MEMORANDUM

To: Board of Regents

From: Board Office

Subject: Post-Audit Reports, SUI

Date: March 3, 2003

Recommended Actions:

1. Receive the Post-Audits from the University of Iowa.

2. Approve the continuation of:
   - The Doctoral Degree in Women’s Studies;
   - The Doctoral Degree in Social Work; and
   - The Center for Macular Degeneration.

3. Approve the temporary continuation of the Bachelor of Science in Oral Health Science for a period of two years, with the stipulation that the University provides the Board with a report six months prior to the end of the two-year period, justifying the continuation of the program.

Executive Summary:

Initially Approved in 1997

The University of Iowa has submitted four Post Audit reports consistent with the Board’s Policy (Policy Manual §6.07) that requires evaluation reports on all newly approved programs five years after initial approval by the Board of Regents. It is also consistent with the Board of Regents Strategic Plan. The University has submitted reports on four programs initially approved by the Board in 1997, as noted below.

Low Enrollment Program

Bachelor of Science in Oral Health Science. This program is a very low enrollment program with only one student currently enrolled in the program and only one living graduate. The number of graduates is considerably less than was projected at the time of its initial approval.

This program was established following the termination of the SUI Dental Hygiene Program a number of years ago. The University needs to review this program in light of its current relatively poor performance. A report with recommendations should be provided for Board consideration in Spring 2005. [See Attachment A, pages 3-6.]
Appears to be a Viable Program

**Doctoral Degree in Women’s Studies.** This program currently has fifteen enrolled students. Since this program draws on resources from the various disciplines, the University indicates that there have been no increased expenditures as a result of offering this program and none are projected for the next three years. [See Attachment B, pages 7-10]

Appears to be a Viable Program

**Doctoral Degree in Social Work.** This program has thirteen students currently enrolled in the program, with modest increases in projected enrollment for the next three years. The increased costs for offering this program in the past three years have been for equipment ($1,320), general expense ($37,552), and graduate assistants ($292,368). [See Attachment C, pages 11-12.]

Center Appears to be Successful

**Center for Macular Degeneration.** This Center is the only one of its kind in Iowa. It occupies a 41,000 square foot laboratory and coordinates nearly 200 full-time individuals in clinical and laboratory settings. Its mission is to identify the primary causes of age-related macular degeneration and allied disorders, and to apply, develop and deliver advanced medical, surgical, rehabilitative, and educational services around the world. It has been successfully supported by funds from federal agencies, patient care, endowed income, tuition, corporate support, foundations, state and private donations amounting to $20,400,000 in 2001-2002. [See Attachment D, pages 13-22.]

Reviewed by ICEC and Board Office

The Interinstitutional Committee on Educational Coordination (ICEC) and the Board Office have reviewed the Post-Audit Reports from the University of Iowa. The ICEC and the Board Office recommend:

- Approval of the continuation of the Doctoral Degree in Women’s Studies; the Doctoral Degree in Social Work; and the Center for Macular Degeneration.

- Approval of the temporary continuation of the Bachelor of Science in Oral Health Science for a period of two years, with the stipulation that the University provides the Board with a report six months prior to the end of the two-year period, justifying the continuation of the program.

Regent Post-Audit Questions

Responses to the Regent Post Audit Review Questions are attached [See Attachments A through D].
Post-audit Report to the Board of Regents, State of Iowa,
on the
Bachelor of Science Program in Oral Health Science
The University of Iowa
September 2002

Dr. Yvonne Chalkley, Associate Dean
College of Dentistry
N311C Dental Science Building
The University of Iowa
Iowa City IA 52242
319-335-7164
4. Succinctly describe the basic purposes and objectives of the unit.

5. How will the activities of the unit relate to the general mission and teaching programs of the university?

6. Do similar units exist at other public or private colleges or universities in Iowa? If so, how does the proposed unit relate to them?

7. What are the proposed sources and annual amounts of funding for the unit? Please itemize. (Include faculty, staff, and clerical salaries; supplies; equipment; travel; other costs)

<table>
<thead>
<tr>
<th>Budgetary Item</th>
<th>Source of Funds</th>
<th>Annual Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. Which of the costs in item 7 represent new financial obligations to the general fund of the university?

6.07 Post-Audit of New or Expanded Programs

A. All new or expanded programs, excluding minors, will be subject to a post-audit after five years of existence. These post-audits will include, but are not limited to, responses to the questions below. Recommendations for approval of new programs will include the following statement:

The university is reminded that a post-audit report will be due on this program on [ date ]. It is requested that the university set in place mechanisms for accumulating the appropriate information necessary to complete the Regents' post-audit review questions, so that each question can be fully respond to on this date.

1. Is this program now available in other Regent universities or in other colleges and universities in Iowa? No

2. List actual headcount enrollments and credit hours generated by majors and separately for all others in this program for the last five years and estimate these items for the next three years.

5/15/98
1998–99

<table>
<thead>
<tr>
<th></th>
<th>Year</th>
<th>Year</th>
<th>Year</th>
<th>Crnt</th>
<th>Next</th>
<th>Sec</th>
<th>Third</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>Majors</td>
<td>1*</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nonmajors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Degree awarded 6/4/99; deceased 4/10/99

Graduate

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Majors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonmajors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How many dropouts of this program can be identified over the last five years? What reasons were given for leaving the program? **None**

3. What have been the employment (placement) experiences of any graduates of this program? **N/A**
   a. How many students have graduated (completed) this program (by year)? **1 1998–99**
   b. What has been the success rate for graduates with respect to certification and/or licensure, if applicable? **N/A**
   c. How many undergraduate completers of the program have been accepted into graduate study programs? **0**
   d. What has been the success rate for obtaining jobs for graduates of the program:
      1) in the field or a related field? **N/A**
      2) in nonrelated fields? **N/A**
      3) unemployed? **N/A**
   e. What has been the success rate for obtaining the preferred first job in the field by graduates of the program? **N/A**

4. Has this program been fully accredited? If not, why, and when is such accreditation anticipated? **N/A**

5. Outline the current FTE staffing of the program and estimate future staffing needs for the next three years. **Unknown**

6. Outline the increases in expenditures that resulted from the adoption of this program, as well as estimate the increases which will occur over the next three years.

<table>
<thead>
<tr>
<th></th>
<th>Year</th>
<th>Year</th>
<th>Year</th>
<th>Crnt</th>
<th>Next</th>
<th>Sec</th>
<th>Third</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Estimated</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5/15/98
<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty</td>
<td></td>
</tr>
<tr>
<td>Graduate Assistants (other staff)</td>
<td></td>
</tr>
<tr>
<td>General Expense (excluding computer use)</td>
<td></td>
</tr>
<tr>
<td>Equipment</td>
<td></td>
</tr>
<tr>
<td>Library Resources</td>
<td></td>
</tr>
<tr>
<td>Space Needs (amt. &amp; cost of new space and/or remodeled space)</td>
<td></td>
</tr>
<tr>
<td>Computer use</td>
<td></td>
</tr>
<tr>
<td>Other Resources (explain)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**

*Only 1 part time student enrolled. She is taking Liberal Arts courses at this time with no increase in costs for one person.*

B. The Committee on Educational Coordination shall file its written reports on proposed, new, or expanded programs with the Board Office at least 10 working days prior to the docket day which precedes the Board meeting at which action on the program is desired. The Board Office shall then review and comment on the proposed new, expanded, or post-audited programs. (Board of Regents Minutes November 12-13, 1970, p. 170; September 9-10, 1971, p. 105; February 13-14, 1975, p. 506; June 25-26, 1975, pp. 804-805; September 18-19, 1980, pp. 184-185)

5/15/98
Post-audit Report to the State of Iowa Board of Regents

On the

Doctoral Degree Program in Women’s Studies

The University of Iowa
September 2002

Rosemarie Scullion, Interim Chair
Department of Women’s Studies
716 Jefferson Building
University of Iowa
Iowa City, Iowa 52242
(319) 335-0322
rosemarie-scullion@uiowa.edu
All new or expanded programs, excluding minors, will be subject to a post-audit after five years of existence. These post-audits will include, but are not limited to, responses to the questions below.

1. Is this program now available in other Regent universities or in other colleges and universities in Iowa? No.

2. Date program was approved by Board of Regents and date program was implemented.

   The Ph.D. program in Women’s Studies was approved in August 1997, and the first students were admitted in August 1998.

3. a. List actual headcount enrollments and credit hours generated by majors and separately for all others in this program for the last five years and estimate these items for the next three years.

   During the first year, three students were admitted. Subsequently, the program has admitted three to six students each year.

<table>
<thead>
<tr>
<th>Year</th>
<th>Graduate # of students in program</th>
<th>Majors # of credit hours generated</th>
<th>Nonmajors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year One</td>
<td>1998-99 99-00 00-01 01-02 02-03 03-04 04-05 05-06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>8</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>40</td>
<td>102</td>
<td>127</td>
</tr>
<tr>
<td>115</td>
<td>89</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

b. How many dropouts of this program can be identified over the last five years? 3

4. What have been the employment (placement) experiences of any graduates of this program?
   a. How many students have graduated (completed) this program (by year)? None.

      To date, no student has completed the program. We expected two students to complete degree requirements and to receive the Ph.D in 2003-4, and three more in 2004-5.

   b. What has been the success rate for graduates with respect to certification and/or licensure, if applicable? NA

   c. How many undergraduate completers of the program have been accepted into graduate study programs? NA

   d. What has been the success rate for obtaining jobs for graduates of the program? NA

   e. What has been the success rate for obtaining the preferred first job in the field by graduates of the program? NA

5. Has this program been fully accredited? If not, why, and when is such accreditation anticipated? NA
6. Outline the current FTE staffing of the program and estimate future staffing needs for the next three years.

   The Department of Women's Studies currently has four FTE appointments. We have added no additional faculty or support staff for the Ph.D. Program. The Women's Studies Department's support staff, consisting of two secretaries with 40% appointments, have taken on the additional responsibilities generated by the Ph.D. Program. We expect to request further faculty and staff support as our needs increase and as resources become available.

7. Provide operating budget for the proposed program or the unit that houses the program if an individual budget is not available. NA
8. Outline the increases in expenditures that resulted in the adoption of this program, as well as estimate the increases which will occur over the next three years.

<table>
<thead>
<tr>
<th></th>
<th>ACTUAL</th>
<th></th>
<th>ESTIMATED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Year</td>
<td>Year</td>
<td>Year</td>
</tr>
<tr>
<td></td>
<td>One</td>
<td>Two</td>
<td>Three</td>
</tr>
<tr>
<td></td>
<td>98-99</td>
<td>99-00</td>
<td>00-01</td>
</tr>
<tr>
<td>Faculty</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Graduate Assistants</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>General Expense **</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Equipment</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Library Resources</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Space Needs</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Computer Use</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Other Resources</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
</tbody>
</table>
All new or expanded programs, excluding minors, will be subject to a post-audit after five years of existence. These post-audits will include, but are not limited to, responses to the questions below.

1. Is this program now available in other Regent universities or in other colleges and universities in Iowa? No.

2. The Ph.D. program in Social Work was approved in June 1997, and the first student were admitted in August 1998.

3. a. List actual headcount enrollments and credit hours generated by majors and separately for all others in this program for the last five years and estimate these items for the next three years. During the first year, five students were admitted. Subsequently, the program has admitted one or two students each year.

<table>
<thead>
<tr>
<th>Year</th>
<th>Year</th>
<th>Year</th>
<th>Year</th>
<th>Year</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>Two</td>
<td>Three</td>
<td>Four</td>
<td>Current</td>
<td>Year</td>
</tr>
<tr>
<td>1998-99</td>
<td>99-00</td>
<td>00-01</td>
<td>01-02</td>
<td>02-03</td>
<td>03-04</td>
</tr>
</tbody>
</table>

   Graduate
   # of students in program 5 7 9 12 13 15 17 19

   Majors
   # of credit hours generated 90 149 140 155 165 195 250 284

   Nonmajors 0 0 0 3 0 0 0 0

   b. How many dropouts of this program can be identified over the last five years? None

4. What have been the employment (placement) experiences of any graduates of this program?

   a. How many students have graduated (completed) this program (by year)? None. To date, no student has completed the program; we expect the first five students to complete all degree requirements and be awarded the Ph.D. in 2003-04.

   b. What has been the success rate for graduates with respect to certification and/or licensure, if applicable? NA

   c. How many undergraduate completers of the program have been accepted into graduate study programs? NA

   d. What has been the success rate for obtaining jobs for graduates of the program: NA

   e. What has been the success rate for obtaining the preferred first job in the field by graduates of the program: NA

5. Has this program been fully accredited? If not, why, and when is such accreditation anticipated? NA

6. Outline the current FTE staffing of the program and estimate future staffing needs for the next three years.

   We have added no new staff for the PhD program. Instead, we have asked the School of Social Work’s current staff (our two Iowa City secretaries, the Program Administrator, and the Operations Administrator) to take on additional responsibilities.
7. Outline the increases in expenditures that resulted from the adoption of this program, as well as estimate the increases which will occur over the next three years

<table>
<thead>
<tr>
<th></th>
<th>ACTUAL</th>
<th></th>
<th></th>
<th></th>
<th>ESTIMATED</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Year</td>
<td>Year</td>
<td>Year</td>
<td>Year</td>
<td>Crnt</td>
<td>Next</td>
<td>Sec</td>
<td>Third</td>
<td></td>
</tr>
<tr>
<td>Year</td>
<td>98-99</td>
<td>99-00</td>
<td>00-01</td>
<td>01-02</td>
<td>02-03</td>
<td>03-04</td>
<td>04-05</td>
<td>05-06</td>
<td></td>
</tr>
<tr>
<td>Faculty</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>Graduate Assistants*</td>
<td>32,956</td>
<td>64,235</td>
<td>87,724</td>
<td>107,453</td>
<td>76,029</td>
<td>63,773</td>
<td>91,200</td>
<td>86,226</td>
<td></td>
</tr>
<tr>
<td>General Expense **</td>
<td>8,436</td>
<td>9,109</td>
<td>9,541</td>
<td>10,466</td>
<td>11,200</td>
<td>11,200</td>
<td>11,200</td>
<td>11,200</td>
<td></td>
</tr>
<tr>
<td>Equipment</td>
<td>none</td>
<td>none</td>
<td>1,320</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>1,500</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Library Resources</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Space Needs</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>Computer Use</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td></td>
</tr>
</tbody>
</table>

Other Resources

* PhD graduate assistants are supported from several sources - state appropriations, grants, and tuition revenues. The dollar amounts mentioned above include total support received from all sources. There has not been an increase in state funded appropriations to cover expenses associated with the PhD student support. PhD students are supported with existing funds. During academic years 02 through 06, PhD student support is estimated according to obligations to the estimated number of students. For example, the estimate for academic year 02-03 includes our obligation to students in the second year of the program plus 5 new students.

** Note that there has not been an increase in the School's state funded allocation to cover general expenses associated with the PhD program. All expenses mentioned above have been paid with existing funds. PhD program expenses are calculated as 20% of the overall budget. General expenses include supplies, long distance phone, postage, photocopying, printing service, student hourly assistance, advertising and student/faculty travel. For example during academic year 00-01 PhD program advertising totalled $3,048 and student/faculty travel totalled $3,772 of the overall budget. During academic year 01-02 the PhD program was advertised in conjunction with our BSW & MSW program advertising. PhD student/faculty advertising totalled $4,463.
Response to Specific Post-Audit Questions

Submitted by

Edwin M. Stone, M.D., Ph.D.
Professor-Department of Ophthalmology and Visual Sciences
Director- University of Iowa Center for Macular Degeneration

Question 1: Is this program now available in other colleges and universities in Iowa?

No. The University of Iowa Center for Macular Degeneration is the only Center of its kind in Iowa. The Center for Macular Degeneration was created in 1997. The Center occupies about 41,000 square feet of laboratory space and coordinates from the efforts of nearly 200 full-time individuals in clinical and laboratory settings. Its mission is to identify the primary causes of age-related macular degeneration and allied disorders; to apply this improved understanding of disease mechanisms to the prevention of retinal degeneration in the majority of people at risk, as well as to the development of sight-saving medical, pharmacological and surgical treatments for those already affected; and to deliver the most advanced medical, surgical, rehabilitative, and educational services available to patients in a timely, caring and cost effective manner. Macular degeneration is the most common cause of legal blindness in the United States and other developed countries. About 10% of people over age 65 and 30% over age 75 are affected to some degree.

Question 2: Date program was approved by the Board of Regents and date program was implemented.

The program was approved by the Board of Regents on June 4, 1997 and implemented immediately thereafter.
Question 6: Outline the current staffing of the program and estimate future staffing needs for the next three years.

Center Personnel: See exhibit “A”

Future Staffing: The Center for Macular Degeneration is in a growth phase. These areas of research are not through reaching their full potential, and are expected to grow approximately 5% per year for at least the next 3 years center wide.

Question 7: Provide operating budget for proposed program or the unit that houses the program if an individual program budget is not available.

Exhibit “B” depicts all of the financial resources granted to or generated by the faculty of the Center for Macular Degeneration during the fiscal year July 1, 2001 to June 30, 2002. Because the interests and expertise of the faculty are broad, many of these resources were used to conduct work that is outside the field of macular degeneration. However, even these non-macular-degeneration projects contribute significantly to the pool of talented and experienced scientists (and the pool of valuable instruments and reagents) available to the faculty for application to their macular degeneration.

Question 8: Outline the increases in the expenditure that resulted in the adoption of this program, as well as estimate the increases that will occur over the next three years.

No state money was specially allocated to initiate this program. At the present time, the only state money that directly supports the Center for Macular Degeneration, is the small component of state support embedded within each faculty members salary. At the present time, this represents less than 1% of the entire operating budget of the Center for Macular Degeneration. It is anticipated that an even larger fraction of investigators salaries will be derived from philanthropical grant sources in the next 5 years, so that the fraction of state support should continue to fall from its already very low level. Of course, in as much as the Center for Macular Degeneration exists within the confines of the University of Iowa as a whole, the Center obviously benefits from the very large amount of state support for the University as a whole. However, none of the state funds are handled directly by the Center.
Exhibit "A"

**CMD Personnel** – 193 full-time individuals, organized as follows

The Clinical Sciences and Applications Group
Stephen R. Russell, M.D., Unit Director

**Retina Service**

**Faculty**
- H. Culver Boldt, M.D.
- James C. Foll, M.D.
- Karen M. Gehrs, M.D.
- Stephen R. Russell, M.D.
- Edwin M. Stone, M.D., Ph.D.
- Thomas A. Weingeist, Ph.D., M.D.

**Fellows**
- Karin Sletten, M.D.
- Denise Kaiser, M.D.
- Matthew Wood, M.D.
- Esther Bowie, M.D.

**Nurses**
- Connie Copeland, R.N.
- Sara Smith, R.N., M.A., CRNO

**Technicians**
- Thomas Fisher
- Marcia Griffin, COA
- Kimberly Broadie
- Phyllis May, COA
- Laura Warner, RSDMS

**Research Assistants**
- Connie Fountain, COT, CCRC
- Jill Hageman, R.N.
- Steven Wallace
- Heather Stockman, CCRC

**Photography Service**
- Tracy Aly, Photography Director
- Photographers
  - Michael Harker
  - Edward Heffron
  - Stephanie Karakas
  - Randy Verdi
- Photo Archive Manager
  - Barbara Murphy

**Kolder Electrophysiology Laboratory**

**Faculty**
Edwin M. Stone, M.D., Ph.D.
Research Assistants
Louisa Affatigato, RA III
Paula Moore, RA III
Kelley Kopp, RA II

Perimetry Service
Faculty
Wallace L. M. Alward, M.D.
Research Assistant
Benita Carney, RA I

Perimetrist
Carol Coglan
Kathleen Jacobsen
Patti Schuller
Brenda Swihart
Paul Swihart

The Molecular Ophthalmology Laboratory
Edwin M. Stone, M.D., Ph.D., Unit Director
Faculty
Edwin M. Stone, M.D., Ph.D.
Graduate Student
Suma Shankar
Research Assistants
Luan Strebl, Senior Research Assistant
Paula Moore, RA III
Christine Taylor, RA III
Louisa Affatigato, RA III
Jean Andorf, RA II
Heidi Haines, RA II
Kelly Kopp, RA II
Chris Eastman, RA I
Jeni Secrist, RA I
Katie Schrum, RA I
Mary Randolph, RA I
Katerin Melendez, RA I
Erin Rosenthal, RA I
Nicole Phillips, RA I
Ben Roos, RA I
Rhett Sutphin

The Laboratory for Disease Gene Discovery
Val C. Sheffield, M.D., Ph.D., Unit Director
Faculty
Val C. Sheffield, M.D., Ph.D.
BC Ho, Assistant Professor
Tom Wassink, Assistant Professor
Melissa Fath, Postdoctoral Associate
Kirk Mykytyn, Postdoctoral Associate
Associate Research Scientists
Darryl Nishimura, Ph.D.
Ruth Swiderski
Roxanne Walder
Undergraduate Students
Rachel Berger
Amanda Meyer
John Schram
Kristin Udelhofen
Graduate Student
David Yen
Administrative Assistant II
Denise Aguilar Crouch
Research Assistants
Gretel Beck, RA III
Ann Nalley, RA III
Kevin Bugge, RA II
Rebecca Frantz, RA I
Nathan Bedford, RA I
Laura Young, RA I
Technicians
Charles Searby, Research Technician III
Michael Andrews, Research Technician III
John Beck, Research Technician III

The Gene Therapy Group
Beverly Davidson, Ph.D., Unit Director
Faculty
Beverly Davidson, Ph.D.
Research Laboratory Manager
Steven L. Eliason
Post-doctoral Fellows
Yong Hong Chen, Ph.D
Scott Harper, Ph.D
Qinwen Mao, Ph.D
Colleen S. Stein, Ph.D.
Rajeev Vibhakar, M.D., Ph.D., MPH
Haibin Xia, Ph.D.
Graduate Students
Lane Law, Genetics Program
Gumei Liu, Neurosciences Program
Glen Borchert, Genetics Program
Program Assistant
Christine McLennan
Undergraduate Laboratory Technicians
   Danielle Kapanke
   Azadeh Raoufi
   Beth Rathe
   Nathan Reeder
   Sheena Reis
   Abram Vore

Research Assistants
   Xiaohua He, RA III
   Maria Scheel, RA III
   Patrick D. Staber, RA III
   Moira Gerety, RA II
   Nathan Kiewiet, RA II
   Ines Martins, RA II
   Sarah Caufield, RA I
   Kate E. Ramsey, RA I

The Genome Research Laboratory
   M. Bento Soares, Ph.D., Unit Director
   Faculty
   M. Bento Soares, Ph.D.
   Research Assistants
   Fatima Bonaldo-Associate Research Scientist
   Tammy Kucaba-Senior Research Assistant
   Irina Koroleva-Assistant Research Scientist
   Sergey Malchenko-Assistant Research Scientist
   Assistant Professor
   Jose Morcuendo
   Graduate Research Assistants
   Chris Hamm
   Xiao Dong Huang
   Jennifer Laffin
   Andrew Smothers
   Senior Research Assistant
   Elinat Snir
   Research Assistants
   Brian Berger, RA III
   Ike Akabogu, RA II
   Jennifer Bair, RA II
   Mari Eyestone, RA II
   Mark Grulke, RA II
   Rudy Marelino, RA II
   Anna Izabel Ruas de Melo, RA II
   Kelly Schaefer, RA II
   Christina Smith, RA II
   Janis Crew, RA I
   Matt Grimaldi, RA I
   Matt Haberkom, RA I
Sara Rose Schneider, RA I
Hehuang Xie, RA I
Keith Crouch, RA I
Katrina Fishler, RA I
Catherine Keppel, RAI
Mark Lebeck, RA I
Mindee Perdue, RA I
Kurtis Trout, RA I

Lab Assistants
Melanie Casavant
Conor Hanick
Casey Rand

Post Doctoral Associate
Lilianna Manzella

Clerk
Adria Komegay

Project Assistant
Kate Trump

The Cell Biology and Functional Genomics Laboratory
Gregory S. Hageman, Ph.D., Unit Director

Faculty
Gregory S. Hageman, Ph.D.
Robert Mullins, Ph.D.
Markus Kuehn, Ph.D.
Nata Aptsuiri, Ph.D.

Postdoctorate
Quing Lu, M.D., Ph.D.

Research Assistants
Sankar Baruah, M.S., RA III
Krista Wheeler, A.A., RA III
Lisa Hancox, B.S., RA III
Ryan Lee, B.S., RA II
Amber Bain, B.S., RA I
Zhigun Song, RA I

Program Assistants
Shari Lemke, RN, BSN
Julie Donahue

Project Assistant
Aleksandra Rozek, B.S.

Support Staff
Jill Hageman, RN
Heather Stockman, CCRC

Students
James Borchard
Jason Carins
Lisa Hardisty
Rebecca Parrish
Jake Roos
Rachel Wolf

The Coordinated Laboratory for Computational Genomics
Thomas Casavant, Ph.D., Unit Director
Faculty
Thomas Casavant, Ph.D.
Terry Braun, Ph.D.
Todd Scheetz, Ph.D.
Andrew Williams, Ph.D.
Post doctoral
Tom Bair, Ph.D.
Vladimir Leontiev, Ph.D.
Full Time Computational Scientist Staff
Bartley Brown, Ph.D.
Dylan Tack
Rhett Sutphin
Hakeem Abdulkawy
Natalie Robinson
IT Staff
Gregg Webster
Jason Laffin
Graduate Students
Annie Chiang
Nishank Trivedi
Krishna Kalari
Andy Smothers
Steve Davis
Undergraduate Students
Brian O'Leary
Jesse Walters
Paul Joo Hyun Song
Brian Mokrzycki
Jared Bischof
Barry Gackle
Christopher Moressi
John Ritchison
Andy Choi

The Glaucoma Service
Wallace L. M. Alward, M.D., Director of Glaucoma
Technicians
Rebecca Meyer
Joan Snyder
Secretary
Fay McKinney

The Low Vision Rehabilitation Service
Mark E. Wilkinson, O.D., Unit Director
Faculty
Mark E. Wilkinson, O.D.
Technician
Patti Heitshusen

Center Administration
Edwin M. Stone, M.D., Ph.D., Center Director
Suzanne Gurnett Streitz, Associate Director
Dianna Brack, Project Assistant
Linda Koser, Project Assistant
Trish Duffel, R.Ph., M.A., Information Services
Exhibit "B"
University of Iowa Center for Macular Degeneration
Annual Income
$ 20.4 Million
July 1, 2001 - June 30, 2002

<table>
<thead>
<tr>
<th>Federal Agencies</th>
<th>Patient Care</th>
<th>Endowment Income</th>
<th>Tuition</th>
<th>Corporate</th>
</tr>
</thead>
<tbody>
<tr>
<td>12,131,571.00</td>
<td>3,388,014.00</td>
<td>195,335.00</td>
<td>81,204.00</td>
<td>2,811,566.00</td>
</tr>
<tr>
<td>59.44%</td>
<td>16.60%</td>
<td>0.96%</td>
<td>0.40%</td>
<td>13.78%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Foundations</th>
<th>State</th>
<th>Private Donations</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,589,591.00</td>
<td>81,204.00</td>
<td>130,000.00</td>
<td>20,400,000.00</td>
</tr>
<tr>
<td>7.79%</td>
<td>0.40%</td>
<td>0.64%</td>
<td>100.00%</td>
</tr>
</tbody>
</table>