

56th Rocky Mountain Conference on Magnetic Resonance
37th International EPR Symposium
Poster Presentations

Monday, July 14: 7:30-9:00 p.m. (Posters With Presenter Last Name Starting With M-Z)

Tuesday, July 15: 7:30-9:00 p.m. (Posters With Presenter Last Name Starting With A-L)

Monday	Kinetic Modeling of Competitive EPR Spin Trapping Systems for Carotenoid Radical Scavenging. Adam Magyar, University of Alabama
Monday	Exploring the Coordination Chemistry of Fe(II) at the Active Site of Tyrosine Hydroxylase. John McCracken, Michigan State University
Monday	Spin-dependent Processes in Polyfluorene Thin Films. Richards G Miller, University of Utah
Monday	Enhancing the Modulation Depth and Sensitivity in PELDOR Experiments at 94 GHz. Claire L Motion, University of St Andrews
Monday	Spin Dependent Trap Assisted Tunneling in Very Thin Dielectric Films of Technological Importance. Michael Mutch, Pennsylvania State University
Monday	Proton Matrix ENDOR Studies on the Role of Ca ion in the Mn Cluster in Photosystem II. Hiroki Nagashima, Nagoya University
Monday	Probing Defects of Graphene Oxide Through Manganese (II) Binding. Lyle C Nolasco, The College of New Jersey
Monday	To What Extent Do Antioxidants Play in Free Radical Formation After Sonication. Madeleine E Reardon, Smart Center, Steppingstone MAgnetic Resonance Training Center
Monday	L-band Rapid Scan EPR of Irradiated Solids. Yilin Shi, University of Denver
Monday	Submillimeter Wave ESR Measurements of Perovskite Antiferromagnet YCrO₃. Ikeda Shohei, Kobe University
Monday	Interaction of HIV gp41 With the Cholesterol-rich Viral Membrane Defined by Multi-frequency EPR. Likai Song, National High Magnetic Field Lab
Monday	Continuous Wave X-band EPR and CD Analysis of the Secondary Structure of Select IA₃ Variants. Zachary A Sorrentino, University of Florida
Monday	Transition Probabilities for General Excitation Geometries in cw EPR. Stefan Stoll, University of Washington
Monday	Photoinduced Dynamic Electron Polarization of Nitroxide Radicals Generated through Relaxation of Triplet State in Aqueous Phase. Hirona Takahashi, Tokyo Institute of Technology
Monday	Nanoscale EPR Spectroscopy Using a Single Spin Diamond Probe. Susumu Takahashi, University of Southern California

Monday	Free Radicals in Licorice-Flavored Sweets and their Detection in the Digestive System of Mice. Shreya Uppal, SMART Center
Monday	Antioxidant Levels in Beer as Measured by TEMPOL Reduction Rates and Formation of PBN. Kashmira Wani, Steppingstone Magnetic Resonance Training Center
Monday	Room-temperature Spin Cooperativity in Molecular Magnetoresistance. David P Waters, University of Utah
Monday	Rapid-Scan EPR of Immobilized Nitroxides. Zhelin Yu, University of Denver
Monday	Detection of Electron Spin-spin Interactions in Co(II)-nitroxyl Radical Spin Pairs by EPR. Serge D Zemerov, The College of New Jersey
Tuesday	Paramagnetic Viral Capsids as T2-Enhanced Magnetic Resonance Imaging (MRI) Contrast Agents at High Magnetic Fields. Priyanka Aggarwal, University of Denver
Tuesday	FEL Resonant Cavity Design Optimized for High Frequency EPR Applications. Nikolay Agladze, University of California Santa Barbara
Tuesday	Using Spin Labeled Calmodulin to Monitor the Domain Docking in nNOS. Andrei V. Astashkin, University of Arizona
Tuesday	Multiple Field DNP as an Efficient Means for Separation of Molecular Timescales. Ryan P Barnes
Tuesday	An Examination of Copper Speciation in Solutions Containing Coordinating Agents Using Electron Spin Resonance. Chris Bender, Fordham University
Tuesday	Comparison of Rapid Scan and CW Spectral-spatial Imaging at 250 MHz and Implementation of New Full-spectrum Reconstruction Method. Joshua R Biller, University of Denver
Tuesday	Mechanistic Modeling of the RNA Helicase YxiN by EPR Derived Distance Restraints. Morgan Bye, Weizmann Institute of Science
Tuesday	Overhauser Dynamic Nuclear Polarization (ODNP) Enhanced NMR at ~15 MHz for Studying Local Water Dynamics. Thomas M Casey, University of Florida
Tuesday	DEER Reveals cAMP and TRIP8b Induced Conformational Changes in HCN ion Channels. Hannah A DeBerg, University of Washington
Tuesday	Quantum Coherence in an Antisymmetric Exchange Coupled Copper Triangle. Dominik Dengler, Universität Stuttgart
Tuesday	Frequency Dependence of Semiquinone Electron Spin-lattice Relaxation Times in Solution at 293 K. Hanan B. Elajaili, University of Denver
Tuesday	Center for Electron Paramagnetic Resonance Imaging In Vivo Physiology. Boris Epel, University of Chicago
Tuesday	Oxygen-guided Intensity-modulated Radiation Therapy. Boris Epel, University of Chicago
Tuesday	Site-Directed Spin Labeling Evidence of the Leader-Linker Interaction in the Glycine Riboswitch using Electron Paramagnetic Resonance Spectroscopy. Jackie M Esquiaqui, University of Florida

Tuesday	Inhibition by Various Spices of Free Radical Formed by Xanthine-Xanthine Oxidase. Pranav Gopalakrishnan, Steppingstone MAgnetic Resonance Training Center
Tuesday	Electronic Structure Characterization of a Copper(II) Alkoxide Complex Reminiscent of the Galactose Oxidase Active Site. Ellen C Hayes, University of Washington
Tuesday	Probing the Dependence of the Electronic Structure of tTyptophan Radicals on Their Microenvironment. Ellen C Hayes, University of Washington
Tuesday	Orientations and Distance Distributions from Saturation Recovery EPR: Simulations with Dy(III), Co(II), and Cu(II) as Relaxation Enhancers. Donald Hirsh, The College of New Jersey
Tuesday	Frequency Agile Gyrotron for DNP and Electron Decoupling. Daniel E.M. Hoff, Washington University
Tuesday	Multi-spin Interactions in Organic Donor-acceptor Systems. Noah E Horwitz, Northwestern University
Tuesday	Characterization of Contributions of Solvent-Coupled Protein Configurational Dynamics to the Rearrangement Reaction in B12-Dependent Ethanolamine Ammonia-Lyase. Meghan Kohne, Emory University
Tuesday	Physical Nature of Electrically Detected Magnetic Resonance via Spin Dependent Trap Assisted Tunneling in Insulators. Patrick Lenahan, Pennsylvania State University