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| **List Of 2017 Reports**

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| **ID#** | **Title, First Author, and Category** | **Status** |
| [**360**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=360) |  **Title:** 13C/31P Tissue Metabolic Biomarkers in a Mouse Model of Pompe Disease **First Author:** Baligand, C, Leiden University Medical Center, Netherlands, Celine Baligand  **PI:** Walter, G, University of Florida , Physiology, glennw@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **Highest Measured Field:** 11 T **UCGP:** No    **VSP:** No   **Published in** Molecular Therapy 7: 42-49 (2017) **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** recently published | Approved |
| [**381**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=381) |  **Title:** Altered bioenergetics in skeletal muscle of young mdx mice **First Author:** Guice, K, University of Florida, kguice@ufl.edu **PI:** Forbes, SC, University of Florida, Physical Therapy, scforbes@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**404**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=404) |  **Title:** Connectivity changes after cognitive training in young and aged rats **First Author:** Colon-Perez, L, University of Florida, lcolon@ufl.edu **PI:** Burke, S, University of Florida, Neuroscience, burkes@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**220**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=220) |  **Title:** Correlating Learning and Memory Deficits to Changes in Perforant-Path Microstructure in the Aged Rat **First Author:** Robertson, K, University of Florida, Neuroscience, kimr@ufl.edu **PI:** Maurer, A.P., University of Florida, Neuroscience, drewmaurer@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **Highest Measured Field:** 17.4 T **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**409**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=409) |  **Title:** DREADDs-induced functional connectivity in a rat model of trigeminal pain **First Author:** Colon-Perez, L, University of Florida, lcolon@ufl.edu **PI:** Neubert, J, University of Florida, jneubert@dental.ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**380**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=380) |  **Title:** Effects of PDE5A inhibition on skeletal muscle T2 after low intensity treadmill training in dystrophic mice **First Author:** Forbes, SC, University of Florida, Department of Physical Therapy, scforbes@ufl.edu **PI:** Forbes, SC, University of Florida, Department of Physical Therapy, scforbes@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**407**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=407) |  **Title:** Elevated systemic expression of interleukin-6 modulates resting state functional connectivity in hippocampal and cortical areas **First Author:** Febo, M, University of Florida, febo@ufl.edu **PI:** Foster, T, University of Florida, foster1@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**182**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=182) |  **Title:** Forebrain knock-out of torsinA reduces striatal free-water and impairs whole-brain functional connectivity in a symptomatic mouse model of DYT1 dystonia **First Author:** DeSimone, JC, University of Florida, Applied Physiology & Kinesiology, desimonej@ufl.edu **PI:** Vaillancourt, DE, University of Florida, Applied Physioloy & Kinesiology, vcourt@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **Highest Measured Field:** 11 T **UCGP:** No    **VSP:** No   **Published in** Neurobiology of Disease 106: 124-132 **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** recently published work | Approved |
| [**184**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=184) |  **Title:** Free-water improves detection of changes in the substantia nigra in Parkinsonism: A multi-site study **First Author:** Ofori, E, University of Florida, Applied Physiology & Kinesiology, eofori@ufl.edu **PI:** Vaillancourt, DE, University of Florida, Applied Physioloy & Kinesiology, vcourt@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **Highest Measured Field:** 3 T **UCGP:** No    **VSP:** No   **Published in** Movement Disorders 32: 1457-1464 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**183**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=183) |  **Title:** Functional activity in the sensorimotor cortex and cerebellum relates to cervical dystonia **First Author:** Burciu, RG, University of Florida, Applied Physiology & Kinesiology, roxana.g.burciu@ufl.edu **PI:** Vaillancourt, DE, Applied Physioloy & Kinesiology, University of Florida, vcourt@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **Highest Measured Field:** 3 T **UCGP:** No    **VSP:** No   **Published in** Human Brain Mapping 38: 4563-4573 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**405**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=405) |  **Title:** Functional connectivity of chronic cocaine use relative to a baseline reveals progressive neuroadaptations in neocortical, striatal and limbic networks **First Author:** Orsini, C, University of Florida, orsini@ufl.edu **PI:** Febo, M, University of Florida, febo@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**211**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=211) |  **Title:** Investigating the Functional Diffusion-Signal Response (DfMRI) in Living, CA1 Pyramidal Neurons Undergoing Chemical Activation with Kainate **First Author:** Flint, J.J., University of Florida, Neuroscience, jflint@mbi.ufl.edu **PI:** Flint, J.J., University of Florida, Neuroscience, jflint@mbi.ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**97**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=97) |  **Title:** Live Real-Time MR Imaging of Drug-Delivery Systems **First Author:** Prosser, RS, University of Toronto, Chemistry, Biochemistry, scott.prosser@utoronto.ca **PI:** Prosser, RS, University of Toronto, Chemistry, Biochemistry, scott.prosser@utoronto.ca **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**336**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=336) |  **Title:** Mapping Perivascular Connectome in Whole Rat Brain in 3D **First Author:** Sarntinoranont, M., University of Florida, Mechanical and Aerospace Engineering, msarnt@ufl.edu **PI:** Mareci, T. H., University of Florida, Biochemistry and Molecular Biology, thmareci@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**406**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=406) |  **Title:** Neurite Orientation Dispersion and Density Imaging (NODDI) reveals in vivo microstructural alterations produced by synthetic psychoactive cathinone drug **First Author:** Colon-Perez, L, University of Florida, lcolon@ufl.edu **PI:** Febo, M, University of Florida, febo@ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**408**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=408) |  **Title:** Optogenetic excitation of neurons in the prefrontal cortex that express oxytocin receptors eliminates preference for social novelty in male mice **First Author:** Tan, Y, University of Florida, tanyalun920605@ufl.edu **PI:** Krause, E, University of Florida, ekrause@cop.ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**428**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=428) |  **Title:** RNA-nanoparticles to enhance and track dendritic cell migration **First Author:** Grippin, AJ, University of Florida, Neurosurgery, agrippin@ufl.edu **PI:** Mitchell, DA, University of Florida, Neurosurgery, Duane.Mitchell@neurosurgery.ufl.edu **Category:** Biology **Facility:** AMRIS Facility at UF **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 | Approved |
| [**208**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=208) |  **Title:** Structural Analysis of Axonal Degeneration by MRI diffusion in an ALS Mice Model **First Author:** Gatto, RG, University of Illinois at Chicago, Department of Anatomy and Cell Biology, rodogatto@gmail.com **PI:** Gatto, RG, University of Illinois at Chicago, Department of Anatomy and Cell Biology, rodogatto@gmail.com **Category:** Biology **Facility:** AMRIS Facility at UF **Highest Measured Field:** 17.6 T **UCGP:** No    **VSP:** **Yes**   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**17**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=17) |  **Title:** Coherent Spectroscopy at 25 Tesla in a Photosynthetic Protein Complex **First Author:** Maiuri, MM, Princeton Universitym, mmaiuri@princeton.edu **PI:** Scholes, GD, Princeton University, gscholes@princeton.edu **Category:** Biology **Facility:** DC Field Facility **Highest Measured Field:** 25 T **UCGP:** No    **VSP:** No   **Submitted to** Nature Chem.  **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**368**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=368) |  **Title:** Accurate Identification of Unknown and Known Metabolic Mixture Components by Combining 3D NMR with FT-ICR MS/MS  **First Author:** Wang, C, NHMFL, ICR, wang.6357@osu.edu **PI:** Bruschweiler, R, Ohio State University, Campus Chemical Instrument Center, bruschweiler.1@osu.edu **Category:** Biology **Facility:** ICR Facility **Highest Measured Field:** 21 T **UCGP:** No    **VSP:** No   **Published in** J. Proteome Res. 16/10/3774-3786 **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**356**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=356) |  **Title:** Analysis of Monoclonal Antibodies in Human Serum as a Model for Clinical Monoclonal Gammopathy by Use of 21 Tesla FT-ICR Top-Down and Middle-Down MS/MS **First Author:** He, L., NHMFL, ICR, lhe@magnet.fsu.edu **PI:** Barnidge, D, Mayo Clinic, Laboratory Medicine and Pathology, barnidge.david@mayo.edu **Category:** Biology **Facility:** ICR Facility **Highest Measured Field:** 21 T **UCGP:** No    **VSP:** No   **Published in** American Society for Mass Spectrometry 28/5/827-838 **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** None | Approved |
| [**369**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=369) |  **Title:** Mapping the Contact Surfaces in the Lamin A:AIMP3 Complex by Hydrogen/Deuterium Exchange FT-ICR Mass Spectrometry **First Author:** Tao, Y, Florida State University, Department of Chemistry and Biochemistry, ytao@magnet.fsu.edu **PI:** Guo, M, The Scripps Research Institute - Florida , Department of Cancer Biology, guomin@scripps.edu **Category:** Biology **Facility:** ICR Facility **Highest Measured Field:** 14.5 T **UCGP:** No    **VSP:** No   **Published in** PLoS ONE 12/8/1-19 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**364**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=364) |  **Title:** Ultrahigh-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry and Tandem Mass Spectrometry for Peptide de Novo Amino Acid Sequencing for a Seven-Protein Mixture by Paired Single-Residue Tranasposed Lys-N and Lys-C Digestion **First Author:** Guan, X, NHMFL, ICR, xguan@magnet.fsu.edu **PI:** Young, N, NHMFL, ICR, nyoung@magnet.fsu.edu **Category:** Biology **Facility:** ICR Facility **Highest Measured Field:** 14.5 T **UCGP:** No    **VSP:** No   **Published in** Rapid Commun. Mass Sp. 31/207-217 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**66**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=66) |  **Title:** 17O MRI of Rat Head 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 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**63**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=63) |  **Title:** Beyond Structural Biology to Functional Biology: Solid-State NMR Experiments and Strategies for Understanding the M2 Proton Channel Conductance **First Author:** Qin, H., FSU, Department of Chemistry & Biochemistry, hqin@chem.fsu.edu **PI:** Fu, R., NHMFL, rfu@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 18 T **UCGP:** No    **VSP:** No   **Published in** J. Phys. Chem. B vol.121, page 4799-4809 (2017) **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**316**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=316) |  **Title:** Characterization of Biosynthetic Lactate Metabolism in Cancer **First Author:** Wi, S, NHMFL, NMR, sungsool@magnet.fsu.edu **PI:** Ippolito, J, Washington University, School of Medicine, ippolitoj@wustl.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 18.8 T **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**301**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=301) |  **Title:** Fluorine-19 Magnetic Resonance at 21.1 Tesla to Detect Brain Inflammation **First Author:** Waiczies, S., Berlin Ultra High Field Facility, Sonia.Waiczies@mdc-berlin.de **PI:** Waiczies, S., Berlin Ultra High Field Facility, Sonia.Waiczies@mdc-berlin.de **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** No    **VSP:** **Yes**   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**359**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=359) |  **Title:** GlucoCEST Imaging of the Maternal-Fetal Interface in a Mouse Model at 21.1 T **First Author:** Helsper, S.N., National High Magnetic Field Laboratory, CIMAR, helsper@magnet.fsu.edu **PI:** Frydman, L, Weizmann Institute, Chemical Physics, lucio.frydman@weizmann.ac.il **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** **Yes**    **VSP:** **Yes**   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**347**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=347) |  **Title:** High Resolution Chemical Exchange Saturation-Transfer MRI at 21.1 T **First Author:** Roussel, T, CEA NeuroSpin, tangi.roussel@cea.fr **PI:** Frydman, L, Weizmann Institute of Science, Department of Chemical and Biological Physics, frydman@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21.1 T **UCGP:** **Yes**    **VSP:** **Yes**   **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**293**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=293) |  **Title:** High-resolution Magic-angle Spinning NMR Using 36 T SCH for Bio-solids **First Author:** Hung, I, NHMFL, CIMAR/NMR, hung@magnet.fsu.edu **PI:** Gan, Z, NHMFL, CIMAR/NMR, gan@magnet.fsu.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 35.2 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**55**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=55) |  **Title:** Site-Specific Signature of Rous Sarcoma Virus Capsid Protein to Switch Between Pentameric and Hexameric Assembly **First Author:** Qiao, X, University of Central Florida, Physics, qiaoxin628@gmail.com **PI:** Chen, B, University of Central Florida, Physics, bo.chen@ucf.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 14 T **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time **Sign. Achievement:** **Yes** **Director's Recommendation: Yes** **Director's Comments:** None | Approved |
| [**306**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=306) |  **Title:** Smart Thermosensitive Liposomes for Effective Solid Tumor Therapy and in vivo Imaging at 21.1 T **First Author:** Affram, K, FAMU, College of Pharmacy, kevafframero@gmail.com **PI:** Agyare, E, FAMU, College 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 | Approved |
| [**358**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=358) |  **Title:** Transplantation of MPIO Labeled hMSC Aggregates in a Rodent Ischemia Model **First Author:** Bagdasarian, FA, Florida State University, Chemical & Biomedical Engineering, fab12@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 | Approved |
| [**64**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=64) |  **Title:** Triple Quantum MR Signals From 9L Glioma Cells **First Author:** Schepkin, V.D., NHMFL/FSU, schepkin@magnet.fsu.edu **PI:** Gottwald, E., Karlsruhe Institute of Technology, Germany, eric.gottwald@kit.edu **Category:** Biology **Facility:** NMR Facility **Highest Measured Field:** 21 T **UCGP:** No    **VSP:** No   **Published in** Scientific Reports 7: 3943 (2017) **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None | Approved |
| [**287**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=287) |  **Title:** Ultrahigh-Field Iron MRI Microscopy of Macrophage Infiltration in Breast Cancer **First Author:** Leftin, A, MSKCC, avigdorleftin@gmail.com **PI:** Leftin, A, MSKCC, avigdorleftin@gmail.com **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 | Approved |
| **Total Reports: 35**  |

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