List Of 2016 Reports

ID#	Title, First Author, and Category	Status
8	**Title:** In vivo Imaging Reveals Impaired Connectivity Across Cortical and Subcortical Networks in a Mouse Model of DYT1 Dystonia **First Author:** DeSimone, J.C., University of Florida, Applied Physiology, desimonej@ufl.edu **PI:** Vaillancourt, D.E., University of Florida, Applied Physiology, vcourt@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 11 T **UCGP:** No **VSP:** No **Published in** Neurobiology of Disease 95/35-45 **Sign. Achievement:** **Yes** **Director's Recommendation:** **Yes** **Director's Comments:** published in good journal	Edited
9	**Title:** Functional MRI of Disease Progression in Parkinson Disease and Atypical Parkinsonian Syndromes **First Author:** Burciu, R.G., University of Florida, Applied Physiology, roxana.g.burciu@ufl.edu **PI:** Vaillancourt, D.E., University of Florida, Applied Physiology, vcourt@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 3 T **UCGP:** No **VSP:** No **Published in** American Academy of Neurology 87/709-717 **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
21	**Title:** High-Field (17.6 T) Diffusion Tensor Imaging Identifies Early Structural Changes in Huntington's Disease Tissues from Mice **First Author:** Magin, R.L., University of Illinois at Chicago, Bioengineering, rmagin@uic.edu **PI:** Magin, R.L., University of Illinois at Chicago, Bioengineering, rmagin@uic.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 17.6 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
26	**Title:** DEER Analysis of BAK Oligomeric Pore **First Author:** Mandal, T, Rosalind Franklin University of Medicine and Science, Biochemistry and Molecular Biology, Tirtha.Mandal@my.rfums.org **PI:** Oh, KJ, Rosalind Franklin University of Medicine and Science, Biochemistry and Molecular Biology, kyoung.oh@rosalindfranklin.edu **Category:** Biology **Facility:** EMR Facility **Highest Measured Field:** 9 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
63	**Title:** Anatomy of the Goliath Grouper Skull **First Author:** Chapman, F, University of Florida, Fisheries, chapman@ufl.edu **PI:** Chapman, F, University of Florida, Fisheries, chapman@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 17.6 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
71	**Title:** Maternal and Fetal Glucose Uptake Followed by Chemical Exchange Saturation Transfer Imaging (glucoCEST) on Pregnant Mice at 21.1T **First Author:** Marovic, S, Weizmann Institute, Chemical Physics, stefan.markovic@weizmann.ac.il **PI:** Frydman, L, Weizmann Institute, Chemical Physics, frydman@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** **Yes**	Edited

	Director's Recommendation: No **Director's Comments:** None	
72	**Title:** Effects of Combination Biologics in a Primate Model of High Cervical Hemi-Contusion **First Author:** Santamaria, A.J., University of Miami, TheMiami Project to Cure Paralysis, ASantamaria@med.miami.edu **PI:** Guest, J., University of Miami, Neurological Surgery and The Miami Project to Cure Paralysis, JGuest@med.miami.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 11.75 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
101	**Title:** Protein Conformation Determined in Native Cellular Environments **First Author:** Costello, WN, UT Southwestern, Biophysics, whitney.costello@utsouthwestern.edu **PI:** Frederick, KK, UT Southwestern, Biophysics, kendra.frederick@utsouthwestern.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 14 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** None	Edited
119	**Title:** The First Observation of 17O MRI in Normal Rats at 21.1 T **First Author:** Schepkin, V.D., NHMFL/FSU, schepkin@magnet.fsu.edu **PI:** Schepkin, V.D., NHMFL/FSU, schepkin@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
120	**Title:** Comparison of Sodium and Potassium Binding Using Triple Quantum Methods at 21.1 T **First Author:** Schepkin, V.D., NHMFL/FSU, schepkin@magnet.fsu.edu **PI:** Budinger, T.F., Lawrence Berkeley National Laboratory, tfbudinger@lbl.gov **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Submitted to** NMR in Biomedicine **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
121	**Title:** In Vivo Phosphorous MR in Rat Head Using 31P-1H Volume Coil Assembly at 21.1 T **First Author:** Schepkin, V.D., NHMFL/FSU, schepkin@magnet.fsu.edu **PI:** Sherry, A.D., UT SW Medical Center, sherry@utdallas.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
169	**Title:** Protein-Protein Interactions Involved in the Assembly of Bacterial Nanoinjectors Defined by EPR Spectroscopy **First Author:** De Guzman, R.N., University of Kansas, Molecular Biosciences, rdguzman@ku.edu **PI:** De Guzman, R.N., University of Kansas, Molecular Biosciences, rdguzman@ku.edu **Category:** Biology **Facility:** EMR Facility **Highest Measured Field:** 3.5 T **UCGP: Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
172	**Title:** NMR Compatible Bioreactor with a Three Dimensional Cell Culture on Chip- Application of 23Na Triple Quantum Filtered NMR and MRI/S Methods **First Author:** Gottwald, E, Karlsruhe Institute of Technology, Germany, Institute for Biological Interfaces 5,	Edited

	eric.gottwald@kit.edu **PI:** Gottwald, E, Karlsruhe Institute of Technology, Germany, Institute for Biological Interfaces 5, eric.gottwald@kit.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** Yes **Publication Status:** Not at this time **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	
225	**Title:** Characterizing Blood Brain Barrier Breakdown with Status Epilepticus Brain Injury **First Author:** Sarntinoranont, M, University of Florida, Mechanical & Aerospace, msarnt@ufl.edu **PI:** Sarntinoranont, M, University of Florida, Mechanical & Aerospace, msarnt@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 17.6 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
272	**Title:** Characterization of p53 Modforms by Top-Down Mass Spectrometry at 21T **First Author:** DeHart, C.J., Northwestern University, National Resource for Translational and Developmental Proteomics, caroline.dehart@northwestern.edu **PI:** Kelleher, N.L., Northwestern University, National Resource for Translational and Developmental Proteomics, n-kelleher@northwestern.edu **Category:** Biology **Facility:** ICR Facility **Highest Measured Field:** 21 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
287	**Title:** Distinguishing Neuronal from Astrocytic Subcellular Microstructures Using in vivo Double Diffusion Encoded 1H MRS at 21.1 T **First Author:** Shemesh, N, Champalimaud Center of the Unknown, Neuroscience Programme, noam.shemesh@neuro.fchampalimaud.org **PI:** Frydman, L, Weizmann Institute, frydmanlucio@gmail.com **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** Yes **VSP:** Yes **Submitted to** NeuroImage **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
308	**Title:** Application of Temperature Sensitive Liposomes as a Diagnostic Tool in the Non-Invasive Tracking of Pancreatic Cancer Tumors **First Author:** Affram, K, FAMU, Department of Pharmacy, kevafframero@gmail.com **PI:** Agyare, E, FAMU, Department of Pharmacy, edward.agyare@famu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
310	**Title:** Aggregate-Derived Human Mesenchymal Stem Cell Improves Post-transplantation Cell Survival and Function Recovery in Rats MCAO Stroke Model **First Author:** Yuan, X.G., FAMU-FSU College of Engineering, Chemical and Biomedical Engineering, xy13b@my.fsu.edu **PI:** Ma, T., FAMU-FSU College of Engineering, Chemical and Biomedical Engineering, tma@fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
378	**Title:** Metabolic Assessment of a Migraine Model using Relaxation-Enhanced 1H Spectroscopy at Ultra-High Field	Edited

	First Author: Abad, N, Florida State University, Chemical & Biomedical Engineering, na10@my.fsu.edu **PI:** Harrington, MG, Huntington Medical Research Institutes, Neurosciences, mghworks@hmri.org **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** Yes **VSP:** No **Submitted to** Magnet. Reson. Med. **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	
379	**Title:** Dynamic Quantitative Imaging of Sodium in a Rodent Migraine Model at 21.1 T **First Author:** Abad, N, Florida State University, Chemical & Biomedical Engineering, na10@my.fsu.edu **PI:** Harrington, MG, Huntington Medical Research Institutes, Neurosciences, mghworks@hmri.org **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
380	**Title:** Electrical Conductivity Mapping at 21.1 T **First Author:** Amouzandeh, G, Florida State University, Physics, ga13d@my.fsu.edu **PI:** Grant, SC, Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** Yes **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
391	**Title:** Characterization of Brain Morphology in Mucopolysaccharidosis Type IIIB Affected Mice Using Magnetic Resonance Imaging **First Author:** Gilkes, J, UF, jgilkes@gmail.com **PI:** Heldermon, CD, UF, coy.heldermon@medicine.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 4.7 T **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
395	**Title:** Exposure to Excess Maternal Cortisol in Late-Gestation Prevents the Normal Metabolic Transition of the Heart at Birth **First Author:** Walejko, JW, University of Florida, Biochemistry & Molecular Biology, jwalejko@ufl.edu **PI:** Keller-Wood, MKW, University of Florida, Pharmacodynamics, kellerwd@cop.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
413	**Title:** Effects of Propionate on Pyruvate Dehydrogenase and Anaplerotic Flux in Mouse Hearts **First Author:** Merritt, ME, University of Florida, Department of Biochem. and Mol. Bio., matthewmerritt@ufl.edu **PI:** Merritt, ME, University of Florida, Department of Biochem. and Mol. Bio., matthewmerritt@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 14.1 T **UCGP:** No **VSP:** No **Submitted to** American Journal of Physiology: Heart and Circulation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
414	**Title:** The Southeastern Center for Integrated Metabolomics **First Author:** Merritt, ME, University of Florida, Bioch. and Mol. Biol., matthewmerritt@ufl.edu **PI:** Merritt, ME, University of Florida, Bioch. and Mol. Biol., matthewmerritt@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 14.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No	Edited

	Director's Recommendation: No **Director's Comments:** None	
426	**Title:** Rich Club Topology Distinguishes Short and Prolonged Functional Network Changes Caused by Potent 'Bath Salt' Drug **First Author:** Febo, M, University of Florida, Psychiatry, febo@ufl.edu **PI:** Febo, M, University of Florida, Psychiatry, febo@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 4.7 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
427	**Title:** Canonical Interferon-gamma Signaling Promotes Nigrostriatal Degeneration and Increases In Vivo Brain Free Water **First Author:** Febo, M, University of Florida, Psychiatry, febo@ufl.edu **PI:** Golde, TE, University of Florida, Neuroscience, febo@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 11.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
428	**Title:** In vivo Structural Abnormalities and Increased Free Water in Mice Showing Increased A 42 Accumulation **First Author:** Colon-Perez, LM, University of Florida, Psychiatry, lcolon@ufl.edu **PI:** Golde, TE, University of Florida, Neuroscience, febo@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 11.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
437	**Title:** Effect of Gardening on Brain Activation **First Author:** Penman, C, University of Florida, Environmental Horticulture, christyjohns001@gmail.com **PI:** Guy, C, University of Florida, Environmental Horticulture, clguy@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 3 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
481	**Title:** Spinal Cord MRI Water Diffusion Alterations are linked to Early Axonal Degeneration in the YFP, G93A-SOD1 Mice **First Author:** Gatto, RG, University of Illinois At Chicago, Department of Anatomy and Cell Biology, rgatto@uic.edu **PI:** Gatto, RG, University of Illinois At Chicago, Department of Anatomy and Cell Biology, rgatto@uic.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 17.6 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
482	**Title:** MR Microscopy of Single Mammalian Muscle Fibers and Nuclei Detection **First Author:** Lee, CH, UF, Neuroscience, chlee@mbi.ufl.edu **PI:** Blackband, SJ, UF, Neuroscience, sblackba@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 14.1 T **UCGP:** No **VSP:** No **Published in** Sci Reports 7:39496 (2017). **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** recently published work	Edited
485		Edited

	Title: MR Microscopy of Single Mammalian Cells at 900MHz **First Author:** Flint, JJ, UF, Neurosscience, jflint@mbi.ufl.edu **PI:** Blackband, SJ, UF, Neuroscience, sblackba@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 21.1 T **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
486	**Title:** Diffusion Functional MR Microscopy (DfMRM):- Towards the Cellular Level. **First Author:** Flint, JJ, UF, Neuroscience, jflint@mbi.ufl.edu **PI:** Flint, JJ, UF, Neuroscience, jflint@mbi.ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 14.1 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
496	**Title:** Consumer Judgment **First Author:** Lighthall, NR, University of Central Florida, Psychology, nichole.lighthall@ucf.edu **PI:** Lighthall, NR, University of Central Florida, Psychology, nichole.lighthall@ucf.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 3 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
499	**Title:** Lipid Saturation Profile in the Dystrophic Muscle and Serum **First Author:** Lee-McMullen , B, University of Florida , Physiology, leeba@stanford.edu **PI:** Walter, GA, University of Florida , Physiology, glennw@ufl.edu **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 14 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
500	**Title:** MR Biomarkers of Disease Progression and Response to Gene Therapy in a Mouse Model of Pompe Disease **First Author:** Baligand, C, Leiden University Medical Center, Radiology, C.A.J.Baligand@lumc.nl **PI:** Baligand, C, Leiden University Medical Center, Radiology, C.A.J.Baligand@lumc.nl **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 11 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
501	**Title:** The Role of Sarcolipin in Skeletal Muscle Metabolism as Determined by 31P and 1H NMR **First Author:** Periasamy, M, Sanford Burnham Prebys Medical Discovery Institute, mperiasamy@sbpdiscovery.org **PI:** Periasamy, M, Sanford Burnham Prebys Medical Discovery Institute, mperiasamy@sbpdiscovery.org **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 11 T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
502	**Title:** Structural Connectivity Within Neural Ganglia: A Default Small-World Network **First Author:** Ould Ismail, AAO, Florida State University, Chemical & Biomedical Engineering, aoo12@my.fsu.edu **PI:** Grant, SC, Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 11.75 T	Edited

	UCGP: **Yes** **VSP:** No **Published in** Neuroscience 337, 276-284 **Sign. Achievement:** **Yes** **Director's Recommendation: No** **Director's Comments:** None	
503	**Title:** DTI-Based Network Analysis of APP/PS1 Mouse Brains **First Author:** Hike, DC, Florida State University, Chemical & Biomedical Engineering, dch08c@my.fsu.edu **PI:** Grant, SC, Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** **Yes** **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation:** **Yes** **Director's Comments:** None	Edited
506	**Title:** Pharmacokinetic Studies of PEGylated Therapeutics Using in vivo 13C-Filtered 1H Magnetic Resonance Spectroscopy **First Author:** Hasabnis , A, University of Toronto, Chemistry, advait.hasabnis@mail.utoronto.ca **PI:** Prosser, RS, University of Toronto, Chemistry, scott.prosser@utoronto.ca **Category:** Biology **Facility:** MBI-UF AMRIS **Highest Measured Field:** 11.1 T **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
Total Reports: 40		