

List Of 2015 Reports

ID#	Title, First Author, and Category	Status
208	<p>Title: In Vivo Metabolic Profiling of Brain Rodent Models by Relaxation-Enhanced MRS of the Downfield 1H Region at 21.1 T First Author: Roussel, T., Weizmann Institute of Science, Israel, tangi.roussel@weizmann.ac.il PI: Frydman, L., Weizmann Institute of Science and NHMFL, frydman@magnet.fsu.edu Category: Magnet Resonance Technique and Development 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</p>	Approved
251	<p>Title: Giant Faraday Effect and Properties of Magnetic Metal Thin Films in Multilayer Photonic Structures First Author: Smith, K., University of Texas at San Antonio, Physics and Astronomy, ksmith1281@gmail.com PI: Chabanov, A.A., University of Texas at San Antonio, Physics and Astronomy, andrey.chabanov@utsa.edu Category: Magnet Resonance Technique and Development Facility: DC Field Facility Highest Measured Field: 3.5 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: Yes Director's Recommendation: Yes Director's Comments: None</p>	Approved
421	<p>Title: Expeditious Dissolution DNP without Glassing Agents for Dissolution DNP at 5 T First Author: Lama, B., University of Florida, Biochemistry and Molecular Biology, bimalalama@ufl.edu PI: Long, J.R., University of Florida, Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu Category: Magnet Resonance Technique and Development Facility: MBI-UF AMRIS Highest Measured Field: 5 T UCGP: No VSP: No Accepted by NMR in Biomedicine Sign. Achievement: No Director's Recommendation: Yes Director's Comments: Recent publication highlighting new DNP program</p>	Approved
438	<p>Title: In-Situ Electron Paramagnetic Resonance for Overhauser Dynamic Nuclear Polarization First Author: Dubroca, T.D., National High Magnetic Field Laboratory, dubroca@magnet.fsu.edu PI: Hill, S., National High Magnetic Field Laboratory, shill@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: EMR Facility 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</p>	Approved
454	<p>Title: Magnetic Resonance Electric Properties Tomography at 21.1 T First Author: Amouzandeh, G., Florida State University, Physics, ga13d@my.fsu.edu PI: Grant, S.C., Florida State University, Chemical & Biomedical Engineering, grant@magnet.fsu.edu Category: Magnet Resonance Technique and Development 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</p>	Approved
456	<p>Title: Gated Microwaves for DNP Solid State NMR Experiments First Author: Smith, A.N.S., University of Florida, Biochemistry & Molecular Biology, adams@ufl.edu PI: Long, J.R.L., University of Florida, Biochemistry & Molecular Biology, jrlong@mbi.ufl.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility 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</p>	Approved
	<p>Title: Effect of Different Radicals on Proton Hyperpolarization for Dissolution DNP First Author: Lama, B., University of Florida, Biochemistry and molecular biology, bimalalama@ufl.edu PI: Long, J.R., University of Florida, Biochemistry and molecular biology, jrlong@mbi.ufl.edu</p>	

457	<p>Category: Magnet Resonance Technique and Development Facility: MBI-UF AMRIS Highest Measured Field: 5 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
458	<p>Title: Mechanistic Insights into DNP Enhancements with the use of Spin Labeled Lipids First Author: Smith, A.N.S., University of Florida, Biochemistry & Molecular Biology, adams@ufl.edu PI: Long, J.R.L., Univeristy of Florida, Biochemistry & Molecular Biology, jrlong@mbi.ufl.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 14.1 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
468	<p>Title: Comparison of Susceptibility Artifacts in MREIT due to Different Electrode Materials First Author: Kasinadhuni, A.K.K., University of Florida, Biomedical Engineering, ak.kasinadhuni@ufl.edu PI: Mareci, T.H.M., University of Florida, Biochemistry, thmareci@ufl.edu Category: Magnet Resonance Technique and Development 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</p>	Approved
475	<p>Title: Instrumentation for Cyclotron Resonance and Electron Spin Resonance First Author: Beedle, C.C., NHMFL Los Alamos National Laboratory, beedle@lanl.gov PI: Beedle, C.C., NHMFL Los Alamos National Laboratory, beedle@lanl.gov Category: Magnet Resonance Technique and Development Facility: Pulsed Field Facility at LANL Highest Measured Field: 15 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
477	<p>Title: Augmented Tune/Match Circuits for High Performance Dual Nuclear Transmission Line Resonators First Author: Erickson, M.G., AMRIS/UF, gyromagnetic1@yahoo.com PI: Erickson, M.G., AMRIS/UF, gyromagnetic1@yahoo.com Category: Magnet Resonance Technique and Development Facility: MBI-UF AMRIS Highest Measured Field: 4.7 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: Yes Director's Recommendation: No Director's Comments: None</p>	Approved
480	<p>Title: Electron Paramagnetic Resonance Studies of the of the Heavy Fermion YbRh₂Si₂ First Author: Beedle, C.C., NHMFL Los Alamos National Laboratory, beedle@lanl.gov PI: Beedle, C.C., NHMFL Los Alamos National Laboratory, beedle@lanl.gov Category: Magnet Resonance Technique and Development Facility: Pulsed Field Facility at LANL Highest Measured Field: 15 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
481	<p>Title: Major Upgrade to 600 MHz Magic Angle Spinning Dynamic Nuclear Polarization System First Author: Dubroca, T.A.D., National High Magnetic Field Laboratory, dubroca@magnet.fsu.edu PI: Cross, T., National High Magnetic Field Laboratory, cross@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility 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</p>	Approved
	<p>Title: 1-H Quadrature Transceiver Surface Coil for IN VIVO Mice Imaging and Spectroscopy</p>	

497	<p>First Author: Elumalai, M., AMRIS,UF, malathy@ufl.edu PI: Mareci, T.H., UF, Biochemistry and Molecular Biology, thmareci@ufl.edu Category: Magnet Resonance Technique and Development Facility: MBI-UF AMRIS Highest Measured Field: 17.6 T UCGP: Yes VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
498	<p>Title: Selective Wirelessly Adjustable Multiple-Frequency Probe with Automatic Impedance Matching for MR Imaging and Spectroscopy First Author: Bashirullah, R., University of Florida, Electrical Engineering, rizwan@ufl.edu PI: Mareci, T.H., University of Florida, Biochemistry and Molecular Biology, thmareci@ufl.edu Category: Magnet Resonance Technique and Development 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</p>	Approved
500	<p>Title: Cantilever System to Reduce Phase Noise Caused by Vibrations in 11.1T First Author: Elumalai, M., AMRIS,UF, malathy@ufl.edu PI: Mareci, T.H., UF, Biochemistry and Molecular biology, thmareci@ufl.edu Category: Magnet Resonance Technique and Development Facility: MBI-UF AMRIS Highest Measured Field: 11.1 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
265	<p>Title: Enhanced MRI T2 Relaxivity of Nanostructured Iron Oxides on Graphene Oxide First Author: Thapa, B, University of Puerto Rico, Molecular Sciences Research Center, bibe.ch.thapa@gmail.com PI: Beltran-Huarac, J, University of Puerto Rico, Molecular Sciences Research Center, juan.beltran1@upr.edu Category: Magnet Resonance Technique and Development 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</p>	Approved
278	<p>Title: Solid State NMR Studies of A Paramagnetic Material—Li_{1.2}Ni_{0.13}Mn_{0.54}Co_{0.13}O₂ First Author: Li, X.L., FSU, chemistry, xl14e@my.fsu.edu PI: Hu, Y.Y.H., FSU, chemistry, hu@chem.fsu.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 7 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
279	<p>Title: Spin-Locking and Cross-Polarization under Magic-Angle Spinning of Uniformly Labeled Solids First Author: Hung, I., NHMFL, hung@magnet.fsu.edu PI: Gan, Z., NHMFL, gan@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 18.8 T UCGP: No VSP: No Published in J. Magn. Reson. 256//23-29 Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
281	<p>Title: Heteronuclear NOE in Direct ¹³C MAS DNP First Author: Hung, I., NHMFL, hung@magnet.fsu.edu PI: Gan, Z., NHMFL, gan@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 14.1 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No</p>	Approved

	<p>Director's Recommendation: No Director's Comments: None</p>	
329	<p>Title: NMR Mapping of the LTS Outsert for the New HTS-LTS R&D Magnet for High-Resolution Nuclear Magnetic Resonance Spectroscopy First Author: Litvak, I., FSU/NHMFL, litvak@magnet.fsu.edu PI: Brey, W.W., FSU/NHMFL, wbrey@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
391	<p>Title: Implementation of EPSI Sequence for dDNP 13C Metabolite in-vivo Imaging First Author: Collins, J.H.P., UF, Biochemistry and Molecular Biology, jhpcollins@ufl.edu PI: Long, J.R., UF, Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu Category: Magnet Resonance Technique and Development 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</p>	Approved
407	<p>Title: EPR Spectroscopy Towards Achieving Overhauser-DNP at 14.1T First Author: Akinfaderin, A., National High Magnetic Field Laboratory, EMR, aaa12g@my.fsu.edu PI: Hill, S.O., National High Magnetic Field Laboratory, EMR, shill@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: EMR Facility Highest Measured Field: 8.5 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
414	<p>Title: Investigation of the Effects of Glassing Matrix Deuteration and Gd3+ Doping on 13C Dynamic Nuclear Polarization at 5 Tesla First Author: Kiswandhi, A., University of Texas at Dallas, Physics, andhika.kiswandhi@utdallas.edu PI: Lumata, L.L., University of Texas at Dallas, Physics, lloyd.lumata@utdallas.edu Category: Magnet Resonance Technique and Development Facility: MBI-UF AMRIS Highest Measured Field: 5 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
416	<p>Title: Field Regulation Instrumentation for 1.5 GHz Series-Connected Hybrid (SCH) Magnet First Author: Litvak, I., Florida State University, NHMFL, litvak@magnet.fsu.edu PI: Brey, W.W., Florida State University, NHMFL, wbrey@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 7.1 T UCGP: No VSP: No Publication Status: Not at this time Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
3	<p>Title: Using the Continuous Time Random Walk Model to Quantify Anomalous Diffusion in Post Mortem 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: Magnet Resonance Technique and Development 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</p>	Approved
	<p>Title: The Development of the TQTPPI Imaging of 23Na+, 35Cl- and 39K+ at 21.1 T First Author: Neubauer, A.N., Heidelberg University, Computer Assisted Clinical Medicine, andreas.neubauer@medma.uni-heidelberg.de PI: Schepkin, V.S., National High Magnetic Field Laboratory, CIMAR, schepkin@magnet.fsu.edu</p>	

105	<p>Category: Magnet Resonance Technique and Development 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</p>	Approved
145	<p>Title: Development of a Spin-Echo EPI Acquisition Technique for MRE of the Mouse Brain First Author: Klatt, D.K., UIC, BioE, dklatt@uic.edu PI: Klatt, D.K., UIC, BioE, dklatt@uic.edu Category: Magnet Resonance Technique and Development 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</p>	Approved
151	<p>Title: 39K and 23Na Relaxation Times and MRI of Rat Head at 21.1 Tesla First Author: Nagel, A.N., DKFZ, Heidelberg, Germany, a.nagel@dkfz.de PI: Nagel, A.N., DKFZ, Heidelberg, Germany, a.nagel@dkfz.de Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 21.1 T UCGP: No VSP: Yes Submitted to NMR in Biomedicine Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
160	<p>Title: In vivo Triple Quantum Effects of Bound Potassium, Chloride and Sodium Ions at 21.1 T First Author: Schepkin, V.D., NHMFL/FSU, schepkin@magnet.fsu.edu PI: Budinger, T.F., Lawrence Berkeley National Laboratory/UCB, tfbudinger@lbl.gov Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 21 T UCGP: No VSP: No Publication Status: Manuscript in preparation Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
188	<p>Title: Effects of Dielectric Substrates on Resonance Frequency of Archimedean Spirals First Author: Hooker, J.W., Florida State University, National High Magnetic Field Laboratory, hooker@magnet.fsu.edu PI: Hooker, J.W., Florida State University, National High Magnetic Field Laboratory, hooker@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: NMR Facility Highest Measured Field: 14 T UCGP: Yes VSP: No Submitted to IEEE Trans. Appl. Supercond. Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
189	<p>Title: 1H-13C Dual-Optimized NMR Probe Based on Double-Tunes HTS Resonators First Author: Ramaswamy, V., Florida State University, National High Magnetic Field Laboratory, ramaswamy@magnet.fsu.edu PI: Brey, W.W., Florida State University, National High Magnetic Field Laboratory, wbrey@magnet.fsu.edu Category: Magnet Resonance Technique and Development Facility: MBI-UF AMRIS Highest Measured Field: 14 T UCGP: Yes VSP: No Submitted to IEEE Trans. Appl. Supercond. Sign. Achievement: No Director's Recommendation: No Director's Comments: None</p>	Approved
206	<p>Title: CEST-Weighted Imaging on Glioma Rodent Models: Strong Contrast Enhancement at 21.1 T First Author: Roussel, T., Weizmann Institute of Science, tangi.roussel@weizmann.ac.il PI: Frydman, L., Weizmann Institute of Science and NHMFL, frydman@magnet.fsu.edu Category: Magnet Resonance Technique and Development 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</p>	Approved

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