

# MMPC Working Groups

## Guiding Theme:

To Foster Research and Protocol Development that is best addressed as Consortium Projects

**Bariatric Surgery**

**Energy  
Expenditure**

**Biomaging**

# Goals/Aims/Accomplishments

- Education
  - Bariatric Surgery
  - Energy Expenditure
  - Bioimaging (Workshops)
- Standardization of Assays/Procedures across platforms
  - Bariatric Surgery
  - Energy Expenditure
- Integration of Resources across centers
  - Bioimaging
- Development of New Tools/Procedures/Resources
  - Bariatric Surgery
  - Energy Expenditure
  - Bioimaging (Workshops)

# Goals/Aims/Accomplishments

- Energy Expenditure:
  - Standardization of SOPs among centers
    - Measurements
    - Data analysis
    - Reporting
    - Development of Tools for General Use
- Bariatric Surgery
  - Development of SOPs to address emerging areas of importance
  - Test the feasibility of shipping bariatric surgery models from an MMPC
- Bioimaging
  - Education: BioImaging symposiums
  - Integration of diverse strengths and resources among centers
  - Cognitive changes in relation to obesity
    - Behavioral testing
    - Imaging (UCD)
    - MR Spectroscopy Metabolomics and PET FDG
    - Mass Spectrometry Metabolomics

# Goals/Aims/Accomplishments

- Have these Working Groups achieved their purposes?
- Can we consider their missions to be completed?
- Should the mission of existing working groups be revised?
- Are there new objectives that need to be addressed?
- What new working groups should be considered?

# Ideals for Year 1:

## Finalize Objectives of Existing Working Groups

- Bariatric Surgery  
Test mouse cohorts following VSG at UCD and after transport and acclimitization at Vanderbilt.
- BioImaging ->  
Cognitive Phenotyping and Brain Metabolomics
- Energy Expenditure

# New Initiatives

- Microbiome
- Gene Editing
- Exercise Physiology
- Mitochondrial function
- Others