DEER – Double Electron Electron Resonance **First Author:** Yu, L., NHMFL, luyu@magnet.fsu.edu **PI:** Reinherz, E.L., Dana-Farber Cancer Institute, Harvard Medical School, Ellis_Reinherz@dfci.harvard.edu **Category:** Biology **Facility:** EMR Facility **UCGP:** **Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
280	**Title:** Changes of Blood Oxygenation in a Rat Migraine Model **First Author:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **PI:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
	Title: Fiber Tract Mapping in Isolated Sections of Human Prostate at High Field **First Author:** Hwang, H.S., UF, Neuroscience, Hwang@mbi.ufl.edu	

373	**PI:** Blackband, S.J., UF, Neuroscience, blackie@mbi.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
374	**Title:** MR Microscopy of the Isolated Retina Using Microcoils **First Author:** Hwang, H.S., UF, Neuroscience, hwang@mbi.ufl.edu **PI:** Forder, J., UF, Radiology, jforder@mbi.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
283	**Title:** In vivo Chlorine MRI of Rat Glioma at 21.1T **First Author:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **PI:** Schepkin, V.D., NHMFL/FSU, CIMAR, schepkin@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
30	**Title:** Membrane and Ligand Binding of the Amino-proximal Domain of Prion Protein Defined by EPR **First Author:** Song, L., NHMFL, song@magnet.fsu.edu **PI:** Bienkiewicz, E.A., FSU, ewa.bienkiewicz@med.fsu.edu **Category:** Biology **Facility:** EMR Facility **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
39	**Title:** HIV Membrane Analysis by Multi-frequency and High-field EPR at 9, 95 and 240 GHz **First Author:** Yu, L., NHMFL, luyu@magnet.fsu.edu **PI:** Song, L., NHMFL, song@magnet.fsu.edu **Category:** Biology **Facility:** EMR Facility **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
133	**Title:** Actuating and Self-healing Properties of Bombyx mori Silk Thin Film **First Author:** Steven, E., National High Magnetic Field Laboratory, Physics, esteven@magnet.fsu.edu **PI:** Brooks, J.S., National High Magnetic Field Laboratory, Physics, brooks@magnet.fsu.edu **Category:** Biology **Facility:** CMT/E **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
419	**Title:** Ultrafast Functional and Diffusion Magnetic Resonance Imaging at 21.1 T by Spatiotemporal Encoding **First Author:** Leftin, A., Weizmann Institute, Chemical Physics, leftin@weizmann.ac.il **PI:** Frydman, L, Weizmann Institute, Chemical Physics, lucio.frydman@weizmann.ac.il **Category:** Biology **Facility:** NMR Facility **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No**	Edited

	Director's Comments: None	
387	**Title:** Feedback-based Control of Skeletal Muscle Electrical Stimulation Using ^{1}H and ^{31}P-NMRS to Monitor the Onset of Fatigue in Rat **First Author:** Baligand, C., University of Florida, Department of Physiology and Functional Genomic, baligand@ufl.edu **PI:** Dixon, W., University of Florida, Department of Mechanical and Aerospace Engineering, wdixon@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
426	**Title:** Magnetic Resonance Electrical Impedance Tomography of Neural Activity at 11.75 T **First Author:** Grant, S.C., The Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **PI:** Grant, S.C., The Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** **Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
427	**Title:** ^{23}Na MRI Detection of Cellular Responses to Osmotic Perturbation and Cell Viability **First Author:** Walsh, J.J., The Florida State University, Chemical & Biomedical Engineering, walsh@magnet.fsu.edu **PI:** Grant, S.C., The Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **UCGP:** **Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
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