

# **USU Center for Neuroscience and Regenerative Medicine (CNRM)**

**USU Discussion Group Briefings**

**June 27, 2008**

**August 6, 2008**

**October 8, 2008**

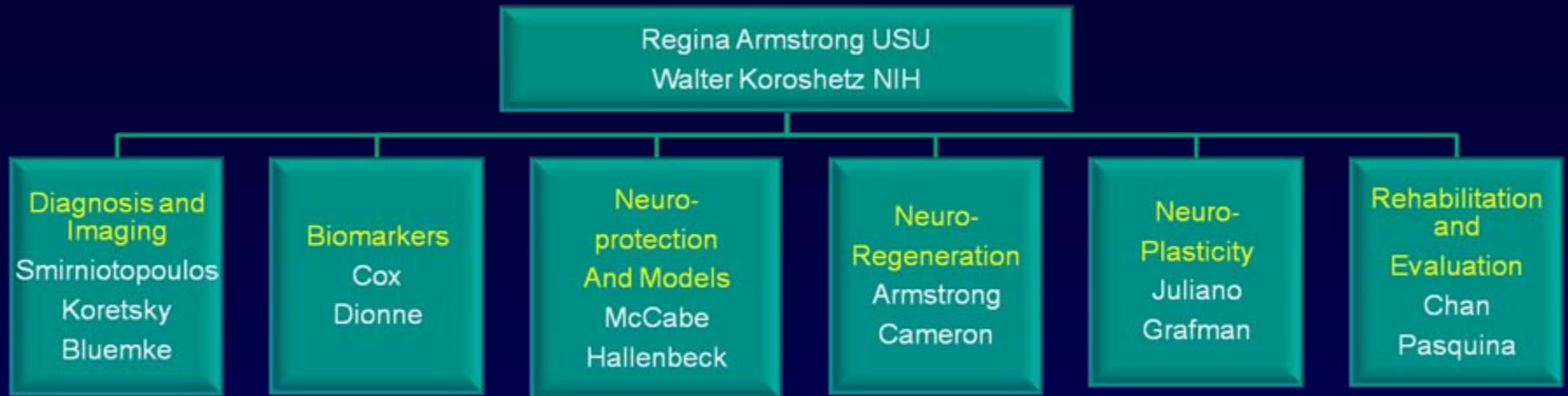
**November 12, 2008**

# USU Center for Neuroscience and Regenerative Medicine (CNRM)

- I. Research plan development stage
- II. Establishing scientific support core facilities
- III. Timeline for Research Planning, Writing, Review, and Award of Funding
- IV. Trainee planning
- V. CNRM infrastructure contract with HJF
- VI. Ongoing groundwork

# Research Avenues to Improve Repair

- **Diagnostics and Imaging** – characterize each patient’s injury to optimize diagnosis and treatment among available options
- **Biomarkers** – combine with other assessment tools, and personalize treatment options
- **Neuroprotection and Modeling** – preserve tissue structure and function; match studies of animal models to human pathological features
- **Neuroregeneration** - promote endogenous cell repair and address issues for transplantation of exogenous cells
- **Neuroplasticity** – modify available neural synapses and circuits to enhance function
- **Rehabilitation and Evaluation** – optimize usage and functional capacity through rehabilitative medicine



## Working Group Leaders

- Input to policies for planning and writing up science.
- Lead meetings to develop research in each area as program project.
- Interact across groups for synergy of science within center
- Planning scientific support cores for efficiency and expertise in research

**Working Groups** – ~ 15 members for advisory roles in science and interactions

**CNRM survey** – over 160 responses – additions to Working Groups

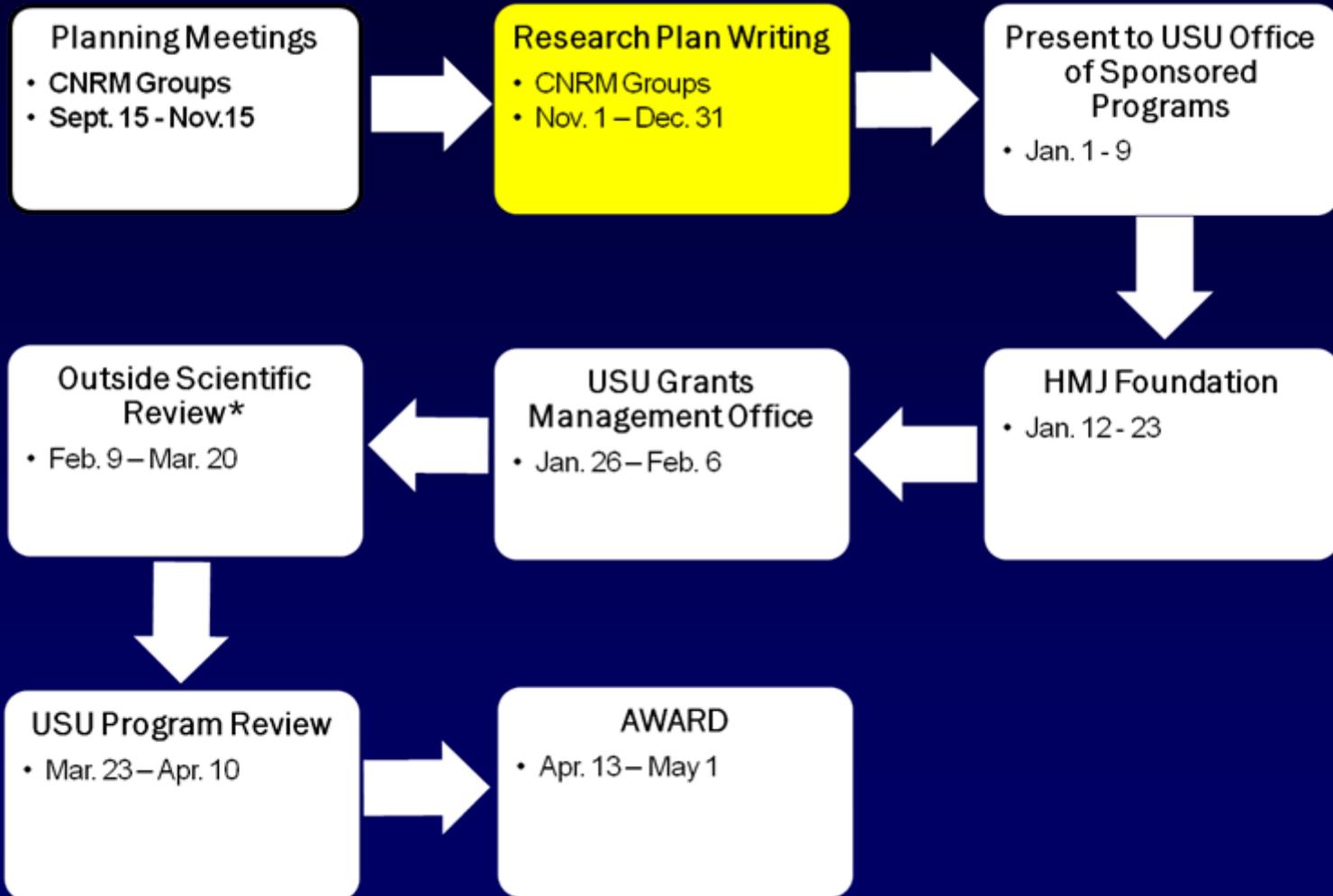
# CNRM Funding by Projected Use

| YEAR          | FY2008 | FY2009   | FY2010  | FY2011   | FY2012   | FY2013   | FY2014   | FY2015   | FY2016 |
|---------------|--------|----------|---------|----------|----------|----------|----------|----------|--------|
| FY08 SUPP     |        | \$68,250 |         |          |          |          |          |          |        |
| POM 10        |        |          |         |          |          |          |          |          |        |
| O&M           |        |          | \$4,000 | \$8,000  | \$8,244  | \$8,495  | \$8,755  | \$9,022  |        |
| RDT&E         |        |          | \$3,500 |          |          |          |          |          |        |
|               |        |          |         | \$7,000  |          |          |          |          |        |
|               |        |          |         |          | \$7,140  |          |          |          |        |
|               |        |          |         |          |          | \$7,283  |          |          |        |
|               |        |          |         |          |          |          | \$7,428  |          |        |
|               |        |          |         |          |          |          |          | \$7,577  |        |
| <b>Total*</b> |        |          | \$7,500 | \$15,000 | \$15,384 | \$15,778 | \$16,183 | \$16,599 |        |

Note: (\$000); Boxes indicate obligation period

FY08 funds being developed for 2 year project periods to end June 2011.

# Process for Research Planning, Writing, Review, and Award of Funding



# Research Planning Meetings

8 week process – CNRM Groups

## CNRM Gap Analysis

Federal Task Group for TBI & PH  
conference briefing on Sept. 17, 2008

## Program Group Team Meetings

To identify gaps and potential projects to fill those gaps in TBI research; many meetings throughout October.

## Program Directors Synergy Meeting

CNRM-wide meeting to solidify research plan development across the six program areas; Nov. 5, 2008

# Development/Expansion of Scientific Support Core Facilities

Phenotyping core (human studies)

Recruitment and Maintenance core (human studies)

Biosamples Registry (human studies)

Screening assays (includes biomarkers, bioinformatics)

Imaging (human studies)

In vivo Rodent Imaging

Animal Models of TBI

Rodent (rat, mouse) Behavioral Assessments

Histopathology (rodent, human)

Microscopy (includes stereology)

# Establishing CNRM Trainee Programs

- CNRM doctoral fellowships for **initial** years to attract graduate students to USU
- CNRM doctoral fellowships for later years to support **advanced** students – competitive research proposal applications
- CNRM **post-doctoral** fellowships

# CNRM - HJF Infrastructure Contract

Identification, development, and leasing of off-campus laboratory space. Visiting options now. Deciding how to best use space across sites.

Hiring of administrative and program support personnel. Now bringing in SPAs (3), IRB (1), IACUC (1). More SPA and IT positions later.

Support of meetings.

# Ongoing Groundwork

- MOU with NIH signed 10/31/08. Now finalizing concept paper for interactions.
- Setting Steering Committees (subcommittees - Human Studies; Technical; Programmatic)
- IRB planning
- IPA framework established with CPMS; recruitment now
- Strategies being discussed for faculty recruitment
- Beginning to address credentialing across USU, WRNMMC, and NIH
- Space requirements are being addressed