HIGH-IMPACT PROJECTS/ EMERGING TECHNOLOGIES
Group 5

Moderators:

Elliot Chaikof (Emory)

Beth McFarland (Wash U)

Haverford Suite

December 17 – 12:00 PM

Session Focus

Determine high-impact projects or promising emerging technologies that support the research focus areas and are appropriate for the NIBIB's mission.

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James Cassatt, PhD
NIH/NIGMS

<u>High-impact Project</u>

Nanotechnology and its biomedical applications.

NIBIB

Elliot Chaikof, PhD
Emory University School of Medicine

High-impact Project

Bio-inspired and biomimetic materials for artificial organ applications.

NIBIB

William Heetderks, MD, PhD
NIH/NINDS

High-impact Project

Closed-loop control of glucose in diabetics or of blood pressure in hypertensives.

NIBIB

Ron Kikinis, MD
Brigham and Women's Hospital

<u>High-impact Project</u>

Medical Image Computing.

Beth McFarland, PhD
Washington University

High-impact Project

Center grants which enable effective MD-PhD translational work for

- new device projects targeting industry-academic collaborations
- outcomes for cancer

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Norbert Pelc, PhD
Stanford University

High-impact Project

Fast, photon-counting, energy discriminating x-ray detectors and their application for radiography and low dose dynamic CT.

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David Piwnica-Worms, PhD
Washington University School of Medicine

High-impact Project

Map the imageable proteosome in mouse models of major human diseases using forward and reverse chemical genetics (imageomics).

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Anne Roberts, PhD
UCSD School of Medicine

High-impact Project

Use of MRI for guidance and functional imaging of percutaneous therapy of liver cancer, including both ablative and regional techniques.

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Alan Snyder, PhD
Penn State College of Medicine

High-impact Project

Creation of functional, three-dimensional, heterogeneous tissue constructs.

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John Watson, PhD
NIH/NHLBI

<u>High-impact Project</u>

Lead the development and integration of nano, bio, information and cognition design principles for biology and medicine.

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