Biomarker

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Premises:

A biomarker is:
- (Ideally) a measurement;
- (less ideally) a qualitative observation.

Biomarkers can be categorized as:
- Specimen biomarkers
- Physiologic biomarkers
- Imaging biomarkers

Biomarkers are useful in:
- Therapeutics development
- Clinical practice
Premise:

Images are inherently quantitative.
RSNA Strategic Plan:

Goal 1: Shape and advance the future of radiology.

1.3 Prepare professionals in radiologic sciences for an increasingly quantitative future.

Facilitating *imaging as a biomarker in clinical trials* helps RSNA move forward its agenda on quantitative imaging in clinical care.
To advance QI, RSNA supports a group of related activities:

Educate its membership about QI
*(Toward Quantitative Imaging)*

Improve the radiology research infrastructure
*(CTSA-Imaging Working Group)*

Promote inter-organizational communication about imaging biomarker activities
*(Imaging Biomarkers Roundtable)*

Support efforts to improve the accuracy and precision of imaging biomarkers
*(Quantitative Imaging Biomarkers Alliance -QIBA)*

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**Agenda:**

4:40 PM  Clinical Needs/Value of Imaging Biomarkers
*Walter Stadler, MD, (U Chicago Cancer Center)*

4:50 PM  Performance Evaluation of Imaging Biomarkers
*Constantine Gatsonis, PhD, Brown University*

5:00 PM  Research Needs/Value of Imaging Biomarkers
*Gudrun Zahlmann, PhD, Roche Pharmaceuticals*

5:10 PM  Status of Activities to Meet the Needs
*QIBA/Roundtable*  Andrew Buckler, MS
*NIST*  William Ott, PhD

5:30 PM  Leveraging the CTSA Program to Support Biomarker Development
*Gary Dorfman, MD, Weill Cornell Medical College*

5:40 PM  Panel Discussion