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Introduction

Creighton faculty members conduct research

- ◇ *to enhance teaching,*
- ◇ *to contribute to the betterment of society, and*
- ◇ *to discover new knowledge.*

Creighton University Mission Statement

In its Mission Statement, Creighton University proudly proclaims that it “exists for students and learning.” And, in fulfillment of that mission, Creighton has long held a reputation as an institution of dedicated, inspiring, and student-oriented teachers. The Creighton Mission Statement also explains, however, that “Creighton faculty members conduct research to enhance teaching, to contribute to the betterment of society, and to discover new knowledge.” As the University’s annual *Faculty Bibliography* shows, Creighton faculty members have distinguished themselves in their research, as well.

Creighton University consists of a community of scholars dedicated to the discovery and sharing of truth and to applying truth to shape a better world. It is committed to the teacher-scholar model, and to achieve that model, quality teaching and scholarship are inextricably linked. Quality teaching cannot exist without quality scholarship. As Creighton’s President, Rev. John Schlegel, S.J., explained in his inaugural address on September 15, 2000, “teaching has been and must remain central” to Creighton University. But faculty must also be “active scholars, contributing to the advancement of their disciplines and to our common fund of knowledge.”

But what is scholarship? At a time when the value of scholarship in institutions of higher education has been called into question, it is important to ask that question, even if this is not the forum in which to explore the answer in any depth. At the least, university scholarship is more than keeping up with the latest discoveries in one’s field — or consuming new knowledge. University scholarship produces new knowledge. It breaks new ground. It is innovative, has significance and impact. It is reported to others in the community of scholars, where it is peer reviewed and its quality measured for all to see.

This *Faculty Bibliography* represents the scholarly accomplishments of Creighton University faculty for the 2000-2001 academic year. It includes publications of peer-reviewed articles and books, but omits minor publications and abstracts of papers read before local, regional, and national academic societies. Also absent are those publications currently listed as in press; they will appear in future bibliographies, as they are published. The *Faculty Bibliography* gives public recognition of the scholarship in which Creighton faculty members are engaged. It also provides a snapshot in time of the intellectual life of Creighton University. It is an impressive snapshot, in the quantity and quality of research being conducted at Creighton University. It reflects Creighton’s commitment to the teacher-scholar model, which enriches our students’ experience at Creighton and makes the world a better place for its presence.

Bryan F. Le Beau, Ph.D.

Professor of History

John C. Kenefick Faculty Chair in the Humanities

Interim Associate Dean of the Graduate School

Creighton Research Endeavors

Biomedical Sciences

The research of the Department of Biomedical Sciences was originally organized around the Regulatory Peptide Center followed by the establishment of cores of Peptide Chemistry, Molecular and Cell Biology, Radioimmunoassay and Receptor Binding, and Neurobiology. These cores have since been reorganized and replaced by those now listed below.

Some examples of the wide variety of research specialties of the faculty are: design and chemical synthesis of analogs of regulatory peptides; the role of peptides in the regulation of gastrointestinal and cardiovascular functions and of bone growth and development; the molecular evolution of peptide hormones; the role of proteolytic enzymes in the biosynthesis of peptide hormones; nucleic acid catalysis and molecular engineering; the molecular biology of collagen synthesis; the regulation of gene expression; the cellular and genetic basis for differentiation of the brain, inner ear and cardiovascular system; comparative neuroanatomy; cellular mechanics; intracellular electrophysiology; and respiratory mechanics and control. The department encourages collaborative research interaction with faculty in the Departments of Pharmacology, Medicine and Surgery; the Osteoporosis Research Center; Boys Town National Research Hospital; and the Veterans Administration Hospital. Faculty from these centers hold secondary appointments in the Department of Biomedical Sciences and participate in the Graduate Program.

Pancreatic cancer is the fourth leading cause of cancer death in men and women in the United States. A group in the Biomedical Sciences Department worked on several aspects of this disease, including early diagnosis, how the tumor alters metabolism and causes cachexia, the role of peptide growth factors in allowing the tumor cells to escape from normal proliferative regulation, and the mechanisms of action of some novel therapeutic agents, including retinoids and lipoxygenase inhibitors. This work involves collaborations with scientists in the Karolinska Institute in Stockholm and the National Cancer Institute.

The largest organ in the body, the skin, functions as a major sensory organ and to protect the body from exogenous insults. Our research is examining the role of a family of receptor tyrosine kinases in the skin during development and in skin carcinogenesis in response to solar radiation. Members of this receptor tyrosine kinase family, including the epidermal growth factor receptor and erbB2/neu, regulate cell survival, migration and activates epidermal growth factor receptor family members. We are investigating the mechanisms of non-melanoma skin cancer development by focusing on the role of erbB2 and epidermal growth factor receptor in this process. Since non-melanoma skin cancer is the most common form of cancer in the United States, with more than one million new cases per year in the United States, this research may have important implications for human health.

Research on the ion transport mechanisms that underlie the adaptation of organisms to their environment focuses on the role and regulation of the sodium/hydrogen exchange proteins in yellow fever mosquitoes and the sodium/potassium ATPase in Antarctic fish. Both projects are aimed at identifying the mechanisms of ion transport responsible for the adaptation, including physiological, biochemical and anatomical measurements, regulation of the ion transport mechanisms by primary and secondary messengers, including analysis of intracellular cAMP, calcium and pH and molecular basis for the regulation the ion transporter of interest, including cloning and sequencing of cDNA, mRNA and protein expression studies.

Research on mechanisms on airway hyperirritability is focused on whether C-fiber endings in reactive airways become hyperirritable, using single nerve fiber monitoring of sensory receptors in airway and parenchyma of small animals. The involvement of neuropeptides in the response of the hyperirritable airway is examined using whole animals nerve recording *in vivo* and tracheal smooth muscle strips. The pulmonary research also includes pharmacological evaluation of possible therapeutic agents for asthma using whole-body plethysmograph, isolated airway smooth muscle preparations to measure the protection and reversal of airway mediator induced contraction. Changes in reflex control of ventilation and pulmonary sensory receptors of the airway and lung parenchyma during the progression of disease of the lung were also studied.

Congenital heart defects are the most common life-threatening birth defect and many times are accompanied by craniofacial anomalies. In this department, investigators are studying the role of cell-cell and cell-extracellular matrix interactions during normal craniofacial and cardiac development, particularly in regard to cell-surface and extracellular proteases in neural crest morphogenesis and migration (cells pivotal in the development of both the face and heart).

Studies using *in situ* hybridization, immunocytochemistry, enzyme assays, and time-lapse imaging show that growth factors, proteases, and protease inhibitors are important overseers of neural crest cell migration. Moreover, metabolic derivatives of vitamin A are capable of mediating neural crest cell migration and proteolytic activity. Creighton researchers, in collaboration with investigators at the University of Nebraska Medical Center, are also investigating the effects of elevated homocysteine on neural crest morphogenesis and elucidating the mechanisms responsible for folic acid's protective effect on cardiovascular and craniofacial development. In order to develop preventative strategies for congenital defects, we must understand the mechanisms driving neural crest and cardiac morphogenesis and how nutritional elements are involved. These studies also enhance our understanding of adult diseases because many diseases contain etiological elements of embryological origin.

Our daily rhythms of sleep and wakefulness are driven and regulated by two small nuclei in the hypothalamus, the suprachiasmatic nuclei. In a brain slice preparation, we are now investigating the cellular mechanisms of circadian rhythm regulation and how circadian rhythms are modulated by the brain hormone melatonin.

The inner ear contains two important sensory modalities, the vestibular system for orientation in space and the auditory system for hearing. Progress in recent years has been dramatic regarding the molecular governance of ear development, the pathways of innervation in this organ, and the genetics of hearing-related disorders. Our research focuses on mouse mutations that cause developmental ear defects and those that affect either the formation or the maintenance of sensory neurons in the hearing or vestibular systems. This research will enable us to understand the molecular machinery that makes and brakes ear formation, especially the innervation. In a parallel avenue, we are investigating the activity-dependent connectional dynamics. For this we make use of micro- and hypergravity exposure as well as several neurotrophin mutant mice with altered connections. This research is conducted in collaboration with Boys Town National Research Hospital, Millennium, Regeneron, and various universities. It is funded by NASA and NIDCD.

Hair cells are the essential first step in hearing, and damage to hair cells is the cause of age-related and traumatic hearing loss. In work funded by the National Institutes of Health, the basic science of hair cells and the mechanisms underlying their loss are being studied, with a view to finding rescue and repair methods. This work is being pursued in collaboration with investigators at the University of Texas at Austin, the University of Texas Health Science Center at San Antonio, the University of Maryland, Oregon Health Sciences University, and Boston University.

Collaboration between Creighton faculty in the Departments of Biomedical Sciences and Internal Medicine focuses on osteoporosis and the cellular basis of how skeletal mass is achieved and maintained. Bone mass changes in response to varying loads — disuse reduces and heavy use increases bone density. How loads placed on the skeleton are detected and converted into biological signals that affect the balance between bone formation and resorption is not understood. Studies currently underway use bromo-deoxyuridine to characterize the proliferation and differentiation of osteoprogenitor cells in response to biomechanical loading in adult rats. The role of prostaglandin E₂(PGE₂) as a local mediator of load-induced bone formation is also being evaluated. Another project that is currently underway is designed to elucidate how smoking tobacco reduces bone mass and increases the risk for osteoporosis. This project combines an assessment of bone structure, strength, and cell function using *in vivo* and *in vitro* models.

It has long been known, but not widely appreciated, that light exerts force on living tissue. Intense laser light can be harnessed to produce a novel method, called the optical stretcher, for the measurement of the mechanical properties of single cells. In a joint project of the Department of Biomedical Sciences, the Osteoporosis Research Center, and Creighton University Physics Department, an optical stretcher facility will be constructed in the Department of Biomedical Sciences in the coming year. Initial studies will address the mechanics of hair cells of the inner ear, the mechanism by which bone density is regulated by osteocytes, and the mechanisms underlying photodynamic therapies. This work is being pursued in collaboration with the University of Texas at Austin and the University of Leipzig, Germany.

Regulatory peptide research ranges from comparative endocrinology, based on revelation of evolutionary development of structures and functions in families of peptides, to synthetic and theoretical peptide-based bio-organic chemistry. A series of novel peptides with broad spectrum growth-inhibitory activity against a range of microorganisms have been isolated from the skin of various North American and African frogs. The therapeutic potential of these compounds is being investigated, and analogs of increased potency are being designed and synthesized. By contrast, the details of the functionalities and conformational properties of tachykinins, gastrin, GnRH, and biologically active domains of the EGF/TGF family of peptides have led to the discovery of active analogs with therapeutic potential including suppression of cancer growth.

Communication between cells of the nervous, endocrine and immune systems is frequently conducted through biologically active peptides. Many of these peptides are initially synthesized as larger, inactive propeptides which are subsequently cleaved by extremely specific endoproteases. The structural basis for this specificity is unknown. We are presently examining the processing of proinsulin and proglucagon by the converting enzymes PC1 and PC2 in an attempt to uncover clues to the specificity of substrate recognition. The ultimate goal of this work is to describe, at the molecular level, those interactions for the differential processing of peptide hormones.

The Center for Advanced Imaging in the Department of Biomedical Sciences this year obtained a Bio-Rad confocal microscope. Investigators in the department and other departments of the Medical School as well as from Boys Town National Research Hospital are using the instrument to extend their knowledge of the inner workings of cells.

Boys Town National Research Hospital

The Boys Town National Research Hospital (BTNRH) is on the campus of Creighton University adjoining Saint Joseph Hospital, the primary teaching hospital for the Creighton University School of Medicine. The Research Hospital operates as a division of Father Flanagan's Boys' Home and also functions as the Department of Otolaryngology and Human Communication of the Creighton University School of Medicine. All members of the BTNRH professional staff hold faculty appointments at Creighton, and many have cross appointments in other Creighton departments. BTNRH is in its twenty-fifth year as an active clinical and research center dealing with disorders of hearing, speech, language, and learning. It is now one of the world's largest centers doing work in these areas, both in terms of the size of the research program and clinical caseload. The research effort at BTNRH is conducted in twenty different laboratories representing three broad areas of research: neurobiological studies of hearing, hereditary communication disorders, and clinical and behavioral studies of human communication.

Our research programs in the area of neurobiological studies of hearing represent a multidisciplinary effort to achieve a better understanding of peripheral and central processes in the auditory and vestibular systems. Work at this level is essential if we are to understand the causes of hearing loss and vestibular disorders, with the ultimate goal of prevention and treatment. Individual research programs are focused on the neuroanatomy of the efferent portion of the auditory system that transmits information from the brainstem to sensory cells and afferent dendrites in the inner ear; neurochemical studies of synaptic transmission within the cochlea and central auditory system; the physiology and biophysics of hair cells in the inner ear; developmental changes in physiological function at multiple levels within the auditory system; and mathematical modeling of the mechanical processes of the inner ear. Studies of the anatomy, physiology, and neurochemistry of the olivocochlear efferent system, funded by a program-project grant, provide an example of the multidisciplinary, collaborative work within this group. That research program also includes faculty members in the Department of Biomedical Sciences.

Our research programs in the area of hereditary communication disorders represent an integrated approach to a wide range of genetic communication disorders. This work began with studies of dyslexia, one of the first inherited behavioral traits for which a gene was localized to a specific chromosome. We subsequently extended our efforts to syndromes that have an impact on hearing. Isolating and cloning the genes for hearing disorders will result in immediate improvements in genetic counseling and make it possible to use gene therapy and related techniques to effect a cure. Our goal is to acquire a better understanding of hearing and of the causes of hearing loss. A detailed knowledge of the specific genes involved gives insights into the different mechanisms that those genes control.

Effective research into the role of genetics in communicative dysfunction requires a mix of a good clinical program, molecular biology lab, statistical analysis capabilities, and access to families with specific hereditary disorders. These are all present at BTNRH. Current efforts are focused on Usher syndrome, Alport syndrome, Branchio-oto-renal syndrome, dominant progressive hearing loss, nonsyndromic recessive hearing loss, and hereditary cleft palate. We use the most current molecular biology techniques to locate and characterize genes causing hearing loss, to develop animal models of known heritable forms of human deafness, and to develop and use tissue-specific cDNA libraries. In addition, we have established a resource of families with hearing problems who are willing to participate in genetic research. Collaborative work within this group is facilitated by a program-project grant on Usher syndrome.

Our research programs in the area of clinical and behavioral studies of human communication are conducted by people with clinical responsibilities as well as those in full-time research positions. Much of the clinically related work represents an effort to develop improved clinical procedures, in many cases drawing on resources from the Hospital's basic research programs. All members of the clinical staff are encouraged to monitor clinical service outcomes, develop model programs, and describe case studies.

Individual research programs are focused on the acoustical properties of the peripheral auditory system; auditory perception in listeners with normal hearing and in those with sensorineural hearing loss; the use of evoked potentials and otoacoustic emissions in the early identification and quantification of hearing loss; the development of techniques for better hearing aid fitting; the development of speech perception and language organization in normal children and in those with speech, language, or hearing problems; the physiology of normal and abnormal speech and voice production, including abnormalities associated with hearing loss; and language and cognitive development in children with severe to profound hearing loss.

Cancer

Creighton University has been a recognized center of excellence in cancer research for decades.

In the late 1960s, long before the rest of the world recognized his forward-thinking and intuitive insight into cancer genetics, Creighton University hired Dr. Henry Lynch as a faculty member of Internal Medicine. Today, Dr. Lynch chairs the Department of Preventive Medicine and Public Health and is the first holder of the Dr. Harold J. Bonnstetter Endowed Chair in Preventive Medicine in the School of Medicine. The Hereditary Cancer Institute, under Dr. Lynch's leadership, leads the Creighton investigations into cancer genetics. This research has led to the identification of several hereditary cancer syndromes, including hereditary colorectal nonpolyposis cancer (HNPCC), also known as the Lynch syndrome.

Cancer activities at Creighton span the range from basic science investigations, such as the role of regulatory peptides in cancer cell growth, to clinical trials of new, potentially life-saving therapeutic agents. Dr. James A. Mailliard directs Creighton's efforts in clinical trials as part of a Nebraska/Iowa consortium (the Missouri Valley Cancer Consortium, or MVCC), through a grant supported by the U. S. Department of Health and Human Services' Community Clinical Oncology Program (CCOP).

NIH-funded projects at Creighton include collaborations with University of Nebraska Medical Center researchers on pancreatic cancer studies, as well as several basic studies of cancer cell biology.

The State of Nebraska supports cancer research at Creighton University under its cigarette tax-supported program (Cancer and Smoking Disease Research Program, LB595). This program supports research in hereditary cancer by Dr. Lynch and his team of researchers. During the past thirty years, Lynch has amassed an enormous family database and DNA collection. These database and tissue samples will be "mined" for crucial genetic information to aid in understanding familial pancreatic cancer, hereditary lymphoma, and colorectal cancer, and will help support a hereditary cancer research network in Nebraska. This program also supports research in Dr. Robert Recker's Osteoporosis Research Group on the effects of smoking on bone biology, and in the Cardiac Center, under Dr. Syed Mohiuddin, on the effects on cardiovascular disease. This year, Tobacco Tax Settlement funds became available through LB692, and several cancer related projects, including studies of skin cancer by Dr. Laura A. Hansen, have been supported.

Chemistry

In analytical chemistry, there are diverse research interests. Dr. Dobberpuhl is interested in the voltammetric characterization and electrochemical detection of aliphatic compounds that have industrial, biological, or pharmacological significance. He utilizes liquid chromatographic separation and pulsed electrochemical detection of analytes in biological matrices, stripping voltammetry of organic compounds, and dual electrodes with liquid chromatography. Mr. Gross studies electrochemical kinetics in polar non-aqueous media. Dr. Michels has a research interest in bone cancer (osteosarcoma). The working hypotheses are that uncontrolled growth in osteosarcoma is due to (1) exploitation of growth factor stores in the bone matrix or (2) uncontrolled growth factor production by osteosarcoma cells. Research is carried out *in vitro* using five osteosarcoma cell lines. Work is in progress to identify the growth factors produced by osteosarcoma cells.

In biochemistry, Dr. Soukup does research involving structural characterization of nucleic acids. She has investigated the structure of catalytic RNA molecules (ribozymes) using a novel biochemical approach, Nucleotide Analog Interference Mapping (NAIM). Using NAIM, she has identified important functional groups within ribozymes that are needed for catalytic activity of the molecules. She has begun studies to utilize NAIM to investigate DNA enzymes. Although there are no naturally occurring catalytic DNAs, single-stranded deoxyribozymes have been isolated from random-sequence pools using *in vitro* selection. NAIM will be used to identify the essential functional groups within a DNA enzyme that are important for activity.

In inorganic chemistry, there is a collaborative effort underway. Drs. Anderson and Mattson are interested in developing methods of gas generation using microscale techniques along with developing suitable experiments to be performed with the gases generated. All together, over 150 experiments have been devised for seventeen gases. Current work continues on developing experiments suitable for teaching laboratory activities.

In organic chemistry, research activity includes synthesis and the development of synthetic methods as well as mechanistic studies and modeling of reaction mechanisms. Dr. Hulce's laboratory investigates new methods of preparing carbon-carbon bonds by exploiting modern metalloorganic chemistry. Ongoing applications of their carbon-carbon bond-forming strategies include the synthesis of model molecules to study DNA site-specific anticancer antibiotics, the preparation of molecules that mimic peptide bonds, and the design of amphiphilic molecules to prepare novel Langmuir-Blodgett films. Dr. Kearley is working on the synthesis of molecules as part of a study aimed at the understanding of the chemical basis of alcohol-induced liver injury and on the synthesis of novel beta-2 adrenergic receptor agonists. Dr. Klein's research is focused on an experimental study of the rearrangement that occurs in acid-promoted reactions of alcohols, and the use of molecular orbital theory to model the mechanism of addition reactions.

In physical chemistry, the research exhibits a fusion of computational with experimental chemistry. Dr. Harris uses molecular orbital theory to determine the electronic structures of main-group and transition metal inorganic molecules, particularly those that may have biological importance. The electronic structures of these compounds are then used to predict or explain chemical reactivity, especially electron transfer (re-dox) behavior. Dr. Snipp studies macroions in solution with particular reference to modeling configurational changes; first order (or nearly first order) phase changes. Dr. Snipp's other interests include simplex optimization and fitting of data for kinetics of consecutive reactions. Dr. Zebolsky, Emeritus, is interested in calculating volumes, enthalpies and solubilities for supercritical fluid mixtures. Calculations are with van der Waals type equations of state that replace the excluded volume term with hard sphere expressions, and add temperature-dependent attractive terms with molecular meaning. Computer programs are written to test these features and are used to compare experimental data in the literature with predictions and curve fits. Don Zebolsky is also trying to observe interactions in solution with differential scanning calorimetry and osmometry.

Communication Studies

Consistent with the departmental mission statement, the faculty of the Department of Communication Studies conduct research that not only promotes and contributes to the advancement of communication competence across contexts, but also provides students with the opportunity to become involved in research projects at both the theoretical and applied levels. Examples of such research being conducted with undergraduate students includes a historical analysis of the American Hospital Association, a study on communication in alcoholic families, and a senior-level course that is assessing the Creighton Health Sciences Library.

In our personal research agendas, the Communication Studies faculty concentrates on applied communication research that has practical implications for society as well as our discipline. One area of faculty specialization is organizational communication, with an emphasis on how intrapersonal discourse and interpersonal interaction impacts organizational programs and policies. One such area of research is work-family communication. Faculty research examines the interface between an employee's personal and professional life, including the implications this has for organizations and families. A specific focus has been on how written work-family policies in organizations are undermined by communicative interactions with coworkers and supervisors.

Faculty members are also studying issues of intrapersonal communication in organizations. One such project is an exploration of the meanings of work for at-risk youth, emphasizing the importance of communication competency skills in the curriculum of employability training programs. Another project examines the influence of individual spirituality on communication in both organizations and the mass media.

A third trajectory of organizational research is studying organizational rhetoric and the strategies used by all types of organizations to influence public perceptions of the organization as well as to influence the development of public policy. Specific projects of faculty members include analysis of the rhetoric of special interest groups' influence on health policy as well as rhetorical strategies used by Firestone to manage its product recall. In addition, the language choice of "managing diversity" has been critically examined for its consequences in organizational practices.

Another area of faculty specialization is interpersonal communication across several contexts. One such project utilizes the family as a basis for examining metaphors of family communication and how these are in many ways culturally based. Another study concentrates on long distance relationships, examining how these relationships are maintained given changes in technology. An additional context is the health care arena, examining the nurse-patient relationship as to whether and how outcomes of interaction change with differing nurse communication behaviors.

Furthermore, departmental members are doing research that fits with a scholarship of teaching model. Faculty members are actively publishing in the teaching journal for the discipline. In particular, faculty members are interested in student learning and critical thinking in the communication curriculum. Several faculty are interested in service-learning as an area of research and teaching. Research projects include the importance of assessing community agencies in creating a service-learning program and the importance of training in justice and diversity for faculty who are going to use service-learning.

Finally, faculty members are conducting research on competitive speech and debate. Current research projects include examining topics and case construction in parliamentary debate, as well as studying differences in how male and female judges critique debate. As a whole, the department seeks to complete research that has real implications, not only for students and academia, but also for the broader world in which we live.

Dentistry

The Creighton University School of Dentistry is nationally recognized for academic and clinical excellence and continues to build a national reputation in research. The building of the research program in the School of Dentistry has occurred in concert with the University's goals: namely to develop scholarship, improve education, and seek new knowledge for the betterment of society. A prime goal of the School of Dentistry is to translate the results of research into improved teaching and clinical practice and ultimately better patient care.

The Center for Oral Health Research in the School of Dentistry enjoys a national and international reputation as a leading research institution in dental materials. The research activities in the center closely parallel the clinical orientation of the school. The center's focus is in several key areas. The Center for Clinical Studies is used for coordinating human clinical trials of new dental materials and devices and innovative treatment techniques. Presently, eleven studies are active, including evaluations of new dental adhesives, metal-free filling materials, dental prosthetic materials, dental lasers and dental polymerization devices. The center also houses an extensive *in vitro* testing laboratory emphasizing pre-clinical assessment of the physical properties of dental materials. The results of this work will help guide dentists in the appropriate use of new treatment approaches.

The last five years have seen the research capability of the School of Dentistry significantly expand. As a result of a large Health Future Foundation Award, the Dental Technology Assessment Center was formed. A sophisticated 3-D image analysis system is at the heart of this center, one of only four used in dental research in the world. This system facilitates the analysis of the *in vivo* and *in vitro* performance of dental materials with unequalled precision and accuracy. The foundation award also funded abrasion simulation equipment, a Fourier transform infrared spectroscopy lab for chemical analysis of dental composite resins, and the capability to assess the fluoride release of new materials.

The Health Future Foundation most recently funded in 2001 an award designed to purchase a servo-hydraulic test frame to be used in a unique collaborative initiative with private industry. A corporate sponsor will provide in-kind support to the University as part of a research project developing and evaluating new material technologies for dental use.

Investigators in the School of Dentistry have pioneered studies in the field of laser applications in dentistry. An ongoing clinical investigation is evaluating the anti-caries effects derived from laser tooth structure. Other areas of faculty investigation include dental implants, new analgesic drug regimens, and new diagnostic strategies for head and neck exams.

While not a traditional strength in research in the School of Dentistry, recent faculty additions in the Department of Oral Biology have expanded basic research. A team of clinical and basic science faculty is investigating the role of endotoxin on gingival fibroblasts. Another primary interest is investigating the role of Metallothionein (MT) as a free radical scavenger in central nervous system trauma. This project, looking at MT isoforms in various forms of CNS damage, is being conducted in collaboration with laboratories at the University of North Dakota and the University of Nebraska Medical Center. Oral biology faculty are also researching hepatic encephalopathy focusing on various subtypes of glutamergic receptors in fulminant HE.

Faculty and students from the School of Dentistry have been invited to present the results of their research at national and international research meetings. In 2001, seventeen papers were presented at various professional meetings. These papers represent the robust scholarly activity in the School of Dentistry, and they serve to bring international recognition to the University.

The continuing institutional commitment to research and the productivity of the faculty will impact dental education and practice and enhance the profession. This ongoing activity will promote the advancement of dental care for the benefit of all dental patients.

English

In 2000-2001, the department continued to be one of the most productive within the College of Arts and Sciences. The English Department is home to the Creative Writing Program, the Irish Studies Program, the World Literature Program, the Composition Program, and the Writing Center. In addition, an English faculty member heads the Center for Henry James Studies, also headquartered at Creighton. The department's publications and scholarly activities represent these and other diverse areas, as well as the more traditional areas of English and American Literature.

Among our creative writing faculty, Professor Susan Aizenberg has published numerous poems in the past year. She has also brought out the first anthology of contemporary American women poets, which she edited with Erin Belieu, entitled *The Extraordinary Tide: New Poetry By American Women*. The collection, published by Columbia UP, is already receiving national attention. Director of Creative Writing, Professor Mary Helen Stefaniak, had numerous stories and essays published in *The Source*, *EPOCH*, and *New Stories from the South: The Year's Best 2000*. Novelist Dr. Brent Spencer published several pieces in *Creighton Magazine* and has given many presentations and readings throughout the state and the country.

Director of Irish Studies, Dr. David Gardiner, published a monograph, *Befitting Emblems of Adversity: A Modern Irish View of Edmund Spenser from W. B. Yeats to the Present*. The book has received acclaim from reviewers in the United States and Ireland. Dr. Gardiner also published several other articles and reviews on Irish literature and culture, and, assisted by fellow Irish Studies faculty members, Dr. Nainsi Houston and Dr. Reloy Garcia, organized the regional meeting of the American Conference of Irish Studies, held at Creighton during October 2001. Scholars from all across the country and from Ireland participated in three days of panels, readings, and events.

Director of World Literature, Dr. Ngwarsungu Chiwengo, has published and presented her work this year on African literature and culture in journals, book collections, and at several conferences. World literature professor and linguist, Dr. Nyunda ya Rubango, published his monograph, *Les Pratiques discursives du Congo Belge au Congo Kinshasa: Une Interpretation socio-linguistique*. Professor Fidel Fajardo-Acosta also published an essay on painter Nicolas Poussin in *Exemplaria*.

Director of the Center for Henry James Studies, Dr. Greg Zacharias, continues in his work on *The Complete Letters of Henry James*, a multi-volume edition forthcoming from the University of Nebraska Press. In addition, Dr. Zacharias contributed pieces to *The Henry James Review*, *American Studies*, and *An Encyclopedia of American Literature*. Dr. Bridget Keegan published articles on several British laboring-class poets, including Stephen Duck and John Clare, and edited an anthology, *Literature and Nature: Four Hundred Years of English and American Nature Writing*.

In the area of composition and pedagogy, Director of Composition, Dr. Shari Stenberg, contributed to a collection of essays entitled *Student Writing as Public Text*. Dr. Anne Dittrick completed work on her composition textbook. Other English faculty continued research and professional presentations in the area of Victorian literature, American Studies and American architecture, technology and writing, and literature by women. Notably, this year the department hosted the College's very first Fullbright Fellow.

Faculty members serve as board members in several organizations, including Douglas County Historical Society, Associated Writing Programs, the Writing and Computers Association, and the Henry James Society. Faculty members are also members of Alpha Sigma Nu, the Jesuit Honor Society; Omicron Delta Kappa, the national leadership honor society; Phi Beta Delta, International Scholars Society; Phi Kappa Phi; and Phi Beta Kappa.

Exercise Science

Challenged by the University's mission statement to enhance teaching and discover new knowledge through research, and the Exercise Science Department's goal of "building leaders for tomorrow by getting them involved today," faculty have made a concerted effort to include undergraduate students in departmental research activities. As a result, several students have made presentations at regional and national professional conferences, and have served as co-authors on a number of refereed journal publications.

Exercise Science faculty have a variety of research interests. Dr. Tom Baechle, Professor and Chair, is internationally known for his work in strength and conditioning. Strength training has become one of the most popular forms of exercise, capturing the interest of researchers, allied health and rehabilitation professionals, and coaches and athletes. Dr. Baechle's particular area of interest involves gaining a better understanding of how strength training can improve fitness and functional capacity levels of healthy older adults and cardiac patients, and performance levels of athletes. Presentations at national and international conferences, and the publications of his work in some of the most respected texts on strength training have made a significant contribution to scholarly literature.

Research conducted by Dr. Joan Eckerson, Associate Professor, has primarily focused upon the validity of different techniques for estimating body composition characteristics in a variety of subject populations, and the effect of nutritional supplementation on training and athletic performance. In the future, Dr. Eckerson would like to expand her research to examine the potential therapeutic benefits of nutritional supplementation, with special attention given to muscle wasting diseases.

The phenomenon of neuromuscular fatigue during long-term physical activity is the interest area of Dr. Anthony Bull, Assistant Professor. Dr. Bull utilizes mechanomyography and electromyography techniques to explore fatigue during endurance cycling and mathematical modeling techniques to estimate aerobic energy capacities during running and cycling. In the future, Dr. Bull hopes to continue exploring neuromuscular fatigue and possibly expand his research to include rowing exercise and methods of delaying fatigue.

Fine and Performing Arts

Members of the Department of Fine and Performing Arts extend the concept of teacher-scholar to incorporate the role of artist. Faculty members pursue activity in each of these areas, with regional, national, and international recognition.

Notable artistic achievement within the visual arts is witnessed by invited participation at regional and national exhibitions as well as the inclusion of work in various museum and gallery acquisitions. Current faculty projects include a DVD chronicling the Society of Jesus two thousand years after Christ, the preparation of visual images associated with Wounded Knee, and figures created as part of Omaha's "J. Doe" project. Additionally, faculty are engaged in developing new techniques with fired kilns, three dimensional portrayals of the human figure in metal, and photographic imaging in traditional techniques (e.g. platinum and cyanotype printing) as well as emerging ones made possible through new technologies. Faculty routinely supervise student exhibitions throughout the area and encourage student participation in local, regional, and national professional artistic organizations.

Performing artists are active in dance, theatre, and music. Among recent faculty achievements are dramatic appearances at a variety of venues, including award-winning roles on Omaha stages. Work associated with costuming, make-up design, and technical theatre has been critically acclaimed in productions throughout the region. During the past year, music faculty have appeared with numerous organizations, including Opera Omaha, Omaha Symphonic Chorus, the Omaha Symphony (in both solo and ensemble roles), and Mannheim Steamroller. Music faculty have appeared internationally, enjoying concert venues from Europe to Asia. Additionally, most performing artists annually direct, conduct, and supervise student productions, concerts, and recitals. The department's complete collection of Javanese court gamelan instruments, unique within the state of Nebraska, affords additional emphasis on non-Western cultural expressions.

Scholarly work includes traditional academic research as well as arts-specific activity. Music faculty annually produce articles for professional journals, with recent work including a contribution to the new reference tool, *The Liszt Companion*. Additionally, music faculty are actively engaged in the composition and presentation of new scores as well as the production of pedagogical texts. Dance faculty are not just highly sought performers but choreographers as well, with countless appearances and works evidenced throughout the Midwest. Theatre faculty projects include direction, video production, and the development of a large-scale stage work based on the travels of Lewis and Clark. This latter project is a collaborative effort, involving both theatre and music faculty. Art historians are engaged in ongoing research with the Jesuit Church of Quito (Ecuador), western American art, and the application of new technologies to visual images. Additionally, research associated with the University Gallery has resulted in the selection and presentation of exhibits routinely reviewed by Midwest critics.

Departmental faculty are committed to sharing their work and craft as artists within various educational settings. Professional activity for departmental members includes participation as jurors, reviewers, judges, clinicians, and presenters for local, regional, and national arts councils, workshops, and conferences. The artist-faculty of Fine and Performing Arts believe their work is best described by the departmental mission statement: "We believe in the value of the arts as the voice of the human soul. The arts educate, communicate, and inspire us to know more about ourselves, each other, and our place in creation. We believe in the unity of the arts and in the crucial role of arts in education."

Health Policy & Ethics

The research effort at the Center for Health Policy and Ethics responds to the challenge of ethical issues raised by the health care system and patient care. The center is interdisciplinary, including scholars with degrees in philosophy, theology, education, nursing, public health, law, and medicine. This offers a variety of disciplinary paradigms and resources for conceptual analysis and data collection. Additionally, the research interests of the center reflect the stereoscopic vision implied in its name — both health policy and health care ethics. Global topics of public policy as well as the traditional details of clinical decision making are addressed.

Two areas of sustained research are: (1) ethical issues in end of life, palliative care, and chronicity; and (2) issues of justice. However, the scholarly products of the center reflect the diverse influences and concerns of the group: center faculty have produced guidelines for confidentiality in pediatric AIDS, contributed to a new edition of the field's standard encyclopedia, analyzed values at stake in health care reform and managed care, made recommendations for rehabilitative medicine, conducted studies of the health care costs of violence, compared rural communities' responses to the loss of providers, explored the ethical and legal aspects of home health care, created instructional material for pharmacy ethics, nursing ethics, and medical ethics, and examined ethical decision making by the elderly.

Issues of health policy and ethics will continue to demand scholarly inquiry as well as public attention. The health care system is changing rapidly due to market pressures and government action. New medical technologies inevitably create new moral problems. Faculty at the Center for Health Policy and Ethics will continue to make important contributions in this challenging arena as they have significantly done in the past.

Medical Microbiology & Immunology

The Department of Medical Microbiology and Immunology consists of twelve PhDs and four MDs with primary appointments and three PhDs and five MDs with secondary appointments. The department is multi-institutional, encompassing Creighton University Medical Center/Saint Joseph Hospital, the University of Nebraska Medical Center, Childrens Hospital, and the Veterans Administration Medical Center.

The research programs of the department are multi-disciplinary, with expertise in a variety of areas broadly related to medical microbiology and immunology. In addition, collaboration with faculty of other departments within Creighton University School of Medicine, the Veterans Administration Hospital, the University of Nebraska at Lincoln, and the University of Nebraska Medical Center provides an opportunity for innovative research opportunities and supports an integrated graduate program. These collaborative efforts include research in the general areas of antimicrobial agents and chemotherapy, molecular biology, genetics, immunology, microbial toxins, virology, bacterial pathogenesis, diagnostic and clinical microbiology, adult infectious diseases, epidemiology, microbial physiology, and nosocomial infections. The range of research interests extends from clinical trials to test the efficacy of antimicrobial agents to the basic aspects of cellular and subcellular microbiology. The diversity of faculty research interests and scientific pursuits, including a listing of publications and research grants in progress, is summarized in the individual faculty bibliographies.

Infectious Disease

Overall, the Infectious Disease Division provides clinical services in four broad areas: clinical infectious disease consultations; laboratory management; infection control services; and advisory support to public health agencies and organizations. Patient consultations are provided by the adult disease services at several regional hospitals. The adult service is under the direction of Laurel Preheim, M.D. and provides all adult (nineteen years and older) inpatient and outpatient consultations at Saint Joseph's Hospital/Creighton University Medical Center and the Veterans Administration Medical Center-Omaha (VAMC). Members of the department provide consultation in Infectious Disease at each of these institutions.

Center for Research in Anti-Infectives & Biotechnology (CRAB)

The Center for Research in Anti-Infectives and Biotechnology (CRAB) is an association of researchers within the Department of Medical Microbiology and Immunology, Creighton University School of Medicine. The research interests of the center are on many aspects of antimicrobial chemotherapy ranging from drug discovery to studying the molecular mechanisms of antibacterial resistance among bacteria, solving problems of detecting antibacterial resistance in the clinical laboratory, and evaluating new drugs and novel drug combinations to effectively treat resistant bacteria. For over ten years, CRAB faculty have been studying the super-bug strains that are resistant to antibiotics.

The members of the center include specialists in clinical microbiology, molecular biology, and pharmacodynamics. In addition to research endeavors, members of CRAB are active in the teaching of many courses within the Schools of Medicine, Dentistry, and Pharmacy and Allied Health Professions. Courses taught include medical microbiology and immunology, and antimicrobial agents and chemotherapy. The center associates also teach a summer "minicourse" in antimicrobial agents and chemotherapy to pharmaceutical and industry professionals.

Medicine

The research-oriented faculty and laboratories of the Department of Medicine posted many accomplishments in the 2000-2001 academic year. Medicine had a record year in both federal and industry research funding, and for the second year in a row, the faculty published over 100 peer-reviewed articles.

The leading division for research was Endocrinology, with the Osteoporosis Research Center, Bone Metabolism Center, and Diabetes Center all making substantial research contributions. Recent recognition by faculty in the Endocrine Division include Dr. Robert Recker's advancement to Master in the ACP-ASIM, and his election to President of ASBMR. Dr. Mark Johnson was recently featured in a symposium at the National ASBMR meeting where he presented the exciting findings of his work elucidating genetic mechanisms for high bone mass.

Osteoporosis

Investigators in the Creighton Osteoporosis Research Center (ORC) have, for the past forty-four years, made Creighton an international center of excellence in human bone research — investigating how the skeleton remodels itself to repair damage, what goes wrong with that process in the development of osteoporosis, and what the nutritional and exercise requirements are for building strong bones and maintaining bone health. In recent years, the ORC researchers have also focused effort on the effects of smoking on bone health. Additionally, they have begun to study the inheritance of bone mass and are conducting studies to identify the several genes that affect bone mass.

ORC investigators identified several kindreds in which high bone mass is inherited as a Mendelian dominant trait. In one of these kindreds, and in collaboration with biotech and pharmaceutical industry partners, they have identified the gene (*Lrp5*) and causal mutation (G171V) responsible for the high bone mass phenotype. This finding has created tremendous excitement within the bone field because it has revealed a previously unknown pathway important for regulating bone mass and it provides a new target for developing pharmaceutical agents to treat osteoporosis. It also has the potential to open the window on very basic cell biology questions, such as the chemical representation of the set point involved in all biological feedback control loops.

One of their best-known projects, the “Omaha Nuns Study,” involves nearly 200 nuns from Midwestern religious communities who have been followed with intensive physiological measurements for the past thirty-four years. Results from this study have literally “written the book” on the metabolism of calcium in the middle-aged woman. Findings from these studies provided the principal scientific basis for the NIH recommendations for adult calcium intake. The database developed from these studies since their beginning in 1967 is continuously being mined, resulting in two to three original papers each year evaluating, for example, the relationship between calcium intake and obesity, the importance of phosphorus intake, and the role of vegetables in maintaining total body health.

In a more recent study, ORC investigators found that low doses of estrogen are effective in preventing postmenopausal bone loss, but only if combined with high intakes of calcium and supplemental vitamin D. This is good news for women who are unable to tolerate side effects of estrogen replacement therapy at conventional doses. Recently ORC researchers have broadened their scope of study to include children. Three studies of bone health in pubertal girls are currently under way.

Recent ORC work has focused on the human vitamin D requirement and has shown that we use far more of this key substance every day than had been previously thought. Typically, we get 80-90 percent

of our daily need from the sun. But persons of color (and the housebound) do not make much vitamin D that way and are much more dependent on vitamin D supplements and fortified foods. The ORC is currently exploring the daily vitamin D need for persons of color, under a contract from the Department of Defense, who are concerned to ensure normal vitamin D status in persons of color stationed at northern latitudes.

Creighton ORC investigators have provided the conceptual leadership, the detailed background mapping of the field, and the technical excellence needed to support a significant portion of the national research effort into the problem of osteoporosis. Creighton's expertise in the use of radioactive calcium led to the center's being asked to do all of the calcium absorption studies for a national multi-center study involving over 8,000 aging women from around the country. Creighton has literally become the "bio-availability capitol" of the world. The ORC histomorphometry laboratory is the only one of its kind in the country to meet standards termed Good Laboratory Practices, and it too serves as a center for processing and interpreting bone biopsies from many of the national osteoporosis trials.

Recognition of the ORC's work is evidenced by:

- ◇ Creighton was sought by Procter & Gamble, Abbott Laboratories, the New Zealand Dairy Board, Kellogg's, General Mill, Mead-Johnson, to name a few, as the sole site to test the bioavailability of calcium enrichment added to their foods or beverages. The ORC was a study site for the trial of one of the first effective treatments for osteoporosis, Fosamax. ORC researchers worked with Eli Lilly & Company to establish the mechanism of action on bone of their selective estrogen receptor modulator, Evista. The ORC continues to participate in clinical trials of new medications for the prevention and treatment of osteoporosis.
- ◇ The director of the ORC has served on the Advisory Council for the National Institute of Arthritis, Musculoskeletal, and Skin Disorders, and is currently president of the American Society for Bone and Mineral Research, the world's largest body of scientists in the bone field.
- ◇ ORC investigators have chaired many National Institutes of Health and Department of Defense grant review committees and served on countless others. They serve (or served) on the Board of Directors and the Scientific Advisory and Nurses' Steering Committees of the National Osteoporosis Foundation, as well as the Panel on Calcium and Related Nutrients of the Food and Nutrition Board (Institute of Medicine), the body that set the most recent calcium requirements. They also serve as advisors to NASA and consult on experiments to determine the effect of space travel on bone health. They also serve on numerous editorial boards for all the major bone journals.
- ◇ ORC investigators wrote the chapter on bone health for the *Encyclopedia Britannica*, two books on calcium and osteoporosis for non-professional audiences, and the monograph for the Food and Drug Administration which led to approval of a health claim for calcium-rich foods. ORC researchers have published a multitude of journal articles and book chapters in a wide variety of disciplines — medicine, nursing, exercise science, nutrition, biomechanics, genetics, molecular biology, bone biology, and others.
- ◇ Members of the ORC have been selected as Fellows in the American Society of Clinical Endocrinology, the American Institute of Nutrition, and the American Academy of Nursing. In 1994, one member of the group received the Bartter Award of the American Society for Bone and Mineral Research (the top national prize for clinical research into bone). The director of the center was recently named "Master" in the American College of Physicians.

Allergy & Immunology

The Division of Allergy and Immunology has also been very productive in research. Dr. Thomas Casale assumed the role of Division Chief in July, succeeding Dr. Robert Townley, who provided leadership to this division for over thirty years and established a tradition of research excellence. The Allergy and Immunology Division provides clinical services at Creighton University Medical Center/St. Joseph Hospital, the University of Nebraska Medical Center, Children's Hospital, the Veterans Administration Medical Center, and Ehrling Bergquist Hospital. The division has a fellowship training program graduating one to three specialists per year. The division also has a very active research program examining the prevention and treatment of allergic respiratory diseases in animal models and in human clinical trials. The Allergy and Immunology Division is studying several novel biologic response modifiers for asthma.

Other Divisions

The Division of Cardiology conducts numerous clinical studies related to the treatment as well as the prevention of cardiovascular disease. Gastroenterology has substantially expanded its extramurally funded research program under the leadership of Dr. Jeremiah Donovan.

Nursing

School of Nursing faculty members are involved in research and scholarly activities in a variety of areas relevant to clinical practice, curriculum and teaching innovation, outcomes research, health policy and ethics. These activities have been enriched by participation in the university-wide Carnegie Teaching Project and by joint appointments of several faculty members to the Center for Osteoporosis Research and the Center for Health Policy and Ethics. The School of Nursing has been well represented at regional, national, and international conferences and has faculty members who are involved in scholarly consultation, education, and service activities in Lithuania, Azerbaijan, Armenia, El Salvador, and Nicaragua.

Recent clinical practice and research publications have addressed assessment and promotion of bone health, emotional health of nursing home patients, cardiac rehabilitation, adjustment following body-image disruption, stress and coping, deep vein thrombosis, and development of evidence-based protocols for advanced practice nursing. Ongoing externally funded research projects focus on: delivery and outcomes of home visitation for high risk mothers and infants, prevention of domestic violence in Sudanese refugee families, testing the Transtheoretical Model for promoting health behaviors, and exploring women's recovery experiences following a cardiac event.

Curriculum innovation, teaching, and evaluation efforts have been characteristic of much recent faculty scholarly activity. Research and synthesis papers are being published on several aspects of curriculum development, innovative teaching strategies, educational assessment, and outcomes research. The recent curriculum changes and nationwide emphasis on integrating hospital-based and community-based care have resulted in grant funding for two new projects. Faculty will develop, implement and evaluate a new MS program curriculum to prepare advanced practice nurses for blended roles as family nurse practitioners with expertise in community health nursing. Concurrently, the faculty will be developing and testing a model for preparing faculty to function effectively and expand undergraduate student learning opportunities in community-based care.

Pharmacology

The focus of the Department of Pharmacology of the School of Medicine is to investigate and convey knowledge of the interaction of drugs, toxins, and other substances with living systems. We investigate the effect of drugs on living systems from several approaches. A major emphasis is in receptor pharmacology and the nature of drug-receptor interaction, functional effects of drugs, and the molecular nature of drug receptors. These approaches are applied to several organ systems, including the cardiovascular system, the kidney, the eye, the uterus, the nervous system, and various exocrine glands.

Our investigations are aggressively pursued in several active laboratories within the department. These laboratories also support two successful graduate programs that educate students at the master's and doctoral level. The Pharmacology faculty maintain active research collaborations with faculty in other Medical School departments, other Health Sciences schools, and other institutions and pharmaceutical companies. Support for our research endeavors accrues largely from extramural sources such as the National Institutes of Health, the American Heart Association, other private foundations, and the pharmaceutical industry.

The recent research findings by members of the Department of Pharmacology include the discovery of new drug receptor subtypes and the use of a variety of approaches to define function of adrenoceptors, the cloning of novel receptors, and the description and isolation of splice variances of receptors. The characterization of surface enzymes and their participation of secretory function and subtype characterization of adrenergic and muscarinic receptors are further accomplishments. Journals in which these findings were published include the *Journal of Pharmacology and Experimental Therapeutics*, *Molecular Pharmacology*, the *British Journal of Pharmacology*, the *American Journal of Physiology*, and the *European Journal of Pharmacology*. Three members of the department are among the worldwide group of editors of an on-line pharmacology resource called "xPharm," due to be launched in 2002.

The department gives considerable effort to supporting its teaching endeavors and is the primary source of pharmacological expertise at Creighton University. In addition to teaching, curricular innovation, facilitating group discussions, and consultation with individual students in our Health Sciences schools, four of the faculty from the department have contributed chapters to a pharmacology text book used in the School of Dentistry. This text book is recognized nationally as the most widely used dental pharmacology text book. In addition, one member of the department co-edited the text book. This venture constitutes a major commitment to education in pharmacology.

The department embraces the challenge of the Creighton commitment to excellence in all facets of its academic endeavors.

Pharmacy & Allied Health Professions

The research being conducted by faculty and students within the School of Pharmacy and Allied Health Professions encompasses a rich array of topics including the following areas: molecular, basic, and sociocultural mechanisms in health; disease and drug action; outcomes research in patient care, curricular design, student performance as well as ethics, beliefs and policy in practice in settings ranging from public schools to inpatient hospitals, nursing homes and underserved sites such as the Winnebago Nation. The School of Pharmacy and Allied Health Professions has a vigorous and diverse research program.

Investigations are currently in progress assessing basic mechanisms of drug action, drug delivery, cell biology, and the toxicity of drugs and foreign chemicals, patient care, ethics, policy issues, and methods as well as outcomes of student instruction. Funded research projects include: ethical dimensions of patient care; development of computer-based therapeutic case studies; development of a course in pharmacocybernetics on the World Wide Web; delivery of an asynchronous program in pharmacy education on the World Wide Web; the pharmacology of neurotransmitter receptors in the eye and their significance in glaucoma; solid state characterization of drug molecules; development of novel as well as site-specific controlled-release drug delivery systems; immunoregulation of effector T-cells by endogenous mediators including the cytokines; roles of oxidative stress; reactive oxygen species and oxygen radical scavengers in the toxicity of various foreign chemicals, including smokeless tobacco, heavy metals, and pesticides; synthesis of selected drugs; volume transmission in brain renin-angiotensin systems; and a quantitative analysis of the spatial and temporal loss of neurons and activation of glia in prion diseases. Additional funded projects include effects of cultural immersion on students' training, service-based learning and science education of children aged K to 12, and evaluation of distance learning in pharmacy as well as occupational therapy and physical therapy education.

A wide variety of clinical drug studies are in progress involving anti-infective agents, cardiovascular drugs, antineoplastic agents, and drugs used in neurology and urology. Several cancer prevention trials involving breast cancer and prostate cancer are being conducted. More clinically applied research in progress involves studies on drug interactions in the elderly; medication compliance in the elderly; standardized patient assessment; knowledge and attitudes towards older adult sexuality; self-medication programs for the elderly and head injured patients; analysis of functional changes in arthritic subjects; rehabilitation of patients with well-defined dysfunctions of the musculoskeletal systems; electromyographic assessment of gait; assessment of rehabilitation protocols on patients with a deficiency of the anterior cruciate ligament of the knee; assessment of expert performance in physical therapy clinicians; reflective practice as it relates to program evaluation; knowledge in clinical teaching; measurement of forces in manually applied physical therapy treatment; functional outcomes in neurological rehabilitation; exercise protocols for persons with osteoporosis; mechanisms and treatment of persons with Parkinson's disease; vestibular dysfunction in children; documentation in practice; mental health and aging; cultural dimensions of leadership development; development of meaning through occupation; research methodologies in clinical practice; minority health issues; development of tactile systems and self-esteem in children.

Related studies are underway on the valuation of the cost of congestive heart failure, diabetes, hypertension, and other diseases; prognosis and health care resource consumption; bioethical analysis; inclusive education for students with severe and profound disabilities; augmentative and alternative communication; school-based occupational therapy practice; the ethical dimensions in occupational therapy, pharmacy, and physical therapy practice; the role of the Church in the health of elderly members; pharmacy law and management; and pharmacoeconomics and the quality of life. Additional studies are being conducted on pharmacist counseling of pregnant and lactating women; knowledge of pharmacy graduates on consultant pharmacy practice; evaluation of cardiovascular risk in postmenopausal women, and risk assessment of osteoporosis in young adults who are nonambulatory and physically challenged.

The school has received a major federal grant from the National Institute on Drug Abuse to implement and evaluate the benefits of promoting neuroscience literacy among children, teachers, clinical practitioners, and scientists. Additional studies on perception and use of alcohol and other drugs by health professions students are underway as is a study of the degree of codependence in pharmacy and occupational therapy students.

The school has also received a major, three-year federally funded grant from the Agency for Healthcare Research and Quality to study the impact of technology-based point of care information sources and electronic prescribing in physician office-based practices on patient safety, i.e., impact on medication prescribing errors, in a randomized controlled trial. Qualitative research involving human factor analysis is also being conducted in this project to identify and overcome technology barriers of individuals and office-based cultures.

Faculty employ a range of research methods and strategies ranging from basic science and bench research to analysis of extant databases to qualitative inquiry. The School of Pharmacy and Allied Health Professions is in a unique position to foster interdisciplinary research across the varied scientists and clinicians comprising the school faculty. Future goals include increasing the focus upon interdisciplinary research within the school, as well as between the school and other parts of the University, and other educational settings across the nation and globally.

Philosophy & Theology

Research in the Departments of Philosophy and Theology is strongly influenced by both the mission of the University and the pursuit of excellence in undergraduate education. The diversity of research matches the diversity of the faculty and the programs within the departments. Scholarship in both departments includes books, contributions to scholarly anthologies, articles, scholarly translations, book reviews, the presentation of conference papers, and participation in research groups and scholarly organizations. Aware of the public purposes of their research, members of both departments also write for and speak to general audiences.

Faculty in the Philosophy Department have published books or translations of books on ethics, on perennial philosophical questions often addressed in introductory courses, on sport and character, on the Stoic philosopher Epictetus, on Karl Marx, on Friedrich Nietzsche, and on love and friendship. Books in progress concern logic, the philosophy of sport, Norman Maclean's novel *A River Runs Through It*, ethical and policy issues involved with high and low level nuclear waste, the ethics and pedagogy of Epictetus, pervasive false moves in philosophy, Marx's philosophy of social forms, philosophy and political economy in British empiricism, and more. One member of the department has published an anthology of classic texts on commercial life, one is working on a collection of selected writings from Yves Simon, and another is working on an anthology on science and religion. A couple of other anthologies are in the planning stage. Research in the department is timely, well-informed, public-spirited, and pertinent to the distinctive mission of the University.

The Department of Theology has been active in research that is at the heart of the mission of both the University and the Church. Theology faculty have pioneered and continue to explore the application of the principles of cultural anthropology towards better understanding the texts of both the First and Second Testaments, and have published books on Biblical exegesis and interpretation. They have published studies of both early and modern Church history and books on pressing contemporary theological issues of Church, ministry, marriage and family, divorce and remarriage, the role(s) of women in the Church, the moral and the spiritual life and their connections to societal life in America. They have contributed to anthologies and have produced a steady stream of essays for both scholarly and general audiences.

A notable addition to the scholarship in the Department of Theology is the Center for Marriage and Family, established as a research center to build and enhance healthy marriages and families. In the few years since its establishment, the Center has made major contributions to the improvement of marriage preparation in the Church and to the understanding of the dynamics of the ever-growing phenomenon of inter-church marriages.

Physics

Research in the Department of Physics covers a spectrum from the theoretical discussion of the physical meaning of quantum mechanics to experiments in high energy nuclear physics. The high energy project involves several faculty in collaboration with Brookhaven National Laboratory in New York, Lawrence Berkeley Laboratory in California, and the European Center for Particle Physics Research in Switzerland. It investigates the theoretical production of particles from intense fields and the experimental study of nuclei at very high temperatures and pressure. It is hypothesized that, by recreating the conditions present a fraction of a second after the Big Bang, a state of matter not present in the universe since that time, a quark-gluon plasma, might be recreated as well. Observing this previously unseen state will provide information that is relevant to not only particle physics but also cosmology. The quark-gluon plasma is studied using boson interferometry and measurements of strangeness production, work that requires the development of large scale real time control and monitoring systems.

Another line of research seeks to determine the details of the x-ray production from atomic inner-shell ionization using a particle accelerator to produce low energy positive ions for bombarding atoms in solids. Very soft, low energy x-rays are measured with a Si(Li) detector equipped with an ultra-thin entrance window. Collateral information about the general interaction of ions moving in solids is also derived from these studies. The research has importance for basic studies of atomic interactions and has wide application to the nondestructive quantitative analysis of materials by measuring proton-induced x-ray emissions (PIXE) and to modifications of materials for use in the semiconductor industry. Inner-shell ionization in atoms is also being investigated through the photo-ionization process using a radioactive source of x-rays.

Yet another dimension of physics research employs lasers to investigate the interaction of electromagnetic radiation with matter. In one study, the technique of laser ablation is being used to prepare thin films of Yttrium Barium Copper Oxide (YBCO). This is one of a growing number of materials discovered to have a superconducting critical temperature higher than the standard BCS theory predicts to be possible. A study of the absorption of laser radiation by thin films of YBCO may shed light on the mechanism for the high critical temperature and eventually lead to the development of materials that are superconducting at even higher temperatures. This work has wide application in long distance power transmission, biomedical imaging, ultra-fast computer systems, transportation, and communications.

In another study, beams of polarized laser light are being used in combination with a magnetic field to trap and cool neutral Rubidium-85 atoms. The ability to cool atoms to the microkelvin region opens the possibility for a new type of atomic clock several orders of magnitude more accurate than existing atomic clocks. Other applications resulting from the ability to trap and cool atoms with laser light include "optical tweezers," which can manipulate material as small as DNA strands, and ultra-precise atom interferometers used in fundamental physics research.

Currently being developed is a biophysical optics research laboratory. Research in the lab is broadly directed at the development and application of innovative non-invasive optical techniques to study native cellular and tissue environments *in vivo*. The first instrument under development is a laser scanning microscope that will permit selective optical excitation of diffraction-limited volumes while preserving cellular function. This instrument will initially employ a conventional (one-photon) laser source, but will eventually accommodate a tunable ultrafast laser capable of efficient multiphoton excitation of both exogenously administered drugs as well as inherent tissue chromophores. Once completed, it will be used to observe and study the effects of drug-like molecules on cellular physiology and function by characterizing the state of the drug in the cellular environment as well as the cellular response to the presence of the drug.

Political Science & International Studies

Creighton's Department of Political Science and International Studies has emerged as one of the premier research departments among liberal arts colleges in the Midwest. Using citations and mentions in *ABC POLSCI* as a measure of productivity, the department's faculty have published more works per capita than political science departments at any of the schools used as benchmarks by Creighton's administration, as well as several of the most outstanding liberal arts colleges in the region, such as Carleton or Grinnell. Included in the department's impressive research record are recently published books by the University of North Carolina, Johns Hopkins University Press, and Preager. The department has contracts for three more books due to be published in 2002.

The department's faculty have particular interests in democratic transitions in Eastern Europe and Africa, political activity by hitherto marginalized groups in the United States, and the use of formal theory to explain these and other phenomena. Other areas of scholarly activity are church-state relations and environmental policy. As well as these books, in 2001 the department published six articles in peer reviewed professional journals, six chapters in scholarly books, and made seven presentations at major scholarly conferences.

The department has also included students in its research agenda in 2001, with several presenting their research at scholarly conferences and poster competitions, and one publishing a book chapter co-authored with a faculty member. These scholarly achievements have been reflected as well in the department's emphasis on excellence in teaching. Over the years, the department has won many teaching awards, including three College Dean's Awards and three RFK Awards, the latter being the most won by any department in the University.

The full story of the department's success is reflected in the achievements of its graduates. Its graduates have been accepted for graduate study into such programs as Harvard, Yale, Chicago, Minnesota, Berkeley, Duke, Georgetown, Minnesota, Wisconsin, Indiana, and others. Its graduates have also been accepted into some of the nation's top Law schools, including Yale, Chicago, Duke, Georgetown, Virginia, Pennsylvania, Iowa, and New York University. Many of these students have won generous fellowships to support their study at this advanced level.

Finally, the department has also placed its students into fine careers. Recently three graduates won places in the Foreign Service, while others have been placed at the CIA, the Federal Reserve Bank in Washington, the Atlantic Council, the National Science Foundation, and in numerous corporations, law firms, and congressional and senatorial staffs. In all things, the department seeks excellence.

Psychiatry

Psychiatric research is resurgent at Creighton under the auspices of the department's new Institute for Clinical Neuroscience and Psychopharmacology.

In 2001, Creighton Psychiatry has rapidly expanded its operational base while raising standards of clinical and research excellence. The department was most fortunate to recruit Frederick Petty, M.D., Ph.D., as Vice-Chairman for Research. Dr. Petty is an internationally respected and highly productive basic and clinical neuroscientist with a passion for the mentoring of junior faculty researchers.

From having had zero research dollars funded by any source in at least five years (and perhaps as many as twelve years), the department has negotiated some \$750,000 of industry support in the past eight months alone. Already there are seven corporate-sponsored clinical trials. More significantly, growth of clinical trials is expected to grow exponentially for the next several years. In addition, some \$400,000 in foundation support is on award for the current fiscal year even as faculty capacity to apply for and win funded research continues to grow rapidly from a nigh non-existent base.

The Mental Health Research Clinic, a division of the Institute, was founded by Dr. Petty primarily as a center for clinical trials of psychopharmacological agents and to foster a new generation of clinical researchers at Creighton. In addition to his significant portfolio of clinical trials, Dr. Petty moved his neuroscience laboratory from Dallas to Creighton and the Omaha Veterans Administration Medical Center. Meanwhile, Dr. Mae Sokol has moved her clinical laboratory for the study of post-infectious autoimmune (PANDAS) etiologies of pediatric eating disorders from Menninger to Creighton. Dr. Sokol enjoys considerable foundation support and has Federal grant submissions pending.

Psychology

Members of the Psychology Department have developed various research/scholarly programs that reflect the diversity of subject matter in the discipline. Individuals have been involved in the study of behavior(s) in such areas as racism and oppression, risk-taking in adolescents, attachment style and relationships, historical issues, judgments of political candidates, environmental design, stress and health, parenting and children's social skills and academic achievement, object and spatial differences in memory in children and adults, violence prediction, and the biological basis for traumatic brain injury. These investigations have resulted in numerous publications in major journals, books, and book chapters.

One of the things that makes the Psychology Department's research orientation special is the dedication of the faculty to involving and nurturing undergraduate students in the scholarly process. There has been a close working relationship with students by inviting them to participate in faculty members' research and/or sponsoring students' own research. As a result of these efforts, our majors have presented scholarly products at a variety of international, national, regional, and local conventions. In addition, student representatives of the Psychology Department have delivered numerous prize-winning papers at student research conventions. And, perhaps the ultimate, a significant number of our undergraduate students have authorships on articles printed in major refereed journals in Psychology and related fields.

Inspired by the University's mission statement and consistent with the department's mission, faculty have contributed directly and significantly to founding, managing, and producing one of only four refereed psychology journals in the United States that promotes scholarly publication by undergraduate students. As the inaugural editorial pointed out, the *Journal of Psychological Inquiry* exists "to illustrate the high quality of undergraduates' scholarly [and to develop] formal, written communication skills." Thus far, students from schools in Nebraska, Kansas, Missouri, Arkansas, and Oklahoma have published material in the journal. As a tool to facilitate excellence in teaching scientific inquiry and communication skills, to model distinctive and quality student scholarly publication, and to service the academic communities from our own and other colleges and universities, the journal has inspired, enlivened, and energized faculty and students to pursue and participate in scholarly activity.

Sociology & Anthropology

Faculty members in the Department of Sociology and Anthropology are involved in many scholarly activities relating to research and teaching. Each tries to embody the concept of teacher-scholar.

Research conducted to enhance teaching occurs in the faculty's focus on assessment, evaluation and service-learning endeavors. The scholarship of teaching is an area that is very important to some members. Assessment endeavors lead to the improvement of courses, the major, and the department itself. As we continue to strive to become better teachers, we keep what is working and improve upon that which is not. One major initiative that the department has undertaken is to utilize the BSCW, a software package designed for web-based collaborative efforts, for both departmental collaboration and within courses which stress participation, student initiative, and a collaborative format. Once students learn and utilize the BSCW, most begin to appreciate it as a course tool.

Contributing to the betterment of society, our faculty members have written books, reviewed scholarly articles, reviewed books, and have been called upon as consultants in a variety of areas. From survey work with Native American Catholics to neighborhood issues to family relationships, the faculty have utilized their methodological and statistical skills to provide valuable information for both the community and the classroom.

We also seek to discover new knowledge about current issues. Work is ongoing in the interreligious dialogue and inculturation among the Lakota as well as satisfaction and stability in marital relationships. Additionally, we have immersed ourselves in different groups to study the norms and values. We seek to understand the 'why' as well as the 'how.'

Consequently, we strive to fulfill the mission: "...Creighton exists for students and learning. Members of the Creighton community are challenged to reflect on transcendent values, including their relationship with God, in an atmosphere of freedom of inquiry... [S]ervice to others..." We, therefore, continue to learn from as well as challenge those we meet.

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Grants

College of Arts & Sciences

Agresti, A. A. [Principal Investigator], & Fleming, P. A. [Co-Investigator]. Service learning faculty development project. Hewlett Foundation — \$50,000 — (1 July 2000-30 June 2001).

Cherney, M. [Principal Investigator]; Seger, J., & McShane, T. [Co-Investigators]. Study of ultra-relativistic heavy ion collisions. U.S. Department of Energy — \$144,000 — (1 July 2000-30 June 2001).

Cook, T. J. [Principal Investigator]. A pre-final report. National Catholic Educational Association — \$7,500 — (17 July 2000-16 July 2001).

Douglas, A. V. [Principal Investigator]. The development of a Mexican historical climatological network. U.S. Department of Commerce — \$35,292 — (1 September 2000-31 December 2001).

Douglas, A. V. [Principal Investigator]. The Mexican monsoon: Diagnostic studies for improved monthly and seasonal prediction. U.S. Department of Commerce — \$35,292 — (1 September 2000-31 August 2001).

Eckerson, J. M. [Principal Investigator]; Stout, J. R., & Moore, G. A. [Co-Investigators]. Effects of creatine phosphate supplementation on critical power and anaerobic working capacity in males and females. Numico Research — \$9,150 — (1 November 2000-1 January 2001).

Houtz, L. E. [Principal Investigator]. Infusing educational technology into classroom planning (PT3 round II). Nebraska Department of Education — \$15,000 — (12 January 2001 – 31 August 2001).

Houtz, L. E. [Principal Investigator]. Preparing Creighton's preservice teachers to use technology (PT3 round I). Nebraska Department of Education — \$17,290 — (1 September 2000 – 31 August 2001).

Ishii-Jordan, S. [Principal Investigator]. Culturally/linguistically diverse exceptional (CLDE) learners: Assessment and interventions - V. Nebraska Department of Education — \$11,180 — (1 August 2000- 1 September 2001).

Kearley, M. L. [Principal Investigator]. Characterization of malondialdehyde acetaldehyde protein adducts. National Institutes of Health — \$44,271 — (1 July 2000-30 June 2002).

Keegan, B. [Principal Investigator]. *English labouring-class poets, 1700-1900* (A six-volume scholarly edition) *volume II: 1740-1780*. National Endowment for the Humanities — \$4,000 — (1 May 2001- 30 September 2001).

Keegan, B. [Principal Investigator]. Mayer Fellowship. Huntington Library, San Marino, CA — \$2000 — (June 2001).

Muskin, M.-B. D. [Principal Investigator]. Creighton University's paramount educational project. Nebraska Department of Education — \$12,591 — (1 September 2000- 31 August 2001).

Olson, L. O. [Principal Investigator]. PT3 Nebraska catalyst grant project. Nebraska Department of Education — \$5,000 — (24 January 2001-31 August 2001).

Olson, L. O. [Principal Investigator], & Bryg, V. [Co- Investigator]. A professional development project to provide a reading clinic for at-risk students in socioeconomically diverse schools (year 3). Coordination Commission for Post-Secondary Education, Eisenhower Professional Development Program — \$14,162 — (1 March 2001- 31 October 2001).

Otsubo, S. [Principal Investigator]. Postdoctoral fellowship. Edwin O. Reischauer Institute of Japanese Studies, Harvard University — \$32,000 — (1 July 2000-30 June 2001).

Otsubo, S. [Principal Investigator]; LaCroix, M. J., & Grabe, L. [Co-Investigators]. Multi-volume sets grant. National Coordinating Committee on Japanese Library Resources — Y150,000 [approx. \$1,400] — (March 2001).

Quinn, T. [Principal Investigator], & Houtz, L. E. [Co-Investigator]. Build a human pre-college project. Howard Hughes Medical Institute — \$225,000 — (1 September 1999 – 31 August 2003).

Reidelberger, R. D. [Principal Investigator], & Hulce, M. [Co-Investigator]. Cholecystokinin mechanisms in control of food intake. NIH-NIDDK — \$532,775 — (1 May 1997-31 August 2001).

Schalles, J. F. [Principal Investigator]. The Nebraska initiative for aerospace research and industrial development (NIARID). National Aeronautics Space Administration/EPSCoR — \$7,500 — (14 November 2000-31 October 2001).

Soukup, J. K. [Principal Investigator]. Clare Boothe Luce professorship research funds. Henry Luce Foundation — \$80,000 — (1 August 2000-30 July 2005).

College of Business Administration

Tan, J. Ivey School of Business, University of Western Ontario — \$2,000 — (2001).

Tan, J. A study of foreign direct investment in China and Hong Kong. Chinese University of Hong Kong — HK\$18,000 — (2000).

School of Dentistry

Barkmeier, W. W. [Principal Investigator]. Tomax imaging research. Health Future Foundation — \$49,300 — (1 July 2000-30 June 2001).

Barritt, L. [Principal Investigator]. Expression of G-protein subunits in the developing inner ear. Health Future Foundation — \$19,900 — (1 July 2000-30 June 2002).

Cerutis, D. R. [Principal Investigator]. Lysophosphatidic acid and endotoxin: Effects on human gingival fibroblasts. Health Future Foundation — \$20,000 — (1 July 2000-30 June 2002).

Latta, M. A., & Barkmeier, W. W. [Principal Investigators]. Laboratory evaluation of the shear bond strength of composite resin to dentin of a new self-etching adhesive system. Dentsply/Caulk — \$1,200 — (6 June 2000-7 July 2000).

Latta, M. A., & Barkmeier, W. W. [Principal Investigators]. Shear bond strength of composite resin to dentin and enamel using self-etching and conventional adhesive systems. Dentsply/DeTrey — \$4,800 — (7 October 2000-30 November 2000).

Latta, M. A [Principal Investigator]; Meng, T., & Smith, J. [Co-Investigators]. Physical property evaluation of four compression molded denture base resins. Dentsply — \$6,180 — (25 August 2000).

Latta, M. A. [Principal Investigator]; Naughton, W., Romito, L., & Higginbotham, D. [Co-Investigators]. Simulated clinical evaluation of megalloy spherical alloy. Dentsply/Caulk — \$8,250 — (19 July 2000-15 October 2000).

McVaney, T. P., & Cerutis, R. [Principal Investigators]. Lysophosphatidic acid mediation of human periodontal ligament and gingival fibroblast proliferation in wound healing model. Nebraska Academy of Periodontology — \$4,000 — (1 July 2000-31 December 2002).

School of Medicine

Abel, P. W. [Principal Investigator]. Chris Hague: Different alpha1-adrenergic receptor subtypes are linked to different functions on vascular smooth muscle. American Heart Association-Nebraska Affiliate — \$18,000 — (1 July 2000-30 June 2001).

Adrian, T. E. [Principal Investigator]. Anticancer effects of oils from an echinoderm. American Institute for Cancer Research — \$162,975 — (31 January 2001-31 December 2002)

Adrian, T. E. [Principal Investigator]. SPORE in gastrointestinal cancer. NIH — \$84,511 — (1 February 2001-31 July 2001).

Adrian, T. E. [Principal Investigator], & Pour, P. M.[Co-Investigator]. Model for evaluating metastasis in pancreatic cancer. National Institutes of Health — \$35,000 — (1 October 2000-30 September 2001).

Agrawal, D. K. [Principal Investigator]. Effect of MDI-discovered peptides as antihypertensive agents in spontaneously hypertensive rats. Magnesium Diagnostics, Inc. — \$3,000 — (15 January 2001).

Agrawal, D. K. [Principal Investigator]. Effect of Ranbaxy experimental compounds as anti-asthmatic agents in guinea pigs. Ranbaxy Laboratories, Inc. — \$34,503 — (15 December 2000).

Agrawal, D. K. [Principal Investigator]. Effect of suplatast tosilate (IPD) on the expression and activity of G-proteins intracellular free CA²⁺ P13-kinase and nuclear transcription factor NFKB in human airway epithelial cells and human blood eosinophils. Taiho Pharmaceutical Co., Ltd. — \$50,400 — (1 July 2000).

Anderson, R. J. [Principal Investigator]. Double-blind randomized comparison study of the long term (two year) safety and efficacy of pioglitazone HCl glyburide in subjects with type 2 diabetes naive to pharmacologic therapy. Takeda America, Inc. — \$10,373.94 — (21 August 2000).

Anderson, R. J. [Principal Investigator]. Randomized double-blind study to compare the durability of glucose lowering and preservation of pancreatic beta-cell function of rosiglitazone monotherapy compared to metformin or glyburide/glibenclamide in patients with drug-naive recently diagnosed ... SmithKline Beecham Pharmaceuticals — \$8,406 — (11 September 2000).

Arouni, A. [Principal Investigator]. Prospective study of venous thromboembolism (VTE) patient characteristics diagnostic methods and treatment plans in preparation for a phase III study. AstraZeneca — \$900 — (1 September 2000).

Arouni, A. [Principal Investigator], & Mohiuddin, S. M. [Co-Investigator]. Double-blind efficacy and safety study of the oral direct thrombin inhibitor H376/95 versus standard therapy [enoxaparin and warfarin (coumadin)] in patients with acute symptomatic deep venous thrombosis with or without pulmonary embolism (Thrive V). AstraZeneca — \$7,200 — (1 August 2000).

Arouni, A. [Principal Investigator], & Mohiuddin, S. M. [Co-Investigator]. Efficacy and safety study of the oral direct thrombin inhibitor H 376/95 compared with dose-adjusted warfarin (coumadin) in the prevention of stroke and systemic embolic events in patients with atrial fibrillation (sportif V). AstraZeneca — \$6,000 — (1 August 2000).

Beisel, K. W. [Principal Investigator]. Molecular delineation of the cochlear hair cells. NIH-NIDCD — \$647,680 — (1 January 2000-31 December 2002).

Bertoni, J. M. [Principal Investigator]. Parkinson's disease collaborative study of genetic linkage. NIH — \$1,601 — (1 September 2000-31 August 2001).

Bertoni, J. M. [Principal Investigator]. Phase III multi-national multi-center double-blind parallel-group placebo controlled randomized extension of study 320 of the effect of riluzole on the progression of Parkinson's disease. Aventis Pharmaceuticals — \$33,839 — (1 January 2001).

Bessen, R. A. [Principal Investigator]. Strain properties of the prion protein. NIH — \$99,029 — (1 June 2001-31 May 2002).

Bessen, R. A. [Principal Investigator]; Drescher, K., & Kincaid, A. E. [Co-Investigators]. Nebraska Center for Viral Pathogenesis: Role of glial cells in prion diseases. NIH — \$189,200 — (30 September 2000-31 August 2001).

Bhatia, S. K. [Principal Investigator]. Double-blind placebo-controlled parallel-group flexible dose study of venlafaxine ER in adolescent outpatients with social anxiety disorder. Wyeth-Ayerst Laboratories — \$8,880 — (15 April 2001).

Bockman, C. S. [Principal Investigator], & Dowd, F. [Co-Investigator]. α_1 -adrenoceptor subtypes and chloride current in rat parotid gland acini. NIH-NIDCR — \$64,444 — (1 August 2000-31 July 2001).

Bonebrake, R. G. [Principal Investigator]. Substance free for a healthy start (TWEAK) project. Douglas County Health Department, the Nebraska Health & Human Services System, & the

University of Nebraska Medical Center's Monroe Meyer Institute — \$4,500 — (September 1999-Aug 2002).

Bonebrake, R. G. [Principal Investigator], & Cote, J. Comparison of one-hour glucose screening to fasting insulin/glucose ratios. Creighton University — \$10,291 — (July 2000-June 2001).

Bonebrake, R. G. [Principal Investigator], & Cote, J. Language and cultural access program. Douglas County — \$8,190 — (1 October 2000-30 September 2001).

Bonebrake, R. G. [Principal Investigator], & Cote, J. Language and cultural access program. State of Nebraska Health Care Cash Fund — \$83,523 — (1 October 2000-30 September 2001).

Bradley, M. E. [Principal Investigator]. Nitric oxide action in primate myometrium. NIH — \$101,513 — (1 December 2000-30 November 2001).

Bradley, M. E. [Principal Investigator]. Role of map kinases in nucleotide receptor signaling in human coronary endothelial cells. Health Future Foundation — \$20,000 — (1 July 2000-30 June 2002).

Brauer, P. R. [Principal Investigator]. Folic acid and homocysteine: Mechanism of heart defects. NIH — \$52,170 — (1 March 2001-28 February 2002).

Brauer, P. R. [Principle Investigator]. Matrix metalloproteinases in cardiac neural crest cell migration and heart development. American Heart Association, Heartland Affiliate — \$79,945 — (1 July 2000-30 June 2002).

Brookhouser, P. E. [Principal Investigator], & Jesteadt, W. [Co-Principal Investigator]. Otolaryngology clinical trials cooperative group. NIH-NIDCD (Subcontract with AAO, Alexandria, VA) — \$265,134 — (15 April 1997-31 March 2003).

Casale, T. B. Double-blind, placebo-controlled, randomized, parallel group study of four doses of loteprednol etabonate nasal spray (100 µg, 200 µg, 400 µg and 800 µg) with Flonase® (200µ) as an open active-control in the treatment of adults and adolescents with allergic rhinitis induced by grass pollen. Muro — (May 2001).

Casale, T. B. Phase II safety and efficacy study of nebulized recombinant human IL-4 receptor in asthma. Immunex — \$31,238 — (1 August 2000).

Casale, T. B. [Principal Investigator]; Agrawal, D. K., Amin, B., Bewtra, A., Hopp, R. J., Huerter, C., Romero, F. A., & Townley, R. G. [Co-Investigators]. Double-blind dose comparison retreatment study to evaluate the efficacy and safety of intramuscular administration of LFA3TIP (LFA-3IgG₁ human fusion protein) in subjects with chronic plaque psoriasis who have previously completed study C99-712. Biogen — \$61,380 — (August 2000).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Ciesemier, L., Hopp, R. J., Romero, F. A., & Townley, R. G. [Co-Investigators]. A randomized, double-blind, parallel group, placebo controlled, multicenter study of the efficacy and safety of Zyrtec® (cetirizine HCl) syrup versus Claritin® (loratadine) syrup versus placebo in the treatment of children with seasonal allergic rhinitis. Pfizer, Inc. — \$8,000 — (16 April 2001).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., Romero, F. A., & Townley, R. G. [Co-Investigators]. Advil multi-symptom allergy sinus efficacy and safety study. Whitehall Robins Healthcare — \$8,010 — (15 March 2001).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., Romero, F. A., & Townley, R. G. [Co-Investigators]. A double-blind, placebo-controlled, parallel group study of the efficacy and safety of once daily flunisolide HFA inhaler system in patients with asthma currently treated with steroids. Forest Laboratories — \$9,216 — (April 2001).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., Romero, F. A., & Townley, R. G. [Co-Investigators]. Double-blind randomized placebo controlled parallel group study assessing the efficacy and safety of oral fexofenadine HCl tablets 30 mg. twice a day in pediatric subjects (6-11 years) in the treatment of seasonal allergic rhinitis. Aventis Pharmaceuticals — \$45,960 — (August 2000).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., Romero, A., & Townley, R. G. [Co-Investigators]. One-week double-blind placebo-controlled dose-confirming study to determine the efficacy and safety of oxis turbuhaler administered to adults and adolescents with asthma. AstraZeneca — \$3,000 — (1 March 2001).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., Romero, F. A., & Townley, R. G. [Co-Investigators]. Phase II safety and efficacy study of nebulized recombinant human IL-4 receptor in asthma patients using inhaled corticosteroids. Immunex Corporation — \$24,823 — (December 2000).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., Romero, F. A., & Townley, R. G. [Co-Investigators]. A randomized, double-blind, multicenter study to evaluate the effect of adding either montelukast sodium or salmeterol xinafoate to inhaled fluticasone in adult asthmatics (Challenge rescue substudy #2). Merck & Company, Inc. — \$25,078 — (September 2000).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., Romero, A., & Townley, R. G. [Co-Investigators]. Twelve-month open-label study of oxis turbuhaler in adults and adolescents with asthma. AstraZeneca — \$1,500 — 1 March 2001).

Casale, T. B. [Principal Investigator]; Amin, B., Bewtra, A., Hopp, R. J., & Townley, R. G. [Co-Investigators]. Phase IIa cross-over study of once daily inhalations of AlbuLast™ compared to placebo in adults with asthma. Alkermes — \$43,211 — (September 2000).

Cavalieri, S. J. Antimicrobial activity of transport media. TriPath Imaging — \$2,500 — (19 October 2000).

Cavalieri, S. J. Studies in antimicrobial susceptibility. Augmentin SR anaerobe study. Laboratory Specialists, Inc. — \$280 — (12 December 2000).

Cavalieri, S. J. Studies in antimicrobial susceptibility. MRL Pharmaceutical Services — \$850 — (8 August 2000).

Cavalieri, S. J. Studies in antimicrobial susceptibility. Mystic 2001 study. The JONES Microbiology Institute, Inc. — \$1,250 — (23 March 2001).

Cavalieri, S. J. Studies in antimicrobial susceptibility. Protekt HMR 3647 surveillance study. \$880 — (18 April 2001).

Cavalieri, S. J. Studies in antimicrobial susceptibility. Sentry 2000 study. University of Iowa Health Care— \$2,750 — (19 October 2000).

Cavalieri, S. J. Studies in antimicrobial susceptibility. Sentry 2001 study. The JONES Microbiology Institute, Inc. — \$2,750 — (22 March 2001).

Cavalieri, S. J. [Principal Investigator]. Submission of clinical isolates. Jones Microbiology Institute — \$4,000 — (10 April 2001).

Cavalieri, S. J. [Principal Investigator]. Submission of clinical isolates - Protekt study. Aventis Pharmaceuticals — \$880 — (24 April 2001).

Chakkalakal, D. A. [Principal Investigator], & Akhter, M. P. [Co-Investigator]. Soy isoflavones and vitamin E increase strength of healing rat bone fractures. U.S. Department of Agriculture — \$110,076 — (1 July 1999-30 June 2001).

Chakkalakal, D. A. [Principal Investigator], & Donohue, Jr., T. M. [Co-Investigator]. Effect of alcohol on bone fracture healing. \$15,000 — (1 September 1999-31 January 2001).

Chakkalakal, D. A. [Principal Investigator], & Donohue Jr., T. M., [Co-Investigator]. Mechanistic basis for improving fracture healing in alcoholics. U.S. Department of Veterans Affairs, Medical Research Service — \$860,400 — (1 October 2000-30 September 2004).

Chakkalakal, D. A. [Principal Investigator], & Novak, J. N. [Co-Investigator]. Methods to improve pain-free function of reconstructed hip joints. U.S. Department of Veterans Affairs, Rehabilitation Research & Development Service — \$535,599 — (15 August 2000-14 August 2003).

Chartrand, S. A. [Principal Investigator]. Comparative safety and efficacy of cefditoren pivoxil and cefprozil (cefzil) suspensions in the treatment of children with acute otitis media. Paragon Biomedical, Inc. — \$4,962 — (1 November 1999-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Comparison of the safety, tolerability and immunogenicity of process upgrade varicella vaccine made with new stabilizer to process upgrade varicella vaccine made with current stabilizer when administered concomitantly with M-M-R II. Merck & Company, Inc. — \$5,838 — (1 October 1999-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Comparison of the safety, tolerability and immunogenicity of three consistency lots of frozen measles, mumps, rubella and varicella vaccine (MMRV) in healthy children. Merck & Company, Inc. — \$96,897 — (1 February 2000-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Linezolid versus cefadroxil in treatment of skin and skin structure infections in children. Pharmacia & Upjohn — \$11,892 — (1 June 2000-1 May 2001).

Chartrand, S. A. [Principal Investigator]. MedImmune outcomes project. MedImmune, Inc. — \$11,500 — (1 May 1999-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Open-label multicenter non-comparative study of gatifloxacin in the treatment of recurrent otitis media in children. Bristol-Myers Squibb — \$1,000 — (1 January 2000-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Penetration of cefditoren into middle ear fluid in infants and children with acute otitis media following a single oral dose of cefditoren pivoxil. Tap Pharmaceuticals, Inc. — \$1,461 — (1 June 2000-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Prospective observational study to characterize some disease patterns in patients with recurrent acute bacterial sinusitis. SmithKline Beecham Pharmaceuticals — \$70,353 — (1 February 2000-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Prospective open-label non-randomized naturalistic long-term safety surveillance observational study of ciprofloxacin (either as oral suspension, oral tablets or sequential IV oral therapy or purely IV therapy) in the treatment of pediatric patients. Bayer Corporation — \$3,000 — (1 April 2000-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Safety, immunogenicity and lot-consistency study of Connaught hybrid pertussis vaccine in combination with diphtheria and tetanus toxoids absorbed and inactivated poliomyelitis vaccine used to reconstitute lyophilized haemophilus influenzae type B tetanus. Aventis Pasteur, Inc. — \$213,335 — (4 February 2000-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Safety, tolerability and immunogenicity of one versus two injections of new production lots of OKA/Merck varicella vaccine in healthy children. Merck & Company, Inc. — \$6,750 — (1 May 1992-1 May 2001).

Chartrand, S. A. [Principal Investigator]. Safety, tolerability and immunogenicity of varying regimens of OKA/Merck varicella vaccine in seronegative adolescents and adults. Merck & Company, Inc. — \$2,550 — (15 October 1990-1 May 2000).

Chartrand, S. A. [Principal Investigator]. Varicella vaccine (protocol amendment 7). Safety, tolerability and immunogenicity in healthy children and adolescents. Merck & Company, Inc. — \$7,800 — (1 December 1992-1 May 2001).

Chatterjee, A. [Principal Investigator]. Inhibition of *Helicobacter pylori* by lactobacillus acidophilus DDS-1 strain. Nebraska Cultures Inc. — \$2,500 — (1 April 2001).

Chatterjee, A. [Principal Investigator], & Chartrand, S. A. [Co-Investigator]. Burden of respiratory syncytial virus (RSV): A study of child and family distress and adjustment during hospitalization and recovery. MedImmune, Inc. - \$4,300 — (1 November 2000-1 May 2001).

Chatterjee, A. [Principal Investigator], & Chartrand, S. A. [Co-Investigator]. Multicenter randomized double-blind study to evaluate the safety, tolerability and immunogenicity of a two-dose regimen of high titered (50,000 pfu/0.5 ml) process upgrade varicella vaccine (PUVV) in subjects >13 years of age. Merck & Company, Inc. — \$12,120 — (1 September 2000-1 May 2001).

Chatterjee, A. [Principal Investigator], & Chartrand, S. A. [Co-Investigator]. Safety and efficacy of pentavalent (G1, G2, G3, G4 and P1) human-bovine reassortant rotavirus vaccine in healthy infants (V260). Merck & Company, Inc. — \$43,180 — (1 January 2001-1 May 2001).

Chatterjee, A. [Principal Investigator], & Chartrand, S. A. [Co-Investigator]. Synagis® (Palivizumab) outcomes registry. Emmes Corporation — \$3,100 — (28 August 2000-1 May 2001).

Clark, R. [Principal Investigator], & Mooss, A. N. [Co-Investigator]. Phase IIIB randomized open label trial with three parallel groups; full dose TNK-TPA together with heparin sodium; full dose TNK-TPA together with enoxaparin; and half dose TNK-TPA together with abciximab and heparin sodium in patients with acute myocardial. Boehringer Ingelheim Pharmaceuticals, Inc. — \$1,400 — (1 September 2000).

Conlon, J. M. [Principal Investigator]. Development of novel peptide-based antimicrobial agents. Restoragen, Inc. — \$120,000 — (1 May 2001-30 April 2003).

Connell, P. H. [Principal Investigator], & Sullivan, P. M. [Co-Investigator]. NIMH constituency outreach and education program. NIMH — \$15,000 — (1 October 2000-31 August 2002).

Cosgrove, D. E. [Principal Investigator]. Molecular aspects of Alport renal disease progression. NIH-NIDDK — \$643,535 — (15 May 1999-31 March 2003).

Cosgrove, D. E. [Principal Investigator], & McGee, J. [Co-Investigator]. Genetics of Usher syndrome — Project 3: Usherin: Function, expression, and role in pathogenesis. NIH-NIDCD — \$451,320 — (1 May 2000-30 April 2004).

Cullen, D. [Principal Investigator]. Comparative effects of soy isoflavones soy protein and 17B-estradiol on trabecular and cortical bone in aged ovariectomized rats - A histomorphometric analysis. Purdue University — \$ 11,700 — (1 January 2001-31 December 2001).

Del Core, M. [Principal Investigator]. Epic epilog and epistent long term mortality follow-up study. Centocor, Inc. — \$2,200 — (1 August 2000).

Deng, H.-W. [Principal Investigator]. Genetics studies of bone mass and osteoporotic fractures. Department of Medicine, Creighton University — \$25,000 — (1 January 2000-31 December 2000).

Deng, H.-W. [Principal Investigator]. International symposium on mapping and identification of genes underlying complex diseases & traits (ChangSha, China). National Science Foundation of China; Hunan Normal University — \$10,000 — (23 May 2001-26 May 2001).

Deng, H.-W. [Principal Investigator]. TDT test of candidate genes for bone mass variation in Chinese populations. Outstanding Young Scientist Award, National Science Foundation of China — \$100,000 — (1 January 2001-31 December 2004).

Deng, H.-W. [Principal Investigator], & Haynatzki, G. [Co-Investigator]. Characterization of deleterious genomic mutations. NIH — \$891,296 — (1 July 2000-30 June 2005).

Deng, H.-W. [Principal Investigator], & Recker, R. R. Joint effects of genes and smoking on bone. U.S. Department of Health & Human Services; State of Nebraska Department of Finance & Support — \$40,000 — (1 July 2000-30 June 2001).

Donovan, J. P. [Principal Investigator]. Multicenter study to assess the efficacy, safety, and tolerability of tegaserod given orally at three dose levels (1.5 mg, 6 mg, or 18 mg) and placebo in

patients with functional dyspepsia (FD) and documented normal/delayed gastric emptying. Novartis Pharmaceuticals Corporation — \$2,777 — (1 October 2000).

Donovan, J. P. [Principal Investigator]. Prospective randomized multicenter open-label comparative safety study of pagasys versus pegasys plus ribavirin treatment versus a twelve-week treatment delay in patients with chronic hepatitis C. Roche Laboratories, Inc. — \$2,500 — (1 December 2000).

Drake, C. [Principal Investigator]. Child health clinics project. State of Nebraska — \$70,000 — (1 July 2000-30 June 2001).

Drescher, K. [Principal Investigator]. IL-4 upregulation in THEILER'S virus-infected scid mice. Health Future Foundation — \$20,000 — (1 July 2000-30 June 2002).

Filipi, C. J. [Principal Investigator]. Evaluation of Bard endoscopic suturing system for the endoluminal gastroplication for the treatment of gastroesophageal reflux disease (GERD) versus a Sham endoscopy. Bard Interventional Products — \$26,860 — (24 January 2001).

Fitzgibbons, Jr., R. J. [Principal Investigator]. Tension free inguinal hernia repair: Comparison of open and laparoscopic surgical techniques. Veterans Administration — \$1,096,908 — (1 August 2000-31 July 2001).

Fitzgibbons, Jr., R. J. [Principal Investigator]. Watchful waiting versus Lichtenstein hernia management trial. NIH — \$258,197 — (30 September 2000-29 September 2001).

Fleming, A. D. [Principal Investigator]. Maurice Grier Symposium. Aventis Pharmaceuticals — \$400 — (20 July 2000).

Fritzsich, B. [Principal Investigator]. Neurobiology of the auditory system - Core C: Electron microscopy. NIH — \$52,039 — 1 February 2001-31 January 2002).

Fritzsich, B. [Principal Investigator]. Molecular delineation of the cochlear hair cells. NIH — \$21,660 — (1 January 2001-31 December 2001).

Fritzsich, B. [Principal Investigator]. Neurobiology of the auditory system - Project II: Embryonic development of the efferent system. NIH — \$178,739 — (1 February 2001-31 January 2002).

Fusaro, R. M. [Principal Investigator]; Amin, B., Bewtra, A., Casale, T. B., Hopp, R. J., Huerter, C., Romero, F. A., & Townley, R. G. [Co-Investigators]. Randomized open-label controlled study to assess the effect of intravenous LFA3TIP (LFA-3/IgG₁ human fusion protein) on T cell-dependent humoral responses to recall and neo-antigens in subjects with chronic plaque psoriasis. Biogen — \$37,337 — (July 2000).

Gallagher, J. C. [Principal Investigator]. Effect of increased soy protein intake on bone metabolism. Protein Technologies International — \$196,683 — (1 December 2000).

Gallagher, J. C. [Principal Investigator]. Falls in the elderly. Roche Laboratories, Inc. — \$227,507 — (1 January 2001).

Gallagher, J. C. [Principal Investigator], & Nagy, A. [Co-Investigator]. Phase III study of depot medroxyprogesterone acetate subcutaneous injection (DMPA-SC) in women with endometriosis in U.S. and Canada. Pharmacia, Inc. — \$13,968 — (1 April 2001).

Gallagher, J. C. [Principal Investigator], & Nagy, A. [Co-Investigator]. Proof of principle randomized phase I/II placebo-controlled parallel study to evaluate the effects of SCH57068 in combination with estradiol on vasomotor symptoms (hot flashes) in postmenopausal women. Schering-Plough Research Institute — \$990 — (1 April 2001).

Gentry-Nielsen, M. J., & Preheim, L. C. [Co-Principal Investigators]. Enhancement of pneumococcal pathogenesis in the cirrhotic host. Merit Review Program — \$910,100 — (2000-2004).

Goering, R. V. [Principal Investigator]. Isolate study pool. Advanced Renal Services, LLC — \$720 — (1 Decemer 2000-30 November 2001).

Goering, R. V. [Principal Investigator]. Isolate study pool. Children's Hospital Foundation — \$160 — (30 November 2000).

Goering, R. V. [Principal Investigator]. Molecular analysis of genomic interrelationships and resistance genes in selected gram-negative isolates. Pfizer Inc. — \$11,088 — (1 July 2000).

Goering, R. V. [Principal Investigator]. Molecular analysis of toxic shock syndrome toxin-1 (TSST-1) producing staphylococcus aureus isolates for the presence of the methicillin-resistance gene (MECA). Procter & Gamble Company — \$14,148 — (1 January 2001).

Gong, G. [Principal Investigator]. EP receptor subtypes and mechanical loading. NIH — \$63,938 — (1 September 2000-31 August 2002)

Gorga, M. P. [Principal Investigator]; Keefe, D. H., Neely, S. T., & Dorn, P. A. [Co-Investigators]. Cochlear nonlinearity and auditory function in humans. NIH-NIDCD — \$835,398 — (1 July 1999-30 June 2004).

Hallworth, R. [Principal Investigator]. Mechanism of outer hair cell motility. NIH — \$244,724 — (1 December 2000-30 November 2001).

Hansen, L. [Principal Investigator]. Role of EGFR in UV-induced Skin carcinogenesis. NIH — \$103,951 — (23 January 2001-31 December 2001).

Hanson, N. D. [Principal Investigator]; Chartrand, S. A., & Lister, P. [Co-Investigators]. Identification of sequential mutations in pathogens found in cystic fibrosis patients following long-term multiple antibiotic exposure and their impact on effective treatment. John A. Wiebe, Jr. Grant Foundation — \$94,115 — (1 January 2001-31 December 2003)

Hanson, N. D. [Principal Investigator]; Lister, P. D., & Thomson, K. S. [Co-Investigators]. Detection and identification of beta-lactamases studies. Ortho-McNeill — \$36,000 — [1 October 2000].

Hanson, N. D. [Principal Investigator], & Moland, E. S. [Co-Investigator]. Research protocol for characterization of beta-lactamase resistance in enterobacteriaceae. bioMerieux Vitek, Inc. — \$6,000 — (5 January 2001).

Hanson, N. D., Thomson, K. S., Moland, E. S., & Chartrand, S. A. Molecular characterization of quinolone resistance developed *in vitro* in gram-positive cocci. Daiichi Pharmaceuticals — \$40,248 — (31 October 2000).

He, D. Z. Z. [Principal Investigator]. Biophysics and development of cochlear outer hair cells. NIH-NIDCD — \$650,000 — (1 December 2000-30 November 2005).

Heaney, R. P. [Principal Investigator]. Bony effects of nonskeletal illness. Health Future Foundation — \$70,991 — (1 July 2000-30 June 2001).

Heaney, R. P. [Principal Investigator]. Bony effects of transient nonskeletal illness. NIH — \$216,105 — (1 August 2000-31 July 2001).

Heaney, R. P. [Principal Investigator]. Calcium supplements and PMS. GlaxoSmithKline — \$7,490 — (1 September 2000-31 December 2000).

Heaney, R. P. [Principal Investigator]. Confirmation study of the effect of an orafti oligosaccharide on absorption of calcium. Tiense Suikerraffina — \$33,600 — (1 July 2000-30 April 2001).

Heaney, R. P. [Principal Investigator]. Effect of proton pump inhibition on calcium carbonate absorption. AstraZeneca — \$7,658 — (20 September 2000).

Heaney, R. P. [Principal Investigator]. Effects of a calcium-rich food on bone remodeling markers in adult women. General Mills — \$45,000 — (1 January 2001-30 August 2001).

Heaney, R. P. [Principal Investigator]. Longitudinal study of a pre-osteoporosis population. Health Future Foundation — \$94,729 — (1 July 2000-30 June 2001).

Heaney, R. P. [Principal Investigator]. Phosphorus nutrition, bone building, and serum phosphorus. Rhodia, Inc. — \$56,247 — (1 April 2000-31 December 2001).

Heaney, R. P. [Principal Investigator]. PMS lookback study. GlaxoSmithKline — \$23,100 — (1 October 2000-31 October 2001).

Heaney, R. P. [Principal Investigator], & Dowell, S. [Co-Investigator]. Confirm the comparative absorbability of AdvaCAL to Citracal. LaneLabs — \$35,600 — (1 August 2000-1 August 2001).

Heaney, R. P. [Principal Investigator]; Dowell, S., & Rafferty, K. [Co-Investigator]. Comparative effects of phosphate and carbonate salts of calcium on serum phosphorus in older women. Rhodia, Inc. — \$70,308 — (1 September 2000).

Higgins, M. B. [Principal Investigator]. Improving speech intervention for deaf children. NIH-NIDCD — \$681,028 — (1 September 2000-31 August 2005).

Jacobs, D. O. [Principal Investigator]. Augmented injury due to autologous inflammatory attack. NIH — \$90,876 — (1 April 2001-31 March 2002).

Jacobs, D. O. [Principal Investigator]. Development of surgical laboratories for biomedical investigation at Creighton University. Health Future Foundation — \$258,750 — (1 July 2000-30 June 2001).

Jesteadt, W. [Principal Investigator]. Research in human communication and its disorders. NIH-NIDCD — \$646,068 — (1 July 2000-30 June 2005).

Jesteadt, W. [Principal Investigator]; Neely, S. T., & Neff, D. L. [Co-Investigators]. Combinations of masking and sensorineural hearing loss. NIH-NIDCD — \$797,661 — (1 April 1997-31 March 2002).

Jung, L. K. [Principal Investigator]. Probiotics in experimental spondyloarthritis. John A. Wiebe, Jr. Grant Foundation — \$76,598 — (1 January 2001-1 January 2003).

Kahn, N. B. [Project Director]; Rich, E. C. [Project Co-Director]; & Wilson, M. [Co-Investigator]. Genetics in primary care (GPC): A faculty development initiative. Maternal & Child Health Bureau; Bureau of Health Professions of the Health Resources & Services Administration (HRSA); National Human Genome Research Institute; National Institutes of Health; & Agency for Health Care Policy & Research — (September 1998-September 2001).

Keefe, D. H. [Principal Investigator], & Gorga, M. P. [Co-Investigator]. Acoustic responses of the human cochlea and middle ear. NIH-NIDCD — \$916,771 — (1 May 1999-30 April 2004).

Kelley, P. M. [Principal Investigator]. Genetics of Usher syndrome — Core C: Technical. NIH-NIDCD — \$297,310 — (1 May 2000-30 April 2004).

Kenik, J. G. [Principal Investigator]; Casale, T. B., Hurley, J., & Romero, F. A. [Co-Investigators]. A 13-week multicenter randomized, double-blind, double-dummy, placebo-controlled parallel group trial of two doses of COX189 (200 and 400 mg. q.d.) in patients with rheumatoid arthritis using celecoxib (200 mg. bid) as a comparator. Novartis — \$24,327 — (July 2000).

Kimberling, W. J. [Principal Investigator]. Diagnosis of Usher syndrome subtypes. The Foundation Fighting Blindness — \$232,037 — (1 September 1999-31 August 2002).

Kimberling, W. J. [Principal Investigator]. Genetics of Usher syndrome — Core B: Statistical and data management. NIH-NIDCD — \$255,015 — (1 May 2000-30 April 2004).

Kimberling, W. J. [Principal Investigator]. Usher syndrome. Morris J. & Betty Kaplun Foundation, Inc. — \$4,000 — (31 July 2000).

Kimberling, W. J. [Principal Investigator]; Cohn, E. S., & Stelmachowicz, P. G. [Co-Investigators]. Genetics of Usher syndrome — Project 4: Clinical studies of Usher syndrome. NIH-NIDCD — \$1,249,206 — (1 May 2000-30 April 2004).

Kimberling, W. J. [Principal Investigator], & Kelley, P. M. [Co-Investigator]. Genetics of Usher syndrome — Core A: Administrative. NIH-NIDCD — \$117,859 — (1 May 2000-30 April 2004).

Kimberling, W. J. [Principal Investigator]; Kelley, P. M., & Kumar, S. [Co-Investigators]. Genetics of Usher syndrome — Project 1: Genetic studies of Usher syndrome. NIH-NIDCD — \$590,459 — (1 May 2000-30 April 2004).

Knezetic, J. A. [Principal Investigator]. William R. Staplin: Isolation of potential VL30 erythropoietin-responsive promoters for gene therapy. American Heart Association-Nebraska Affiliate — \$18,000 — (1 July 2000-1 July 2002).

Knight, R. [Principal Investigator]; Bleicher, J., Chakkalakal, D., & Filipi, C. J. [Co-Investigators]. Creighton University biomedical engineering (CUBE) research center. Health Future Foundation — \$250,500 — (1 July 2000-30 June 2001).

Knutson, J. [Principal Investigator], & Sullivan, P. M. [Co-Investigator]. Relational aspects of neglect and children's aggression. NIH-NIMH (Subcontract with University of Iowa) — \$330,286 — (30 September 2000-31 August 2005).

Lappe, J., Cullen, D., & Thompson, K. Efficacy of calcium and vitamin D supplementation for the prevention of stress fractures in female naval recruits. U.S. Department of Defense — \$597,638 — 2001.

Lappe, J. M. [Principal Investigator], & Recker, R. R. [Co-Investigator]. Calcium and vitamin D malnutrition in elderly women. NIH— \$478,437 — (1 August 2000-30 June 2001).

Lappe, J., Recker, R., & Hassing, J. Bone mineral density in childhood. National Institute of Child Health & Human Development — \$1,332,703 — (2001).

Lister, P. D. [Principal Investigator]. Establishing a reference library for graduate students for medical microbiology and immunology program. Ortho-McNeil — \$3,500 — (1 January 2001).

Lister, P. D. [Principal Investigator]. Molecular genetic analysis of antiflotic efflux systems in *Pseudo-monas aeruginosa*. Health Future Foundation — \$10,000 — (1 July 2000-30 June 2001).

Lister, P. D. [Principal Investigator]. Pharmacodynamics of levofloxacin-imipenem combination against pseudomonas aeruginosa in an in vitro pharmacokinetic model: Possible prevention of the selection of efflux-medicated mutants during therapy. Ortho-McNeil — \$13,620 — (1 September 2000).

Lister, P. D. [Principal Investigator]. Pharmacodynamics of MK-826 against *Streptococcus pneumoniae* in an in vitro pharmacokinetic model: Comparisons with high-dose amoxicillin, cefuroxime, and ceftriaxone. Merck & Company, Inc. — \$19,980 — (1 October 2000).

Lovas, S. [Principal Investigator]. Informatics Center for Life Sciences. NSF-EPSCoR — \$319,547 — (2001-2003).

Lynch, H. T. [Principal Investigator]. Chemoprevention for women at high risk of breast cancer. NIH — \$116,277 — (1 January 2001-31 December 2001).

Lynch, H. T. [Principal Investigator]. CIG-hereditary cancer program. State of Nebraska-LB595 — \$331,411 — (1 July 2000-30 June 2001).

Lynch, H. T. [Principal Investigator]. Prophylactic surgery in carriers of BRCA1 AND BRCA2 mutations. NIH — \$40,408 — (15 September 2000-30 August 2001).

Lynch, H. T. [Principal Investigator]. SPORE in gastrointestinal cancer. NIH — \$14,688 — (1 January 2001-31 December 2001).

Lynch, H. T. [Principal Investigator]; Casey, M. J., & Watson, P. [Co-Investigators]. Exploratory study to identify potential surrogate endpoint biomarkers in women at increased risk for developing endometrial cancer. NIH — \$104,820 — (30 September 2000-29 September 2001).

Lynch, H. T. [Principal Investigator]; Knezetic, J. A., & Watson, P. [Co-Investigators]. EDRN: The hereditary cancer clinical center. NIH — \$601,749 — (1 April 2001-31 March 2002).

Lynch, H. T. [Principal Investigator]; Knezetic, J. A., & Watson, P. [Co-Investigators]. Phenotypic and psychosocial study of the I1307K mutation. NIH — \$513,262 — (1 February 2001-31 January 2005).

Mackin, R. B. [Principal Investigator]. Specificity of propeptide converting enzymes. NIH — \$127,038 — (1 January 2001-31 December 2001).

Mailliard, J. A. [Principal Investigator]. Carboplatin paclitaxel versus carboplatin and paclitaxel combination with isis 3521 an antisense inhibitor of protein kinase C alpha in patients with advanced previously untreated non-small cell ... Pharmaceutical Research Associates, Inc. — \$ 1,000 — (1 January 2001).

Mailliard, J. A. [Principal Investigator]. Phase III study of atamestane plus toremifene in metastatic breast cancer. BioMedicines, Inc. — \$4,970 — (5 September 2000).

Mailliard, J. A. [Principal Investigator], & Lynch, H. T. [Co-Investigator]. Multicenter phase III randomized trial for stage IIIb or IV NSCLC comparing weekly taxol (paclitaxel) and carboplatin (paraplatin) regimen versus standard taxol and carboplatin administered every three weeks followed by weekly taxol. Bristol-Myers Squibb — \$2,000 — (15 August 2000).

Mailliard, J. A. [Principal Investigator], & Scott, W. [Co-Investigator]. Missouri Valley cancer consortium CCOP - Center administration. NIH — (1 August 2000-31 May 2001).

McGee, J. [Principal Investigator]. Neurobiology of the auditory system — Core B: Technical support. NIH-NIDCD — \$334,132 — (1 February 1998-31 January 2003).

McQuillan, R. J. [Principal Investigator]. A phase III randomized double-blind placebo controlled parallel group dose ranging study to evaluate the safety and efficacy of a single epidural dose of sustained released encapsulate morphine (Sky0401) in the management of post-operative/undergoing hip arthroplasty. Skye Pharma, Inc. — \$140,280.

McQuillan, R. J. [Principal Investigator]; Casale, T. B., Landmark, S. J., & Romero, F. A. [Co-Investigators]. A phase III randomized double-blind placebo controlled parallel group dose ranging study to evaluate the safety and efficacy of a single epidural dose of sustained-released encapsulated morphine (Sky0401) in management of post-operative/lower abdominal surgery. Skye Pharma, Inc. — \$140,280 — (1 April 2001).

Meares, A. J. [Principal Investigator], & Dunlay, R. W., & Frock, J. T. [Co-Investigators]. Study evaluating the initiation and titration of fixed doses of novel erythropoiesis stimulating protein (NESP) therapy in subjects with chronic renal insufficiency (CRI). Amgen, Inc. — \$3,520 — (26 July 2000).

Moeller, M. P. [Principal Investigator], & Stelmachowicz, P. G. [Co-Investigator]. Resources for infants with newly identified hearing loss. NIH-NIDCD — \$557,268 — (1 September 2000-31 August 2003).

Mohiuddin, S. M. [Principal Investigator], & Reyes, A. P. [Co-Investigator]. Four-day double-blind placebo-controlled multicenter study of IV YM087 (CI-1025) to assess efficacy and safety in patients with euvolemic or hypervolemic hyponatremia. Parke-Davis — \$1,500 — (1 September 2000).

Mohiuddin, S. M. [Principal Investigator], & Reyes, A. P. [Co-Investigator]. Pravastatin or atorvastatin evaluation and infection therapy. Bristol-Myers Squibb — \$6,845 — (1 August 2000).

Mooss, A. N. [Principal Investigator], & Del Core, Michael [Co-Investigator]. Randomized double-blind placebo-controlled study of two intravenous dosing regimens of h5g1.1-scfv in patients with acute myocardial infarction undergoing percutaneous transluminal coronary angioplasty reperfusion therapy. Procter & Gamble Company — \$200 — (1 September 2000).

Morley, B. J. [Principal Investigator]. Neurobiology of the auditory system — Project III: Cholinergic mechanisms at efferent synapses. NIH-NIDCD — \$805,807 — (1 February 1998-31 January 2003).

Morley, B. J. [Principal Investigator], & Warr, W. B. [Co-Investigator]. Neurobiology of the auditory system — Core C: Electron microscopy. NIH-NIDCD — \$688,373 — (1 February 1998-31 January 2003).

Murphy, R. F. [Principal Investigator]. Informatics Center for the Life Sciences. NSF & NIH — \$141,063 — (1 January 2001-31 December 2003).

Murphy, R. F. [Principal Investigator]. Nebraska EPSCoR cooperative agreement. NSF & NIH — \$177,076 — (1 February 2000-31 January 2001).

Murphy, R. F. [Principal Investigator]. Nebraska EPSCoR cooperative agreement. NSF & NIH — \$50,000 — (1 November 2000-31 January 2001).

Nairn, R. [Principal Investigator]. CIG-administration and planning. State of Nebraska-LB595 — \$129,277 — (1 July 2000-30 June 2001).

Neff, D. L. [Principal Investigator]. Auditory processing of uncertain stimuli. NIH-NIDCD — \$463,033 — (1 July 1996-30 June 2002).

Nittrouer, S. [Principal Investigator], & Neely, S. T. [Co-Investigator]. The ontogeny of segmental speech organization. NIH-NIDCD — \$727,114 — (1 April 1999-31 March 2004).

Penniston, J. [Principal Investigator], & Beisel, K. W. [Co-Investigator]. Role of the plasma membrane calcium pump in hearing. NIH-NIDCD (Subcontract with Mayo Clinic Rochester) — \$146,983 — (1 September 2000-31 August 2005).

Petty, F. A double-blind, parallel group, placebo controlled three-month trial to test the safety and efficacy of topiramate (topamax) in women survivors of domestic violence and/or rape trauma. Ortho-McNeil — (2001-2002).

Petty, F. Geodon for post traumatic stress disorder. Eli Lilly & Company — (2001-2002).

Petty, F. Olanzapine versus risperidone in bipolar I disorder, manic or mixed. Eli Lilly & Company — (2001-2002).

Petty, F. Risperdal (risperidone) for women with Posttraumatic stress disorder. Janssen — (2001-2002).

Petty, F. Zoloft (sertraline) for posttraumatic stress disorder. Pfizer — (2000-2001).

Petzel, D. [Principal Investigator]. Regulation of killifish opercular epithelia chloride cell ion transport by antarctic fish endocrine tissue extracts and angiotensin II. MDI Biological Laboratory — \$6,595 — (1 August 2000-1 October 2000).

Purtilo, R. B. [Principal Investigator]. European-U.S. dialogue on Alzheimer's disease: A conference to construct ethical foundations for effective and equitable palliative care approaches. Greenwall Foundation — \$9,800 — (1 June 2001-31 May 2002).

Quinn, T. [Principal Investigator], & Houtz, L. E. [Co-Investigator]. Build a human precollege project. Howard Hughes Medical Institute — \$225,000 — (1 September 1999-31 August 2003).

Recker, R. R. [Principal Investigator]. A program of molecular genetics in osteoporosis research. Health Future Foundation — \$220,427 — (1 July 2000-30 June 2002).

Recker, R. R. [Principal Investigator]. CIG-bone biology program. State of Nebraska-LB595 — \$439,312 — (1 July 2000-30 June 2001).

Recker, R. R. [Principal Investigator], & Deng, H.-W. [Co-Principal Investigator]. Bone mass inheritance — QTL mapping. Health Future Foundation; U.S. Department of Energy — \$3,000,000 — (1 July 2000-30 June 2003).

Recker, R. R. [Principal Investigator]; Deng, H.-W., Gong, G., & Johnson, M. L. [Co-Investigators]. Genetic linkage to low peak bone mass. U.S. Department of Energy — \$937,000 — (15 August 2000- 14 August 2001).

Recker, R. R. [Principal Investigator], Deng, H.-W., & Johnson, M. L. [Co-Investigators]. Genetic linkage to low peak bone mass. NIH — \$187,732 — (1 September 2000-31 August 2002).

Recker, R. R. [Principal Investigator], & Lappe, J. M. [Co-Investigator]. Double-blind placebo-controlled randomized parallel-group phase IIa study of the effects of 845704 on indices of bone turnover and bone mineral density in women with postmenopausal osteoporosis. Merck & Company, Inc. — \$30,250 — (1 December 2000).

Reidelberger, R. D. [Principal Investigator]. Research career scientist award. U.S. Department of Veterans Affairs — \$580,000 — (1 April 1999-31 March 2001).

Reidelberger, R. D. [Principal Investigator], & Hulce, M. [Co-Investigator]. Cholecystokinin mechanisms in control of food intake. NIH-NIDDK — \$532,775 — (1 May 1997-31 August 2001).

Rendell, M. S. [Principal Investigator]. Double-blind placebo-controlled parallel group comparison study to evaluate the role of the addition of amaryl to NIDDM patients not responding to maximum dose of metformin and thiazolidinedione therapy. Aventis Pharmaceuticals — \$20,000 — (1 December 2000).

Rendell, M. S. [Principal Investigator]. Effect of gynemae sylvestra added to oral hypoglycemic regimens in the treatment of patients with NIDDM. Wen-Cin Marketing — \$4,500 — (1 January 2001).

Rendell, M. S. [Principal Investigator]. Evaluation of diabetic rehinopathy progression in subjects with type 2 diabetes mellitus treated with insulin. Quintile, Inc. — \$3,000 — (33 March 2001).

Rendell, M. S. [Principal Investigator]. Omapatrilat cardiovascular treatment assessment versus enalapril (octave). Bristol-Myers Squibb — \$21,175 — (1 October 2000).

Rendell, M. S. [Principal Investigator]. Proof of concept trial on antidiabetic properties of dexlipotam in patients with type 2 diabetes mellitus. Asta Medica, Inc. — \$3,500 — (1 September 2000).

Rendell, M. S. [Principal Investigator]. Prospective randomized double-blind multi-center trial assessing the safety and efficacy of sequential (intravenous/oral) Bay12-8039 (moxifloxacin) 400 mg. every twenty-four hours compared to intravenous piperacillin/tazobactam 3.00/0.375g every six hours followed by ... Bayer Corporation — \$8,938 — (1 November 2000).

Rendell, M. S. [Principal Investigator]. Safety and efficacy of PNU-182716 versus rosiglitazone: A one-year randomized double-blind parallel group active comparator study. Pharmacia & Upjohn — \$3,000 — (1 February 2001).

Rendell, M. S. [Principal Investigator]. Safety and efficacy of the metformin/glyburide tablets to metformin plus rosiglitazone therapy in patients with type 2 diabetes mellitus who have inadequate glycemic control with metformin. Bristol-Myers Squibb — \$1,609 — (1 December 2000).

Reyes, A. [Principal Investigator]. Proposal to establish an obesity clinic at the Creighton University Cardiac Center. Hoffmann-LaRoche, Inc. — \$10,000 — (1 October 2000).

Reyes, P. [Principal Investigator]. Creighton Center for Aging Alzheimer's Disease and Neurodegenerative Disorders (CCAAND). Health Future Foundation — \$46,000 — (1 July 2000-30 June 2002).

Reyes, P. [Principal Investigator]. Research brain analysis. Veterans Administration — \$19,502 — (1 September 2000).

Rich, E. C. [Principal Investigator], & Galt, K. A. [Co-Investigator]. Center for Practice Improvement and Outcomes Research. Health Future Foundation — \$108,489 — (1 July 2000-30 June 2002).

Romero, J. R. [Principal Investigator]. Double-blind randomized placebo-controlled safety and efficacy trial of a suspension formulation of pleconaril in the treatment of viral respiratory infection in children age two to twelve years. ViroPharma, Inc. — \$19,395 — (15 October 2000).

Romero, J. R. [Principal Investigator]. Molecular characterization of the determinant of cardiovirulence in naturally occurring clinical isolates of coxsackievirus B3 obtained from children. John A. Wiebe, Jr. Grant Foundation — \$50,300 — (1 October 2000-31 October 2002).

Romero, J. R. [Principal Investigator]. Molecular epidemiology of coxsackievirus B3 in the United States: Genomic and antigenic diversity of clinical isolates from 1956-1998. John A. Wiebe, Jr. Grant Foundation — \$39,512 — (1 July 2000-30 June 2001).

Romero, J. R. [Principal Investigator]. A natural history study of neonates with enteroviral sepsis syndrome. ViroPharma, Inc. — \$1,575 — (1 September 2000).

Rosenquist, T. H. [Principle Investigator], & Brauer, P. R. [Co-Investigator]. Homocysteine and congenital heart defects. NIH-NHLBI — \$208,680 — (1 March 2000-28 February 2004).

Schaefer, B. [Principal Investigator], & Gorga, M. P. [Co-Investigator]. Maternal and child health grant. DHHS-MCH (with University of Nebraska Medical Center) — \$24,854 — (1 July 1999-30 June 2004).

Scofield, M. A. [Principal Investigator]. Cytosolic regulation of inner ear ion transport. NIH-NIDCD — \$38,608 — (1 June 1997-31 May 2001).

Scofield, M. A. [Principal Investigator]. Neurogenic regulation of cochlear blood flow. NIH — \$267,198 — (1 April 1999-30 May 2004).

Scott, S. A. [Principal Investigator]; Kincaid, A., & Reyes, P. Co-Investigators]. Role of inflammation in Alzheimer disease-related nerve cell loss. Health Future Foundation — \$10,000 — (1 July 2000- 30 June 2002).

Scott, W. J. [Principal Investigator]. Phase II trial of an early lung cancer detection. Health Future Foundation — \$103,500 — (1 July 2000-30 June 2001).

Smith, D. D. [Principal Investigator]. Purification and structural characterization of active components of the coherin extract. Intesco Laboratories, Inc. — \$45,000 — (1 January 2001).

Soukup, G. A. [Principal Investigator]. Artificial control of RNA splicing. National Science Foundation/EPSCoR — \$20,000 — (1 February 2001-31 January 2002).

Stelmachowicz, P. G. [Principal Investigator]; Keefe, D. H, Moeller, M. P. & Nittrouer, S. [Co-Investigators]. Optimizing amplification for infants and young children. NIH-NIDCD — \$1,156,655 — (30 September 1999-31 August 2004).

Swanson, P. C. [Principal Investigator]. Assembly and function of V(D)J initiation complexes. American Cancer Society — \$500,000 — (1 January 2001-31 December 2004).

Swanson, P. C. [Principal Investigator]. Investigation of a RAG-1 dominant negative effect in cell culture and animal models. Health Future Foundation — \$20,000 — (1 July 2000-30 June 2002).

Thomson, K .S. [Principal Investigator]. Development trial for Vitek2: GN10 susceptibility evaluation. bioMerieux Vitek — \$15,000 — (1 September 2000).

Thomson, K. S. [Principal Investigator]. Development trial for Vitek2: GP10 susceptibility evaluation. bioMerieux Vitek — \$15,360 — (1 January 2001).

Thomson, K. S. [Principal Investigator]; Hanson, N. D., & Moland, E. S. [Co-Investigators]. Newer beta-lactamases study: 2001. Merck & Company, Inc. — \$200,000 — (1 April 2001).

Thomson, K. S. [Principal Investigator], & Moland, E. S. [Co-Investigator]. Phase 1 studies with investigational beta-lactamase inhibitors. AlamX L.L.C. — \$11,400 — (1 February 2001-31 January 2002).

Thomson, K. S. [Principal Investigator]; Moland, E. S., & Chartrand, S. A. [Co-Investigators]. *In vitro* activity of cefditoren and other oral agents against respiratory pathogens. Tap Pharmaceuticals, Inc. — \$56,808 — (1 September 2000).

Thomson, K. S., Moland, E. S., & Chartrand, S. A. *In vitro* activity of faropenem against *Streptococcus pneumoniae*. Bayer — \$28,800.

Thomson, K. S., Moland, E. S., & Chartrand, S. A. *In vitro* activity of faropenem against well-characterized beta-lactamase-producing pathogens. Bayer — \$54,984.

Thomson, K. S. [Principal Investigator]; Moland, E. S., & Chartrand, S. A. [Co-Investigators]. *In vitro* activity of R-115685. Sankyo Company — \$171,000 — (1 January 2001).

Thomson, K. S. [Principal Investigator]; Moland, E. S., Hanson, N. D., & Chartrand, S. A. [Co-Investigators]. Investigation of *in vitro* development of quinolone resistance in gram-positive *cocci*. Daiichi Pharmaceuticals — \$45,960 — (31 October 2000).

Townley, R. G. [Principal Investigator]. Efficacy and safety of combination loratadine/montelukast q.d. versus its components in the treatment of subjects with seasonal allergic rhinitis. Schering-Plough Research Institute — \$68,200 — (1 August 2000).

Townley, R. G. [Principal Investigator]. Efficacy and safety of two formulations SCH 483 5/240 mg. compared to desloratadine 5 mg. and pseudoephedrine 240 mg. q.d. sustained release in the treatment of subjects with seasonal allergic rhinitis. Schering-Plough Research Institute — \$65,867 — (1 August 2000).

Townley, R. G. [Principal Investigator]. Screening protocol to identify subjects who exhibit difficulty in tolerating a high dose of pseudoephedrine. Schering-Plough Research Institute — \$5,400 — (1 April 2001).

Townley, R. G. [Principal Investigator]; Amin, B., Bewtra, A., Casale, T. B., Hopp, R. J., & Romero, F. A. [Co-Investigators]. Placebo controlled efficacy and safety of once daily PM and twice daily regimens of mometasone furoate administered via dry powder inhaler in subjects with asthma who were previously maintained on inhaled corticosteroids. Schering-Plough Research Institute — \$4,740 — (1 December 2000).

Townley, R. G. [Principal Investigator]; Amin, B., Bewtra, A. K., Casale, T. B., Hopp, R. J., et al. [Co-Investigators]. Efficacy and safety of combination loratadine/montelukast q.d. versus loratadine and placebo in the treatment of subjects with seasonal allergic rhinitis. Schering-Plough Research Institute — \$7,350 — (15 April 2001).

Townley, R. G. [Principal Investigator]; Bewtra, A., Casale, T. B., Hopp, R. J., et al. [Co-Investigators]. Efficacy and safety of combination loratadine/montelukast q.d. versus loratadine and placebo in the treatment of subjects with seasonal allergic rhinitis and history of perennial allergic rhinitis. Schering-Plough Research Institute — \$2,572 — (19 March 2001).

Townley, R. G. [Principal Investigator]; Bewtra, A. K., Casale, T. B., Hopp, R. J., et al. [Co-Investigators]. Combination of desloratadine 5 mg. q.d. plus pseudophedrine 120 mg. sustained release versus a combination of loratadine 10 mg. plus pseudophedrine 240 mg. q.d. sustained versus placebo in subjects. Schering-Plough Research Institute — \$4,275 — (14 May 2001).

Warr, W. B. [Principal Investigator]. Neurobiology of the auditory system — Project I: Organization of the lateral olivocochlear neurons. NIH-NIDCD — \$502,072 — (1 February 1998-31 January 2003).

Warr, W. B. [Principal Investigator], & Morley, B. J. [Co-Investigator]. Neurobiology of the auditory system — Core A: Administration. NIH-NIDCD — \$157,393 — (1 February 1998-31 January 2003).

Watson, P. [Principal Investigator]. Exact science market survey. Exact Laboratories, Inc. — \$9,019 — (5 February 2001).

Watson, P. [Principal Investigator], & Lynch, H. T. [Co-Investigator]. Screen detection of mismatch repair deficient colorectal neoplasia using stool-based DNA analysis. Exact Laboratories, Inc. — \$181,995 — (1 February 2001).

Welie, J. V. M. [Principal Investigator]. End-of-life care: A summary review of Nebraska's laws and policies. Nebraska Coalition for Compassionate Care — \$3,000 — (1 July 2000-17 August 2000).

Wilson, M. R. [Principal Investigator]; Kosoko, S., & Southerland, W. [Co-Investigators]. Health careers opportunity program (HCOP). U.S. Department of Health & Human Services — \$240,812 — (1 September 2000-31 August 2001).

Yee, J. [Principal Investigator]. Effect of dietary supplementation with (1) soy protein isolate and (2) isoflavones on spontaneous metastasis of malignant mammary carcinoma cells in mice. Protein Technologies International — \$6,095 — (1 July 2000).

School of Nursing

Howell, E. [Principal Investigator]. Moms-child health clinics project (PEACH). State of Nebraska — \$160,000 — (1 July 2000-30 June 2001).

Lappe, J. M. [Principal Investigator]. Effect of Ca⁺⁺ foods on bone quality in pubertal females. NIH — \$105,987 — (1 August 2000-31 July 2001).

Lappe, J., Cullen, D., & Thompson, K. Efficacy of calcium and vitamin D supplementation for the prevention of stress fractures in female naval recruits. U.S. Department of Defense — \$597,638 — (2001).

Lappe, J. M. [Principal Investigator]; & Recker, R. R. [Co-Investigator]. Calcium and vitamin D malnutrition in elderly women. NIH— \$478,437 — (1 August 2000-30 June 2001).

Lappe, J., Recker, R., & Hassing, J. Bone mineral density in childhood. National Institute of Child Health & Human Development — \$1,332,703 — (2001).

Lazure, L. L. [Principal Investigator]. Cardiac health and rehabilitation/ANP: A blended major. Health & Human Services — \$260,487 — (1 July-30 June 2001).

Recker, R. R. [Principal Investigator], & Lappe, J. M. [Co-Investigator]. Double-blind placebo-controlled randomized parallel-group phase IIa study of the effects of 845704 on indices of bone turnover and bone mineral density in women with postmenopausal osteoporosis. Merck & Company, Inc. — \$30,250 — (1 December 2000).

School of Pharmacy & Allied Health Professions

Bagchi, D. [Principal Investigator]. Oxygen free radical scavenging ability of astaxanthin and selected antioxidants. Cyanotech Corporations — \$10,000 — (March 2000-July 2002).

Bagchi, D. [Principal Investigator]. Prevention of cardiomyocyte apoptosis by grape seed proanthocyanidins. Dry Creek Nutrition, Inc. (A division of Gallo Winery) — \$5,000 — (March 2001-July 2002).

Bessen, R. A. [Principal Investigator]; Drescher, K., & Kincaid, A. E. [Co-Investigators]. Nebraska Center for Viral Pathogenesis: Role of glial cells in prion diseases. NIH — \$189,200 — (30 September 2000-31 August 2001).

Dash, A. K. [Principal Investigator]. Evaluation of the stability of a natural antiseptic formulation. ConAgra, Inc. — \$1,800 — (December 2000).

Dash, A. K. [Principal Investigator]. Formulation of a sustagrain chewable tablet formulation. ConAgra, Inc. — \$2,600 — (May 2001).

Dash, A. K. [Principal Investigator]. A novel drug delivery system for the targeted local delivery of doxorubicin. PMA Undergraduate Research Fellowships in Pharmaceuticals — \$5,000 — (1 January 2001-31 December 2001).

Dash, A. K. [Principal Investigator]. Quantitation of ephedrine and caffeine in dietary supplement formulations. Advocare International — \$5,000 — (2001).

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