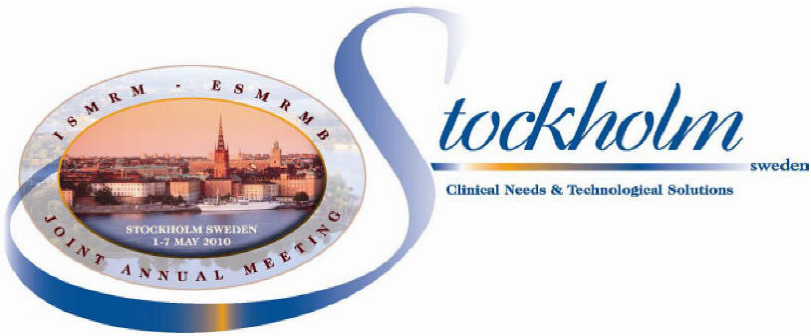
Beth Israel Deaconess Medical Center
Harvard Medical School, Boston, MA • USA

Guide to BIDMC Scientific Sessions Courses & Exhibits



International Society for Magnetic Resonance in Medicine (ISMRM)
Annual Meeting
1-7 May, 2010
Stockholm International Fairs Conference Center
Stockholm, Sweden

Sunday 2 May	
Rm K2	**Weekend Educational Course:** **Body MR: Clinical Applications and New Directions**
11:00	MRI of Renal Masses - **Ivan Pedrosa, M.D.**
14:30	Dealing with Artifacts in Abdominal MRI - **Neil M. Rofsky, M.D.**

Monday 3 May	
3664 14:00 Computer 35	Retrospective Estimation of 3D Respiratory Motion Vectors in Coronary MRI. **Alan Christopher O'Connor, Mehdi Hedjazi Moghari, Peng Hu, Dana C. Peters, Warren J. Manning, Reza Nezafat,** Roger Ware Brockett
1236 Poster 14:00-16:00	Contrast-Enhanced Whole Heart Coronary MRI with Bolus Infusion of Gadobenate Dimeglumine at 1.5T. **Peng Hu**, Jonathan Chan, Jouke Smink, **Beth Goddu**, **Kraig V. Kissinger**, **Lois A. Goepfert**, **Thomas H. Hauser**, **Neil M. Rofsky**, **Warren J. Manning**, **Reza Nezafat**
1246 Poster 14:00-16:00	Retrospective Motion-Adapted Smart Averaging for Free-Breathing Cardiac MRI. **Alan Christopher O'Connor, Mehdi Hedjazi Moghari, Peng Hu, Dana C. Peters, Warren J. Manning, Reza Nezafat,** Roger Ware Brockett
1247 Poster 14:00-16:00	CoSMo: Compressed Sensing Motion Correction for Coronary MRI. **Mehdi Hedjazi Moghari, Mehmet Akçakaya, Alan O'Connor, Peng Hu,** Vahid Tarokh, **Warren J. Manning, Reza Nezafat**
1412 Poster 14:00-16:00	Non-Contrast Enhanced Pulmonary Vein MRA with a Spatially Selective Inversion Preparation Sequence. **Peng Hu, Michael L. Chuang, Thomas H. Hauser, Kraig V. Kissinger, Beth Goddu, Lois A. Goepfert, Neil M. Rofsky, Warren J. Manning, Reza Nezafat**
1770 Poster 14:00-16:00	Eliminating the Partition Coefficient from ASL Perfusion Quantification with a Homogeneous Contrast Reference Image. **Weiying Dai**, Philip M. Robson, Ajit Shankaranarayanan, **David C. Alsop**
2071 Poster 14:00-16:00	Surface-Based Analysis of Subpial T2*signal Changes at 7T in Multiple Sclerosis. Julien Cohen-Adad, Douglas Greve, Thomas Benner, Amy Radding, **R. Philip Kinkel**, Bruce R. Rosen, Bruce Fischl, Caterina Mainero
2883 Poster 14:00-16:00	Synthetic Target Combined with PILS (ST-PILS) for Improving SNR in Parallel Imaging. Meihan Wang, Weitian Chen, Michael Salerno, **Peng Hu**, Christopher M. Kramer, Craig Meyer

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2886 Poster 14:00-16:00	Noise Weighted T2*-IDEAL Reconstruction for Non-Uniformly Under-Sampled k-Space Acquisitions. Curtis Nathan Wiens, Shawn Joseph Kisch, Catherine D. G. Hines, Huanzhou Yu, Angel R. Pineda, Philip M. Robson, Jean H. Brittain, Scott B. Reeder, Charles A. McKenzie

Tuesday 4 May	
4314 13:30 Computer 76	Elimination of T1 Weighting in FLAIR by Optimized Double IR – Could This Be the Only T2-Weighted Sequence Needed? **Ananth J. Madhuranthakam, Subhendra N. Sarkar,** Reed F. Busse4, **David C. Alsop**
1778 Poster 13:30-15:30	Arterial Spin Labelling Characterisation of Renal Medullary Perfusion. Philip M. Robson, **David C. Alsop**
1781 Poster 13:30-15:30	Isotropic Resolution 3D Fast Spin Echo Acquisition for Quantitative Arterial Spin Labelled Perfusion Imaging in the Kidneys. **Philip M. Robson**, **Ananth J. Madhuranthakam**, **David C. Alsop**
1963 Poster 13:30-15:30	Perfusion Networks in Parkinson's Disease Revealed Using Arterial Spin Labeling. Tracy R. Melzer, Richard Watts, Michael R. MacAskill, Ross Keenan, Ajit Shankaranarayanan, **David C. Alsop**, Charlotte Graham, Leslie Livingston, John C. Dalrymple-Alford, Tim J. Anderson
1978 Poster 13:30-15:30	Hippocampus Perfusion Studies of Gulf War Veterans Using OPTIMAL FAIR. Xiufeng Li, **Subhendra N. Sarkar**, David E. Purdy, Qihua Lin, David M. Buhner, Robert W. Haley, Richard W. Briggs
2130 Poster 13:30-15:30	Relationship Between Serum Inflammatory Markers, Regional Brain Volumes, and Perfusion in Older Diabetic Subjects. **Peng Zhao, Vera Novak, Kun Hu, Medha Munshi, David Alsop**, Amir Abduljalil, Peter Novak
2501 Poster 13:30-15:30	Breast Perfusion Imaging Using Arterial Spin Labeling. Misung Han, Brian A. Hargreaves, Bruce L. Daniel, **David C. Alsop**, Philip M. Robson, Eric Han, Pauline W. Worters, Ajit Shankaranarayanan
2978 Poster 13:30-15:30	Imaging of Renal Stones *in Vitro* with UTE MRI. Aya Yassin, **Ivan Pedrosa**, **Michael Kearney**, **Elizabeth Genega**, **Neil M. Rofsky**, **Robert E. Lenkinski**

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Tuesday 4 May	
3058 Poster 13:30-15:30	MOtion Correction Using Coil Arrays (MOCCA). **Peng Hu, Mehdi H. Moghari, Beth Goddu, Lois A. Goepfert, Thomas H. Hauser1, Warren J. Manning, Reza Nezafat**
5012 14:00 Computer 120	Retrospective Bellows-Based Reconstruction for Cardiac MRI: Preliminary Experience. **Claudio Santelli, Reza Nezafat, Warren J. Manning,** Sebastian Kozerke, **Dana C. Peters**
3670 14:30 Computer 35	Prospective Projection-Based Respiratory Whole-Heart Coronary MRI with Patient-Specific Tracking Factor. **Mehdi Hedjazi Moghari, Peng Hu,** Christian Stoeck, Jouke Smink**, Dana C. Peters, Beth Goddu, Lois Goepfert, Warren J. Manning, Reza Nezafat**
4524 14:30 Computer 89	*In Vivo* Studies on a Hyperpolarized Choline Contrast Agent: Design and Implementation of a New Biomarker. Hyla Allouche-Arnon, **Aaron K. Grant, Elena Vinogradov, Xiaoen Wang, Robert E. Lenkinski,** Ayelet Gamliel, Ruppen Nalbandian, Lucio Frydman, John Moshe Gomori, Claudia Monica Barzilay, Rachel Katz-Brull
4079 15:00 Computer 61	Regional Distribution, Laterality, and Reliability of Volumetric Cerebral Perfusion Imaging in Healthy Adults. Adolf Pfefferbaum, Ajit Shankaranarayanan, **David Alsop**, Sandra Chanraud, Anne-Lise Pitel, Torsten Rohlfing, Edith V. Sullivan
4870 15:00 Computer 111	Impact of Coil Sensitivity Estimation on MRI Reconstruction Methods Combining Compressed Sensing and Parallel MRI. **Seunghoon Nam, Mehmet Akçakaya, Peng Hu, Warren Manning,** Vahid Tarokh, **Reza Nezafat**
5142 15:00 Computer 128	Amide Proton Transfer Imaging with Improved Robustness to Magnetic Field Inhomogeneity. Rachel Scheidegger**, Elena Vinogradov, David C. Alsop**

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Wednesday 5 May	
349 11:42 Rm A1	Compressed Sensing with Transform Domain Dependencies for Coronary MRI. **Mehmet Akçakaya**, **Seunghoon Nam**, **Peng Hu**, **Warren Manning**, Vahid Tarokh, **Reza Nezafat**
381 12:18 Rm A5	*In Vivo* L-COSY MR Distinguishes Glutamate from Glutamine and Shows Neuropathic Pain to Cause a Buildup of Glutamine in the Brain. Alexander Peter Lin, Saadallah Ramadan, Peter Stanwell, Tuan Luu, **James Celestin**, Zahid Bajwa, Carolyn Mountford
386 11:18 Rm A6	Contribution of Subpial Pathology to Cortical Thinning in Multiple Sclerosis: A Combined 7T - 3T MRI Study. Caterina Mainero, Thomas Benner, Amy Radding, Andre van der Kouwe, **R. Philip Kinkel**, Bruce R. Rosen
815 Poster 13:30-15:30	dGEMRIC Evaluation 9 to 20 Years After Autologous Chondrocyte Implantation in the Knee. Barbro Danielson, Haris Vasiliadis, Maria Ljungberg, Sowmya Vijayakumar, **Nitya Krishnan**, **Deborah Burstein**, Lars Peterson, Brian McKeon
820 Poster 13:30-15:30	Evaluation of the Ability of Delayed Gadolinium-Enhanced MRI (DGEMRIC) to Detect Change in Cartilage Characteristics Among Individuals with Knee Osteoarthritis (OA) Receiving a Collagen Hydrolysate Formulation. **Nitya Krishnan**, Timothy McAlindon, Melynn Nuite, Kimberly Carr, **Deborah Burstein**, Lori Lyn Price, Klaus Flechsenhar
833 Poster 13:30-15:30	Preliminary Evaluation of Potential Disease Modification by Hylan G-F 20 (Synvisc®) Using DGEMRIC. Pottumarthi Prasad, Wei Li, Thomas Schnitzer, **Nitya Krishnan**, **Deborah Burstein**
1024 Poster 13:30-15:30	Modeling of Pyruvate/Lactate Kinetics Using a Two-Site Exchange Model. **Aaron K. Grant, Elena Vinogradov, Pankaj K. Seth, Xiaoen Wang, Robert E. Lenkinski, Vikas P. Sukhatme**
1288 Poster 13:30-15:30	Comparison of Gd-BOPTA and Gd-DPTA Late Gadolinium Enhancement for Visualizing Scar, Using Valve Enhancement as a Surrogate for Scar Adjacent to Blood. **Dana C. Peters, Reza Nezafat, Peng Hu, Yuchi Han, Warren J. Manning**
2522 Poster 13:30-15:30	Free-Breath DCE MRI for Solitary Pulmonary Nodule with Motion Correction Based on Non-Rigid Image Registration. Junichi Tokuda, Hatsuho Mamata, Ritu R. Gill, Samuel Patz, Nobuhiko Hata, **Robert E. Lenkinski**, David J. Sugarbaker, Hiroto Hatabu

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Wednesday 5 May	
2653 Poster 13:30-15:30	SSFP Diffusion Prepared SSFSE. **Weiying Dai**, Philip M. Robson, **David C. Alsop**
2904 Poster 13:30-15:30	Bipolar 3D-FSE-IDEAL: Fast Acquisition of Volumetric T2-Weighted Fat and Water. **Ananth J. Madhuranthakam**, Huanzhou Yu, Ann Shimakawa, **Martin P. Smith**, Scott B. Reeder, **Neil M. Rofsky**, Charles A. McKenzie, Jean H. Brittain
2906 Poster 13:30-15:30	Flexible and Efficient Data Acquisition Technique for 3D-FSE-IDEAL. **Ananth J. Madhuranthakam**, Huanzhou Yu, Ann Shimakawa, **Martin P. Smith**, Scott B. Reeder, **Neil M. Rofsky**, Charles A. McKenzie, Jean H. Brittain
2984 Poster 13:30-15:30	CEST and Sodium Imaging of Glycosaminoglycans *In-Vivo* on the 3T: Preliminary Results. **Elena Vinogradov, Alexander Ivanishev, Aaron K. Grant, Ron N. Alkalay, David B. Hackney, Robert E. Lenkinski**
2985 Poster 13:30-15:30	Detection of Glycosaminoglycans Using Positive CEST Approach. **Elena Vinogradov, Robert E. Lenkinski**
2987 Poster 13:30-15:30	Optimization of RF Saturation to Minimize B0 Inhomogeneity Effects in Pulsed Amide Proton Transfer Imaging. Rachel Scheidegger**, Elena Vinogradov, David C. Alsop**
3782 14:00 Computer 42	Non-Contrast Enhanced Pulmonary Vein MRA with Compressed Sensing. **Mehmet Akçakaya, Peng Hu,** Vahid Tarokh**, Warren J. Manning, Reza Nezafat**
4703 14:00 Computer 100	Contrast Edited T2 SSFSE: A Potential Alternative to Diffusion Weighted EPI for MRI Screening. **Ananth J. Madhuranthakam**, Aya Yassin, Jean H. Brittain, **David C. Alsop**, **Neil M. Rofsky**
3271 15:00 Computer 7	Monitoring Response of Tumors to Anti-Glycolytic Therapies Using Hyperpolarized Pyruvate. **Aaron K. Grant, Pankaj K. Seth, Elena Vinogradov, Xiaoen Wang, Robert E. Lenkinski, Vikas P. Sukhatme**
4321 15:00 Computer 76	Evidence of Distributed Subpial T2* Signal Changes at 7T in Multiple Sclerosis: An Histogram Based Approach. Caterina Mainero, Carlos Lima, Julien Cohen-Adad, Doug Greve, Amy Radding, Thomas Benner, **R. Philip Kinkel**, Bruce Fischl, Bruce R. Rosen
4593 15:00 Computer 93	Gd-EOB-DTPA Combined with Gd-DTPA: Hepatobiliary Contrast with Familiar Hepatic Dynamic Contrast Enhancement. **Jesse L. Wei, Kimiknu Mentore, Martin P. Smith, Neil M. Rofsky**

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Wednesday 5 May	
483 16:12 Rm A8	3D Whole Heart CSPAMM Tagging in a Single Breath Hold Using K-T-PCA. **Christian Torben Stoeck**, **Reza Nezafat**, Peter Boesiger, Sebastian Kozerke
434 16:24 Victoria Hall	fMRI and Dynamic Causal Modeling Reveal Inefficient and Imbalanced Network Interactions in Developmentally Vulnerable Adolescents. Vaibhav A. Diwadkar, Neil Bakshi, Patrick Pruitt, Ashu Kaushal, Eric R. Murphy, **Matcheri S. Keshavan**, Usha Rajan, Caroline Zajac-Benitez

Thursday 6 May	
1737 Poster 13:30-15:30	Asymmetric FAIR - FAIR with Active Suppression of Superior Tagging (FAIR ASST). Xiufeng Li, **Subhendra N. Sarkar**, David E. Purdy, Robert W. Haley, Richard W. Briggs
1748 Poster 13:30-15:30	Benefits of Interleaved Continuous Labeling and Background Suppression. **Weiying Dai,** Philip M. Robson, Ajit Shankaranarayanan, **David C. Alsop**
1756 Poster 13:30-15:30	**Hippocampus Perfusion Studies Using OPTIMAL FAIR** Xiufeng Li, **Subhendra N. Sarkar,** David E. Purdy, Robert W. Haley, Richard W. Briggs
2020 Poster 13:30-15:30	Diffusion Spectrum Tractography and Histology: Developing Connectivity in the Cat Brain. Emi Takahashi, Guangping Dai, Ruopeng Wang, Kenichi Ohki, **Glenn D. Rosen**, **Albert M. Galaburda,** Rebecca D. Folkerth, Van J. Wedeen, P. Ellen Grant
2819 Poster 13:30-15:30	Perfusion MRI of Solitary Pulmonary Nodules at 3T: Assessment of Perfusion Parameters and Correlation with Histology. Hatsuho Mamata, Junichi Tokuda, Ritu Gill, Robert F. Padera, **Robert E. Lenkinski**, David J. Sugarbaker, Hiroto Hatabu
3289 14:00 Computer 8	Cerebral Perfusion Imaging with a Hyperpolarized Freely Diffusible Contrast Agent. **Aaron K. Grant, Elena Vinogradov, Xiaoen Wang, David C. Alsop**
637 17:12 Rm A5	SSFSE Sequence for Fast Elastography in the Presence of Susceptibility. Ken-Pin Hwang, Zhenghui Zhang, Brandy J. Reed, Michelle L. Underwood, Roger Jason Stafford, Peggy T. Tinkey, **David C. Alsop**, Rajesh Uthamanthil

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Friday 7 May	
735 10:42 Rm A6	Developing Connectivity in Human Fetal Brains: Emerging Regional Variations. Emi Takahashi, Rebecca D. Folkerth, Rudolph Pienaar, **Albert M. Galaburda**, P. Ellen Grant

TRADITIONAL Posters	Exhibit Hall B	
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1024	Modeling of Pyruvate/Lactate Kinetics Using a Two-Site Exchange Model. **Aaron K. Grant, Elena Vinogradov, Pankaj K. Seth, Xiaoen Wang, Robert E. Lenkinski, Vikas P. Sukhatme**	WED 13:30-15:30
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1246	Retrospective Motion-Adapted Smart Averaging for Free-Breathing Cardiac MRI. **Alan Christopher O'Connor, Mehdi Hedjazi Moghari, Peng Hu, Dana C. Peters, Warren J. Manning, Reza Nezafat,** Roger Ware Brockett	MON 14:00-16:00
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1963	Perfusion Networks in Parkinson's Disease Revealed Using Arterial Spin Labeling. Tracy R. Melzer, Richard Watts, Michael R. MacAskill, Ross Keenan, Ajit Shankaranarayanan, **David C. Alsop**, Charlotte Graham, Leslie Livingston, John C. Dalrymple-Alford, Tim J. Anderson	TUES 13:30-15:30
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2501	Breast Perfusion Imaging Using Arterial Spin Labeling. Misung Han, Brian A. Hargreaves, Bruce L. Daniel, **David C. Alsop**, Philip M. Robson, Eric Han, Pauline W. Worters, Ajit Shankaranarayanan	TUES 13:30-15:30
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3058	MOtion Correction Using Coil Arrays (MOCCA). **Peng Hu, Mehdi H. Moghari, Beth Goddu, Lois A. Goepfert, Thomas H. Hauser1, Warren J. Manning, Reza Nezafat**	TUES 13:30-15:30

ELECTRONIC Posters		Exhibit Hall B
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3289	Cerebral Perfusion Imaging with a Hyperpolarized Freely Diffusible Contrast Agent. **Aaron K. Grant, Elena Vinogradov, Xiaoen Wang, David C. Alsop**	THURS 6 May 14:00 Computer 8
3664	Retrospective Estimation of 3D Respiratory Motion Vectors in Coronary MRI. **Alan Christopher O'Connor, Mehdi Hedjazi Moghari, Peng Hu, Dana C. Peters, Warren J. Manning, Reza Nezafat,** Roger Ware Brockett	MON 3 May 14:00 Computer 35
3670	Prospective Projection-Based Respiratory Whole-Heart Coronary MRI with Patient-Specific Tracking Factor **Mehdi Hedjazi Moghari, Peng Hu,** Christian Stoeck, Jouke Smink**, Dana C. Peters, Beth Goddu, Lois Goepfert, Warren J. Manning, Reza Nezafat**	TUES 4 May 14:30 Computer 35
3782	Non-Contrast Enhanced Pulmonary Vein MRA with Compressed Sensing. **Mehmet Akçakaya, Peng Hu,** Vahid Tarokh**, Warren J. Manning, Reza Nezafat**	WED 5 May 14:00 Computer 42

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ELECTRONIC Posters		Exhibit Hall B
4079	Regional Distribution, Laterality, and Reliability of Volumetric Cerebral Perfusion Imaging in Healthy Adults. Adolf Pfefferbaum, Ajit Shankaranarayanan, **David Alsop**, Sandra Chanraud, Anne-Lise Pitel, Torsten Rohlfing, Edith V. Sullivan	TUES 4 May 15:00 Computer 61
4314	Elimination of T1 Weighting in FLAIR by Optimized Double IR – Could This Be the Only T2-Weighted Sequence Needed? **Ananth J. Madhuranthakam, Subhendra N. Sarkar,** Reed F. Busse4, **David C. Alsop**	TUES 4 May 13:30 Computer 76
4321	Evidence of Distributed Subpial T2* Signal Changes at 7T in Multiple Sclerosis: An Histogram Based Approach. Caterina Mainero, Carlos Lima, Julien Cohen-Adad, Doug Greve, Amy Radding, Thomas Benner, **R. Philip Kinkel**, Bruce Fischl, Bruce R. Rosen	WED 5 May 15:00 Computer 76
4524	*In Vivo* Studies on a Hyperpolarized Choline Contrast Agent: Design and Implementation of a New Biomarker. Hyla Allouche-Arnon, **Aaron K. Grant, Elena Vinogradov, Xiaoen Wang, Robert E. Lenkinski,** Ayelet Gamliel, Ruppen Nalbandian, Lucio Frydman, John Moshe Gomori, Claudia Monica Barzilay, Rachel Katz-Brull	TUES 4 May 14:30 Computer 89
4593	Gd-EOB-DTPA Combined with Gd-DTPA: Hepatobiliary Contrast with Familiar Hepatic Dynamic Contrast Enhancement. **Jesse L. Wei, Kimiknu Mentore, Martin P. Smith, Neil M. Rofsky**	WED 5 May 15:00 Computer 93
4703	Contrast Edited T2 SSFSE: A Potential Alternative to Diffusion Weighted EPI for MRI Screening. **Ananth J. Madhuranthakam**, Aya Yassin, Jean H. Brittain, **David C. Alsop**, **Neil M. Rofsky**	WED 5 May 14:00 Computer 100
4870	Impact of Coil Sensitivity Estimation on MRI Reconstruction Methods Combining Compressed Sensing and Parallel MRI. **Seunghoon Nam, Mehmet Akçakaya, Peng Hu, Warren Manning,** Vahid Tarokh, **Reza Nezafat**	TUES 4 May 15:00 Computer 111
5012	Retrospective Bellows-Based Reconstruction for Cardiac MRI: Preliminary Experience. **Claudio Santelli, Reza Nezafat, Warren J. Manning,** Sebastian Kozerke, **Dana C. Peters**	TUES 4 May 14:00 Computer 120
5142	Amide Proton Transfer Imaging with Improved Robustness to Magnetic Field Inhomogeneity Rachel Scheidegger**, Elena Vinogradov, David C. Alsop**	TUES 4 May 15:00 Computer 128

Names = BIDMC Faculty / Staff • Names = Radiology Trainees