|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **List Of 2017 Reports**   |  |  |  | | --- | --- | --- | | **ID#** | **Title, First Author, and Category** | **Status** | | [**209**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=209) | **Title:** Gramicidin Ion Binding and Conductance: New Insights from 17O solid state NMR at 35T SCH Magnet.  **First Author:** Paulino, J, National High Magnetic Field Laboratory, paulino@magnet.fsu.edu  **PI:** Chekmenev, E, Vanderbilt-Ingram Cancer Center, eduard.chekmenev@vanderbilt.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 35.2 T  **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes, definitely**  **Director's Comments:** None | Approved | | [**39**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=39) | **Title:** Identification and Characterization of Human Proteoforms by TopDown LC-21 Tesla FT-ICR Mass Spectrometry   **First Author:** Anderson, L.C., National High Magnetic Field Laboratory, anderson@magnet.fsu.edu  **PI:** Kelleher, N.L., Northwestern University, n-kelleher@northwestern.edu  **Category:** Biochemistry  **Facility:** ICR Facility  **Highest Measured Field:** 21 T  **UCGP:** No    **VSP:** No   **Published in** J. Proteome Res. 16, 1087-1096 (2017)  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes, definitely**  **Director's Comments:** None | Approved | | [**307**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=307) | **Title:** Across the Tree of Life: Radiation Resistance Gauged by High-Field EPR  **First Author:** Sharma, A., Northwestern University, Chemistry, yaja.iisc@gmail.com  **PI:** Hoffman, B. M., Northwestern University, Chemistry, bmh@northwestern.edu  **Category:** Biochemistry  **Facility:** EMR Facility  **Highest Measured Field:** 14.9 T  **UCGP:** No    **VSP:** No   **Published in** P. Natl. Acad. Sci. U.S.A. 114/E9253 – E9260  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes, definitely**  **Director's Comments:** None | Approved | | [**291**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=291) | **Title:** Ultrahigh Field 17O Magic-Angle Spinning NMR using Series-Connected-Hybrid Magnet  **First Author:** Keeler, EG, Massachusetts Institute of Technololy, Department of Chemistry and Francis Bitter Magnet Laboratory, ek3044@columbia.edu  **PI:** Griffin, RG, Massachusetts Institute of Technololy, Department of Chemistry and Francis Bitter Magnet Laboratory, rgg@mit.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 35.2 T  **UCGP:** No    **VSP:** No   **Published in** J. Am. Chem. Soc. 10.1021/jacs.7b08989  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes**  **Director's Comments:** None | Approved | | [**84**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=84) | **Title:** Interactions of Protein Aggregates with Lipid Membranes Defined by Multi-Frequency EPR  **First Author:** Dalzini, A, NHMFL, adalzini@magnet.fsu.edu  **PI:** Pan, J, University of South Florida, panj@usf.edu  **Category:** Biochemistry  **Facility:** EMR Facility  **Highest Measured Field:** 1.5 T  **UCGP:** **Yes**    **VSP:** No   **Published in** J. Phys. Chem. B 121, 5058-5071  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes**  **Director's Comments:** None | Approved | | [**329**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=329) | **Title:** Metal Transporter ZIP14 (slc39a14) in Mice Increases Manganese Deposition and Produces Neurotoxic Signatures and Altered Motor Activity  **First Author:** Cousins, RJ, University of Florida, Food Science and Human Nutirition, cousins@ufl.edu  **PI:** Cousins, RJ, University of Florida, Food Science and Human Nutirition, cousins@ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 17.6 T  **UCGP:** No    **VSP:** No   **Published in** J. Neurosci. 37/5996-6006  **Sign. Achievement:** No  **Director's Recommendation: Yes**  **Director's Comments:** recently published work | Approved | | [**197**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=197) | **Title:** LIPID INTERDIGITATION PROMOTES THERMAL STABILIZATION OF LIPID POLYMORPHISMS INDUCED BY SURFACTANT PEPTIDE B1-25  **First Author:** Tran, NT, University of Florida, Chemistry, nhittran@ufl.edu  **PI:** Long, JR, University of Florida, Biochemistry and Molecular Biology, jrlong@mbi.ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 11.7 T  **UCGP:** No    **VSP:** No   **Published in** J. Phys. Chem. B 121, 9102-9112  **Sign. Achievement:** No  **Director's Recommendation: Yes**  **Director's Comments:** recently published | Approved | | [**202**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=202) | **Title:** Interactions between Model Membranes and Influenza Virus Protein M2-Derived Peptides Studied by EPR Techniques   **First Author:** Dalzini, A, NHMFL, adalzini@magnet.fsu.edu  **PI:** Pan, J, University of South Florida, panj@usf.edu  **Category:** Biochemistry  **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 | Approved | | [**205**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=205) | **Title:** Chemical Shift Anisotropy Determination of Fluorinated Amino Acids  **First Author:** Pomerantz, C. K., University of Minnesota, Chemistry, wcp@umn.edu  **PI:** Pomerantz, C. K., University of Minnesota, Chemistry, wcp@umn.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **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 | Approved | | [**340**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=340) | **Title:** Implementing a New Method (EKIT) for Measuring ATP Kinetics at 11 T  **First Author:** Sirusi, AS, UF , Biochemistry, ali.sirusi@ufl.edu  **PI:** Merritt, MM, University of Florida, Biochemistry and Mol. Bio., matthewmerritt@ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **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 | Approved | | [**341**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=341) | **Title:** Assessing Murine Cardiac Metabolism Using a 10 mm, 13C Optimized Cryoprobe  **First Author:** Ragavan, MR, UF, Biochemistry, mukundan@ufl.edu  **PI:** Merritt, MM, UF, Biochemistry and Mol. Bio., matthewmerritt@ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **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 | Approved | | [**342**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=342) | **Title:** Glycolysis and Gluconeogenesis in Real Time: Hyperpolarized Dihydroxyacetone in the Perfused mouse Liver  **First Author:** Ragavan, MR, UF, Biochemistry, mukundan@ufl.edu  **PI:** Merritt, MM, UF, Biochemistry and Mol. Bio., matthewmerritt@ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **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 | Approved | | [**343**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=343) | **Title:** Using Holmium-DOTA to Produce Superior DNP Enhancements at 5T  **First Author:** Sirusi, AS, UF, Biochemistry, ali.sirusi@ufl.edu  **PI:** Merritt, MM, UF, Biochemistry and Mol. Bio., matthewmerritt@ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 5 T  **UCGP:** No    **VSP:** No   **Published in** Phys. Chem. Chem. Phys. 2018/20/728-731  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**352**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=352) | **Title:** Conformations of DNA and Protein-DNA Complex Studied Using HiPER  **First Author:** Qin, P. Z., University of Southern California, Chemistry, pzq@usc.edu  **PI:** Qin, P. Z., University of Southern California, Chemistry, pzq@usc.edu  **Category:** Biochemistry  **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 | Approved | | [**367**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=367) | **Title:** Pih1p-Tah1p Puts a Lid on Hexameric AAA+ ATPases Rvb1/2p  **First Author:** Tian, S, Florida State University, Department of Chemistry and Biochemistry, st10h@my.fsu.edu  **PI:** Li, H, Florida State Univeristy, Department of Chemistry and Biochemistry, hli4@fsu.edu  **Category:** Biochemistry  **Facility:** ICR Facility  **Highest Measured Field:** 21 T  **UCGP:** No    **VSP:** No   **Published in** Structure 25/10/1519-1529  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**372**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=372) | **Title:** Structural Characterization of CwsA in a Lipid Bilayer Environment  **First Author:** Zhang, RZ, NHMFL, FSU, zhangrongfu@gmail.com  **PI:** Cross, TC, NHMFL, FSU, cross@magnet.fsu.edu  **Category:** Biochemistry  **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 | Approved | | [**377**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=377) | **Title:** Structural characterization of the N-terminus of CrgA using a transient NOE TOBSY pulse sequence with Gd3+ chelated lipids for PRE effect  **First Author:** Shin, Y., Florida State University/National High Magnetic Field Laboratory, Chemistry and Biochemistry/NMR, ys13e@my.fsu.edu  **PI:** Cross, T. A., Florida State University/National High Magnetic Field Laboratory, Chemistry and Biochemistry/NMR, cross@magnet.fsu.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 19 T  **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**411**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=411) | **Title:** Interaction of HIV gp41 with the Viral Membrane Studied by EPR  **First Author:** Song, L, NHMFL, song@magnet.fsu.edu  **PI:** Reinherz, E., Dana-Farber Cancer Institute, ellis\_reinherz@dfci.harvard.edu  **Category:** Biochemistry  **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 | Approved | | [**85**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=85) | **Title:** Controlling Enzyme Function Through Dynamics Allostery  **First Author:** Holliday, MH, Graduate Student, Biochemistry and Molecular Genetics, Michael.Holliday@ucdenver  **PI:** Holliday, MH, Graduate Student, Biochemistry and Molecular Genetics, Michael.Holliday@ucdenver  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 800 T  **UCGP:** No    **VSP:** No   **Published in** Structure   **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**94**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=94) | **Title:** Mechanism of Yeast N-glycosylation: Structural Characterization of Ost4p and its Mutant   **First Author:** Chaudhary, BC, Oklahoma State University, Chemistry, bharat.chaudhary@okstate.edu  **PI:** Mohanty, SM, Oklahoma State University, Chemistry, smita.mohanty@okstate.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 800 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**100**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=100) | **Title:** Interaction Between Model Membranes and a Lipopeptide Studied Using EPR  **First Author:** Dalzini, A, NHMFL, adalzini@magnet.fsu.edu  **PI:** Cai, J, University of South Florida, jianfengcai@usf.edu  **Category:** Biochemistry  **Facility:** EMR Facility  **Highest Measured Field:** 1.5 T  **UCGP:** **Yes**    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**102**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=102) | **Title:** Ultrafast Polarization Phase Selective (PPS) Studies: Areas of Fundamental Significance to Biochemistry/Biophysics  **First Author:** Kresimir Rupnik, KR, LSU , Chemistry, chrupn@lsu.edu  **PI:** Kresimir Rupnik, KR, LSU , Chemistry, chrupn@lsu.edu  **Category:** Biochemistry  **Facility:** DC Field Facility  **Highest Measured Field:** 25 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**106**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=106) | **Title:** Discovery of bioactive microbial metabolites via synthetic biology approaches  **First Author:** Ding, Y.D., University of Florida, yding@cop.ufl.edu  **PI:** Ding, Y.D., University of Florida, yding@cop.ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 5 T  **UCGP:** No    **VSP:** No   **Submitted to** ACS Synthetic Biology   **Sign. Achievement:** **Yes**  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**110**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=110) | **Title:** Protein-Protein Interactions Involved in the Assembly of Bacterial Nanoinjectors Defined by EPR Spectroscopy  **First Author:** De Guzman, RN, University of Kansas, rdguzman@ku.edu  **PI:** De Guzman, RN, University of Kansas, rdguzman@ku.edu  **Category:** Biochemistry  **Facility:** EMR Facility  **Highest Measured Field:** 1.5 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**136**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=136) | **Title:** Pharmacokinetic studies of a three-component complex that repurposes the front line antibiotic isoniazid against Mycobacterium tuberculosis   **First Author:** Manning, T.J., Valdosta State University, tmanning@valdosta.edu  **PI:** Manning, T.J., Valdosta State University, tmanning@valdosta.edu  **Category:** Biochemistry  **Facility:** ICR Facility  **Highest Measured Field:** 9.4 T  **UCGP:** No    **VSP:** No   **Published in** Tuberculosis 107, 149-155 (2017)  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**156**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=156) | **Title:** Development of Halogenated Phenazine Prodrugs and Antibiotic Conjugates as Antibacterial Therapeutics   **First Author:** Robert Huigens, RH, University of Florida, Medicinal Chemistry, rhuigens@cop.ufl.edu  **PI:** Robert Huigens, RH, University of Florida, Medicinal Chemistry, rhuigens@cop.ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 600 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**157**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=157) | **Title:** Ring Distortion of Vincamine Leads to Complex and Diverse Compounds for Drug Discovery   **First Author:** Robert Huigens, RH, University of Florida, Medicinal Chemistry, rhuigens@cop.ufl.edu  **PI:** Robert Huigens, RH, University of Florida, Medicinal Chemistry, rhuigens@cop.ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 600 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**169**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=169) | **Title:** EPR Study of the Biosynthesis of the MoFe cofactor of Nitrogenase  **First Author:** Hales, J, Louisiana State University, Chemistry, bhales@lsu.edu  **PI:** Hales, J, Louisiana State University, Chemistry, bhales@lsu.edu  **Category:** Biochemistry  **Facility:** EMR Facility  **Highest Measured Field:** 3.4 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**173**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=173) | **Title:** Compounds from the Cyanobacterium Oscillatoria obscura  **First Author:** Batucan, J, University of the Philippines, Marine Science Institute, lasreyes.upd@gmail.com  **PI:** Salvador-Reyes, L, University of the Philippines, Marine Science Institute, Lsreyes@msi.upd.edu.ph  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 16 T  **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**213**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=213) | **Title:** Analysis of the Cerebral Metabolic Shift Caused by Cocaine Administration  **First Author:** Downes, DP, University of Florida, Biochemistry and Molecular Biology, downes.daniel@gmail.com  **PI:** Febo, M, University of Florida, Psychiatry, marcelo.febo@gmail.com  **Category:** Biochemistry  **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 | | [**215**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=215) | **Title:** Analysis of the Cerebral Metabolic Shifts Caused by MDPV Administration   **First Author:** Downes, DP, University of Florida, Biochemistry and Molecular Biology, downes.daniel@gmail.com  **PI:** Febo, M, University of Florida, Psychiatry, febo@ufl.edu  **Category:** Biochemistry  **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 | | [**219**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=219) | **Title:** Understanding the Structure and Role of the CrgA Dimer in the M. tuberculosis Division Complex using the CrgA G44V Dimer Mutant, MAS NMR, and Interaction Assays  **First Author:** Taylor, J.A., National High Magnetic Field Lab, CIMAR, JoshuaATaylor@Live.com  **PI:** Cross, T.A., National High Magnetic Field Lab, Florida State University, CIMAR, Dept. of Biochemistry, Institute of Molecular Biophysics, cross@magnet.fsu.edu  **Category:** Biochemistry  **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 | Approved | | [**225**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=225) | **Title:** Development of a an Improved Rat Brain Phantom for MRI studies  **First Author:** Collins, JHP, University of Florida, Biochemistry & Molecular Biology, jhpcollins@ufl.edu  **PI:** Long, JR, University of Florida, Biochemistry & Molecular Biology, jrlong@mbi.ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **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 | Approved | | [**264**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=264) | **Title:** Conformations and Exchange Dynamics of FlgM, an Intrinsically Disordered Protein, in Dilute and Crowded Conditions  **First Author:** Smith, P.E., Florida State University, Institute of Molecular Biophysics, esmith3@fsu.edu  **PI:** Zhou, H.-X., University of Illinois-Chicago, Physics & Chemistry, hzhou4@fsu.edu  **Category:** Biochemistry  **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 | | [**265**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=265) | **Title:** The Binding of Cdc42 with Its Intrinsically Disordered Binding Partner, WASp GBD  **First Author:** Wu, D., Florida State University, Institute of Molecular Biophysics, dorckwu@gmail.com  **PI:** Zhou, H.-X., University of Illinois-Chicago, Physics & Chemistry, hzhou4@fsu.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 18.8 T  **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**277**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=277) | **Title:** Proton Detected MAS Solid-State NMR of LR11 TM in a Biological Environment  **First Author:** Ding, X., Pennsylvania State University, xding@pennstatehealth.psu.edu  **PI:** Tian, F., Pennsylvania State University, ftian@psu.edu  **Category:** Biochemistry  **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 | | [**283**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=283) | **Title:** Lipid Lateral Ordering Defined by High-Field EPR  **First Author:** Hayati, Z, NHMFL, zh13c@my.fsu.edu  **PI:** Song, L, NHMFL, song@magnet.fsu.edu  **Category:** Biochemistry  **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 | Approved | | [**284**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=284) | **Title:** Structural Data for Mtb LspA by Oriented Solid State NMR Spectroscopy  **First Author:** Qin, H, NHMFL, FSU, Chemistry & Biochemistry, hqin@chem.fsu.edu  **PI:** Cross, T, NHMFL, FSU, Chemistry & Biochemistry, Inst. Molecular biophysics, cross@magnet.fsu.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 18.8 T  **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**300**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=300) | **Title:** Toll Like Receptor-2 and 1TM-TM Interaction Studies by Solid State NMR Spectroscopy  **First Author:** Das, N, University of Colorado Boulder, Biofrontiers, nabanita.das@colorado.edu  **PI:** Yin, HH, University of Colorado Boulder, Biofrontiers, hubert.yin@colorado.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **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 | Approved | | [**302**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=302) | **Title:** Structural Characterization of FtsQ and FtsI N-terminal regions by NMR  **First Author:** Escobar, CA, NHMFL, ce10@my.fsu.edu  **PI:** Cross, TA, FSU/NHMFL, cross@magnet.fsu.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 18.8 T  **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**303**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=303) | **Title:** Protein conformation determined in native cellular environments  **First Author:** Costello, WC, University of Texas Southwestern Medical Center, Biophysics, whitney.costello@utsouthwestern.edu  **PI:** Frederick, KK, University of Texas Southwestern Medical Center, Biophysics, kendra.frederick@utsouthwestern.edu  **Category:** Biochemistry  **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 | Approved | | [**51**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=51) | **Title:** Apratoxin S10, a Dual Inhibitor of Angiogenesis and Cancer Cell Growth to Treat Highly Vascularized Tumors  **First Author:** Cai, W, University of Florida, Medicinal Chemistry, luesch@cop.ufl.edu  **PI:** Luesch, H, University of Florida, Medicinal Chemistry, luesch@cop.ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 0 T  **UCGP:** No    **VSP:** No   **Published in** ACS Medicinal Chemistry Letters 8 (1007-1012)  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**54**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=54) | **Title:** Solvent-driven Dynamical Cross-overs in Amyloid-beta Fibrils  **First Author:** Liliya Vugmeyster, LV, CU Denver, LILIYA.VUGMEYSTER@UCDENVER.EDU  **PI:** Liliya Vugmeyster, LV, CU Denver, LILIYA.VUGMEYSTER@UCDENVER.EDU  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 17 T  **UCGP:** No    **VSP:** No   **Published in** J. Phys. Chem. B   **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**25**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=25) | **Title:** Discovery of Protease Inhibitors from Marine Cyanobacteria Targeting Breast Cancer  **First Author:** Al-Awadhi, F, University of Florida, Department of Medicinal Chemistry, Center for Natural Products, Drug Discovery and Development (CNPD3), unknown@unkown.edu  **PI:** Luesch, H, University of Florida, Department of Medicinal Chemistry, Center for Natural Products, Drug Discovery and Development (CNPD3), luesch@cop.ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 0 T  **UCGP:** No    **VSP:** No   **Accepted by** J. Natural Products   **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**37**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=37) | **Title:** The repeat region of cortactin is intrinsically disordered in solution  **First Author:** Li, X, Yale University, Pharmacology, xiaofeng.li.xl25@yale.edu  **PI:** Boggon, TJ, Yale University, Pharmacology, titus.boggon@yale.edu  **Category:** Biochemistry  **Facility:** ICR Facility  **Highest Measured Field:** 1 T  **UCGP:** No    **VSP:** No   **Published in** Scientific Report 7:16696  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**308**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=308) | **Title:** Refining the Ensemble Conformation of Opa Extracellular Loops  **First Author:** Kieber, M, University of Virginia, Chemistry, mkk9bs@virginia.edu  **PI:** Columbus, L, University of Virginia, Chemistry, columbus@virginia.edu  **Category:** Biochemistry  **Facility:** EMR Facility  **Highest Measured Field:** 9 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**312**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=312) | **Title:** Development of State-of-the-Art Solid-State NMR Methods Suitable at Ultrahigh Magnetic Fields and Ultrafast MAS Spinning Rates  **First Author:** Wi, S, NHMFL, NMR, sungsool@magnet.fsu.edu  **PI:** Wi, S, NHMFL, NMR, sungsool@magnet.fsu.edu  **Category:** Biochemistry  **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 | | [**313**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=313) | **Title:** Structure determination of β-amyloid oligomers and investigation of their formation pathways  **First Author:** Wi, S, NHMFL, NMR, sungsool@magnet.fsu.edu  **PI:** Paravastu, A, Georgia Tech, Chemical and Biomolecular Engineering, anant.paravastu@chbe.gatech.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 11.75 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**315**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=315) | **Title:** Identification of Biochemical Changes in Cocaine-treated PC12 Cells  **First Author:** Wi, S, NHMFL, NMR, sungsool@magnet.fsu.edu  **PI:** Ramesh, B, Florida A&M University, Pharmacy & Pharmacological Sci., badisa66@gmail.com  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 18.8 T  **UCGP:** No    **VSP:** No   **Submitted to** Int J Neuropsychopharmacology   **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**319**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=319) | **Title:** Investigating the Transthyretin Amyloid Formation Mechanism Using Solid-State NMR  **First Author:** Dasari, AD, East Carolina University, Chemistry, dasaria13@students.ecu.edu  **PI:** Lim, KHL, East Carolina University, Chemistry, limk@ecu.edu  **Category:** Biochemistry  **Facility:** NMR Facility  **Highest Measured Field:** 19.6 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** **Yes**  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**320**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=320) | **Title:** NMR characterization of the C3 domain of Streptococcus mutans adhesin P1  **First Author:** Riviere, GL, University of Florida, University of Florida, gwladys.riviere@ufl.edu  **PI:** Joanna Long, Joann, University of Florida, University of Florida, jrlong@ufl.edu  **Category:** Biochemistry  **Facility:** AMRIS Facility at UF  **Highest Measured Field:** 14.1 T  **UCGP:** No    **VSP:** **Yes**   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**321**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=321) | **Title:** NMR structural characterization of Vp1u  **First Author:** Riviere, GL, University of Florida, University of Florida, gwladys.riviere@ufl.edu  **PI:** Joanna Long, Joann, University of Florida, University of Florida, jrlong@ufl.edu  **Category:** Biochemistry  **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 | | **Total Reports: 52** | | | |