



Rev 04/11/07

EPR 2007: A Joint Conference of the 12th In Vivo EPR Spectroscopy and Imaging and the 9th International EPR Spin Trapping/Spin Labeling Hilton Suites Chicago/Magnificent Mile, April 29-May 3, 2007

Sunday, April 29	Monday, April 30	Tuesday, May 1	Wednesday, May 2	Thursday, May 3
	7:30am Continental Breakfast and Poster Viewing 8:00am Welcome Address 8:10am Hyde Symposium <i>(Lowell Kispert)</i> Coexisting Domains in the Plasma Membranes of Live Cells Characterized by Spin Label ESR Spectroscopy <i>(Jack Freed)</i> 8:50am Overview of In Vivo EPR for Use in Human Subjects <i>(Harold Swartz)</i> 9:30am Spin Probes of Muscle Protein Dynamics <i>(David Thomas)</i> 10:10am Break and Poster Viewing 10:40am Hyde Symposium, cont'd Electron Spin Relaxation Rates and the Use of Relaxation Enhancement to Measure Interspin Distances <i>(Sandra Eaton)</i> 11:20am Frequency Agile W-Band EPR Spectroscopy <i>(James Hyde)</i> 12:00pm Lunch	7:30am Continental Breakfast and Poster Viewing 8:00am EPR Instrumentation Symposium <i>(Klaus Moebius)</i> Rapid-Scan EPR Imaging <i>(Gareth Eaton)</i> 8:25am Synthetic EPR Spectrometry <i>(Wojciech Froncisz)</i> 8:50am Tunable Resonators and Automatic Control Techniques in Biomedical EPR Spectroscopy <i>(Hiroschi Hirata)</i> 9:15am Probing Functional States of Spin-Labeled Membrane Proteins by High-Field EPR Methods <i>(Klaus Moebius)</i> 9:40am Progress in Commercial In Vivo EPR Spectroscopy and Imaging <i>(Peter Hofer)</i> 10:00am Break and Poster Viewing 10:30am Spin Trap and Spin Label Synthesis Symposium <i>(Gerald Rosen)</i> Development of New Functional Nitroxide Probes for Noninvasive ESR Spectroscopy and Imaging <i>(Igor Grigor'ev)</i> 11:00am Generation of Free Radicals by Photosensitizers and its Conjugates: Targeted PDT <i>(Lev Weiner)</i> 11:30am Synthesis of Persistent Deuterated Trityl Spin Probes for High Resolution in vivo EPR Oxymetric Imaging <i>(Viresh Rawal)</i> 12:00pm Group Photo 12:15pm Lunch 2:00pm Spin Trapping Applications in Biology and Medicine Symposium <i>(Ronald Mason)</i> Superoxide Anion Radical Release from Endothelial Nitric Oxide Synthase – A Tetrahydrobiopterin Dependent Process <i>(Jeannette Vasquez-Vivar)</i> 2:30pm Improvement in the Trapping of Superoxide with DEPMPO and DEPMPO Analogs <i>(Paul Tordo)</i> 3:00pm Do-It-Yourself Detection of Protein and DNA Free Radicals in Organelles, Cells, and Tissues <i>(Ronald Mason)</i> 3:30pm The Reaction of Nitrite with Oxy and Deoxy Hemoglobin <i>(Neil Hogg)</i> 4:00pm Break and Poster Viewing 4:30pm Spin Trap and Spin Label Synthesis and Spin Trapping Applications in Biology and Medicine – Abstract Presentations <i>(Maria Kadiiska)</i> Dinitrosyl Iron Complexes with Thiolate Ligands as Future Medicines: EPR and Physiological Studies <i>(Anatoly Vanin)</i> 4:45pm EPR Spin Trapping of Nitric Oxide and MR Imaging of the Microvasculature in the Normal and Septic Shock Rat Brain at 8T <i>(Lawrence Berliner)</i> 5:00pm Spin Trapping of Free Radicals In Vivo: Applications to Cadmium Ingestion <i>(Maria Kadiiska)</i> 5:15pm Understanding the Reactivity of Superoxide Radical Anion with Cyclic Nitrones: The Role of Intramolecular H-Bond and Electrostatic Effects <i>(Frederick Villamena)</i> 5:30pm Free Radical Production Requires Both iNOS and Xanthine Oxidase in Lipopolysaccharide-Treated Skin <i>(Kozo Nakai)</i> 5:45pm Novel Fluorescent Spin Traps <i>(Wolfgang Trommer)</i> 6:00pm Poster Viewing and Cash Bar 9:30pm Adjourn	7:30am Continental Breakfast and Poster Viewing 8:30am Distance Measurements by Pulse EPR Symposium <i>(Candice Klug)</i> Molecular Mechanisms of Signal Transduction: Inferences from Site-Directed Spin Labeling and DEER Spectroscopy <i>(Ned Van Eps)</i> 9:00am Protein Misfolding and Protein-Membrane Interaction Studied by Site-Directed Spin Labeling <i>(Ralf Langen)</i> 9:30am From EPR to Structure: Computational Modelling of EPR - Label Dynamics and Conformation <i>(Peter Fajer)</i> 10:00am Break and Poster Viewing 10:30am Distance Measurements by Pulse EPR Symposium, cont'd Lipid as an Integral Component of the Structure of Voltage-Dependent Potassium Channels <i>(Adrian Gross)</i> 11:00am Structural Studies of the Cytoplasmic Domain of Band 3 Protein Using EPR and DEER Spectroscopies <i>(Eric Hustedt)</i> 11:30am Determining Transport and Signaling Mechanisms in a Membrane Transport Protein by Site-Directed Spin Labeling <i>(David Cafiso)</i> 12:00pm Lunch 2:00pm Spin Label Bioreduction & EPR in Biomedicine Symposium <i>(Tadeusz Sarna/Hideo Utsumi)</i> Utilization of Nitroxyl Radicals as Probes for Simultaneous Molecular Imaging of Free Radical Reactions in Disease Models Monitored by Overhauser-Enhanced MRI <i>(Hideo Utsumi)</i> 2:30pm Antioxidant Properties of Plasmalogens: Interaction with Singlet Oxygen and Free Radicals <i>(Tadeusz Sarna)</i> 3:00pm Imaging Tumor Physiology: Redox Status <i>(James Mitchell)</i> 3:30pm Pharmacodynamics of Nitroxyl Spin Probes in In Situ Rodent Liver Perfusion System <i>(Kazuhiro Ichikawa)</i> 4:00pm Break and Poster Viewing 4:30pm Imaging – Abstract Presentations Assessment of Radiation Mediated Gene Therapy via Multi-Modality Imaging (Chad Haney) 4:45pm Spin Uniform Data Distribution for 4D EPR Imaging <i>(Rizwan Ahmad)</i> 5:00pm High Resolution 2D and 3D EPR Molecular Imaging of Melanin in Melanomas <i>(Bernard Gallez)</i> 5:15pm Reduced Acquisition Spectral-Spatial EPR Oximetry <i>(Subhojit Som)</i> 5:30pm Adjourn 6:30pm Conference Banquet	7:30am Continental Breakfast and Poster Viewing 8:30am Radiation Dosimetry and Effects Symposium <i>(Harold Swartz)</i> Achieving Requirements for Dosimetry for Management of Potential Radiation Exposures to a Large Population <i>(Harold Swartz)</i> 8:55am Electron Paramagnetic Resonance Dosimetry in Fingernails <i>(Alex Romanyukha)</i> 9:20am Improvements in Hardware, Experimental Procedures, and Data Analysis for Rapid and Accurate In Vivo Tooth Dosimetry <i>(Artur Sucheta)</i> 9:45am Break and Poster Viewing 10:15am Radiation Dosimetry and Effects Symposium, cont'd Experimental Procedure to Improve Rapid and Accurate Positioning of the Resonator on the Tooth: In Vivo Tooth Dosimetry <i>(Ruhong Dong)</i> 10:40am Statistical Precision Assessment for In Vivo EPR Tooth Dosimetry Using Inverse Regression and Confidence Interval <i>(Eugene Demidenko)</i> 11:05am IES Silver Medal Lecture: Challenges and New Frontiers in EPR Imaging <i>(Jay Zweier)</i> 11:45am Closing Remarks <i>(Lawrence Berliner)</i> 12:00pm Adjourn
2:00pm Registration	2:00pm EPR Imaging and Spectroscopy Applications Symposium <i>(Murali Krishna/Periannan Kuppusamy)</i> Oxygen-Sensing in Myocardial Stem-Cell Therapy <i>(Periannan Kuppusamy)</i> 2:30pm Evaluation of Tumor Oxygen Status using Electron Paramagnetic Resonance Imaging <i>(Murali Krishna)</i> 3:00pm EPR Imaging Oxymetry Predicts Tumor Radiation Curability <i>(Martyna Elas)</i> 3:30pm Clinical EPR Oximetry: From Head to Toe <i>(Benjamin Williams)</i> 4:00pm Break and Poster Viewing 4:30pm EPR Imaging and Spectroscopy Techniques – Short Oral Communications <i>(Sankaran Subramanian)</i> Pulsed Imaging in Vivo at 250 MHz <i>(Boris Epel)</i> 4:45pm A New Strategy for Fast CW EPR Imaging: Direct Detection with Simultaneous Rapid-Scan and Rotating Gradients <i>(Sankaran Subramanian)</i> 5:00pm Resolution of Oxygen in EPR Images <i>(Gadesetti Chandramouli)</i> 5:15pm Targeted Imaging of a Region of Interest in EPRI <i>(Xiochuan Pan)</i> 5:30pm Imaging – Abstract Presentations Response of Orthotopic 9L Gliomas to Irradiation and Hyperoxygenation: A HSR-MS Oximetry Study <i>(Nadeem Khan)</i> 5:45pm Three Dimensional Electron Spin Resonance Imaging (ESRI) of Endogenous Nitric Oxide Radicals Generated in Living Plants <i>(Baolu Zhao)</i> 6:00pm Poster Viewing and Cash Bar 9:30pm Adjourn			
7:00pm Welcome Reception				