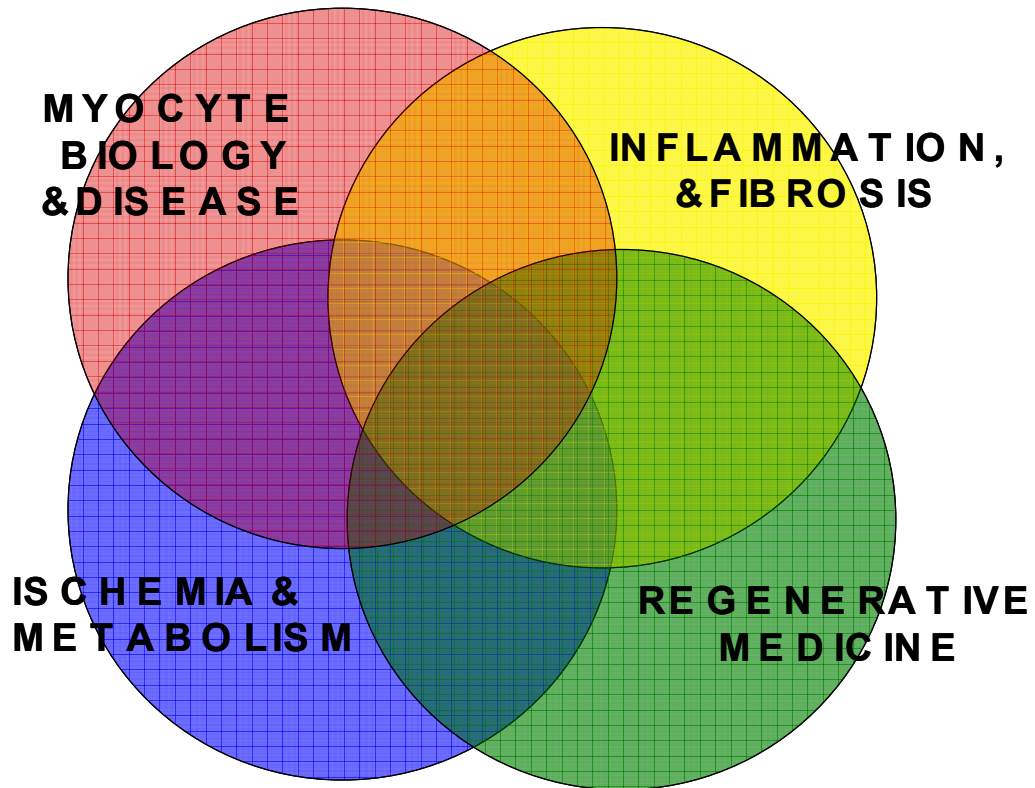




**Dorothy M. Davis Heart & Lung Research Institute  
INTRAMURAL THEMATIC GRANTS PROGRAM**



## ***Introduction***

The Dorothy M. Davis Heart & Lung Research Institute has initiated this “Intramural Thematic Grants Program” to encourage and support DHLRI investigators in developing programs and careers in the four thematic research areas of emphasis and growth of the Institute: *Regenerative Medicine, Myocyte Biology & Disease, Ischemia & Metabolism and Inflammation & Fibrosis*. More information on the goals of each of these specific themes is available on our DHLRI website at <http://heartlung.osu.edu/2291.cfm>

Each program has been endowed with \$2.5 million dollars by the director, Dr. Jay Zweier and the Director’s Executive Cabinet of the Institute. The programs have designed individual investment plans that involve a wide range activities, including recruiting new faculty, developing program project grants and providing incentives and opportunities for existing faculty and trainees. As of March, 2007 we begin our second round of investment in these programs.

This announcement describes the mechanism by which DHLRI faculty members can apply for funds to each of the thematic programs. Though each program has a different emphasis and commitment to intramural support, the programs have combined their efforts in this application process into one format, with a common application procedure and deadline in order to encourage cross fertilization of applications between themes and to provide a rigorous institution-wide mechanism for review.

The overall goal of the investment plan is to provide a mechanism by which these areas of emphasis can grow and sustain themselves by obtaining outside sources of revenue, specifically national funding with indirect costs. The money provided by each of the programs should be thought of as a “venture capital initiative,” invested for the purposes of growth and return on investment. **Therefore, it is important for investigators wishing to apply for these funds to understand the implications of this underlying concept and to provide sufficient rationale and evidence for the strong probability of success in future funding applications and that future funding will benefit the DHLRI via indirect costs.**

## ***Eligibility and Deadlines***

Only DHLRI Members are eligible for funding from the intramural program and only applicants for which indirect costs return to the DHLRI will be considered. Applicants from departments or centers where indirect costs do not return to the DHLRI can, however, serve as co-investigators. In addition, some closely affiliated departments or centers where considerable cost-sharing for DHLRI recruits and faculty is ongoing may be eligible for the intramural program, at the discretion of the DHLRI Director. It is important to receive clarity regarding your eligibility for these awards, prior to submission if you are not housed within DHLRI. Questions regarding eligibility should be addressed to Lorri Fowler, in the DHLRI Administrative office who will facilitate a timely decision on this issue and will sign off on your eligibility.

All applicants must also demonstrate sufficient protected research time to accomplish the project, signed off by the departmental chair and/or division director. Percent effort of the PI or Co-I will not be supported by this funding mechanism.

Two application deadlines per calendar year: The first CY2007 deadline is **April 2, 2007 by 5:00 PM**. The second deadline is expected in the fall of 2007. Funding is targeted to begin July 1 and Nov 1, but the exact dates will be announced. Applicants must submit **1 signed original proposal and 3 paper copies** to the DHLRI Grants Office, c/o Elaine Wakely, 110C HLRI, 473 W 12<sup>th</sup>, Elaine.wakely@osumc.edu. The grants staff will date your proposal upon submission.

### ***The Grant Review Process***

All grants will undergo Scientific Review by an DHLRI Study Section comprised of 2 senior investigators from each of the four programmatic themes (8 total) who have extensive grant review experience at a national level. These investigators will serve as primary and secondary reviewers for all proposals. Directors and Assistant Directors of each thematic program are ineligible for the review process as they will be involved at the next level of review. In addition, a total of 8 junior faculty will be invited to participate as readers with specific assignments for discussion of the grants. All proposals will receive an NIH-based scientific priority score with a written review which will be made available to the applicants.

Following the Scientific Review, the proposals will undergo a second evaluation to determine if they will be funded by specific programs and to what extent programs might share support for areas overlapping between themes. In this way, the leadership of each programmatic theme can further prioritize each proposal up or down in priority based on its alignment with the long term goals of the Institute and the goals of the specific thematic program.

Applications will be prioritized by the Scientific Review Committee based on the following criteria:

- The realistic expectations of return of investment to the DHLRI in the form of future research funding. This, of course, depends on the scientific merit and the quality of the investigative team. Inter-thematic proposals (i.e. that apply to more than one theme) will receive prioritized consideration.
- The extent to which the project aligns with the direction of one or more themes and its level of creativity and potential impact to the DHLRI as a scientific community.
- The extent to which the project applies to short and long range PPG/SCOR projects under one or more thematic programs.
- Special consideration and prioritization will be given to translational projects that relate to one or more of the themes and incorporate collaboration with basic science and clinical investigators in the DHLRI.

Projects are NOT sought which:

- Are Research Development Grants (RDGs) from P.I.'s with two or more ongoing RO-1 NIH grants or equivalent. These investigators, however, are encouraged to submit proposals for support of new PPG initiatives through this process.
- Are simple continuations of previously funded projects and show no new direction or new collaboration.
- Are from investigators looking for support in areas that do not directly align with the thematic programs.
- Do not provide a minimum of future indirect costs (expenditure credit) back to the DHLRI or arise from non-DHLRI members. The minimum indirect cost allocation needs to be agreed upon before application submission. Please contact Lorri Fowler, DHLRI Administrative Director for assistance on completion of this section of your application.

For specific questions regarding the appropriateness of an application for investment from a specific programmatic theme and particularly the appropriateness of a PPG support initiative, contact the director and/or other members of the leadership of the program you are submitting to. The leadership of each program can be found on the PDF documents for each program on the DHLRI website ( <http://heartlung.osu.edu/2291.cfm> )

All funded projects will be reviewed at 6 month intervals by a special review panel, made up of Institute scientists and administrators, who will evaluate the extent to which progress is on course relative to the stated goals specified in the proposal. This will be matched with the level and appropriateness of expenditures to that point.

## *Categories and resources for Intramural Grants*

### **Research Development Grants (RDG)**

Proposals in this category are designed to 1) provide bridge support for investigators with planned or pending RO-1 proposals that fit within a given theme and need additional time/resources to develop preliminary data, 2) support of initiatives from investigators with less than two existing RO-1s who wish to embark on a significant investment on a new theme or overlapping theme for the purposes of securing future funding, 3) Matching funds for new investigators with existing funding from private institutions on a subject directly related to one or more themes. Most programs have designated specific amounts of funds in this category (see below) for basic and translational science. Therefore, the projects should identify on the application if they are: **Basic Research Development Grant** or **Translational Research Development Grant**. In all cases the application procedure is the same but the funding sources will often come from different pools. Grants are limited to one year of support with the potential for application renewal with a maximum of one additional year. These grants are expected to be in the \$30-\$50K range.

### **Bridging Fellowship Grants (BFG)**

PLEASE NOTE THE CHANGE IN THIS GRANT CATEGORY. BFG proposals are designed to provide NEW opportunities for integrative research and training BETWEEN laboratories. In all cases, matching funds (50% FTE) are required from the host laboratories and more than one DHLRI laboratory must participate to bridge the fellow's activities on projects and to facilitate interdisciplinary work on a given theme. These grants are to be written jointly by collaborating P.I.s and are not designed to be a grant mechanism for fellow-initiated applications. In most cases this will be an opportunity for P.I.s to use these funds to recruit new fellows into their joint laboratories for the sole purpose of facilitating a new direction of research. Opportunities for both pre- and post-doctoral support are offered and should be designated on the proposal as: **Predocutorial Bridging Fellowship Grant** or **Postdoctoral Bridging Fellowship Grant**. Only stipend and fellowship benefits should be included in the budget. Tuition and Fees will not be supported and must be provided by other mechanisms. Funds should not be used for laboratory supplies or equipment. Applications should be prepared and submitted by P.I.s and not by trainees. Grants are limited to one year of support with the expectation that other fellowships and support mechanisms will be successful during this period. Renewal applications will be considered with appropriate justification.

### **Program Project Initiative Grants (PPIG)**

PLEASE NOTE THE CHANGES IN THIS GRANT CATEGORY. Each Program has dedicated varying amounts of funds for development of Program Projects that are independent of the funds set aside for other intramural programs. These projects should only be put forward after careful discussion with the leaders of the individual programs to see if they align with the objectives of that program. The amount of support/year for PPG support is not set but should be in the \$100K to \$150K per year range to allow for preliminary data in a new PPG direction. It is expected that only very senior investigators with strong funding history, along with a team of 3-5 other funded investigators would apply for these support funds. Please note that the format for submission of these grants has changed in this funding cycle in that one overall PPG grant summary will be required and individual grants for each sub-project of the PPG. The directions are explicitly stated below.



**Title:**

**Abstract**

Summarize in this space the overall purpose for the research requested, the specific aims, how the funding will support the overall goals of the HLRI Thematic Program and the expectations for successful future grant applications, publications, faculty interactions, etc.



## **Written Application and instructions for Research Development Grants (RDG):**

Instructions: (1 inch margins, 11 Arial font)

1. **Introduction** (for revised applications only – 1 page limit) Provide a summary of the substantial additions, deletions, and changes since the last submission. Also include responses to the criticisms and issues raised from the last review.
2. **NIH Biosketch.** Include a biosketch for only the PI and Co-Is. List the current, pending and recent past funding (2 yrs) for each applicant
3. **Specific Aims** (limit 1 page).
4. **Return on Investment:** (no page limit). Plans for new proposals for funding that will occur due to this investment should be summarized in this section. For all planned and pending applications for funding that will be submitted or are submitted on this research theme, include PI name, title, sponsor, projected dollar amount (direct costs), indirect cost rate, start and end dates. Be sure to give a thorough description of the relationship of this proposal with all current or planned applications expected as a result of this funding support. Give the degree of overlap with current funded programs and the expected time that will be required for funding success. Investigators are encouraged to provide previous NIH reviews and scores for evaluation in an appendix to show how close they are in receiving funding in this area.
5. **Background and Significance** (limit 2 pages). Include scientific and health-related significance and the relationship of the project to the major thematic programs of the DHLRI and planned PPGs, translational research development, etc.
6. **Preliminary Data** (3 pages maximum). Note; not absolutely necessary in all cases. Be succinct.
7. **Research Plan** (limit 5 pages) Use NIH guidelines. Avoid highly specific details regarding scientific methods, provide overall rationale and algorithms for the experimental approaches proposed, using the outline of specific aims as a template.
8. **Budget:** Use the form page provided on page 13.
9. **Timetable and Milestones:** (limit 1 page) projected for 6, 12 and 18 month evaluation periods. Be very specific. Programs will not be scored that do not have clearly defined 6 month objectives. How well the program meets these objectives will determine the extent of continued funding.

## Written Application and instructions for Bridging Fellowship Grants (BFG):

Instructions: (1 inch margins, 11 Arial font)

- 1. Introduction** (for revised applications only – 1 page limit) Provide a summary of the substantial additions, deletions, and changes since the last submission. Also include responses to the criticisms and issues raised from the last review.
- 2. NIH Biosketch of the two or more Bridging PIs on the grant.** Include current, pending and recent past funding (2 yrs) for each PI.
- 3. NIH Biosketch of the proposed candidate** (if one currently is identified). Include any current or prior fellowship support the candidate has acquired.
- 4. Specific Aims** (limit 1 page). Discuss the purpose of bridging fellowship which should be designed to promote a new research direction of the PIs along the thematic programs. Include specific aims of the project the fellow will be working on with the PIs.
- 5. Return on Investment:** (no page limit). Plans for new proposals for funding that will be submitted due to this investment should be summarized in this section. For all planned and pending proposals for funding, which will be submitted or are submitted on this research theme include PI name, title, sponsor, projected direct costs, indirect cost rate, start and end dates. Be sure to give a thorough description of the relationship of this proposal with all current or planned applications that will be expected as a result of DHLRI support, including planned training grants and K awards for the trainee. If the fellow currently is employed, how is he/she being supported? Give the degree of overlap with current funded programs and the expected time that will be required for funding success. Investigators are encouraged to provide previous NIH reviews and scores for evaluation in an appendix to show how close they are in receiving funding in this area. In brief, how will receiving this grant benefit the DHLRI?
- 6. Training environment:** (limit 1/2 page). Discuss how this proposal will contribute to the long term training of the proposed candidate and how it will facilitate the progress of his or her career. Is this the best location for the career development of the trainee? Discuss the mentorship experience of the PIs on the proposal and what special training opportunities will be obtained by collaboration of the laboratories in question. In brief, how will receiving this grant benefit the trainee?
- 7. Discussion of the Trainee and relationship to the project.** (limit 1/2 page) If a trainee is identified for the project, discuss what special attributes qualify him or her for this new direction and how the project fits with his or her career objectives. If a trainee is to be recruited into this position, discuss what qualifications or types of candidates you will be looking for and your specific recruitment plans. For graduate student trainees discuss the mechanism for covering tuition and fees. For all candidates discuss sources of the 2<sup>nd</sup> half of their support.

- 8. Background and Significance** (limit 2 pages). Include scientific and health-related significance and the relationship of the project to the major thematic programs of the DHLRI and planned PPGs, translational research development, etc.
- 9. Preliminary Data** (1 pages maximum). Note; not absolutely necessary. Be succinct.
- 10. Research Plan** (limit 3 pages) Use NIH guidelines. Avoid highly specific details regarding scientific methods, provide overall rationale and algorithms for the experimental approaches proposed, using the outline of specific aims as a template.
- 11. Budget:** (Only use the budget form page provided in this announcement). Only ½ the fellowship stipend support will be provided by this proposal. No other support categories apply to BFGs.
- 12. Timetable and Milestones:** (limit 1 page) projected for 6, 12 and 18 month evaluation periods. Be very specific. Proposals will not be scored that have not set out clearly defined 6 month objectives. How well the program meets these objectives will determine the extent of continued funding.

## Written Application and instructions for Program Project Initiative Grants (PPIG):

Instructions: (1 inch margins, 11 Arial font)

1. **Introduction** (for revised applications only – 1 page limit) Provide a summary of the substantial additions, deletions, and changes since the last submission. Also include responses to the criticisms and issues raised from the last review.
2. **NIH Biosketches.** Provide biosketches for the Program Leader, Project PIs, and Co-Is. Include current, pending and recent past funding (2 yrs) for each applicant and for each member of the team.

### DIRECTIONS FOR OVERALL PROJECT APPLICATION.

3. **Specific Aims and Hypotheses of the Entire Program Project** (limit 1 page) (note: specific aims of the individual projects of the PPIG will be expected in the individual project descriptions.
4. **Return for Investment:** (no page limit). Plans for new funding that will occur due to this investment should be summarized in this section. For all planned and pending funding include P.I., title, source, projected dollar amount, start and end dates that will be submitted or are submitted on this research theme. Be sure to give a thorough description of the relationship of this proposal with all current or planned applications for PPG projects as a result of this funding support. Give the degree of overlap with current funded programs, etc. and the expected time that will be required for funding success. Investigators are encouraged to provide previous NIH reviews and scores for evaluation in an appendix to show how close they are in receiving funding in this area. Overlap with current or planned RO1 funding of individual PGIG projects can be provided in each project description.
5. **Overall Background and Significance** (limit 2 pages). Include scientific and health-related significance and the relationship of the project to the major thematic programs of the DHLRI and planned PPGs. Provide in this section the “big picture” of how your group is poised at OSU to be competitive in this project.
6. **Overall Project Plan** (limit 3 pages) Use NIH guidelines. Use this section to provide details on how all of the projects will be integrated, how the program leader will coordinate the activities of the project leaders to ensure timely success of the submission. Discuss any core facilities that will be common to all projects. Avoid highly specific details but provide overall rationale for the integrated project and how the projects mesh together into a common theme.
7. **Budget:** (Use the budget form page provided in this announcement). In this section describe only budgetary items that are not unique to the individual projects. Individual budgets will be requested for the specific projects. At the end of this budget page in the open rows include a column of the summarized total costs of each project by project name and a grand total for the entire PPIG.

8. **Timetable and Milestones:** (limit 1 page) projected for 6, 12 and 18 month evaluation periods. Be very specific. Programs will not be scored that have not set out clearly defined 6 month objectives. How well the program meets these objectives will determine the extent of continued funding.

#### **DIRECTIONS FOR INDIVIDUAL PROJECTS WITHIN THE PPIG**

8. **Title and Specific Aims of the Individual Project** (limit 1 page).
9. **Return on Investment:** (no page limit). Plans for new funding for this specific project that will occur due to this support should be summarized in this section. These should include any individual RO1s that are expected to be submitted, independent of the PPG. For all planned and pending applications that will be submitted or are submitted on this research theme include the PI name, title, source, projected dollar amount (direct costs only), start and end dates. Give the degree of overlap with current funded programs and the expected time that will be required for funding success at the individual RO1 level. Investigators are encouraged to provide previous NIH reviews and scores for evaluation in an appendix to show how close they are in receiving funding in this area.
10. **Background and Significance** (limit 1 page). Include scientific and health-related significance and the relationship of this individual project to the major thematic programs of the DHLRI and planned PPGs, translational research development, and the proposed PPG.
11. **Preliminary Data** (3 pages maximum). Be succinct.
12. **Research Plan** (limit 4 pages). Use NIH guidelines. Avoid highly specific details regarding scientific methods, provide overall rationale and algorithms for the experimental approaches proposed, using the outline of specific aims as a template. Be succinct.
13. **Budget:** (Use the budget form page provided in this announcement for each individual project). Write an individual budget for this project within the larger PPIG framework. This will be included with the overall budget of the PPIG project.
14. **Timetable and Milestones:** (limit 1 page) projected for 6, 12 and 18 month evaluation periods. Be very specific. Programs will not be scored that have not set out clearly defined 6 month objectives. How well the program meets these objectives will determine the extent of continued funding.

<b>DHLRI Intramural Thematic Plan – Detailed budget</b>				
<b>HLRI Support Request Budget Plan</b>				<b>YEAR 1</b>
<b>Principle Investigator Name:</b>				
<b>Title of Project:</b>				
<b>Personnel Costs</b>				
<b>Name</b>	<b>% Effort</b>	<b>12 month Salary</b>	<b>Fringe*</b>	<b>Total</b>
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
<b>Personnel Total:</b>				
<b>Supplies and Other (itemize)</b>				\$0.00
<b>Other Costs (DHLRI Core services, statistical services, patient care costs etc)</b>				\$0.00
<b>Equipment</b>				\$0.00
<b>Total \$ Request</b>				\$0.00
<b>Fringe Rates: Faculty 26.1%; Postdoctoral Researcher &amp; A&amp;P Staff 30.1%</b>				
DHLRI Intramural Thematic Grants Budget Form Page				