

**10th Annual Meeting of the Quantitative Imaging Network
May 17-18, 2018**

Day 1: May 17

8:00 am Welcome
Paula Jacobs, PhD, Associate Director, Cancer Imaging Program, DCTD, NCI

8:05 am Challenges and Roadmap for QIN
Robert Nordstrom, PhD, QIN Director, CIP, DCTD, NCI
Janet Eary, MD, Deputy Associate Director, CIP, DCTD, NCI

Session 1: Clinical Translation and Validation Tools – Chair: Janet Eary, MD

8:10 am Introduction to This Session: Tool Validation Concepts
Janet Eary, MD, CIP, DCTD, NCI

8:15 am Overview of the Statistical Considerations for Implementing Profiles into Clinical Trials
Nancy Obuchowski, PhD, Cleveland Clinic Foundation

8:40 am Study Design and Analysis for Tool Validation
Erich Huang, PhD, Biometric Research Program, DCTD, NCI

9:00 am National Clinical Trial Network Discussion

Alliance: Larry Schwartz, MD, Columbia University
ECOG-ACRIN: David Mankoff, MD, PhD, University of Pennsylvania
NRG: John Buatti, MD, University of Iowa

Topics for discussion:

Ways to outreach validation requirements and their implementation
Identify possible areas within NCTN to perform validation tests
Identify critical trials areas where tools will be helpful now
Address obstacles to tool validation throughout QIN
Identify areas for collaboration with QIBA

9:40 am Open Mic Discussion
Maryellen Giger, PhD, University of Chicago
Hyunsuk Shim, PhD, Emory University
Sandy Napel, PhD, Stanford university
Richard Wahl, MD, Washington University
Paul Kinahan, PhD, University of Washington

- 10:30 am Break/Poster Session
Clinical Trial Design and Development Working Group and BIDS Working Group Breakouts
- 11:30 am Featured Tool Demonstration
Lubomir Hadjiyski, PhD, University of Michigan

12:00 pm Lunch

Session 2: QIN Growth and Development – Chair: Robert Nordstrom, PhD, CIP, DCTD, NCI

- 1:00 pm Young Investigator Award — Angela Jarrett, PhD, University of Texas at Austin
“Predicting the Response of Breast Cancer to Neoadjuvant Therapy Using a Mathematical Model Calibrated by Quantitative MRI Data”
- 1:30 pm New QIN Investigator: Ananth Madhuranthakam, UT Southwestern
- 1:45 pm New QIN Investigator: Amita Dave, MSKCC
- 2:00 pm Break/Poster Session
MRI Working Group and PET/CT Working Group Breakouts

Session 3: QIN Interactions with Other Programs – Chair: Darrell Tata, PhD, CIP, DCTD, NCI

- 3:00 pm International Growth of QIN
Pushpa Tandon, PhD, CIP, DCTD, NCI
- 3:10 pm Co-clinical Imaging Research: Opportunity & Progress
Huiming Zhang, PhD, CIP, DCTD, NCI
- 3:30 pm QIN Hub Collaborative Platform
Keyvan Farahani, PhD, CIP, DCTD, NCI

Session 4: Imaging Data Resources for Tool Validation – Chair Robert Nordstrom, PhD, CIP, DCTD, NCI

- 3:45 pm TCIA Roadmap: New Capabilities of Interest to QIN
Fred Prior, PhD, University of Arkansas
Ashish Sharma, PhD, Emory University
Joel Saltz, PhD, Stony Brook University
- 4:10 pm QIN Tools Supporting RADCOMP — a Pragmatic Randomized Clinical Trial of Proton vs. Photon Therapy for Patients with Non-Metastatic Breast Cancer
William Bennett, PhD, University of Arkansas
- 4:30 pm ECOG-ACRIN Trial Data as a QIN Resource
Paul Kinahan, PhD, University of Washington

4:50 pm Tool Catalog Review
Robert Nordstrom, PhD, CIP, DCTD, NCI

5:15 pm Adjourn

Day 2: May 18

Session 5: Challenges and Collaborative Projects – Chair: Yantian Zhang, PhD, CIP, DCTD, NCI

8:10 am QIN Benchmarks: Challenge Task Force Report
Keyvan Farahani, PhD, CIP, DCTD, NCI

8:40 pm A Practical Guide to Using TCIA for QIN Challenges & Collaborative Projects
Justin Kirby, Leidos

Session 6: QIN and QIBA Interactions and Future – Chair: Lori Henderson, PhD, CIP, DCTD, NCI

9:00 am QIBA Activities and Areas of Interaction with QIN
Ed Jackson, PhD, University of Wisconsin and QIBA

9:20 am Panel Discussion: QIN and QIBA members

9:50 am Self-organized Working Group/Breakouts

Session 7: Associate Member Presentations – Chair: Pushpa Tandon, PhD, CIP, DCTD, NCI

10:50 am Winifred Brenner, MD, PhD (Germany)

11:10 am Finbarr O’Sullivan, PhD (Ireland)

11:40 am Lunch

Session 8: Evaluation and Current Tools – Chair: Robert Nordstrom, PhD, CIP, DCTD, NCI

12:40 pm Tools and Discussion – Evaluation of Tool Readiness

1:40 pm Break/Posters

Session 9: Planning and Business Meeting – Chair: Robert Nordstrom, PhD, CIP, DCTD, NCI

2:40 pm NCI Strategies for QIN Future
Robert J. Nordstrom, PhD and Janet Eary, MD

3:10 pm Business Meeting
Announcement of new chairs

Schedule of Important meetings

3:45 pm Adjourn