The University of Arizona
Instructions and Approval Sheet
Proposal for New Academic Organizational Unit
or
Re-organization of Existing Academic Unit(s)

Directions:
1. Provide information regarding the proposed unit in the form requested on the attached pages. Respond to each item individually using “not applicable” where appropriate. Attach this approval sheet to the front of the proposal.
2. Obtain signatures of the proposed unit administrator and department or committee head.
3. Forward the original and one copy to the college office for the dean’s signature and retain a copy for departmental files.
4. The dean should forward the original to Curriculum and Registration, Academic Programs, Attn: Sandre Beeler, CCIT 337, and retain the remaining copy for college files.

Note: In some situations signatures of more than one dean or department head may be required. If you have any questions, please contact Sandre Beeler, CCIT 337, 621-1847.

Initiating college, department, or committee: College of Medicine

Description of the proposed organizational unit change:

- New department
- New committee
- New laboratory, center, institute, or bureau
- Reorganization (XX)
- Other

Title: Center for Medical Neurosciences

Unit Administrator (title and signature) Dana Porreca, Ph.D., Director

Department Head [Signature] Date: August 15, 2006

Dean: Keith Joiner, M.D., MPH [Signature] Date: August 15, 2006
I. Description of the Proposed Organizational Unit Change

A. Identify the name of unit(s) affected by the change and its place in the organizational structure of the university.

The College of Medicine proposes to create the Center for Medical Neuroscience (CMN). The CMN will come under the organizational structure of the College of Medicine with the Center Director reporting to the Dean of the College of Medicine.

B. Explain the nature of the change; i.e., formation of a new unit or reorganization of an existing unit.

The Center for Medical Neuroscience will be a new entity, which will build on current strengths in clinical and basic neurosciences currently in existence in the College of Medicine, including the Departments of Neurology, Psychiatry, Ophthalmology, Pharmacology, Physiology, Cell Biology and Anatomy, as well as other clinical and basic science departments. The Center will conduct research into the mechanisms of diseases of human nervous system.

II. Purpose and Activities of the Unit

A. Explain the rationale for the change and the relationship to the Mission and Scope Statements adopted by the Board.

The Center will provide an organizational structure in the College of Medicine in Tucson and in Phoenix designed to foster multidisciplinary research into the understanding and treatment of diseases of the brain and nervous system. The CMN may be considered as the College of Medicine's component of the broad conceptual model for a future campus-wide Brain Center at The University of Arizona as proposed in the Report to the Provost of the Cognitive Science and Neuroscience Focused Excellence Study Team. The CMN will help realize the State's potential in the neurosciences, as reported by the Battelle Memorial Institute in their report Arizona's Bioscience Roadmap.

In January 2004 the Cognitive Science and Neuroscience Focused Excellence Study Team reported to the Provost with an overarching vision of the direction that The University of Arizona should proceed to foster national leadership in these areas. The report of the Cognitive Science and Neuroscience Focused Excellence Teams outlined the current strengths and gaps both at the College of Medicine and across The University of Arizona campus. This document also integrated the areas of investment envisioned by the Arizona Bioscience Roadmap highlighting neurodegenerative diseases and neuroimaging as critically important areas for investment. The creation of a Center for Medical Neuroscience within the College of Medicine will serve two goals:

1. Creation of a unified core of researchers that can effectively integrate into the overarching vision of the Focused Excellence plan. Without this concentration of existing faculty into a cohesive unit, the College of Medicine will not be able to effectively contribute to the Focused Excellence vision, since at present faculty are scattered throughout many departments and not unified in their goals and research efforts.

2. Enhancement of research strength and activity in areas of neurodegenerative diseases
with emphasis on translational and fundamental neuroscience through recruitment of new positions as envisioned in the recommendation of the Focused Excellence report.

Additionally, and in parallel with providing a critical contribution to the Focused Excellence process, the creation of the Center for Medical Neuroscience will act as The University of Arizona's contribution to the Arizona Biosciences Roadmap. The creation of this core faculty with a strong base in Phoenix will be critical in catalyzing a cooperative endeavor that will place the State of Arizona in a competitive position for attracting research funding and private capital in the neurosciences.

The Center will help to fulfill the following:

(a) Focused Excellence: By inventing in the Center, the University will help to build strength in neurosciences research in the College of Medicine as well as simultaneously building on existing strength in neurosciences across the University. Such investment will allow the University to build a stronger presence in neurosciences research, especially as related to human disease, in the State of Arizona and represents a strategy consistent with the Focused Excellence initiative and the Arizona Biosciences Roadmap.

(b) Interdisciplinary Strength: The University of Arizona has consistently supported outstanding interdisciplinary programs including the current Graduate Interdisciplinary Program in Neuroscience and the Committee on Neuroscience. Creation of a Center for Medical Neuroscience would greatly strengthen interdisciplinary research making the Center a natural strategic choice.

(c) Students: Students will not be trained through the Center but faculty members in the Center who are not already members of the Committee on Neuroscience will apply for membership to the Committee and participate in training of students through the Interdisciplinary Program in Neuroscience.

(d) Growth as a top Research 1 Institution: The Center will encourage multidisciplinary efforts between several areas of bionescience including, but not limited to, neurology, psychiatry, neurosurgery, ophthalmology, anesthesiology, pharmacology, physiology, cell biology and anatomy, pathology, bioengineering, speech and hearing sciences, psychology, Arizona Research Laboratories, chemistry, biochemistry, molecular and cell biology and others. These interactions will result in the identification of unexpected synergies and result in increased grant funding through NIH and other mechanisms such as multiple foundations which support neuroscience-related research (e.g., Keck Foundation, MS Foundation, etc). The Center has the potential to allow the University of Arizona to achieve world leadership in areas of neurodegenerative disease.

E. Identify the basic goals and objectives of the new reorganized units.

1) promote fundamental and clinical research;
2) catalyze clinical trials and facilitate translational research for promising new therapeutics;
3) coordinate teaching activities in the College of Medicine related to the human nervous system and diseases of the brain;
4) arrange a program of seminars and meetings to keep faculty, students and researchers up to date on current neuroscience developments which may impact mechanism and treatment of human degenerative disease;
5) develop collaborations with University-wide, Tucson- and Arizona-based research programs, institutes and organizations which have efforts in areas of neuroscience;
6) develop community outreach efforts to provide education and information about
neurodegenerative diseases and new emerging therapies and treatments for those suffering from neurodegenerative disease.

The Center will promote fundamental and clinical research by enhancing the research environment for competitive individual research awards, and by promoting opportunities for program project grants that link strong basic research programs in neuroscience across the campus of The University of Arizona, at both campuses of the College of Medicine and with faculty from other institutions in Phoenix. The CMN will be structured to foster the academic success of newly recruited junior faculty. Senior faculty hires and migration into the CMN from existing faculty, will provide detailed and formal mentorship to junior faculty including especially, junior clinical faculty. Several examples of success at The University of Arizona have provided a framework for pairing junior clinician-scientists with senior researchers. The CMN can improve on this formal model by making the mentoring process integral to the Center's administrative structures.

The Center will promote clinical research by assisting with the organization of clinical trials, especially those requiring coordination and support of multi-center protocols. Additionally, the Center will participate in teaching activities in neuroscience portions of the medical school curriculum and in basic science courses as needed in the College of Medicine.

C. Describe the activities, projects, and programs that will be conducted by the new or reorganized units. Identify the curricular implications of the activities, projects, and programs.

The activities of the Center will emphasize research, translational medicine, education and community outreach. The Center will provide a structure which will allow participation from neuroscience groups within the College of Medicine, and across The University of Arizona and with organizations across the State of Arizona. The educational activities of the Center will provide opportunities for current instruction by faculty of the center to medical and graduate students. Research opportunities for graduate students from across the Campus will also be provided in the laboratories of the faculty of the Center. Faculty of the Center will conduct state of the art neuroscience research in fundamental and clinical aspects of neurodegenerative disease through peer-reviewed and scholarly publications and books, symposia, workshops and scientific meetings. The Center will strengthen neuroscience as an academic discipline and provide opportunities for students to develop their interests and talent in the field beyond the barriers which are often presented by existing departments. Scientists in the Center will also work closely with industry to identify opportunities for novel technology which can be developed through partnerships between the University and the private sector.

D. Identify the unit(s) that will assume the responsibilities of any units that are recommended for elimination.

No units will be eliminated. The CMN will assume new responsibilities.

E. For instructional units, project the number of majors for the next three years.

Not applicable.

III. Resources

A. Faculty and Staff

FACULTY OF THE CENTER: The current faculty for the proposed center are doing research in
relevant areas of neuroscience. Faculty in the College of Medicine (Tucson and Phoenix), and University of Arizona faculty from all Colleges and other units who are conducting thematically relevant neuroscience research will be invited to join the Center.

1. List the name, rank, highest degree; and estimate of the level of involvement of all current faculty and professional staff who will participate in the new or reorganized unit. Also indicate the position each person will hold in the new unit.

Pharmacology
Thomas Davis, Ph.D.
Richard Egleton, Ph.D.
Edward French, Ph.D.
Tanara King, Ph.D.
Josephine Lai, Ph.D.
Michael Ossipov, Ph.D.
Frank Porreca, Ph.D.
Robert Slavik, Ph.D.
Dan Stamer, Ph.D.
Tod Vanden, Ph.D.
Eva Varga, Ph.D.
Henry Yamamura, Ph.D.

Physiology
Ralph Fregosi, Ph.D.
Andy Fuglevand, Ph.D.
Kati Gothard, Ph.D., MD.
Raffi Grunev, Ph.D.
Gail Kosland, Ph.D.
Andrea Yool, Ph.D.

Cell Biology and Anatomy
Nathaniel McMullen, Ph.D.
Paul St. John, Ph.D.

Ophthalmology
Alan Maromstein, Ph.D.
Lihua Maromstein, Ph.D.
Brian McKay, Ph.D.
Dan Stamer, Ph.D.

Neurology
Geoff Ahern, M.D.
Bruce Coull, M.D.
Hemant Kudrimoti, MD, Ph.D.
David Labiner, M.D.
Leslie Ritter, Ph.D., MD.
Scott Sherman, MD, Ph.D.

Psychiatry
Alan Gelabert, M.D.
Richard Langer, MD, Ph.D.
2. List the clerical and support staff positions that will be included in the new unit.
   - Business office personnel
   - College of Medicine personnel
   - Executive Assistant for Center Director

3. Indicate the number of graduate assistants who will be assigned to the new unit.
   - None.

4. Project the number and type of new faculty and staff positions that will be needed by the unit during each of the next three years.
   - The initial hires for the Center in years 1-5 will include:
     - Six basic science faculty;
     - Associated positions including: Administrative Center Coordinator, Webmaster

B. Physical Facilities and Equipment

1. Identify the physical facilities that will be required for the new unit and indicate whether those facilities are currently available.
   - The College of Medicine has identified contiguous space, administrative support and financial resources for the new faculty and for the Director of the CMN. This maximizes opportunities for collaborative research, and sharing of equipment and other resources. The College of Medicine has identified space designed to support the CMN through existing laboratory space in the College of Medicine including, but not limited to, the third and fifth floors of Life Sciences North and the second floor of the Medical Research Building which is scheduled to open in mid-September, 2006. Additional research space is being re-organized in the College to allow for contiguous laboratories devoted to neuroscience research. The availability of this space will be consistent with the time-frame of the new hires described above. Center space may also be obtained from vacated space which may result from the development of the Neuropsychiatric Institute at Keck. Clinical faculty from the Departments of Psychiatry and Neurology are expected to vacate space in the Departments of Psychiatry and Neurology making such space available for new research initiatives. Planning is already underway for basic neuroscience laboratories and research imaging within the phased A2C buildings in Phoenix where additional recruits could be located.

2. List all additional equipment that will be needed during the next five years and the estimated cost.
Specific neuroelectrophysiology and imaging equipment will be required for expanded activities of the Center. The costs for that equipment will be provided by funds already available to the College of Medicine.

C. Library Resources, Materials, and Supplies

No additional requirements.

1. Identify any additional library acquisitions that will be needed during the next three years and the estimated cost.

2. List any special materials or supplies, other than normal office supplies, that will be required by the new unit.

D. Other Information

1. Identify any implications of the proposed change for regional or programmatic accreditation.

Not applicable.

2. Provide any relevant information, not requested above, that will assist reviewers in evaluating the proposed change.

E. Financing

1. Explain the university's plan for providing adequate financing for the unit.

The University of Arizona has expressed a commitment to improving the University through the process of Focused Excellence. As a part of this process, the Provost and the President established a Focused Excellence Committee on Cognitive Sciences and Neuroscience in 2003. This committee provided a detailed report to the Provost in which resources needed to strengthen campus-wide efforts in Cognitive Sciences and Neuroscience across the campus were identified and requested. As a part of this report, numerous faculty lines were requested with appointments of some of these individuals in the College of Medicine. Resources that may be devoted from the State of Arizona in support of establishing the Phoenix campus of the College of Medicine may also be identified therefore as mechanisms to support this initiative.

2. Identify potential sources for external funding for the unit.

The creation of the CMN will provide a focus to help in raising support from federal agencies and private sources. The Director and advisory boards will identify potential sources and individual researchers will also pursue additional funding for both operational and individual projects.

3. If state funds will be used, indicate whether new appropriations will be requested or existing appropriations will be reallocated.

Existing state funds will be reallocated.
3. Complete the New Organizational Unit Budget Projections sheet, projecting the operating budget for the proposed unit for the next three years.

See attached table…

4. Estimate the amount of external funds that may be received by the unit during each of the first three years.

We estimate external funds from sponsored research funding for the first three years as follows:

Year 1: $1.2 million total costs
Year 2: $1.5 million total costs
Year 3: $2.0 million total costs

IV. Other Information

A. For new centers, institutes, laboratories, and bureaus, indicate the sunset date as required by Regents' policy 2-301.G.

Five years

B. Provide any other information not requested above that may be useful in evaluating the proposal.

None

NEW ORGANIZATIONAL UNIT BUDGET PROJECTIONS

The attached Table II should be used for budget projections for proposed new organizational units (departments, centers, institutes, etc.)

Instructions

1. Please submit an original copy of the budget.

2. Project the unit budget by indicating the initial base budget in Column I and the incremental changes in each expenditure area for each of the following two years (Columns 2-3). Each column should include only new costs for each year.

3. Do not include projections for inflationary or routine salary pay changes.

4. On the TOTALS line, list separately the reallocated state appropriated funds from the new state-appropriated funds. All reallocated funds are assumed to be permanent reallocations unless otherwise indicated.

5. For local funds, attach a separate list showing the major sources of local funds and a brief explanation of each source.