

QIN Face-to-Face Meeting

Location: Neuroscience Bldg, Conference Room D,

6001 Executive Boulevard, Rockville MD

Monday and Tuesday March 7 - 8, 2011

Monday, March 7

- 7:30 Gathering**
- 7:45 NCI Program: Overview of QIN meeting agenda**
Larry Clarke and Robert Nordstrom
Imaging Technology Development Branch
Paula Jacobs: Acting Associate Director
Cancer Imaging Program, DCTD, NCI
- 8:00 Session 1: QIN PI Center Presentations:**
Goal: Research Progress on Quantitative Imaging (QI) strategies for year 1.
(20 Minute presentation, 5 min discussion, 5 min break)
Proposed goals are to include the following:
 a. Overall clinical rationale for the linked targeted cancer trial(s)
 b. Retrospective and prospective data collections
 c. Quantitative Imaging (QI) Methods: Data collection and analysis
 d. Methods for validation their performance
 e. Working groups (WG's): Value of the consensus strategies
 f. Project timeline and planned deliverables: Year 2 to 5.
Session Chair: Robert Nordstrom
- 8:00 Quantitative Biomarker Imaging for Early Therapy Response Assessment in Cancer:**
James Mountz, M.D., Ph.D., University of Pittsburgh.
- 8:30 Radiomics of NSCLC:** Robert Gatenby, M.D., H. Lee Moffitt Cancer Ctr & Res Inst
- 9:00 Computerized Quantitative Imaging Assessment of Tumor Burden:** Daniel Rubin,
M.D., Stanford University.
- 9:30 PET-MRI for Assessing Treatment Response in Breast Cancer Clinical Trials:** Thomas
Yankeelov, Ph.D., Vanderbilt University.
- 10:00 Quantitative Imaging to Assess Response in Cancer Therapy Trials:** John Buatti, M.D.,
University of Iowa
- 10:30 Advanced PET/CT Imaging for Improving Clinical Trials:** Paul Kinahan, Ph.D.,
University of Washington.

- 11:00** **Quantitative MRI of Prostate Cancer as a Biomarker and Guide for Treatment:** Fiona Fennessy, M.D., Ph.D., Brigham & Women's Hospital.
- 11:30** **Quantitative Volume and Density Response Assessment: Sarcoma and HCC as a Model:** Lawrence Schwartz, M.D., Columbia University.
- 12:00** **Quantitative MRI of Glioblastoma Response:** Gregory Sorensen, M.D.
- 12:30** **Lunch Break.**
- 1:30** **Session 2: QIN Working Group (WG) Presentations.**
20 min presentation, 5 min discussion, 5 min break, total of 30 min
Goals: Provide a brief outline of the progress to date of the WG's and timelines for deliverables. Scope to include a specific emphasis on how the WG's are addressing consensus approaches on validation strategies, and indicate planned consensus based publications. The overriding goal is to demonstrate the value of the WG's to the QIN mission and how to further engage the FDA, NIST and CMS in their activities.
Session Chair: Larry Clarke
- 1:30** **Data Collection:** Fernando Boada and Robert Doot
- 2:00** **Image Analysis and Performance Metrics:** Milan Sonka and Sandy Napel
- 2:30** **Bioinformatics/IT & Data Sharing:** Daniel Rubin and Steven Eschrich
- 3:00** **Clinical Trial Design & Development:** Brenda Kurland and Ethan Argiris
- 3:30** **Outreach External/Industrial Relations:** Dennis Nelson
- 4:00** **Session 3: Demonstration Projects**
Chairs: Milan Sonka PhD., and John Freymann, MS
- Demo 1: AVT: CT volume: Repeat -longitudinal studies:**
Robert Schwanke PhD, Siemens Corporate Research
- Demo-Discussion: AVT: PET CT longitudinal studies**
University of Iowa-Siemens
- 6:00** **End of Day 1**
- 7:00** **Informal dinner**

Tuesday, March 8

- 8:00** **Session 4: QIN: Other Biomarker Stake Holders**
Goal: Outline the mission of the biomarker consortium and RSNA QIBA as a complementary mission to NCI QIN.
Session Chair and Introduction: Larry Clarke, NCI
- 8:00** **RSNA: Quantitative Imaging Biomarker Alliance (QIBA)**
<http://www.rsna.org/Research/QIBA/index.cfm>
Dan Sullivan: MD., Duke University.
- 8:30** **Foundation of NIH: Biomarker Consortium)**
Speaker: Howard Higley PhD.
- 9:00** **Discussion**
- 9:15** **Session 5: Informatics Infrastructure**
Goal: Provide examples of informatics infrastructure to help develop methods to validate data analysis or modeling tools for measurement of response to therapy.
Chair: John Freymann and Justin Kirby: NCI
- 9:15** **CaBIG -QIN: Enterprise Use Case: Case Study for DCE MRI**
Mia Levy MD, PhD, and Daniel Rubin MD, PhD
- 9:45** **Group Discussion Including Remote caBIG Attendees:**
Goal: High level needs for all imaging modalities/methods/organ systems.
- 10:15** **Coffee Break**
- 10:45** **Session 6: Working Group Breakouts**
Goal: Based on the above QIN presentations and demonstrations review future plans for each WG for the next year and beyond.
- 12:30** **Lunch**
- 1:30** **Session 6 continued: WG's Breakouts**
Goal: Present a brief summary of plans and action items for each WG, and expectations from other WG's to address the overall mission of QIN. (10 min presentation, 5 min discussion).
Chair: Bob Nordstrom
- 1:30** Data Collection: Fernando Boada and Robert Doot
- 1:45** Image Analysis and Performance Metrics: Milan Sonka and Sandy Napel
- 2:00** Bioinformatics/IT & Data Sharing: Daniel Rubin and Steven Eschrich

- 2:15 Clinical Trial Design & Development: Brenda Kurland and Athanassios Argiris
- 2:30 Outreach External/Industrial Relations: Dennis Nelson and Evan Yu
- 2:45 **QIN SC Meeting: Management and Organizational Issues**
QIN PI's and Co-I's, WG Chairs and Co Chairs
- 3:30 **Close of Meeting**