I. Mission Statement and Goals

The Office of Research provides leadership, support, and coordination of basic and clinical research to faculty and students in COM. Our unit consists of three faculty with administrative appointments (Associate Dean for Research, Assistant Dean for Clinical Research, and Director of Clinical Research Development) and support staff (three Research Nurses, and one Administrative Assistant). Our group represents the College's research interests through interactions with the CORE, Ohio University, the State of Ohio, the osteopathic profession, external agencies, and the public.

The activities of the Office of Research are to:

- Provide seed money for research projects to Group I and Group II COM faculty Offer research design assistance, statistical support, and training opportunities to Group I and Group II COM faculty (and students working with these faculty)
- Direct faculty to appropriate resources for research projects beyond the areas of expertise in the Office of Research
- Pursue research activities within our Office in which students and faculty can participate
- Serve as a liaison to OU’s Office of the Vice President for Research and the Office of Research and Sponsored Programs, Institutional Review Boards, CORE staff and hospitals, American Osteopathic Association, and public and private granting agencies
- Facilitate collaborations between COM and other researchers both inside and outside Ohio University
- Maintain a research data base and disseminate information about COM research projects via a newsletter, Web page, and annual research publication
- Present research workshops to faculty and students
- Advocate research in the COM and CORE administrations
- Encourage research in osteopathic principles, including manipulative therapy

Research is an enjoyable and rewarding activity. Our belief is that research must be a highly valued activity at COM. Faculty and students have a responsibility to contribute to the advancement of medical knowledge, but in order to achieve this goal, they need time and incentives to participate in research. The Office of Research offers assistance in the form of funding, training, and administrative support. By virtue of location and organization, COM is uniquely positioned to become a leader in osteopathic and primary care research. Our rural environment and our associated CORE sites throughout Ohio are assets that the Office of Research will utilize to develop research excellence at COM.
II. Education

The Office of Research sponsored and coordinated a number of educational activities during 2000-2001. These activities involved students, interns, residents, and COM faculty in Athens and at the CORE sites around the state.

Research and Scholarly Advancement Fellowship Program

The Research and Scholarly Advancement Fellowship Program brings together Phase II medical students with COM faculty mentors in various research endeavors. The purpose of the program is to expose and develop students in the area of research that will continue throughout their careers. For ten weeks during the summer quarter, the fellows work on research projects and attend research-related seminars. Seminar topics include medical literature searches, statistics, clinical research, SPIN searches for funding sources, critical analysis of journal articles, survey research, and poster presentations. Poster displays of these research projects are exhibited in Irvine Hall throughout the school year. The Office of Research operates the program on a budget of $30,000 that funds ten students, and $1,500 to support other expenses associated with the program. Funds from the Center of Excellence are used to support minority students who participate.

Summer 2000 (9 faculty/16 students)

- Mark Berryman, Ph.D./Jason Griffin – Identification of the human analog of the bovine p64 protein, and John Paes – Localization and cellular distribution of chloride intracellular channel gene family proteins in tissues
- Anthony Chila, D.O./Lesley Combs, Scott Pfahler, Jean Rettos – Membranous and ligamentous articular dysfunction
- David Eland, D.O./James Smith – Iliacus complex in dysfunction
- Mario Grijalva, Ph.D./Andres Abreau – Analysis of risk factors associated with Chagas’ disease among population in rural villages in Ecuador; Joseph Austerman – The role of the chemokine RANTES, an immune modulator molecule in the development of inflammation that causes the damage seen in the hearts of mice infected with T. cruzi; Michael James – Determination of chemokine levels in tissues from two strains of mice that develop differing levels of cardiac pathology following T. cruzi infection
- John Howell, Ph.D./Darnell Ladson – The effects of posts-exercise movement on reduction and prevention of injuries caused by eccentric exercise
- Richard Klabunde, Ph.D./Chad Kaufman – Effects of antioxidant-deficient diet (AOD) on cardiac dysfunction in endotoxemia
- Felicia Nowak, M.D., Ph.D./Heidi Beining – DNA sequence analysis of the 5’ regulatory regions of preoptic regulatory factors-1 and –2; Shannon Gilham – Determination of the growth factor effects of preoptic regulatory factors -1 and -2 on cells in culture
- Al Pheley, Ph.D./Patricia Garcia – Seeking healthcare: a look into program use; Kate O’Rourke – Understanding personal values that determine use of the medical care system
- Christopher Simpson, D.O./Carrie Lembach – The role of DO’s in MD family medicine residencies
Summer 2001 (8 faculty/12 students)

- Mark Berryman, Ph.D./David Nicholson – Localization of CLICK proteins in rat alveolar septal cells
- Anthony Chila, D.O./Jason Cappuzzello – Norman J. Larson fellowship
- Peter Coschigano, Ph.D./Thomas Nguyen – Analysis of the biodegradation of toxic compounds by T. aromatica under anaerobic conditions
- Mario Grijalva, Ph.D./Thomas Carter – Clinical effects of endemic Chagas’ diseases on the local populations; Zachariah McIver – Tropical disease research in Ecuador
- Robert Hikida, Ph.D./Peter Seymour – The effects of exercise on young men and women: strength, muscle fiber and nucleo-cytoplasmic responses
- Gillian Ice, Ph.D./Mark Fenzl – Analysis and treatment of physiological stress; Jodie Skillicorn – Stress in the elderly
- Richard Klabunde, Ph.D./Chad Paxon – Effects of acute hyperglycemia on coronary arterial function in perfused rat hearts; Kristin Ryan – Effects of acute hyperglycemia on cardiovascular function
- Jay Shubrook, D.O./Candice Flauger – The effects of diabetes specific health locus of control on the management of Type 2 diabetes mellitus; Brent Hurd – Examining a standardized curriculum in OMT

Brentwood Foundation-Sponsored Research Development Series

The Brentwood-Sponsored Research Development Series was designed to expose OUCOM students, interns, residents, and faculty to a variety of research areas. Speakers discuss their field of interest, potential subject areas for new investigators, and the state of funding resources. Four sessions were presented in the Series during the 2000-2001 academic year. These sessions included:


Research Skills Presentations

Al Pheley conducted eight hours of sessions on research and statistics with the Summer Prematriculation Program sponsored by the OUCOM Center for Excellence. He also made presentations to CORE trainees and faculty periodically throughout the year.

Research Infrastructure

Al Pheley and Jack Brose have been working with the Department of Psychology on hiring a Master’s trained statistician to be share by the two units. This individual will support grant development and project data analysis.

CPC Curriculum

Al Pheley continues to develop and present lectures and problem sets within the CPC curriculum. Topics include epidemiology, research methodology, statistics, along with their application to medical decision making. Collaboration with Richard Klabunde from Biomedical Sciences this year resulted in a new journal review opportunity combining basic science with research design and statistics. Similarly, several new sessions involved the development of problem sets around journal articles being used by other faculty such as Ann Fingar. This segment of the curriculum continues to undergo refinement and development as we move into the program’s third year.

Journal Clubs

Al Pheley attended journal clubs across the CORE both in-person and via distance learning. He provided assistance with, and education about, the research and statistical methods used in the featured journal articles.

One-on-One Education

Al Pheley provided education and assistance with several faculty, interns, residents and students from across the CORE on their research projects.

Media

Jack Brose, John Kopchick, and Al Pheley appeared on WOUB-TV’s InTouch program on 11/16/00. The topic was Diabetes, Hypertension, and Obesity.

Jack Brose and Al Pheley appeared on WOUB-radio’s Live From Studio B program on 1/26/01. The topic was Obesity and Diabetes.

The Center for Appalachian and Rural Health Research was highlighted in Perspectives: Research Scholarship and Creative Activity at Ohio University. The article entitled “A Closer Look at Rural Health” appeared in the Spring/Summer 2001 issue (Volume V, No. 1).
III. Research

The Office of Research helps COM faculty in the development and preparation of grant proposals for external funding. We sponsor internal research awards for COM faculty and provide matching money for Research Challenge awards from OU. Other major activities in our office include:

- Representing the research interests of COM within and beyond the university
- Performing Phase 3 drug trials in our clinic
- Overseeing research throughout the CORE
- Operating the Center for Appalachian and Rural Health Research

Current External Research Funding of COM Faculty

COM faculty members were supported by 20 external research grants totaling more than $1.4M in 2000-2001. Funding came from federal (25%) and private (75%) sources. A complete list of funded external research is included in the appendix.

External Grant Proposals Submitted by COM Faculty

In 2000-2001, 29 research grant proposals totaling more than $13M were submitted to external funding agencies by COM faculty. Six were funded for $807,614, 12 were denied, and 11 are pending.

Internal Research Funding to COM Faculty

The purpose of providing research support to COM faculty is to enhance research activity and to increase competitiveness for funding from both external granting agencies and internal sources at Ohio University, with special emphasis on stimulating clinical research. Four types of funding are available:

- Research Challenge matching funds
- Seed money for unfunded proposals
- Seed money for collaborative clinical-basic science projects
- Seed money for direct faculty requests

In 2000-2001, a total of $89,074 was awarded as seed money to COM faculty and $39,948 was awarded to provide matching funds for Research Challenge grants from the university research office.

Complete lists of internally funded research projects and Research Challenge awards are included in the appendix.
Phase 3 Drug Trials

The Office of Research continues to maintain an active Phase 3 medication trials program. During 2000-2001, the Research Office participated in the following Phase 3 and Phase 4 medication trials:

- Hypertension prevention trial (TROPHY)
- Tequin respiratory tract infections trial
- Hypertension management trial (OCTAVE)

Lori Arnott, RN, Research Coordinator, Rosemary Vance, LPN, and Joyce Werry, LPN, provide nursing support for these trials. Ms. Arnott has attended numerous investigators’ conferences with the primary investigators, and has earned the designation of Certified Clinical Research Coordinator. Jack Brose serves as the primary investigator in the Phase 3 program. Clinical faculty members from the Departments of Family Medicine and Specialty Medicine participate as co-investigators in these trials.

For 2000-2001, the income from clinical drug trials totaled $11,725. In addition, the Clinical Research Unit received $2,000 in enrollment incentive bonuses. COM gains significant state and national visibility from participation in these programs, resulting in over twenty invited continuing medical education lectures for COM research faculty during the past year.

1804 Grant Supports Exploration of Biomedical Engineering Program

Jack Blazyk and Doug Goetz (Assistant Professor of Chemical Engineering) were awarded a grant from the 1804 Fund to support a seminar series in biomedical engineering and bring consultants to campus to explore the possibility of establishing a joint biomedical engineering program in our colleges. This year’s visitors were: Michael Lawrence, Associate Professor of Biomedical Engineering, University of Virginia; F. W. Luscinskas, Associate Professor of Pathology, Harvard Medical School; and Richard Waugh, Professor and Chair of Biomedical Engineering, University of Rochester. We hope to be in a position to apply for a Special Opportunities grant from the Whitaker Foundation in the coming year.

COM Involvement in the University Research Community

Jack Blazyk attended monthly meetings organized by Dr. Jack Bantle, Vice President for Research, that include representatives from all colleges. The intent is to discuss research-related issues that impact the university as a whole and to foster cooperation in research among colleges. Dr. Bantle selected Blazyk as a member of a committee to review the formula for distribution of indirect costs from grants and contracts. The committee will compare our procedures to those of other similar universities and offer suggestions for improving infrastructure and incentives for research.
Health Sciences Library

Jack Blazyk coordinated an effort on behalf of the Research and Scholarly Affairs Committee (RSAC) to evaluate COM journal subscriptions in the Health Sciences Library (HSL). We no longer pay for several very expensive neuroscience journals since the major users are not in COM. In addition, in conjunction with the Department of Biological Sciences, we surveyed the faculty in order to determine which print subscriptions could be cancelled (while retaining electronic access). This was necessary because of rising journal costs. Blazyk will serve as a member of the search committee for the new director of HSL, who will be an ex officio member of RSAC to facilitate communication with COM.

New Research Facilities

The Office of Research worked with the university to help to develop new research space for basic scientists. In March, the Biochemistry Research Facility opened on West State Street. Jack Blazyk and Peter Johnson in the Biomedical Sciences department have lab and office space in this new building. The Life Sciences Building, scheduled to open in 2002, will house ten members of the Biomedical Sciences department as well as the university’s animal facilities. We will work closely with university officials to develop a long-range plan for the renovation of existing and vacated research space in Irvine Hall.

James O. Watson, D.O., Endowed Research Chair

In 2000, the Osteopathic Heritage Foundation (OHF) donated $1.5M to COM to create the James O. Watson, D.O., Endowed Research Chair. This gift will support the creation of a new senior-level faculty position for research in cardiovascular disease and diabetes. Jack Blazyk and Jack Brose are working with Rick Vincent and Terri Donlin of OHF and OU officials to build the necessary infrastructure for the position so that we can attract a well-established investigator to COM. Recruitment is expected to begin in the coming year.

CORE Research

The CORE Research Committee (CRC) consists of members nominated by the chief executive officers from CORE member hospitals. Currently there are twenty-one members on the committee. The CORE established a CRC budget for the first time in 1998-99, and continued this budget in the 2000-2001 fiscal year. The following CORE research projects were funded or continued in 2000-2001 by the CRC:

- Carl Backes, D.O. - $4,500 - Cranial manipulation of the poorly sucking infant
- Tina Joyce, MS II - $4,000 - Deterrents to breast feeding amongst rural Appalachian teenage women
- Dennis Baker, Cheryl Riley, S. Schuler - $5,802 - Develop and implement objective structured clinical examination (OSCE) for family practice resident
- Ying Chen - $2485 - Polymer Barriers

The CRC joined with the Ohio University Institutional Review Board to develop a system of
assurance between CORE hospitals and Ohio University. With this system, students and residents can gain IRB approval at their primary hospital and receive an expedited review by the University IRB. To date, four CORE hospitals have signed the assurance agreement and are using this system.

The CRC also sponsored a training course for IRBs in January 2001. The faculty consisted of professional IRB trainers in a course entitled “IRB 101”. Attendance was excellent both in Columbus and at the CORE sites by distance learning equipment. The CORE Board passed a resolution in 2000 requiring all CORE member hospitals to have active, functioning IRBs.

Plans are underway to establish a CORE Research Conference, the first one to be held in Spring 2002. Co-chairs for the first conference will be William Fraser, DO and Jack Brose, DO. Both clinical and basic science research will be presented at the conference.

Center for Appalachian and Rural Health Research

During 2000-2001, the Center continued to develop its identity within the University, the community, and with policymakers at the State and Federal levels. Research and funding requests continue to be developed that will allow the Center and participants to improved the health of populations living in rural and Appalachian regions.

Data from the Southeast Ohio Health Investigations conducted in 1998 and 1999 continue to draw interest from many groups. Papers were presented to several State and national audiences of researchers, policymakers, and health care providers. Most exciting to Center participants was the support that this data was able to provide Congressman Ted Strickland and others in the development of the H.R. 3250 entitled “Health Care Fairness Act of 2000.” H.R. 3250, and the companion Senate Bill S. 1880 (Minority Health and Health Disparities Research and Education Act of 2000),” were passed and enacted by President Bill Clinton in November of 2000. The combined legislation established the Center for Minority Health and Health Disparities at the National Institutes of Health, which will enhance research funding for projects studying variability in health risk and approaches to addressing these issues. Appalachia is specifically identified as exemplifying a population which would be targeted under this act.

Food security continues to be a primary focus of investigators associated with the Center. Although the grant application submitted to the USDA in May of 2000 related to the study of an abbreviated food security assessment was not funded, reviewers provided valuable feedback on methodology issues and encouraged resubmission. The investigators plan to reapply for this funding during the fall of 2001. A new interdisciplinary project was also submitted by faculty from the College of Health and Human Services and OUCOM to examine the relationship of food security and cognitive development in preschoolers. Funding from the USDA would support teams of graduate students conducting developmental assessments, demographic, food security, and behavioral assessments with a sample children and parents residing in the Appalachian region.
The Center received three grants during the 2000-2001 year. These included:


The former Coalition of Appalachian Medical Partners has made considerable progress over the past year. With support from the Ohio Department of Health, OUCOM was able to hire a project coordinator and several consultants. Databases of the CAMP participants and regional needs assessments were created. Targeted work groups (Service, Access, Information Technology, Networking) were established with each team developing objectives and associated short, medium, and long-term goals. In addition, a legal consultant was contracted to help organize the Coalition as a 501(c)(3) non-profit. This task was completed in June of 2000, when approval was received from the Ohio Secretary of State. The new corporation’s name is Organization for Health Improvement in Appalachia (OHIA). In May, Erin Mansour, the project coordinator and a Center employee resigned to take a position with OU’s development office. Pending funding confirmation from the Ohio Office of Rural Health, the Center will be replacing Ms. Mansour.

In early 2001, an appropriation request was made to the 107th Congress in support of Ohio University’s Appalachian Rural Health Initiative (ARHI). The Center for Appalachian and Rural Health Research will form the cornerstone of the Initiative, with a significant portion of the appropriation going to support basic staffing needed to progress its objectives. Specifically, the ARHI will:

1. Determine the patterns of disease and its burden, using epidemiological principles, on the region’s population along with impact on the health care delivery system, local economy, workforce, and quality of life.
2. Develop, implement, and evaluate programs designed to decrease problems of chronic disease, health care access, and poverty.
3. Make possible collaborative projects between population, clinical, and basic scientists to bring solutions to the problems facing the region’s population. This approach will provide the population with greater access to participation in clinical trials while potentially bringing much needed treatment to individuals otherwise unable to afford such care. This blending of efforts will also bring greater attention of all involved to the problems facing the region.
4. Provide health policy recommendations to local, state, regional, and national government bodies that will continue to enhance the quality of life in Appalachia and other rural regions.
Final determinations of appropriations are delayed this year; final status is expected in September.

Presentations


Moorman G, Pence L, Pheley A, Buderer N. Medical research attitudes, experiences, and barriers of student and resident physicians. Presented at the 2001 Annual Scientific Assembly and Research Symposium, Toledo, OH, February 7, 2001. (Received Summa Cum Laude Research Award).


Publications / Reports


IV. Service

**Institutional Review Board**

Members of the Office of Research serve on the Ohio University Institutional Review Board and provide expertise concerning human subjects research throughout the university. The Office of Research provides a liaison between the OU IRB and CORE hospitals, and will be working to increase cooperation and collaboration between the Athens campus and CORE member institutions.

The Research Office is working with the Ohio University Institutional Review Board to develop a credentialing system for non-physicians who perform clinical procedures (e.g.: muscle biopsies). Office personnel are also working with personnel from the Department of Psychology on NIH sponsored research programs.

**Newsletter**

The Office of Research publishes the quarterly newsletter, COMquest, containing articles pertaining to research activities at COM and information concerning grant funding sources, conferences, and other research-related activities. COMquest is distributed throughout COM and the CORE sites. In addition, it is available on our web site (see below). Copies of COMquest that were published during 2000-2001 are included in the appendix.

**Office of Research Web Site**

The Office of Research maintains a web site that is accessible from the COM Faculty Students & Staff web page. This site contains our mission statement, a clinical research handbook, information about our interdisciplinary clinical research projects, current and past issues of COMquest, and information about the Center for Appalachian and Rural Health Research. This year we added a new section about our clinical drug trials.

**Community Presentations**

V. Future Directions

We will continue to stimulate clinical research activities within COM and build new partnerships within the university, the CORE system, and our community.

Specific goals for 2001-2002 include the following:

- Increase the level of federal research grant funding (particularly from NIH) of COM faculty
- Develop the necessary resources for the J. O. Watson Endowed Research Chair position, work with the OU development office to increase the endowment from the Osteopathic Heritage Foundation, and begin the search process for this position
- Work with the Research and Scholarly Affairs Committee to restructure the guidelines for internal COM research funding in order to better support faculty who are most competitive for external funding
- Participate in the hiring of the new Director of the Health Sciences Library and establish a direct line of communication with HSL
- Apply for a Whitaker Foundation grant with the College of Engineering and Technology to create a biomedical engineering program
- Initiate at least one major funded project through the Center for Appalachian and Rural Health Research
- Secure stable funding to support the infrastructure of the Center for Appalachian and Rural Health Research through federal appropriation
- Further develop clinical research within the CORE
- Expand the activity and increase the revenue stream of the clinical drug trials unit in Parks Hall
- Facilitate a smooth transition for Biomedical Sciences faculty moving to new Life Sciences building and participate in formulating a plan for the renovation of research space in Irvine
APPENDIX

- Active Research Grants for COM Faculty
- Research Grant Proposals Submitted by COM Faculty in 2000-2001
- Research Projects Funded by COM in 2000-2001
- Research Challenge Matching Awards Funded by COM in 2000-2001
## Active Research Grants in 2000-2001

<table>
<thead>
<tr>
<th>Name</th>
<th>Project</th>
<th>Agency</th>
<th>Period</th>
<th>Total Amount</th>
<th>00-01</th>
</tr>
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<tbody>
<tr>
<td>Biegalke</td>
<td>MHC class I molecule retention: HCMV US3 proteins</td>
<td>NIH</td>
<td>9/99-8/01</td>
<td>$100,800</td>
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<tr>
<td>Bikneviucis</td>
<td>Functional evolution of locomotor posture in tetrapods</td>
<td>NSF</td>
<td>8/00-7/03</td>
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<td>Blazyk</td>
<td>Design of novel linear cationic antimicrobial peptides</td>
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<td>Brose</td>
<td>Diabetes Metformin</td>
<td>Bristol-Myers Squibb</td>
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<td>Brose</td>
<td>TROPHY</td>
<td>Astra</td>
<td>4/99-6/04</td>
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<td>Brose</td>
<td>Omapatrilat cardiovascular treatment assessment vs enalpril (OCTAVE)</td>
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<td>10/00-9/01</td>
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<td>Chen</td>
<td>Production of genetically engineered peptides</td>
<td>Huagen Pharmaceuticals</td>
<td>7/97-6/01</td>
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<td>Chen</td>
<td>Production of T7 DNA</td>
<td>Parke-Davis</td>
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<td>Code</td>
<td>Opioid receptors in chick cochlear nucleus</td>
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<td>9/00-8/03</td>
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<td>Comeaux</td>
<td>Proprioceptive reflexive extension of the somatic dysfunction model</td>
<td>AOA</td>
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<td>Coschigano</td>
<td>Molecular and genetic characterization of the early steps of toluene utilization in Thauera (CAREER award)</td>
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<td>Coschigano</td>
<td>Molecular and genetic characterization of the early steps of toluene utilization in Thauera (CAREER award) - REU supplement</td>
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<td>10/00-8/01</td>
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<td>$0</td>
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<td>Grijalva</td>
<td>Seroprevalence of Chagas disease in the blood banks of Ecuador</td>
<td>American Red Cross</td>
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<td>$247,669</td>
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<td>Ice</td>
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<td>Klabunde</td>
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<td>AHA (Ohio)</td>
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<td>Mammary gland - human prolactin project</td>
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<td>Kopchick</td>
<td>Growth hormone antagonists</td>
<td>Sensus Corp</td>
<td>1/00-12/00</td>
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<td>Nowak</td>
<td>Preoptic regulator factors as growth factors in CNS: Regulation by steroid hormones</td>
<td>PhRMA Foundation</td>
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<td>Connexins and cell death in the developing auditory brainstem</td>
<td>Deafness Research Foundation</td>
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<tr>
<td>Ross</td>
<td>Connexins and cell death in the developing auditory brainstem</td>
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<td>Simpson, Chris</td>
<td>The safety and efficacy of PNU-182716 versus rosiglitazone</td>
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<td>Snyder / Hikida</td>
<td>Immunological parameters of muscle damage in young and old rats</td>
<td>Am College of Sports Medicine</td>
<td>7/00-6/01</td>
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<td>Witmer</td>
<td>Anatomy, evolution, and functional significance of cephalic vasculature in Archosauria, with special emphasis on birds, crocodilians, and nonavian dinosaurs</td>
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<td>7/00-6/02</td>
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<td>$9,980</td>
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* Does not include members of Biological Sciences who were in COM

**TOTAL** | $2,744,183 | $1,232,375
## Research Grant Proposals Submitted in 2000-2001

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<th>Name</th>
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<th>Total Amount</th>
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<td>Berryman</td>
<td>Localization of CLIC4 in the nucleus during the cell cycle</td>
<td>Ohio Cancer Research Assoc</td>
<td>2/01</td>
<td>7/01-6/03</td>
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<tr>
<td>Berryman</td>
<td>Cloning and characterization of the drosophila homologue of human CLIC proteins</td>
<td>American Cancer Society (Ohio)</td>
<td>3/01</td>
<td>7/01-6/02</td>
<td>$18,314</td>
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<td>Berryman</td>
<td>Regulation of chloride intracellular channel proteins during the cell cycle</td>
<td>American Cancer Society</td>
<td>4/01</td>
<td>1/02-12/05</td>
<td>$974,000</td>
<td>Pending</td>
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<tr>
<td>Berryman</td>
<td>Role of CLIC proteins in cell growth and division</td>
<td>NIH</td>
<td>6/01</td>
<td>4/02-3/07</td>
<td>$1,650,220</td>
<td>Pending</td>
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<td>Biegalke</td>
<td>Characterization of the HCMV transcriptional repressor, PUL34</td>
<td>NIH</td>
<td>10/00</td>
<td>7/01-6/06</td>
<td>$1,293,300</td>
<td>Denied</td>
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<td>Brose</td>
<td>Omapatrilat cardiovascular treatment assessment versus enalpril (OCTAVE)</td>
<td>Bristol-Myers Squibb</td>
<td>10/00</td>
<td>10/00-9/01</td>
<td>$11,250</td>
<td>Funded</td>
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<td>Brose</td>
<td>CORE Director of Research Development</td>
<td>OHF</td>
<td>11/00</td>
<td></td>
<td>$439,910</td>
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<td>Burke/Bell</td>
<td>Take Care - diabetes project</td>
<td>Robert Wood Johnson Foundation</td>
<td>6/01</td>
<td>1/02-12/03</td>
<td>$287,338</td>
<td>Pending</td>
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<td>Chen</td>
<td>Gene function determination by ribozyme in zebrafish</td>
<td>NIH</td>
<td>11/00</td>
<td>7/01-6/04</td>
<td>$652,500</td>
<td>Denied</td>
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<td>Chen</td>
<td>DNA/protein cleaving dipeptide Ser-His</td>
<td>NSF</td>
<td>1/01</td>
<td>10/01-9/04</td>
<td>$558,002</td>
<td>Pending</td>
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<td>Coschigano</td>
<td>REU Supplement</td>
<td>NSF</td>
<td>9/00</td>
<td>10/00-8/01</td>
<td>$5,000</td>
<td>Funded</td>
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<td>Goodrum</td>
<td>Group B streptococcal induction of epithelial iNOS</td>
<td>NIH</td>
<td>5/01</td>
<td>4/02-3/04</td>
<td>$125,334</td>
<td>Pending</td>
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<td>Grijalva</td>
<td>Chagas, leishmanisis &amp; malaria transmission in Ecuador</td>
<td>NIH</td>
<td>5/01</td>
<td>3/02-2/07</td>
<td>$2,053,814</td>
<td>Pending</td>
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<td>Hatty</td>
<td>Preventing Battering: Evaluating BIPs in rural Appalachia</td>
<td>Assn of Teachers of Preventive Medicine</td>
<td>7/00</td>
<td>9/00-8/03</td>
<td>$1,635,493</td>
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<td>Hatty</td>
<td>Developmental center in patient safety</td>
<td>AHRQ</td>
<td>1/01</td>
<td>8/01-7/04</td>
<td>$1,142,665</td>
<td>Pending</td>
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<td>Horodyski</td>
<td>Function and mode of action of manduca allatotropin and related peptides</td>
<td>NSF</td>
<td>1/01</td>
<td>8/01-7/06</td>
<td>$587,412</td>
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<td><strong>Horodyski</strong></td>
<td><strong>Characterization of an immunoglobulin-like protein expressed by ecdysis-activating neurons in insects</strong></td>
<td>USDA/Univ of MN</td>
<td>5/01</td>
<td>1/01-8/02</td>
<td>$104,239</td>
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<td><strong>Johnson</strong></td>
<td>The efficacy of histidine dipeptides in preventing ethanol-related damage in rat pups</td>
<td>US Civilian R&amp;D</td>
<td>5/01</td>
<td>11/01-1003</td>
<td>$78,190</td>
<td>Pending</td>
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<td><strong>Joyce/Brose</strong></td>
<td>Criteria for the use and efficacy of tocolytic agents in preterm labor patients</td>
<td>OAFP</td>
<td>6/01</td>
<td>3/02-2/04</td>
<td>$2,300</td>
<td>Pending</td>
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<td><strong>Kopchick</strong></td>
<td>ID Kidney-specific gene expression altered by type I diabetes</td>
<td>Central Ohio Diabetes Association</td>
<td>10/00</td>
<td>2/01-1/02</td>
<td>$41,669</td>
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<td><strong>Kopchick</strong></td>
<td>Interaction of caloric restriction with longevity genes</td>
<td>NIH/SIU</td>
<td>12/00</td>
<td>7/01-6/06</td>
<td>$256,011</td>
<td>Pending</td>
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<td><strong>Kopchick</strong></td>
<td>Novel rodent models to study the role of growth hormone in prostate cancer</td>
<td>ARQ/DOD-U of IL</td>
<td>3/01</td>
<td>3/01-10/02</td>
<td>$15,435</td>
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<td><strong>Kopchick</strong></td>
<td>Diabetes - genomics &amp; proteomics</td>
<td>Diathagen, LLC</td>
<td>6/01</td>
<td>7/01-6/02</td>
<td>$732,500</td>
<td>Funded</td>
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<td><strong>Pheley</strong></td>
<td>Evaluation of displaced mineworker retraining</td>
<td>Tri-County Community Action Agency</td>
<td>8/00</td>
<td>1/01-9/02</td>
<td>$90,446</td>
<td>Denied</td>
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<td><strong>Pheley</strong></td>
<td>Control groups in osteopathic manipulation research</td>
<td>AOA</td>
<td>12/00</td>
<td>9/01-8/03</td>
<td>$91,597</td>
<td>Denied</td>
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<td><strong>Romoser/Jame s</strong></td>
<td>Testing of mosquitoes for LaCrosse encephalitis virus infection</td>
<td>Cuyahoga Board of Health</td>
<td>7/00</td>
<td>7/00-6/01</td>
<td>$4,550</td>
<td>Funded</td>
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<td><strong>Shubrook</strong></td>
<td>Evaluation of a standardized curriculum to increase the use of OMT for hospitalized patients</td>
<td>AOA</td>
<td>12/00</td>
<td>9/02-8/03</td>
<td>$97,938</td>
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<td><strong>Simpson, C.</strong></td>
<td>The safety and efficacy of PNU-182716 versus rosiglitazone: A one-year, randomized, double blind, parallel group, active comparator study</td>
<td>Pharmacia &amp; Upjohn</td>
<td>10/00</td>
<td>10/00-9/01</td>
<td>$36,000</td>
<td>Funded</td>
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<td><strong>Smith</strong></td>
<td>Difference in verbal and nonverbal communication and patient satisfaction</td>
<td>AOA</td>
<td>12/00</td>
<td>10/01-7/02</td>
<td>$51,097</td>
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</table>

**TOTAL: $13,061,322**
2000-2001 Research Awards

RP 0001
William Romoser, Ph.D.
Tropical Disease Institute
Amount: $2000

RP 0002
Jack Blazyk, Ph.D.
Title: Super-active antimicrobial peptides with catalytic activity
Amount: $4000

RP 0003
Steven Clay, D.O.
Title: Ethanol-related studies on erythrocytes and large unilamellar vesicles
Amount: $5000

RP 0004
Peter Coschigano, Ph.D.
Title: Immunological analysis of proteins involved in toluene metabolism of Thauera aromatica strain T1
Amount: $5000

RP 0005
Ken Goodrum, Ph.D.
Title: Respiratory epithelial cell activation by Group B streptococci
Amount: $5000

RP 0006
Mario Grijalva, Ph.D.
Title: Pilot entomological, serological, clinical and sociological survey of rural villages located in tropical disease endemic areas of Ecuador
Amount: $5000

RP 0007
Suzanne Hatty, Ph.D.
Bruce, Dubin, D.O., J.D.
Title: Defining and conceptualizing medical error: A pilot study
Amount: $2500

RP 0008
Robert Hikida, Ph.D.
Title: Recovery from exercise-induced muscle damage: Impact of aging on satellite cell function
Amount: $5000
RP 0009
Frank Horodyski, Ph.D.
Title: Characterization of insect neuropeptide receptor
Amount: $4260

RP 0010
John Howell, Ph.D.
Title: Reduction of post-exercise muscle soreness by unloaded isotonic movements following the exercise
Amount: $3751

RP 0011
Calvin James, Ph.D.
Title: Mutating c-myc promoter to alter polymerase affinity
Amount: $5000

RP 0012
Peter Johnson, Ph.D.
Title: Myocardial antioxidant enzyme expression in exercised and sedentary rats
Amount: $4999

RP 0013
Richard Klabunde, Ph.D.
Title: Cardioprotective actions of endogenous antioxidants in septic shock
Amount: $5000

RP 0014
Linda Ross, Ph.D.
Title: A dynamic analysis of gap junctional communication and cell death in the visual system
Amount: $5000

RP 0015
Ed Rowland, Ph.D.
Title: Inhibition of Trypanosoma cruzi release
Amount: $2400

RP 0016
Robert Staron, Ph.D.
Title: A comparison of traditional and non-traditional resistance training devices, and Muscular effects of one-set versus three-set resistance training regimens
Amount: $4821
RP 0017
Robert Gotfried, D.O.
Title: Correlation of clinical manifestations of cardiac disease with serologic evidence of Chagas’ disease, and implications of concurrent risk factors for cardiovascular disease on severity of illness at time of assessment, as well as effects on morbidity and mortality
Amount: $5000

RP 0018
Jay Shubrook, D.O.
Title: Type 2 diabetes management surveillance study
Amount: $2442

RP 0019
Larry Witmer, Ph.D.
Title: The comparative anatomy and evolution of pulmonary air sacs in sauropsida
Amount: $4195

RP 0020
Jackie Wolf, Ph.D.
Title: History of the use of anesthesia in childbirth
Amount: $3706

RP 0021
Gillian Ice, Ph.D.
Title: Stress experienced by residents of assisted living facilities
Amount: $5000
2000-2001 Research Challenge Matching Awards

RC 2000
Felicia Nowak, Ph.D. et al
Title: Gel documentation system
Amount: $6948

RC 2001
Mario Grijalva, Ph.D.
Title: Host factors involved in parasite tissue tropism and cardiac pathology seen in experimental Trypanosoma cruzi infection
Amount: $1500

RC 2002
Al Pheley, Ph.D.
Title: Planning a research network in Appalachia Ohio
Amount: $3000

RC 2003
Suzanne Hatty, Ph.D.
Title: Preventing Battering: Evaluating BIPs in Rural Appalachia
Amount: $3000

RC 2004
Bonita Biegalke, Ph.D.
Title: Characterization of the HCMV transcriptional repressor pUL34
Amount: $1500

RC 2005
Xiao Chen, Ph.D.
Title: Gene function determination of ribozyme in zebrafish
Amount: $1500

RC 2006
John Kopchick, Ph.D.
Title: Interaction of caloric restriction with longevity genes
Amount: $1500

RC 2007
Jay Shubrook, D.O.
Title: Evaluation of a Standardized Curriculum to Increase the Use of OMT for Hospitalized Patients
Amount: $3000
RC 2008
Suzanne Hatty, Ph.D.
Title: Developmental center in patient safety
Amount: $3000

RC 2009
Mark Berryman, Ph.D.
Title: Localization of CLIC4 in the nucleus during the cell cycle
Amount: $3000

RC 2010
Xiao Chen, Ph.D.
Title: DNA/protein cleaving dipeptide ser-his
Amount: $1500

RC 2011
Frank Horodyski, Ph.D.
Title: Function and mode of action of manduca allatotropin and related peptides
Amount: $3000

RC 2012
Frank Horodyski, Ph.D.
Title: Characterization of an immunoglobulin-like protein expressed by ecdysis-activating neurons in insects
Amount: $3000

RC 2013
Mark Berryman, Ph.D.
Title: Regulation of chloride intracellular channel proteins during the cell cycle
Amount: $1500

RC 2014
Peter Johnson, Ph.D.
Title: The efficacy of histidine dipeptides in preventing ethanol-related damage rat pups
Amount: $1500

RC 2015
Mario Grijalva, Ph.D.
Title: Chagas, leishmaniasis and malaria transmission in Ecuador
Amount: $1500