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ISMRM Workshop on
MRI of the Placenta
 Westin Peachtree Plaza, Atlanta, GA, USA

*Program***Registration & Setup – Saturday, 03 February 2018**

17:00 Registration Available (until 18:00)












Day 1 – Sunday, 04 February 201807:30 Registration & Speaker Upload Available
Breakfast on own

08:30 Introduction & Overview Organizing Committee



Session 1: The Placenta: Its Development, Structure & Function/Dysfunction**Moderator: Oliver Wieben, Ph.D.**08:45   Sculpting the Human Placenta; the Impact of the Maternal Circulation Graham Burton, FMedSci
University of Cambridge
Cambridge, England, UK09:15   Placental Pathology with a Focus on Those Potentially Imageable Drucilla Roberts, M.D.
Harvard Medical School
Boston, MA, USA

09:45 Break & Speaker Upload Available







Proffered Papers - Oral Session

10:15   Placental Baseline Conditions Modulate the Hyperoxic BOLD-MRI Response Marianne Sinding, Ph.D.
Aalborg University Hospital
Aalborg, Denmark10:30   Functional Imaging of the Placenta: Comparison of Ferumoxytol DCE MRI & Endogenous BOLD Contrast in Rhesus Macaque Ante Zhu, M.Sc.
University of Wisconsin-Madison
Madison, WI, USA10:45  MRI in Pregnant Rabbit: A Tool for Fetoplacental Units Localization to Perform Accurate Multimodal Analysis - *Permission Withheld* Charline Berthold, M.D.
IADI, Université de Lorraine
Vandoeuvre-lès-Nancy, France11:00   Towards Measuring pO₂ via 1H Longitudinal Relaxation of Water: Quantifying the Confounds Kelsey Meinerz, B.Sc., M.A.
Physics
Washington University in St. Louis
St. Louis, MO, USA11:15   Quantitative BOLD MRI Identifies Changes in Placental Oxygen Reserve with Induced Maternal Hypoxia in a Non-Human Primate Model Matthias Schabel, Ph.D.
Oregon Health & Science University
Portland, OR, USA11:30   Placental Metabolic Rate of Oxygen Ana E. Rodriguez-Soto, Ph.D.
University of Pennsylvania
Philadelphia, PA, USA

11:45 Lunch & Speaker Upload Available

Session 2: Maternal Health & Fetal Programming: Placenta as the Interface**Moderator: Catherine Limperopoulos, Ph.D.**13:00  Placental Exosomes & Placental-Maternal-Fetal Communication - *Permission Withheld* Yoel Sadovsky, M.D.
University of Pittsburgh
Pittsburgh, PA, USA13:30  Going with the Flow: Cardiovascular Consequences of Placental Insufficiency - *Permission Withheld* Janna Morrison, B.Sc., M.Sc., Ph.D.
University of South Australia
Adelaide, NSW, Australia

Proffered Papers - Oral Session










14:00   GlucoCEST of Human Placenta During Maternal Glucose Tolerance Test Jie Luo, Ph.D.
Shanghai Jiao Tong University
Shanghai, China14:15   Placental T2* in a Prolonged Pregnancy Mouse Model Stephania Assimopoulos, B.Sc.
University of Toronto
Toronto, ON, Canada14:30   Early Maternal Alcohol Exposure Diminishes Placental Perfusion & Oxygen Availability Affecting Fetal Growth in a Non-Human Primate Model Jamie Lo, M.D.
Oregon Health & Science University
Portland, OR, USA14:45   T2 & T2* Imaging of the Placenta in Pregnancies Complicated by Chronic Hypertension & Preeclampsia Alison Ho, M.A., M.B.B.S.
King's College London
London, England, UK15:00   Exploring the Placental-Fetal Connection with Multimodal MRI in a Mouse Model of Intrauterine Inflammation Dan Wu, Ph.D.
Johns Hopkins University School of Medicine
Baltimore, MD, USA

15:15 Break & Speaker Upload Available


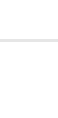
Session 3: Monitoring Placental Health: Clinical State of the Art**Moderator: Manjiri Dighe, M.D.**15:45  Basic MR Imaging of the Placenta & Intrinsic Pathologies - *Permission Withheld* Daniela Prayer, M.D.
Medical University of Vienna
Vienna, Austria16:15 From Ultrasound to MR Imaging in High-Risk Pregnancies: A Placenta Clinic Perspective - *Permission Withheld* John Kingdom, M.D.
University of Toronto
Toronto, ON, Canada

16:45 Break & Speaker Upload Available

Proffered Papers - Oral Session







17:00   Textural Analysis of the Morbidly Adherent Placenta (MAP) from MR Acquisitions Quyen N. Do, Ph.D.
UT Southwestern Medical Center
Dallas, TX, USA17:15   Visualization of Subclinical Uterine Contractions During Placental BOLD MRI Esra Abaci Turk, Ph.D.
Boston Children's Hospital
Boston, MA, USA17:30   Contrast-Enhanced MR Imaging of Placental-Myometrial Interface in a Pregnant Rat Model Ketan B. Ghaghada, Ph.D.
Texas Children's Hospital
Houston, TX, USA17:45   Comparison of 1.5 T & 3 T MRI for 3D Quantitative Susceptibility & T2* Mapping of the Human Placenta Zunguo Zun, Ph.D.
Children's National Medical Center
Washington, DC, USA18:00   Exploring Placental Function Over Gestation Using Multimodal Functional MRI Jana Hutter, Ph.D.
King's College London
London, England, UK

18:15 Adourn - Dinner on your own





Day 2 – Monday, 05 February 201807:30 Registration & Speaker Upload Available
Breakfast on own**Session 4: The ABCs of Placental MRI: Anatomy & Microstructure****Moderator: John G. Sled, Ph.D.**08:30   MRI Markers of Placental Hypoxia: A Clinical Test of Placental Dysfunction Anne Sørensen, M.D., Ph.D.
Aalborg University
Aalborg, Denmark09:00 Translational MRI Studies in the Nonhuman Primate - *Permission Withheld* Antonio Frias, M.D.
Oregon Health & Science University
Portland, OR, USA

09:30 Break & Speaker Upload Available

Proffered Papers - Oral Session






10:00   Circulating Placental mRNA Biomarkers as an Adjunct to Imaging to Monitor Placental Function & Detect the Hypoxic Fetus Clare L. Whitehead, M.B.Ch.B., Ph.D.
University of Toronto
Toronto, ON, Canada10:15   Diffusion-Weighted Imaging of the Placenta in Gestational Diabetes: A Feasibility Study Wonsang You, Ph.D.
Children's National Health System
Washington, DC, USA10:30   High-Resolution Diffusion MRI Maps of Mice with Normal & Dysfunctional Placentas Reveal Clear Fetal Differences Qingjia Bao, Ph.D.
Weizmann Institute of Science
Rehovot, Israel10:45   Placental Diffusion & Perfusion in Healthy & Growth-Restricted Fetuses Using IVIM - *Permission Withheld* Nickie Andescavage, M.D.
Children's National Health Systems
Washington, DC, USA11:00   Optimised B-Values & Gradient Directions for Placental Diffusion MRI Paddy J. Slatore, Ph.D.
University College London
London, England, UK11:15   Diffusion-Weighted Placental MRI in Normal Pregnancies & Those Complicated by Placental Dysfunction Ditte Nyman Hansen, M.D.
Aalborg University Hospital
Aalborg, Denmark

11:30 Lunch & Speaker Upload Available

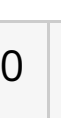

12:45   Keynote: Developing New Methods for Safe, Real-Time Assessment of Human Placenta Development & Function Across Pregnancy David Weinberg, Ph.D.
National Institutes of Health
Bethesda, MD, USA**Session 5: The ABCs of Placental MRI: Blood Flow, Physiology, Metabolism & Transport****Moderator: Penny A. Gowland, Ph.D.**13:15   Placental Oxygen Perfusion & Quantification by Intrinsic Cine Phase Contrast Flow Quantification & MR Oximetry Mike Seed, MBBS, MRCPCH, FRCP
The Hospital for Sick Children
Toronto, ON, Canada13:45 MRI of Maternal Vascular Remodeling in the Mouse Pregnancy - *Permission Withheld* Michal Neeman, Ph.D.
Weizmann Institute of Science
Rehovot, Israel

14:15 Break & Speaker Upload Available

Proffered Papers - Oral Session


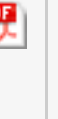










14:45   *In Vivo* MRI Assessment of Uterine Artery Geometry & Hemodynamics in Healthy Pregnancies Eileen Hwuang, B.Sc.
University of Pennsylvania
Philadelphia, PA, USA15:00   Comparison of FAIR & Velocity-Selective ASL Perfusion MRI in the Human Placenta Kai D. Ludwig, M.Sc.
University of Wisconsin - Madison
Madison, WI, USA15:15   Movement of Blood Within the Placenta Simon Shah, Ph.D.
University of Nottingham
Nottingham, England, UK15:30   4D Flow MRI of the Uterine & Ovarian Vessels in the 2nd Trimester Philip Corrado, B.Sc.
University of Wisconsin
Madison, WI, USA15:45   Hyperpolarized [1-13C] Pyruvate Magnetic Resonance Imaging of Placenta Associated with Intrauterine Growth Restriction Lanette J. Friesen-Waldner, Ph.D.
Western University
London, ON, Canada16:00 Reception & Poster Session (*No CME Available*)

18:00 Adourn - Dinner on your own

Day 3 – Tuesday, 06 February 201808:00 Registration & Speaker Upload Available
Breakfast on own**Session 6: The ABCs of Placental MRI: Coils, Analysis, Pulse Sequence Design, Safety****Moderator: Patricia Ellen Grant, M.D.**09:00   Advancing Placenta MRI: Emerging Methods, Issues & Opportunities Joseph V. Hajnal, Ph.D.
King's College London
London, England, UK09:30   Advancing Fetal MRI: Hardware, Pulse Sequence & Post Processing Developments Lawrence Wald, Ph.D.
Massachusetts General Hospital
Charlestown, MA, USA

10:00 Break & Speaker Upload Available

Proffered Papers - Oral Session

10:30   Magnetic Resonance Fingerprinting in the Placenta & Fetal Organs at 3T Jeffrey Stout, M.Phil.
Harvard-MIT Health Sciences & Technology
Cambridge, MA, USA10:45   Optimizing Hyperpolarized Carbon-13 Magnetic Resonance Imaging of the Placenta Using a Hybrid Flip Angle Scheme Lauren M. Smith, B.Sc.
Western University
London, ON, Canada11:00   Accelerated HASTE Acquisition for Fetal Brain MRI with Low-Rank & Subspace Modeling Bo Zhao, Ph.D.
A.A. Martinos Center for Biomedical Imaging
Chalestown, MA, USA11:15   Estimation of a Signal-Appropriate Reference Volume to Improve Registration of High B-Value Diffusion Volumes in the Human Placenta Conrad Rockel, Ph.D.
Western University
London, ON, Canada11:30   Impact of Body Model Mismatch on SAR Estimation for Pregnant Body Imaging at 3 Tesla Filiz Yetisir, Ph.D.
Kings Children's Hospital
Boston, MA, USA11:45   Respiration-Resolved Placenta Imaging Using Continuous Steady-State Excitation with Linear Frequency Sweeps Laurence Jackson, Ph.D.
Kings College London
London, England, UK

12:00 Adjournment & Boxed Lunches

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The International Society for Magnetic Resonance in Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

This workshop does not offer CME credits.