EXECUTIVE SUMMARY

Master of Science in Epidemiology Degree

University of Colorado Denver- Anschutz Medical Campus
Colorado School of Public Health

The Colorado School of Public Health at the University of Colorado Denver proposes offering a Master of Science (M.S.) in Epidemiology degree beginning in academic year 2010-2011. This degree program will train students in the scientific foundations of epidemiology and prepare them to discover new knowledge to improve the health and well-being of the citizens of Colorado, the Rocky Mountain region and the world.

The Colorado School of Public Health (CSPH) opened in July 2008 and is the only School of Public Health in the Rocky Mountain region. The school offers both professional, practice-based degrees (M.P.H., Dr.P.H.) and academic degrees (M.S., Ph.D.), and is dedicated to training the public health workforce in Colorado and the surrounding states. The vision of the school is to inspire academicians, practitioners and students to work collaboratively to assure that all people and communities are healthy and their environments sustainable. The M.S. in Epidemiology degree is an integral part of the CSPH plan to achieve this vision and to become accredited in 2010. This proposal outlines the demand for this program and the feasibility of offering the M.S. in Epidemiology degree.

The public health system in this country is experiencing a severe shortage of trained professionals at the same time public health threats such as chronic diseases, environmental contamination and disruption, and rural and minority health disparities are increasing. Addressing this workforce shortage requires strong academic and professional education programs that will prepare students and working professionals for the ever-increasing challenges facing our public health system. Offering an M.S. in Epidemiology will address the shortage of trained professionals by providing an academic degree in a core public health discipline that is not available anywhere else in the Rocky Mountain region.

The degree programs in the CSPH are being adapted for distance education to better serve the workforce in the region. This is especially important for working professionals whose ability to travel to a campus may be limited. In an effort to extend the accessibility of CSPH programs across the region, classes are offered online, in the evenings, as intensive sessions, and in a variety of locations.

One of the core values of the CSPH is having a culture and behaviors that are ethical, inclusive, creative and sensitive to health disparities. Therefore, all of the school’s programs work to build an inclusive, culturally competent institution that trains health professionals who are knowledgeable and respectful of diversity in society and dedicated to ensuring health equity among populations.

The plans for the new Colorado School of Public Health included changing the focus of the school from a primarily research-based institution to a more balanced model which increased the educational programs component of the school. This has allowed faculty more time for teaching and the school to enroll a greater number of students. It is anticipated that tuition revenue will cover all costs of this new degree program.
PROPOSAL FOR A MASTER OF SCIENCE IN EPIDEMIOLOGY DEGREE
May 2009

Prepared for:
University of Colorado President’s Office
University of Colorado Board of Regents
Colorado Commission on Higher Education

A.1. Description of Program

The proposed Master of Science (M.S.) program in epidemiology provides graduate-level training in the causes, distribution, and control of disease in populations, with an emphasis on epidemiologic methods and training in human diseases in populations. This degree is an integral part of the new Colorado School of Public Health (CSPH) academic plan, which proposes to offer both public health practice degrees (M.P.H., Dr.P.H.) and basic science degrees (M.S., Ph.D.), and to become accredited by the Council on Education in Public Health (CEPH) in 2010. The degree provides training in the scientific foundations of epidemiology and prepares individuals to address complex public health issues. Through developing sophisticated analytic and research skills, as well as an understanding of the environmental, social and ethical factors that contribute to health and wellness in the community, scientists trained in this program will be prepared for careers in epidemiologic research, and development and evaluation of new approaches to public health surveillance, risk assessment and epidemic investigation.

Didactic course work is required in epidemiology, biostatistics, public health and ethics. Students also will have didactic training through electives in epidemiology. The culmination of this degree program is a project in the form of a thesis or peer-reviewed, publishable paper.

A.2. Program Goals

The M.S. in Epidemiology is designed to train scientists who can implement and assist with the development of epidemiologic studies that meet the rigors of the scientific community.

Students in the program will:

- Acquire in-depth knowledge of epidemiology, including theory, practice and research
- Develop the ability to analyze public health problems and develop hypotheses to address them
- Develop specific skills in study design, data analysis, biological principles underlying human diseases, and disease assessment and control in populations
• Prepare for jobs in public health organizations, academic institutions and private biomedical companies

B. Concerns to be Addressed

B.1. Bona Fide Need: Student Demand and Workforce Demand

a. Student demand

The target market for the M.S. in Epidemiology degree is students with a bachelor-level education in biology, public health, analytical sciences or other health-related field, and an interest in a research career in epidemiology. Additionally, prospective students may include professionals with degrees in medicine, veterinary medicine, nursing, and other fields. The program will recruit students who seek to develop in-depth knowledge of epidemiology and expand their skills in research, data analysis and study evaluation.

The national shortage of public health professionals is well documented in reports from the Institute of Medicine\(^1\), and the Association of Schools of Public Health (ASPH)\(^2\). It is important that Colorado train scientists to work in public health in order to retain them for the state’s public health workforce. Students that leave the state for their education often do not return after completing the degree, contributing to the shortage of trained professionals in Colorado and the Rocky Mountain region\(^3\).

The Colorado School of Public Health Initiative conducted a survey of Colorado’s public health workforce in the spring of 2007 to gather information on student interest in public health programs and their perspectives on the new school. Five percent of total respondents and 22% of respondents interested in an M.S. degree indicated an interest in personally pursuing an M.S. in Epidemiology.

Enrollment Projections

Enrollment into the Master of Science in Epidemiology program is projected to be 3-5 new students/year for the first five years. Enrollment projections are provided in Appendix A. Information about assumptions is in section 6.

Applicant Pool

The annual national pool of potential applicants is approximately 678 for the M.S. in Epidemiology degree, based on an estimate derived from 2007 application and enrollment data collected by the ASPH\(^4\). Epidemiology was the program area receiving the most applications for public health degrees (6784; 21.4% of all applications) in 2007. Approximately 10% of these applications were for a master’s degree. In addition to this national applicant pool, there were a number of local respondents to the Colorado workforce survey who indicated an interest in pursuing this M.S. degree now.

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Working Students

While the M.S. program will attract primarily traditional students, the program will allow working students flexibility in completing the program. The CSPH currently has three of the required courses online (Introduction to Epidemiology, Applied Biostatistics and Foundations of Public Health) and is planning to have several more available in academic year 2009-10. In addition, classes delivered in a condensed timeframe during the summer allow students to commit a shorter block of time to complete a course. The school as a whole is moving its professional programs to a distance format to accommodate students in the region who do not live along the Front Range. This will give working students in the M.S. in Epidemiology program more options for completing the didactic requirements off-site.

Under-represented Groups

Instituting a culture of respect for and inclusion of under-served groups, not just representation, is an underlying value of the CSPH that will enable the school to recruit and retain a diverse student body. Efforts will include promoting diversity on all faculty, staff and student selection committees, and integration of cultural competence training into all facets of the school’s programs. Through engagement of students with diverse backgrounds, we endeavor to enhance the quality of not only the Colorado School of Public Health and its programs but the larger institution and community in which we participate.

b. Workforce demand

This is a degree not currently offered in Colorado or the surrounding states and potential students in the workforce would now have the opportunity to pursue a masters-level graduate degree in epidemiology to enhance their public health credentials and skills. There is an increasing demand for individuals with this training locally, nationally, and internationally. Locally, we anticipate this program to fill a critical need for qualified staff scientists at the UC Denver Anschutz Medical Campus and within the expanding biosciences industry along the Front Range. The 2007 Colorado public health workforce survey mentioned above demonstrated a local demand for the proposed degree program and we anticipate receiving applications from the public health workforce in neighboring states that also do not have access to this degree within their universities.

B.2. Role and Mission Criteria

The M.S. in Epidemiology degree is congruent with the statutory mission statement for the University of Colorado Health Sciences Center campus (now AMC) to “offer specialized baccalaureate, first-professional, masters, and doctoral degree programs in health-related disciplines and professions.” The field of Epidemiology is the study of the health of populations, and the proposed master’s degree is specifically focused on improving the health of communities. Additionally, the proposed degree furthers the campus mission of being “affiliated with the University of Colorado Hospital and other health care facilities that offer settings for education, clinical practice, and basic and applied research.” The research projects for this new degree will be conducted in health care and public health facilities in Denver, in other parts of the region and in some cases, nationally and internationally. It is anticipated that these affiliations will benefit these health-related facilities as well as the students in the program. The proposed degree also addresses the
UC Denver role and mission of “excellence in creating, discovering and applying knowledge to improve the health and well-being of Colorado and the world.” The degree will train future members of our public health workforce to discover new ways to prevent and control disease and develop sustainable, healthy environments.

This new program is an integral part of the CSPH mission “to promote the physical, mental, social and environmental health of people and communities in the Rocky Mountain Region and globally.” An M.S. in Epidemiology prepares students to address a wide variety of health-related issues that affect many people as individuals, and therefore can be addressed on a much larger scale at the population level. The CSPH academic plan is to offer both public health practice degrees (M.P.H., Dr.P.H.) and basic science degrees (M.S., Ph.D.) to fulfill our mission, and to become accredited by the Council on Education in Public Health (CEPH). The CSPH faculty is highly qualified to teach and mentor students for these degrees based on their experience with M.S.P.H., M.S. and Ph.D. students over the past 25 years.

B.3. Duplication

This program does not duplicate any degree programs offered within the Colorado School of Public Health or at other educational institutions in the region. The M.S. degree is a research-based degree and is distinct from the M.P.H. in Epidemiology degree offered in the Colorado School of Public Health. The M.P.H. is a professional, applied science degree that prepares students to go into public health practice and implement defined programs and protocols. Course work for the M.P.H. is broad and includes training in all of the core areas of public health (biostatistics, epidemiology, community health, environmental health and health services policy); courses for the M.S. degree focus on providing in-depth knowledge of epidemiology by requiring classes in many specific areas of this discipline rather than across all public health disciplines. Furthermore, the thesis/publishable paper requirement for the M.S. is a research-based project whereas the culminating experience for the M.P.H. is a practice-based project.

A graduate with an M.S. in Epidemiology is trained in epidemiologic theory and methods appropriate for scientific investigations in populations including etiologic studies of disease causation, observational studies of factors influencing human diseases, clinical trials, or evaluation of screening tools to assess disease risk. Graduates with an MPH degree are prepared to implement public health programs in federal, state or local health departments, for community health organizations and for other similar agencies. The focus is on the practice of disease prevention and health promotion. Graduates with an M.S. degree are trained to create new knowledge through research, which is then used by public health agencies to initiate new disease prevention and health promotion programs. Careers chosen by students with an M.S. in epidemiology are most often in academics or research.

Colorado State University offers an M.S. degree in Environmental Health with a specialization in epidemiology. That program differs from the proposed M.S. in Epidemiology in both depth and scope. The CSU program is principally an environmental health program with four required, upper level epidemiology courses (10 credit hours). Available epidemiology electives are limited and not required. The proposed M.S. in Epidemiology at UC Denver requires students to take 18 credit hours in specific areas of
epidemiology and another four credits in epidemiology electives. The curriculum covers a broader range of epidemiology topics and requires more in-depth exposure to analytic and statistical methods in epidemiology. A letter of support from the Head of the Epidemiology Section in the CSU Department of Environmental and Radiological Health Sciences is attached in Appendix B.

B.4. Statutory Requirements

The M.S. in Epidemiology degree program conforms fully to statutory requirements including 23-1-125 C.R.S., the Student's Bill of Rights.

C. Program Quality and Institutional Capacity

C.1. Admission, Transfer and Graduation Standards

a. Admission standards

1. Baccalaureate degree in a scientific field from an accredited college or university, or completion of work equivalent to the baccalaureate or master's degree in a scientific field given at this university. Minimum undergraduate GPA of 3.00 on a 4.00 scale.

2. Differential calculus.

3. Two official copies of all academic transcripts.

4. Reports of Graduate Record Examination (GRE) scores taken within the last five years, or an equivalent measure of the student's preparation to enter graduate study, e.g. an earned M.S./M.A. or Ph.D.; MCAT scores; or completion of at least 12 semester hours of transferable graduate-level coursework at UC Denver.

5. Curriculum vita.

6. Four letters of recommendation from supervisors, professors or other individuals qualified to comment on past performance and the ability to perform graduate work.

7. A short essay (two-page limit) describing the applicant's background, career goals and reasons for applying to the program. Relevant experience and educational coursework are an important factor when considering applicants.

8. Foreign applicants from non-English speaking countries must also submit scores of the Test of English as a Foreign Language (TOEFL) and a financial statement demonstrating support for at least two years of study. The TOEFL requirement is waived if the foreign student completed a baccalaureate or graduate-level degree program at an English-speaking college or university. Foreign physician applicants must take the GRE.

9. The Admissions Committee may request a personal interview to complement the information provided in the application materials.

b. Transfer standards

Transfer students from other accredited graduate programs will be considered under the same criteria as a de novo admission. They will need to meet all of the same
requirements for regular admission. The criteria for accepting transfer graduate credits (maximum 12 semester hours) will include:

- The courses are recommended by the M.S. in Epidemiology program for transfer and approved by the program faculty.
- Grades of B (3.00 on a 4.00 scale) or better were obtained in the courses. No pass/fail or satisfactory/unsatisfactory grades will be accepted.
- The courses were completed within five years of the time of the student’s request for transfer.

c. Admissions Committee
The Admissions Committee for the M.S. in Epidemiology will be comprised of the Program Director, one additional faculty member within the Department of Epidemiology, one faculty member from another department within the CSPH, one community representative with knowledge of the community and private sector needs for graduates, and one representative to the CSPH student council. The program will work to constitute a committee with diverse membership. The goals are to promote a diverse student body as well as recruit and retain students from under-served groups. The committee will review and evaluate all applications in accordance with the admission standards. They will select qualified applicants and assign a graduate advisor to each enrolled student.

d. Academic probation
The GPA of students enrolled in the M.S. program must be 3.00 or above to remain in good standing. Should a student’s GPA fall below 3.00, the Graduate School will notify the student in writing that he/she is being placed on academic probation and is required to attain a cumulative GPA of 3.00 or above within the following two semesters. If the student’s GPA does not meet this standard by the end of the second semester on probation, the Program Director, CSPH Dean and Associate Dean for Education and Student Affairs will recommend to the Dean of the Graduate School that the student be dismissed from the program. Students may petition the Program Director for an extension of the probation period in the case of extenuating circumstances.

Any student who is dismissed from the Graduate School following unsuccessful academic probation may reapply for admission to the same or a different graduate program after one year and with evidence of better preparation to pursue a graduate degree.

e. Graduation requirements
Students must:
- Complete all required curriculum
- Maintain a 3.00 grade point average
- Pass a cumulative exam given after the first year of coursework
- Complete a thesis or a publishable paper
C. 2. Curriculum Description and Assessment Process

a. Curriculum description

The M.S. in Epidemiology program addresses the public health competencies of this field and will require a total of 38 semester credit hours. Average time to completion of the program is 2.5 years. The credit hours are broken down as follows:

- 18 in required epidemiology core courses
- 9 in required biostatistics courses
- 4 in epidemiology electives
- 2 in a public health core course
- 1 in research ethics
- 4 thesis credits

b. Master of Science in Epidemiology Courses

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### TOTAL CREDIT HOURS

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### c. Sample Curriculum

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**TOTAL** 21

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### TOTAL CREDIT HOURS

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### d. Assessment Plan

**Student assessment**

The student assessment plan for the Master of Science in Epidemiology degree is composed of several tools that will be used to evaluate the goals outlined in section II.A.2. Program Goals. Faculty will be encouraged to use assessment techniques and tools provided by the UC Denver Center for Faculty Development for student assessment in coursework. The student’s knowledge of his/her chosen focus area, the broader fields of epidemiology and public health, the program competencies and the development of study design and analytic skills used in epidemiology research will be assessed during individual courses and through the comprehensive exam administered at the end of the first year of didactic course work.
The ability to assess public health problems and develop successful approaches to analyzing and solving them will be assessed primarily during the research project phase of the program. Students will be required to identify a public health problem of significance to the community, develop a research hypothesis to address the problem, conduct the study, and analyze and interpret the results.

Program assessment

Program assessment of the M.S. in Epidemiology curriculum and research experience will be accomplished through student evaluations of individual courses and of the program in its entirety. Regular program review will be conducted by the CSPH curriculum committee and will include an evaluation of how well the curriculum addresses the required competencies. Student placement or advancement in professional jobs following degree completion will be tracked as a measure of program outcomes, as will the long-term success of graduates. In addition, input will be sought continuously from current students, graduates, and the public health community about new issues that should be addressed by the curriculum. These indicators of program quality, in addition to periodic assessments conducted by the Council on Education in Public Health (the accrediting body for schools of public health) will be used to modify curriculum and program delivery as necessary. All efforts and rationale for changes will be fully documented in re-accreditation reports.

Academic outcomes assessment of student learning will be conducted through multiple and varied assessments in an ongoing and systematic way across individual students, courses, and at the program level to meet the Higher Learning Commission of the North Central Association’s every ten year accreditation review.

C.3. Professional Requirements or Evaluations

a. Professional accreditation

The Colorado School of Public Health will apply to the Council on Education in Public Health (CEPH) for accreditation in 2010. CEPH is an independent agency recognized by the U.S. Department of Education to accredit schools of public health and certain public health programs offered in settings other than schools of public health. Among other criteria, the Council requires that the school demonstrate that there are adequate numbers of faculty available to support the educational programs. The instructional matrix is a component of the documentation that is supplied to this accrediting body so the classes are designed to very clearly support the public health specialization covered by the degree. There are no specific requirements or restrictions on program content, mode of delivery or length of the program.

b. Timetable for completion

Students will have two years to pass the cumulative exam and must complete the thesis or publishable paper and public defense of the project within five years of entering the program. An extension for reason of one year may be granted by the Dean of the Graduate School upon the request of the Program Director. The average program completion time is 2.5 years.
c. Program faculty

The faculty of the Department of Epidemiology within the CSPH will have primary responsibility for program delivery. All of the teaching faculty have graduate-level teaching experience and graduate degrees (primarily terminal degrees) in their field of expertise. The faculty are nationally and internationally recognized educators, researchers and public health practitioners who are currently teaching or practicing in public health-related fields. Teaching faculty vitae are compiled in Appendix E.

Affiliated faculty listed below include clinical faculty and those with primary or secondary appointments from departments within the CSPH and other schools at the Anschutz Medical Campus that may either be involved in teaching or mentoring students in the M.S. program. Vitae of primary faculty are attached.

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<td>Barnette, J. Jackson, Ph.D.*</td>
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<td>Baron, Anna, Ph.D.*</td>
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Epidemiology

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<td>Assi</td>
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</tr>
<tr>
<td>Hamman, Richard, MD, Dr.P.H.*</td>
<td>Dean, Professor</td>
<td>CSPH</td>
</tr>
<tr>
<td>Hokanson, John, Ph.D.*</td>
<td>Assoc Prof (Dept Head)</td>
<td>CSPH</td>
</tr>
<tr>
<td>Marshall, Julie, Ph.D.*</td>
<td>Professor</td>
<td>CSPH</td>
</tr>
<tr>
<td>Morrato, Elaine, Dr.P.H.</td>
<td>Assistant Professor</td>
<td>CSPH</td>
</tr>
<tr>
<td>Norris, Jill, Ph.D*</td>
<td>Professor</td>
<td>CSPH</td>
</tr>
<tr>
<td>Orton, Heather</td>
<td>Instructor</td>
<td>CSPH</td>
</tr>
<tr>
<td>Sontag, Marci, Ph.D.*</td>
<td>Assistant Professor</td>
<td>CSPH</td>
</tr>
</tbody>
</table>

Affiliated

| Al-Tayyib, Alia | Assist Prof/ Rsch Scientist | CSPH/DPH |
| Hedegaard, Holly | Assist Clin Prof/ Mgr. EMS | CSPH/CDPHE |
| Hoffman, Richard | Assoc Professor | CSPH/private consultant |
| Miller, Lisa, MD, M.S.PH | Assist Professor | CSPH/CDPHE |

* May serve as a primary research advisor
Abbreviations:
CDPHE  Colorado Department of Public Health and the Environment
CSPH  Colorado School of Public Health
DPH  Denver Public Health

C.4. Institutional Factors

a. Achieving diversity goals

The Inclusion, Diversity and Health Equity mission of the Colorado School of Public Health is to build a diverse and representative academic community which recognizes the importance of social and economic justice in relation to health. In partnership with the non-academic community, the CSPH will contribute effectively to the achievement of health equity, leading to the elimination of health disparities. The CSPH will work to build an inclusive, culturally competent institution which includes the environment, policies and procedures, faculty, staff, leadership and student body. The CSPH will work to build an institution that trains culturally competent and sensitive health professionals who are knowledgeable and respectful of diversity in society and dedicated to ensuring health equity among all people. In pursuing this competence it will dedicate itself to engaging communities in a dialogue of mutual and reciprocal learning.

b. Effect of the program on other institutional programs and campuses

Epidemiology is important to many disciplines on the Anschutz Medical Campus including dentistry, medicine, nursing, and pharmacy. Expanding awareness of epidemiology as a scientific discipline within these professions will increase recognition of this field as an important component of biomedical education. Several degree programs at the AMC currently require CSPH epidemiology courses including the Clinical Sciences Ph.D. and the M.P.H. program. It is anticipated that interaction between the professional programs at AMC, academic programs at both AMC and the Downtown campus, and the M.S. in Epidemiology program will enhance the breadth and depth of all programs incorporating this discipline. Graduates of the M.S. in Epidemiology program will become researchers and collaborators for UC Denver’s academic institutions.

It is possible that the M.S. in Epidemiology program may compete for a small number of students that apply to the existing M.P.H. in Epidemiology concentration. However, due to the substantial difference in the focus of the two degree programs (research vs. practice) they are more likely to draw from different applicant pools. In addition, given the current differential in enrollment projections between the two programs (the M.P.H. will enroll approximately ten times the number of students as the M.S.) the impact on this M.P.H. concentration will be minimal. The new M.S. is not expected to compete with the CSU M.S. in Environmental Health (epidemiology specialization) since the latter degree is focused on environmental health and does not provide the same level of epidemiology training.

The M.S. in Epidemiology is expected to be an avenue of entry into the Ph.D. in Epidemiology program at UC Denver. After one year of study in the M.S. program, and at the discretion of the Program Director, qualified students can decide to pursue the Ph.D. to attain a higher level of competence in the field. Since all of the students’ M.S. coursework is applicable to the Ph.D. degree, the transition is streamlined and no time to
the Ph.D. degree is added by making the choice later. This would be attractive to prospective students who are not certain the Ph.D. is their goal and want the option of moving to the higher-level degree after one year of study in the M.S. program. This approach also gives the Program Director one year to evaluate the potential of the student to be successful in the Ph.D. program and it is anticipated this will have a positive effect on the quality of students in the Ph.D. program.

c. Effect of the program on existing resources

Upon opening in July 2008, the Colorado School of Public Health implemented a five-year plan which ensures the capacity to provide new academic programs as outlined in the school’s original request for approval. The school replaced a grant-based financial model with a tuition-based plan that provides support for teaching and mentoring and allows for expansion of the educational programs. Faculty are compensated for teaching and advising students and can now devote more time to the educational programs of the school. Thus far, the plan has proven viable with an incoming class of students that will be roughly 1.5 times the size of incoming classes prior to the school’s opening. There will be no new course development specifically for this small number of M.S. in Epidemiology students. New courses offered by the school would be developed to meet degree requirements for multiple CSPH degrees. The cost of advising has been projected and budgeted in Appendix C and a letter from the CSPH Dean attesting to the adequacy of resources for this new program is attached in Appendix B.

d. Formal relationships with institutions

The CSPH, which houses the Department of Epidemiology, is a collaborative school with formal agreements with Colorado State University and the University of Northern Colorado. CSU courses in epidemiology are available to students at UC Denver through this collaboration as well as access to their faculty for guidance. Although the M.S. in Epidemiology would not be a collaborative program with CSU at the outset, there may be opportunities in the future to enhance the program and create efficiencies by formalizing this relationship. UNC does not offer advanced training in epidemiology so the degree would not be a collaborative endeavor with that institution.

The M.S. in Epidemiology program will be governed by the rules and policies of the Graduate School at the University of Colorado Denver.

C.5. Physical Capacity and Needs

The CSPH is located on the UC Denver Anschutz Medical Campus on the third floor of Building 500. This space allocation is approximately 20,000+ square feet. The implementation of the M.S. in Epidemiology program should have minimal impact on existing physical resources such as library holdings, facilities and computers. Office space is not required for these students and the impact on classrooms is small since current class sizes can accommodate the 3-5 new students per year without creating additional sections. Appendix D details space requirements.

Office space

Office space is not required for these students.
Classroom Space

Classrooms, lecture halls, small group learning rooms and computer laboratories for educational programs are located in the education buildings (RC1, EDI, ED II) on the Anschutz Medical Campus. Planning for these facilities included CSPH program expansion space for graduate students as well as a computer laboratory.

C.6. Cost Description and Source of Funds

The M.S. in Epidemiology program is self-supporting with tuition revenue from students in the program. There are no other sources of revenue. The projections are based on the number of students enrolled each year, the number of credit hours taken in each year of the program, and student residency status.

Revenue

The following assumptions were made for the revenue projections:

New student enrollment

- Projected to be three in year one of the program, four in year two, and five thereafter

Residency

- 85% of new enrollees are Colorado residents
- 15% are out-of-state students. Out-of-state students become residents in the second year of their program

Average time to program completion

- 2.5 years

Projected student credit hours

- 21 in year one
- 15 in year two
- 2 in year three
- Total credit hours required for graduation is 38

Tuition

- $325/SCH for Colorado residents
- $875/SCH for non-residents

Expenses

Program expenses include faculty advising time and administrative support. Teaching time associated with incorporating these students into existing classes was extremely small and did not contribute to the cost of the program.
Expenses associated with faculty advising time were calculated using the following assumptions:

**Thesis advising**
- Begins in year two of a student’s program and all faculty compensation for the students is provided in this program year. Advising compensation is calculated by determining the ratio of faculty advising time to the total faculty time. This is approximately 5% faculty time per student.

**Program administration**
- Expenses associated with program administration include an education coordinator at 10% FTE, and an education assistant at 15% FTE in years 1-3 and 25% FTE in years thereafter.

The cost description and source of funds are detailed in Appendix D.

C.7. Other Relevant Information

C.8. Reviewers Comments

The external reviewer’s comments are in Appendix F. In response to the suggestions to clarify a number of points in the proposal, the following changes were made:

- It is clarified in the proposal that no new courses must be developed to offer the M.S. in Epidemiology degree.
- More information on the differences between the M.P.H in Epidemiology degree and the M.S. in Epidemiology degree was added including the differences in course work, culminating experiences and career paths.
- The statement that student recruitment into the M.S. program would not significantly impact recruitment into the M.P.H. program is better justified in the proposal.
- The student admissions standard requiring differential calculus was not removed although this was suggested by the reviewer. The two required biostatistics courses for the M.S. program are based on knowledge of differential calculus so this standard cannot be changed.
- The reviewer’s suggestion that the Admissions Committee for the M.S. not include a community representative because it would not be a productive use of his/her time was not included in the proposal. The Colorado School of Public Health has experience including multiple members of our diverse community on the M.P.H. Admissions Committee with substantial success. Not only do they contribute their different non-academic and community perspectives but their suggestions for program integration with real-world public health needs have been invaluable.
- The faculty members that will serve as primary research advisors and thesis committee chairs are clarified.
• Additional information on the collaborative relationships between the CSPH partner institutions in relation to this new degree is provided.

Appendices
Appendix A: Enrollment Projection Table
Appendix B: Letters of Support
Appendix C: Projected New Expenses and Revenue for New Program
Appendix D: Physical Capacity Estimates
Appendix E: Teaching Faculty Vitae
Appendix F: External Reviewer's Comments
Appendix A: ENROLLMENT PROJECTIONS

Name of Program: Master of Science in Epidemiology

Name of Institution: Colorado School of Public Health

<table>
<thead>
<tr>
<th></th>
<th>Yr 1</th>
<th>Yr 2</th>
<th>Yr 3</th>
<th>Yr 4</th>
<th>Yr 5</th>
<th>Full Implementation</th>
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<td>1- a</td>
<td>In-state Headcount</td>
<td>2.5</td>
<td>6.4</td>
<td>9.7</td>
<td>11.2</td>
<td>11.7</td>
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<tr>
<td>1- b</td>
<td>Out-of-State Headcount</td>
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<td>0.6</td>
<td>0.8</td>
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<tr>
<td>2</td>
<td>Program Headcount</td>
<td>3.0</td>
<td>7.0</td>
<td>10.5</td>
<td>12.0</td>
<td>12.5</td>
</tr>
<tr>
<td>3- a</td>
<td>In-state FTE</td>
<td>1.8</td>
<td>3.9</td>
<td>5.1</td>
<td>5.6</td>
<td>5.6</td>
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<tr>
<td>3- b</td>
<td>Out-of-State FTE</td>
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<td>0.4</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>4</td>
<td>Program FTE</td>
<td>2.1</td>
<td>4.3</td>
<td>5.6</td>
<td>6.1</td>
<td>6.1</td>
</tr>
<tr>
<td>5</td>
<td>Program Graduates</td>
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<td>0.0</td>
<td>3.0</td>
<td>4.0</td>
<td>5.0</td>
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</table>

See Section 6 of the proposal, Cost Description and Source of Funds, for the assumptions used in these calculations.

Jonathan Lurie, UC Denver Director, Office of Policy & Fiscal Analysis

Signature of Governing Board Information Officer

Date
Appendix B: LETTERS OF SUPPORT
Appendix C: PROJECTED NEW EXPENSES AND REVENUE FOR NEW PROGRAM

I. Expenses

<table>
<thead>
<tr>
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<th>ESTIMATED AMOUNT in DOLLARS</th>
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<tr>
<td></td>
<td>YEAR 1</td>
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<tr>
<td><strong>Operating Expenses</strong></td>
<td></td>
</tr>
<tr>
<td>1 Faculty</td>
<td>$ -</td>
</tr>
<tr>
<td>2 Financial Aid specific to program</td>
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</tr>
<tr>
<td>3 Instructional Materials</td>
<td>$ 450</td>
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<tr>
<td>4 Program Administration</td>
<td>$ 13,539</td>
</tr>
<tr>
<td>5 Rent/Lease</td>
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</tr>
<tr>
<td>6 Laboratory &amp; Other Operating Costs</td>
<td>$0</td>
</tr>
<tr>
<td>7 Total Operating Expenses</td>
<td>$ 13,989</td>
</tr>
<tr>
<td><strong>Program Start-Up Expenses</strong></td>
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</tr>
<tr>
<td>8 Capital construction</td>
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</tr>
<tr>
<td>9 Equipment Acquisitions</td>
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</tr>
<tr>
<td>10 Library Acquisitions</td>
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<tr>
<td>11 Total Program Start-Up Exp.</td>
<td>$0</td>
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<tr>
<td><strong>TOTAL PROGRAM EXPENSES</strong></td>
<td>$ 13,989</td>
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</table>

1 Per the directions, costs have not been inflated for any of the years subsequent to year 1.
II. Revenue

<table>
<thead>
<tr>
<th></th>
<th>ESTIMATED AMOUNT in DOLLARS</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>YEAR 1</td>
<td>YEAR 2</td>
<td>YEAR 3</td>
<td>YEAR 4</td>
</tr>
<tr>
<td>Tuition Revenue</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1 Resident Students</td>
<td>$17,388</td>
<td>$37,830</td>
<td>$49,465</td>
<td>$54,665</td>
<td>$54,990</td>
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<tr>
<td>2 Non-resident Students</td>
<td>$8,313</td>
<td>$11,025</td>
<td>$13,825</td>
<td>$13,825</td>
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<tr>
<td>3 Total</td>
<td>$25,700</td>
<td>$48,855</td>
<td>$63,290</td>
<td>$68,490</td>
<td>$68,815</td>
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<tr>
<td>4 Net</td>
<td>$11,711</td>
<td>$12,413</td>
<td>$19,047</td>
<td>$12,708</td>
<td>$13,033</td>
</tr>
</tbody>
</table>

Revenue has not been inflated for any of the years subsequent to year 1.

II. See proposal Section 6, Cost Description and Source of Funds, for the assumptions used in the cost and revenue calculations.

No new cash revenue will be generated by this new program.

The new program costs will be covered completely by tuition from the students enrolled in the M.S. in Epidemiology program.

III. Dean’s Statement

Please see Appendix B for the Dean’s statement verifying the adequacy of resources to support the new program.
Appendix D: PHYSICAL CAPACITY ESTIMATES

Name of Program: Master of Science in Epidemiology

Name of Institution: Colorado School of Public Health

Purpose: This table documents the physical capacity of the institution to offer the program and/or the plan for achieving the capacity. Complete A or B.

Part A

I certify that this proposed degree program can be fully implemented and accommodate the enrollment projections provided in this proposal without requiring additional space or renovating existing space during the first five years.

____________________ _______________________________ __________
Governing Board Capital Construction Officer Date

Part B

Table 2. Space, renovation and constructions requirements for the MS in Epidemiology degree program.

<table>
<thead>
<tr>
<th>ASSIGNABLE SQUARE FEET</th>
<th>TOTAL NEEDED</th>
<th>AVAILABLE</th>
<th>RENOVATION</th>
<th>NEW CONSTRUCTION</th>
<th>LEASE/RENT</th>
<th>REVENUE SOURCE*</th>
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<tbody>
<tr>
<td>TYPE OF SPACE</td>
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<td></td>
<td>Immed</td>
<td>Future</td>
<td>Immed</td>
<td>Future</td>
</tr>
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<td>Classroom</td>
<td>0 new</td>
<td>existing</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tr>
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<td>Instructional Lab</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>Special/General Use</td>
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<td>Other:</td>
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<td>TOTAL</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

* Capital Construction Fund (CCF), Research Building Revolving Fund (RBRF), Gift (GIFT), Grant (GR), Auxiliary Fund (AUX)
Attach a narrative describing the institutional contingency plan that addresses the space requirements of the proposed program or alternative delivery options, in the event that the request for capital construction or renovation is not approved.

Not applicable.

Roderick Nairn, Ph.D., UC Denver Provost
And Vice Chancellor for Academic and Student Affairs

Governing Board Capital Construction Officer
Appendix E: FACULTY VITAE
**BIOGRAPHICAL SKETCH**

**NAME**
Al-Tayyib, Alia A

**POSITION TITLE**
Assistant Research Scientist

---

**EDUCATION/TRAINING**

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>College of William &amp; Mary, Williamsburg, VA</td>
<td>BA</td>
<td>1997</td>
<td>Psychology</td>
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<tr>
<td>University of North Carolina, Chapel Hill, NC</td>
<td>MSPH</td>
<td>2004</td>
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<tr>
<td>University of North Carolina, Chapel Hill, NC</td>
<td>PhD</td>
<td>2007</td>
<td>Epidemiology</td>
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**Positions and Honors.**


2007 to date  Assistant Research Scientist, Denver Public Health, Denver, CO

2008 to date  Assistant Professor, Department of Epidemiology, Colorado School of Public Health, Denver, CO

---

**Other Experience and Professional Memberships**

2002 to date  Member, American Sexually Transmitted Diseases Association

2002 to 2006  Graduate Research Assistant, Schools of Medicine and Public Health, University of North Carolina, Chapel Hill, NC

2004 to 2007  Graduate Teaching Assistant, Schools of Medicine and Public Health, University of North Carolina, Chapel Hill, NC


2006  Intern, Department of HIV/AIDS, World Health Organization, Geneva, Switzerland

---

**Peer-reviewed publications**


Al-Tayyib AA, McFarlane M, Kachur R, Rietmeijer CA. Finding partners on the Internet: What is the risk for sexually transmitted infections? (Sexually Transmitted Infections 2008 Dec 19 [Epub ahead of print])


Research Support

Active
Agency: American Sexually Transmitted Diseases Association
Effective Dates: 07/01/08 – 07/31/10
Principal Investigator: Alia Al-Tayyib
Title: Detecting Chlamydial and Gonococcal Infection using Respondent Driven Sampling
Description: This developmental award supports the adaptation and evaluation of respondent driven sampling as a programmatic approach to enhance existing screening activities for chlamydial and gonococcal infections with a focus on its potential public health utility.
Role: Principal Investigator

Completed
Agency: NIH/NIAID 5 T32 A107001-28
Effective Dates: 08/01/05 – 05/31/07
Principal Investigator: P. Fredrick Sparling
Title: Training in Sexually Transmitted Diseases and AIDS
Description: Supports comprehensive training in STD/HIV.
Role: Pre-doctoral trainee
BIOGRAPHICAL SKETCH

NAME: J. Jackson Barnette

POSITION TITLE: Professor and Associate Dean for Education and Student Affairs

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Ohio State University, Columbus, Ohio</td>
<td>BS</td>
<td>1966</td>
<td>Chemistry/ psychology</td>
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<tr>
<td>Ohio State University, Columbus, Ohio</td>
<td>MA</td>
<td>1968</td>
<td>Higher education administration</td>
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<tr>
<td>Ohio State University, Columbus, Ohio</td>
<td>PhD</td>
<td>1972</td>
<td>Education research, development and evaluation</td>
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</table>

Positions and Honors

1973-78 Assistant Professor of Educational Psychology, Pennsylvania State University, State College, Pennsylvania

1973-74 Assistant Director, Center for Cooperative Research with Schools (CReWS)

1974-77 Director, Center for Cooperative Research with Schools

1977-78 Associate Director, Center for Education Research and Evaluation

Summer 1978 Visiting Assistant Professor, Western Michigan University, Kalamazoo, Michigan

1978-85 Assistant and Associate Professor of Educational Research and Evaluation, University of Virginia, Charlottesville, Virginia

1989-90 Visiting Professor, University of Mississippi, University, Mississippi

1985-90 Associate Professor of Educational Foundations, Memphis State University, Memphis, Tennessee

1990-1997 Professor of Educational Research, University of Alabama, Birmingham, Alabama

1998-2004 Associate Professor, Community and Behavioral Health, University of Iowa, Iowa City, Iowa

1999-2004 Associate Dean for Education and Student Affairs

Director of Master in Public Health Degree Programs

Director of Summer Institute

2001-2004 Director, Center for Public Health Program Evaluation

2004 – 2008 Professor of Biostatistics, University of Alabama, Birmingham, Alabama

Senior Associate Dean for Academic Affairs

Director, MSPH in Clinical Research in Biostatistics,

2008 – Present Professor, Department of Biostatistics and Informatics, Associate Dean for Education and Student Affairs, University of Colorado Denver, Denver, CO

Honors

1983 American Evaluation Association, President's Prize

1984 Phi Delta Kappa Service Award, University of Virginia

1995 Outstanding Commitment to Teaching Award, University of Alabama National Alumni Association (the highest teaching award at the University)

2000-2001 Fellow, Committee on Institutional Cooperation Academic Leadership Program,


2004 Special Service Award, College of Public Health, University of Iowa

2004 Joy Goodwin Lecturer (invited), College of Veterinary Medicine, Auburn University
Selected peer-reviewed publications


**Research Support**

*Completed*

CDC 2004-2005
South Central Center for Public Health Preparedness
Role: Advising on education evaluation methods, public health worker certification, and University-based student preparedness education

SAMHSA (Skinstad) 4/1/02-3/31/07
Prairielands Addiction Technology Transfer Center
Role: Co-investigator

CDC/NIOSH (Sprince) 7/1/03-6/30/08
Heartland Center for Occupational Health and Safety
Role: Center evaluator

HRSA (Atchison) 10/1/01-9/30/06
Upper Midwest Public Health Training Center
Role: Co-investigator and evaluator

NIH-Center for Complementary and Alternative Medicine
Role: University of Iowa PI, evaluator
**BIOGRAPHICAL SKETCH**

<table>
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<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anna E. Barón</td>
<td>Professor of Biostatistics and Informatics</td>
</tr>
</tbody>
</table>

**EDUCATION/TRAINING**

<table>
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<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<td>Rice University, Houston, TX</td>
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<td>1977</td>
<td>Mathematical Science</td>
</tr>
<tr>
<td>University of Texas, Houston, TX</td>
<td>MS</td>
<td>1980</td>
<td>Biometry</td>
</tr>
<tr>
<td>University of Texas, Houston, TX</td>
<td>PhD</td>
<td>1984</td>
<td>Biometry</td>
</tr>
<tr>
<td>University of Colorado, Denver, CO</td>
<td>Fellowship</td>
<td>1986-87</td>
<td>Psychiatric epidemiology</td>
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</table>

**Positions and Honors**

1977-1978 Graduate Assistant, Biometry Discipline, University of Texas School of Public Health, Houston, Texas.

1978 Research Assistant, Hypertension Detection and Follow-Up Program, University of Texas School of Public Health, Houston, Texas.

1979 Statistician, Summer Internship, The National Center for Health Services Research, Hyattsville, Maryland.

1980-1984 Senior Research Assistant, National Heart and Blood Vessel Research and Demonstration Center, Baylor College of Medicine, Houston, Texas.

1983 Biostatistics Instructor, University of Texas School of Allied Health Sciences, Houston, Texas

1984-1992 Assistant Professor of Biometrics, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado

1987-1996 Adjunct Assistant Professor and Biostatistician, National Center for American Indian and Alaska Native Mental Health Research, Department of Psychiatry, School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado

1989-1990 Visiting Biostatistician, Epidemiology Unit, Centro di Riferimento Oncologico (CRO); Aviano (PN), Italy (also May 1992; May 1994 and June 1995)

1992-2004 Associate Professor of Biometrics, with tenure, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado

1996-1997 Acting Head, Section of Biometrics and Biometrics Graduate Program, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, Colorado

1996-1997 Acting Director, Biometrics Graduate Program, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, Colorado

1997-2002 Head, Section of Biometrics, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, Colorado

2002-2006 Head, Section of Biometrics and Informatics, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, Colorado

2004-2008 Professor of Biometrics, with tenure, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado

June-July 2006 Visiting Faculty, Rice University Summer Institute of Statistics, Houston Texas

Sept-Nov 2006 Visiting Scientist, International Agency for Research on Cancer, Lyon France

2008-present Professor of Biometrics, with tenure, Department of Biostatistics and Informatics, Colorado School of Public Health, University of Colorado Denver, Aurora, Colorado

**Honors**

1973-1977 Robert H. Ray Memorial Scholarship, Rice University, Houston, Texas

1986-1987 Ford Foundation Minority Postdoctoral Fellowship
Selected peer-reviewed publications (from over 120)


Research Support

Active

NICHID (Schenkman) 04/11/03-12//31/09
Exercise, Physical Function, and Parkinson’s Disease
Role: Biostatistician

NCI ( Barón) 5/1/01-4/30/13
UC Cancer Center Lung SPORE Biostatistics Core
Role: Core Director since 5/01

NIDDK (Norris) 7/01/97 - 3/31/12
Nutritional Etiology of Prediabetic Autoimmunity
Role: Biostatistician

Completed

NIAAA (Novins) 09/15/02 - 9/14/05
Alcohol Health Disparities in Two Indian Populations
Role: Biostatistician

NCI (Eckhardt) 8/1/2004-2/28/2005
Overcoming Age-Related Barriers to Early Clinical Trials  
Role: Biostatistician  
NCI (Bearman) 9/2000-08/2005  
Clinical Research in Stem Cell Transplantation  
Role: Biostatistician  
NCI (Drabkin) 09/01/03-08/31/06  
Quantitative HOX Expression as a Prognostic Marker in AML  
Role: Biostatistician  
NCI (Franklin) 10/1/2004-9/30/2007  
Early Detection Research Network: Biomarkers Development Laboratory  
Role: Biostatistician  
NCI (Crane) 10/1/03-9/30/2007  
Skin Cancer Prevention in a Pediatric Population  
Role: Biostatistician
BIOGRAPHICAL SKETCH

NAME
Emily K. Burns

POSITION TITLE
Instructor

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Notre Dame, Notre Dame, IN</td>
<td>BA</td>
<td>1997</td>
<td>Psychology</td>
</tr>
<tr>
<td>University of Colorado, Denver, CO</td>
<td>MD</td>
<td>2002</td>
<td>Medicine</td>
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<tr>
<td>University of Colorado, Denver, CO</td>
<td>Residency</td>
<td>2003-04</td>
<td>Physical med and rehabilitation</td>
</tr>
<tr>
<td>University of Colorado, Denver, CO</td>
<td>Residency</td>
<td>2004-06</td>
<td>Preventive medicine</td>
</tr>
<tr>
<td>University of Colorado, Denver, CO</td>
<td>MSPH</td>
<td>2006</td>
<td>Public health</td>
</tr>
</tbody>
</table>

Positions and Honors

Jun 2007-present  Instructor, Tobacco Program Evaluation Group, Colorado School of Public Health, University of Colorado Denver, Aurora, CO

Aug 2006-Jun 2007  Senior Professional Research Assistant, Tobacco Program Evaluation Group, University of Colorado at Denver & Health Sciences Center, Aurora, CO

2006  Tobacco Policy consultant, American Cancer Society National Governmental Relations Department, Washington D.C.

Honors

2007-present  National Institutes of Health, Health Disparities Loan Repayment Program Award

2002  Willard A. Smith Scholarship (Awarded for scholarship and promise in medicine at the end of medical school)

2001  Alpha Omega Alpha (top 5 in medical school class were chosen based on academic and extracurricular performance)

1997  Phi Beta Kappa

1993-1997  Joyce Scholarship (full academic scholarship to the University of Notre Dame)

Selected peer-reviewed publications


Willett, J, Hood, N, Burns, E, Swetlick, J, Wilson, S, Lang, D, Levinson, A. Clinical Fax Referrals to Tobacco Quit Line: Reach, Enrollment, and Participant Characteristics. American Journal of Preventive Medicine, in press.


Burns, E, Levinson, A. Survey mode effects in smoking status assessment. Paper accepted at the RC33 7th Conference on Social Science Methodology, Naples, Italy, September 2008, not able to attend due to funding limitations.


Research Support

Active

Ohio Quits Evaluation (Levinson) 06/07-06/08
Ohio Tobacco Prevention Foundation
Goals: Assist in design and implementation, and provide evaluation of a novel comprehensive tobacco cessation program.
Role: Co-investigator

Tobacco Program Evaluation Group (Levinson) renewed July 2007-June 2010
Colorado Department of Public Health and Environment
Goals: Provide comprehensive and focused program evaluation of and research on the Colorado State Tobacco Education & Prevention Partnership.
Role: Co-investigator
BIOGRAPHICAL SKETCH

NAME
Byers, Tim E

POSITION TITLE
Professor

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Ripon College, Ripon WI</td>
<td>B.A.</td>
<td>1969</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Indiana University School of Medicine, Indianapolis, IN</td>
<td>M.D.</td>
<td>1973</td>
<td>Medicine</td>
</tr>
<tr>
<td>University of Michigan, Ann Arbor, MI</td>
<td>M.P.H.</td>
<td>1980</td>
<td>Public Health</td>
</tr>
</tbody>
</table>

Positions and Employment

1974-1976  General Medical Officer, Indian Health Service Hospital, Schurz, NV
1976-1977  Physician, Indian Community Clinic, Tacoma, WA
1977-1979  Physician, Sound Health (HMO), Tacoma, WA
1981-1987  Assistant, Associate Professor, Dept. Social and Preventive Medicine, SUNY, Buffalo, NY
1987-1989  Medical Epidemiologist, New Mexico Department of Health, Santa Fe, NM
1989-1995  Branch Chief, Division of Nutrition, Centers for Disease Control, Atlanta, GA
1995-pres  Professor, Department of Preventive Medicine and Biometrics, University of Colorado Program Leader, University of Colorado Comprehensive Cancer Center
1999-pres  Associate Director, University of Colorado Comprehensive Cancer Center
2000-2005  Member, National Cancer Policy Board (IOM)
2002-2005  Vice Chair, Department of Preventive Medicine and Biometrics, UCHSC
2003-pres  David F and Margaret Turley Grohne Chair in Cancer Prevention and Control
2003-pres  Member, American Cancer Society National Board of Directors.
2005-pres  Deputy Director, University of Colorado Comprehensive Cancer Center

Selected peer-reviewed publications (from over 280 since 1982)

Byers T, Costanza M, Kattlives H. Screening mammography - when should it stop?” Cancer Practice 1997;5:52-54.


Research Support

Active

NHI/NCI (Bunn) 02/05-03/10
P30 CA 46934
University of Colorado Cancer Center Support Grant
The Cancer Center Core Grant provides support for cancer research.
Role: Deputy Director.

American Cancer Society (DiGuiseppi) 7/00-7/09
PTAPM-105242
Training grant for Preventive Medicine Residency
The goal of this training grant is to prepare Preventive Medicine Board-eligible physicians to work in the field of cancer control.
Role: Primary Mentor.

NHI/NCI (Byers, Schwartz) 09/03-08/09
P20 CA103680
Colorado Program in Aging and Cancer
The purpose of this program is to foster inter-disciplinary and inter-institutional research in cancer and aging in Colorado and the Rocky Mountain Region to develop a new program in the Cancer Center.
Role: Principal Investigator

NHI/NCI (Bunn) 04/03-03/09
P50 CA058187
Specialized Program of Research Excellence in Lung Cancer
The purpose of this SPORE is to translate novel biomarkers of lung cancer risk to clinical studies of cancer risk and chemoprevention.
Role: Co-Investigator

NIH 07/05-06/10
Patient Navigator Research Project
The purpose of this project is to develop and test for efficacy, cost-effectiveness and dissemination, and an exportable and highly innovative patient navigator program across the full spectrum of patient navigation for breast and prostate cancer patients.
Role: Principal Investigator of the DH subcontract

ACS
Understanding and improving breast cancer survivorship in Latinas 7/06-6/09
The purpose of this project is to assess outcomes after breast cancer treatment for Hispanic as compared to Anglo women in Colorado (now named the SUNSHINE Study).
Role: Principal investigator

NIH (NCI) (Espinoza)
Front Range Community Network 5/05-4/10
The purpose of this project is to develop a network of community-based organizations across the Colorado Front Range to address health disparities and applied research issues for Hispanics regarding cancer prevention and control.
Role: Co-investigator
CDPHE Tobacco Tax funds (Byers)  
Colorado Colorectal Screening Program 01/06-06/11
This is a long-range project to provide endoscopic screening services to Coloradans without health insurance via the Colorado Community Clinic networks.
Role: PI

Completed

Oncomethylome Sciences (Byers) 1/03-12/08
Genetic hypermethylation and lung cancer risk
The purpose of this study is to conduct a nested case-control study of genetic hypermethylation in sputum as an early indicator of lung cancer risk. This is being conducted in collaboration with the SPORE and investigators in other universities.
Role: Principal investigator

Susan G. Komen Cancer Foundation 07/05-06/08
Cancer Rehabilitation for Low Income and Hispanic Breast Cancer Patients
The purpose of the this project is to conduct a large, multi-center trial to test the effectiveness of a comprehensive cancer rehabilitation program to reduce morbidity and improve the quality of life in low income and Hispanic breast cancer survivors.
Role: Principal Investigator

NIH (NCI, RO1) (Byers) 08/01-07/05
5 RO1 CA88007
Insulin Resistance and Adenomas of the Colorectum (IRAsC)
This interactive RO1 grant assessed the relationship between insulin sensitivity and colon adenomas.
Role: Principal Investigator

CDC 10/01-09/05
475/CCU810672
CONCORD Study
Dr. Byers collaborated with the Colorado Cancer Registry in this study in concert with other cancer registries in US and Europe to assess the quality of cancer registry data.

NIH (NCI, P20) (Byers) 09/02-07/05
P20 CA091398
Partnership to Increase Hispanic Cancer Research in Colorado
This was a collaborative project to increase cancer research at Colorado State University at Pueblo through collaborative projects with the University of Colorado Cancer Center.
Role: Principal Investigator

NIH/NICHHD (Daneshgari) 07/02-06/07
R01 HD041162
Population Based Multi-Ethnic Study of Pelvic Disorders
The purpose of this project is to supplement measures made in the SHINE breast cancer study to assess risk factors for urinary disorders in Colorado.
Role: Co-Investigator
BIOGRAPHICAL SKETCH

NAME
Nichole E. Carlson

POSITION TITLE
Assistant Professor

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
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<tbody>
<tr>
<td>University of Minnesota, Minneapolis, MN</td>
<td>B.S.</td>
<td>1996</td>
<td>Math &amp; Statistics</td>
</tr>
<tr>
<td>University of Michigan, Ann Arbor, MI</td>
<td>M.S.</td>
<td>1999</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>University of Michigan, Ann Arbor, MI</td>
<td>Ph.D.</td>
<td>2003</td>
<td>Biostatistics</td>
</tr>
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</table>

Positions and Honors

1997 Research Assistant, Department of Biostatistics, University of Michigan, Ann Arbor, Michigan
1998-2003 Research Assistant, Department of Biostatistics, University of Michigan, Ann Arbor, Michigan
2003-2007 Assistant Professor, Department of Public Health and Preventive Medicine-Division of Biostatistics, Oregon Health and Science University, Portland, Oregon
2003-2007 GCRC/OCTRi Biostatistician, Oregon Health and Science University, Portland, Oregon
2006-2007 Oregon Alzheimer's Disease Center Data Core leader, Oregon Health and Science University, Portland, Oregon
2007-present Assistant Professor, Department of Biostatistics and Informatics, Colorado School of Public Health, University of Colorado Denver, Denver, Colorado

Honors

Rackham Pre-doctoral Fellow, Rackham Graduate School, University of Michigan, May 2002- May 2003
Chairman’s award for excellence in teaching, Department of Public Health and Preventive Medicine, May 2007

Selected peer-reviewed publications


22. **Carlson NE**, Moore MM; Dame A; Howieson D; Silbert LE; Quinn, JF; Kaye JA (2008) Trajectories of brain atrophy associated with benign or pathologic brain aging *Neurology* 70(11):828-833.


**Research Support**

*Active*

H133A060038 (Harrison-Felix) 10/1/06-9/30/11

46
National Data and Statistics Center for the Traumatic Brain Injury Model Systems
The goal of the center is to provide data and statistical support for the 15 centers that are collecting data and performing research as part of the TBI Model systems program.
Role: Director Statistics and Methods Core

Completed
R03 (Edelman, A-PI) 10/01/06-9/30/08
NIH
Contraceptive efficacy and body weight: does obesity affect the risk of failure?
The goal of this research is to understand the biological mechanism that results in higher OC failure rates in the obese. In particular, we are studying the pulsatility of the reproductive hormones in obese women. The statistical issues involve fitting and comparing pulsatile hormones between groups of subjects.
Role: Co-Investigator

1 U54RR024140-01 (Orwoll) 9/29/06-7/31/11
NIH/NCRR
Oregon Health and Science University’s Oregon Clinical and Translational Research Institute – Biostatistics and Design Program. The major goal of the center is to provide assist clinical and translational investigators in the design, implementation and analysis of clinical studies.
Role: Biostatistician

R21DK062797 (Samuels) 6/30/04-6/30/07
NIH/NIDDK
Neurocognitive effects of subclinical thyroid disease
The major goals of this project are to understand cognitive and mood differences in women with thyroid disease. The statistical aspects of this proposal included repeated measures.
Role: Co-investigator

P30AG008017 (Kaye) 4/1/05-3/31/10
NIH/NIA
Oregon Alzheimer’s Disease Center
The major goals of the center is to provide clinical care to Alzheimer’s patients and to support research related to cognitive impairment. I directed the core and provided biostatistical support in the design and analysis of the longitudinal data collected at the center.
Role: PI-Biostatistics and Data Core

P60-DK20572 (Herman) 12/1/02-11/30/05
NIH/NIDDK
Michigan Diabetes Research and Training Center -- Biostatistics Core
The director of biostatistics core Morton B Brown was my supervisor. My primary role was to collaborate on research related to diabetes and endocrinology. As part of these collaborations I developed Bayesian approaches to modeling associations between hormones, which involved linear and non-linear hierarchical modeling and development of Markov chain Monte Carlo estimation algorithms.
Role: Graduate Student Research Assistant under the supervision of the DRTC biostatistician

5 M01 RR00042 (Wiley) 12/01/00-11/30/05
NIH/NCRR
Michigan General Clinical Research Center -- Biostatistics Core. The director of biostatistics core Morton B Brown was my supervisor. As part of my work I collaborated with investigators studying hormone data. As with the Diabetes Center, as part of these collaborations I developed Bayesian approaches to modeling associations between hormones.
Role: Graduate Student Research Assistant under the supervision of the GCRC biostatistician
### BIOGRAPHICAL SKETCH

**NAME**  
Dana Dabelea, MD, PhD  
**POSITION TITLE**  
Associate Professor

#### EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of Medicine Timisoara, Romania</td>
<td>M.D.</td>
<td>1984-1990</td>
<td>Medicine</td>
</tr>
<tr>
<td>University of Medicine Timisoara, Romania</td>
<td>Residency</td>
<td>1991-1994</td>
<td>Internal Medicine</td>
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<tr>
<td>University of Medicine Timisoara, Romania</td>
<td>Ph.D.</td>
<td>1992-1997</td>
<td>Clinical Sciences</td>
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<tr>
<td>University of Medicine Timisoara, Romania</td>
<td>Residency</td>
<td>1994-1997</td>
<td>Diabetes &amp; Metabolic Diseases</td>
</tr>
<tr>
<td>NIDDK, Phoenix, AZ</td>
<td>Fellowship</td>
<td>1997-1999</td>
<td>Diabetes Epidemiology</td>
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#### Positions and Honors

<table>
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<tr>
<th>Year</th>
<th>Position and Institution</th>
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<tr>
<td>1991-1994</td>
<td>Instructor, Department of Diabetes, University of Medicine, Timisoara, Romania</td>
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<tr>
<td>1994-2001</td>
<td>Assistant Professor, Department of Diabetes, University of Medicine, Timisoara, Romania</td>
</tr>
<tr>
<td>1997-1999</td>
<td>Postdoctoral Fellow, Diabetes Epidemiology, National Institutes of Health, Phoenix, AZ</td>
</tr>
<tr>
<td>2001-2006</td>
<td>Assistant Professor, Dept. Preventive Medicine &amp; Biometrics, University of Colorado Denver</td>
</tr>
<tr>
<td>2006-present</td>
<td>Associate Professor, Dept. Epidemiology, School of Public Health, University of Colorado Denver</td>
</tr>
<tr>
<td>2006-present</td>
<td>Director Epidemiology Doctoral Program, University of Colorado Denver</td>
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<td>2008-present</td>
<td>Tenure Award, University of Colorado Denver</td>
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#### Honors and National Leadership

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<th>Year</th>
<th>Award</th>
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<tr>
<td>1999</td>
<td>NIH Fellows Award for Research Excellence-Epidemiology/Biostatistics competition 1999</td>
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<td>2000</td>
<td>Romanian Society of Atherosclerosis and Lipidology Award</td>
</tr>
<tr>
<td>2001</td>
<td>Romanian Diabetes Association Scientific Award</td>
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<tr>
<td>2002-2004</td>
<td>Core Member, “Early Origins of Adult Health” working group for the National Children's Study</td>
</tr>
<tr>
<td>2004-2007</td>
<td>Member, Program Committee of the ADA Council on Epidemiology and Statistics</td>
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<tr>
<td>2005-current</td>
<td>Vice-Chair, SEARCH for Diabetes in Youth Study</td>
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#### Selected Peer Reviewed Publications

(from over 50)


Guy J, Ogden L, Wadwa RP, Hamman RF, Mayer-Davis EJ, Liese AD, D'Agostino R Jr, Marcovina S, **Dabelea D**. Lipid and Lipoprotein Profiles in Youth with and Without Type 1 Diabetes: The SEARCH Case-Control Study. *Diabetes Care*, 2008 Epub ahead of print


West NA, Hamman RF, Mayer-Davis EJ, D'Agostino RB Jr, Marcovina SM, Liese AD, Zeitler PS, Daniels SR, **Dabelea D**. Cardio-Vascular Risk Factors among Youth with and Without Type 2 Diabetes. *Diabetes Care* 2008 Epub ahead of print


Vehik K, Hamman RF, Lezotte D, Norris JM, Klingensmith GJ, Rewers M, Dabelea D. Trends in High-Risk HLA Susceptibility Genes Among Colorado Youth with Type 1 Diabetes. Diabetes Care, 2008; 31: 1392-6

Snell-Bergeon JK, Dabelea D, Ogden LG, Hokanson JE, Kinney GL, Ehrlich J, Rewers M. Reproductive History and Hormonal Birth Control Use are Associated with Coronary Calcium Progression in Women with Type 1 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2008; 93: 2142-8


Barnes, M, Curran-Everett D, Hamman RF, Maahs D, Mayer-Davis EJ, D’Agostino RB Jr., West N, Dabelea D. Determinants of Adiponectin Levels in Youth with Type 1 Diabetes, Diabetic Medicine, 2008; 25: 365-369.


Dabelea D. The Predisposition to Obesity and Diabetes in Offspring of Diabetic Mothers. Diabetes Care 2007; 30 (supplement 2) : S149-174


49
Study. Incidence of Diabetes in Youth in the US: The SEARCH for Diabetes in Youth Study. JAMA 2007; 297: 2714-2724


Research Support

Active

1 U01 DP000247 (Dabelea) 9/14/00-6/30/010

CDC: SEARCH for Diabetes in Youth2, Colorado Center
This study is one of six centers designated by CDC to set-up a national registry of childhood diabetes.
Role: Principal Investigator

R01 DK059184 (Dabelea) 9/30/02 - 7/31/09

NIDDK: Defining Diabetes in Youth (DDY)-no cost extension
This study adds controls to the SEARCH for Diabetes in Youth grant in Colorado and South Carolina, to explore etiologic risk factors for childhood Type 2 diabetes, along with cardiovascular risk factors.
Role: Principal Investigator

R01 DK068001 (Dabelea) 9/14/05 - 6/30/10

NIDDK: Exploring the Fetal Origins Hypothesis in Diverse Youth
This study aims: 1) to explore in parallel the long-term consequences of two fetal exposures on childhood obesity phenotypes and 2) to assess potential mechanisms responsible for these effects.
Role: Principal Investigator

Contract No. HHSN275200800018C (Dabelea) 9/26-2008-9/25/2013

National Children’s Study
Role: Study Center Principal Investigator

RO1 U01-DK048375 (Hamman) 08/20/94-01/31/10

NIDDK: Diabetes Prevention Program Outcomes Study (DPPOS)
The DPPOS is a long-term follow-up of the Diabetes Prevention Program to determine the duration of prevention of diabetes, cardiovascular disease among persons originally randomized to DPP
Role: Co-Investigator

RO1 1R01 DK077131 (Liese) 1/15/2007 - 12/31/2009

NIDDK: Spatial epidemiology of diabetes in the SEARCH for Diabetes in Youth Study
This ancillary study to SEARCH aims to (1) describe and map the spatial distribution of incident pediatric diabetes; (2) evaluate the association of diabetes incidence with geographic and neighborhood characteristics.
Role: PI of subcontract

R01DK077949 (Mayer-Davis) 1/1/2008-12/31/2011

NIDDK: SEARCH Nutrition Ancillary Study (SNAS)
The overall goal of the SEARCH Nutrition Ancillary Study (SNAS) is to examine associations of nutritional factors with 1) the progression of insulin secretion defects, and 2) the presence of CVD risk factors in youth with T1DM. These two aspects of the metabolic status of youth with T1DM are key determinants of long-term risk for serious complications of DM.
Role: PI of subcontract
SEARCH Monogenic Diabetes in Youth
Role: PI of subcontract

R01 DK077659 (Lawlor) 9/30/06-8/31/10
NIDDK: Maternal overnutrition and offspring fat mass, metabolic and vascular function
This project will study the effects of maternal obesity, weight gain and diet during pregnancy on offspring fat mass, fat distribution, vascular and metabolic function. This will be done in a large, population-based cohort of children recruited before birth and followed up to the present day, the Avon Longitudinal Study of Parents and Children (ALSPAC).
Role: Consultant
BIOGRAPHICAL SKETCH

NAME
Carolyn G. DiGuiseppi, MD, MPH, PhD

POSITION TITLE
Professor of Epidemiology; Residency Program Dir

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of Virginia, Charlottesville, VA</td>
<td>BA</td>
<td>1979</td>
<td>Biol, Psych, Envi Sci</td>
</tr>
<tr>
<td>University of Virginia, Charlottesville, VA</td>
<td>MD</td>
<td>1983</td>
<td>Medicine</td>
</tr>
<tr>
<td>Children’s Orthopedic Hosp Med Ctr, Seattle, WA</td>
<td>Residency</td>
<td>1983-6</td>
<td>Pediatrics</td>
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<tr>
<td>University of Washington, Seattle, WA</td>
<td>Residency</td>
<td>1986-8</td>
<td>Preventive Medicine</td>
</tr>
<tr>
<td>University of Washington, Seattle, WA</td>
<td>Fellowship</td>
<td>1986-8</td>
<td>Maternal &amp; Child Health</td>
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<tr>
<td>University of Washington, Seattle, WA</td>
<td>MPH</td>
<td>1988</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>Univ. College London, U of London, London, UK</td>
<td>PhD</td>
<td>2002</td>
<td>Epidemiology</td>
</tr>
</tbody>
</table>

Positions and Honors

1987 – 1988 Research Associate, Harborview Injury Prevention and Research Center, Seattle, WA
1988 – 1991 Assistant Professor of Pediatrics, Children’s National Medical Center, Washington, DC
1996 – 2000 Senior Research Fellow, Department of Paediatric Epidemiology and Biostatistics, Institute of Child Health, University College London, London, UK
2000 – 2008 Associate Professor of Preventive Medicine and Biometrics, University of Colorado at Denver and Health Sciences Center, Denver, CO
2001 — Director, Preventive Medicine Residency Training Program, UCD, Denver, CO
2008 — Professor of Epidemiology and Community & Behavioral Health, Colorado School of Public Health, University of Colorado Denver (UCD), Denver, CO

Other Relevant Experience

1999 – 2000 Member, Injuries Health Improvem’t Program, Camden & Islington Health Authority, London, UK
2000 — Co-Editor, Cochrane Injuries Review Group, Cochrane Collaboration
2000 — Editorial Board, Archives of Pediatrics and Adolescent Medicine
2002 – Associate Director for Research, Colorado Injury Control Research Center
2003 – 2007 Member, National Center for Injury Prevention and Control Initial Review Group (Federal Advisory Committee), Centers for Disease Control and Prevention
2007 — Chair, Structural Deficiencies Workgroup, Healthy Housing Expert Panel, National Center for Environmental Health, CDC, and National Center for Healthy Housing

Honors

1994 Special Recognition Award (Individual), U.S. Public Health Service
1995 Special Recognition Award (Group), U.S. Public Health Service
1996 Unit Commendation, Public Health Branch Grant Review Team, HRSA
2003 Excellence in Teaching Award, Dept. of Prev. Medicine & Biometrics, UCD School of Medicine

Peer-reviewed publications


Cooper S, Lezotte D, Jacobellis J, DiGuiseppi C. Does availability of mental health resources prevent


Research Support

**Active**

HHSN275200800018C PI: Dabelea D 10/1/08-9/30/13
NIH/National Institute of Child Health and Human Development
National Children’s Study Douglas County, CO
Goal: The goal of the National Children’s Study is to investigate how genetic and environmental factors influence childhood health and disease. This project will recruit and enroll subjects and collect information and genetic, biological and environmental samples from women and children in Douglas County, CO.
Role: Evaluator (evaluate project activities in relation to project goals and objectives)

R49/CCR811509 PI: DiGuiseppi C 8/1/09-7/31/12
CDC/National Center for Injury Prevention and Control
Evaluating Population-Based Approaches to Suicide Prevention through Systematic Reviews
Goal: This project will systematically review and summarize evidence regarding selected population-based approaches to suicide prevention.
Role: Principal Investigator

R49/CCR811509 PI: DiGuiseppi C 8/1/07-7/31/12
CDC/National Center for Injury Prevention and Control
Marketing Fall Prevention Classes to Older Adults in Faith-Based Congregations: Cluster RCT
Goal: This project will evaluate the effect of a social marketing program implemented in churches and other faith-based congregations to increase participation in exercise classes for fall prevention among older adults.
Role: Principal Investigator

R49/CCR811509  PI: Stallones L  9/30/01-7/31/12
CDC/National Center for Injury Prevention and Control/Colorado Injury Control Research Center (CICRC)
Injury Prevention Activities at UCD, Colorado Injury Control Research Center
Goal: The CICRC aims to reduce the occurrence and severity of injuries in the Rocky Mountain Region through community-based partnerships.
Role: UCDHSC Subcontract PI & Associate Director for Research

PAR04-083  PI: Stallones L  3/1/07-2/28/12
Fogarty International Collaborative Trauma & Injury Research Training
USA-China Agricultural Injury Research Training Project
Goal: This project aims to provide training in agricultural injury research methods to Chinese scholars through short courses offered in China and mentored training in the United States.
Role: Co-Investigator/Core Faculty (teach systematic review and other injury research methods)

U90/CCU816827  PI: Miller L and Robinson C  10/01/05-3/31/08
Centers for Disease Control and Prevention
Colorado Center of Excellence for Autism and Other Developmental Disabilities Epidemiology
Goal: To implement a population-based multi-center study of risk factors for autism spectrum disorders (ASD); to describe the epidemiology of ASD in a multi-center population.
Role: Co-Investigator (Chair, Study Methods Work Group; study design, data analysis, report writing)

Completed (in the past 3 years)

AUCD RTOI 2005-1/2-07  PI: Robinson C  10/1/05-6/30/08
Association of University Centers on Disabilities
Prevalence of Autism Spectrum Disorder in Children with Down Syndrome
Goal: To examine prevalence & characteristics of autism spectrum disorders in children with Down Syndrome
Role: Co-Investigator (Study design, data analysis and interpretation)

COLHH0123  PI: Litt J & DiGuiseppi C  9/30/04-3/31/08
Housing and Urban Development
Study of Immigrant Housing Conditions in Commerce City, Colorado
Goal: This project characterized environmental and safety hazards in the housing of recent Hispanic immigrants living in an industrialized urban area.
Role: Co-Principal Investigator

R49/CE000679  PI: Van Bramer L  8/30/05-11/29/07
CDC/NCIPC
Evaluating New Tools to Link Prehospital and Hospital Injury Surveillance Data (New Investigator Award)
Goal: This project developed and evaluated new methods for linking pre-hospital databases to trauma registries and data from follow-up care.
Role: Co-Primary Mentor / Co-Investigator

U17/CCU823429  PI: Thoreson, S  10/1/03-9/30/07
Centers for Disease Control and Prevention
Community-Based Interventions to Reduce Motor Vehicle-related Injuries
Goal: To develop and evaluate two community-based interventions to reduce motor vehicle-related injuries.
Role: Epidemiologist (project development and implementation, data analysis, interpretation, report writing).
Prevention of Alcohol-Impaired Driving: Register Of Controlled Trials

Goal: This project developed a register of controlled evaluation studies of measures to prevent alcohol- and drug-impaired driving, to facilitate the conduct of systematic reviews and policy and program development.

Role: Principal Investigator
BIOGRAPHICAL SKETCH

NAME: Diane L Fairclough
POSITION TITLE: Professor

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucknell University</td>
<td>B.S.</td>
<td>1973</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Virginia Polytechnic Institute</td>
<td>M.S.</td>
<td>1975</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>University of North Carolina</td>
<td>M.S.P.H.</td>
<td>1980</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>University of North Carolina</td>
<td>Dr.P.H.</td>
<td>1984</td>
<td>Biostatistics</td>
</tr>
</tbody>
</table>

Positions and Honors

1973-1976 Graduate Teaching and Research Assistant/ Biochemistry Research Technician, Department of Biochemistry, Virginia Polytechnic Institute, Blacksburg, VA.
1979-1984 Graduate Research Assistant. Biostatistics, University of North Carolina, Chapel Hill, NC.
1985-1992 Assistant Member/Associate Member (1992), Department of Biostatistics, St. Jude Children's Research Hospital, Memphis, TN.
1993-1996 Faculty Lecturer, Division of Biostatistics, Dana-Farber Cancer Institute, Boston, MA, and Department of Biostatistics, Harvard School of Public Health.
1996-2001 Scientist/Senior Scientist, Center for Research Methodology & Biometrics, AMC Cancer Research Center, Denver, CO.
2002- Present Professor, Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver. (Visiting Professor during 2002)

Other Experience and Professional Memberships

1988-1992 Assistant Professor, Department of Biostatistics and Epidemiology, University of Tennessee, Memphis, TN.
1996-2001 Associate Professor Adjoint, Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver.
1998-2000 Executive Committee, American Statistical Association-Section on Statistical Consulting (CNSL)
1999-2000 Scientific Program Committee Chair, 2000 International Society for Quality of Life Research (ISOQOL)
2000 FDA QOL subcommittee of the Oncology Drug Advisory Committee (ODAC)
2000-2006 Associate Editor, Quality of Life Research.
2003-2005 Editorial Board, Clinical Trials

Honors

1984 Biometrics Society Student Paper Award. The effects of assumptions about covariance structure on WLS analysis of incomplete longitudinal data.
1998 Clinical/Affiliated Faculty Award Department of Preventive Medicine, UCHSC

Selected Peer-reviewed publications (159 total)


Fairclough DL. Quality of life in cancer clinical trials: Now that we have the data, what do we do? JASS 1996; 4(4)253-269.


Research Support

Active

1 R01 MH077770-01A2 (Szigethy) 3/1/2008 - 2/28/2013
NIMH
Reducing DepressiveSymptoms in Physically III Youth
To conduct a randomized trial to compare a newly developed CBT approach with narrative, social skills, and family educational components to supportive, non-directive therapy in youth with IBD & clinically-significant depression at three time points.
Role: Biostatistician

1 DP2 OD001210-01 NIH Director’s Innovators Award (Szigethy) 9/28/2007 - 9/27/2012
NIMH
Understanding & Treating Neuropsychiatric Symptoms of Pediatric Physical Illness
To examine brain regions that underlie emotional and cognitive processing in youth with active IBD and depression using brain functional magnetic resonance imaging compared to youth with IBD and no depression, and normal controls.
Role: Biostatistician

1 R01 HL088198-01 (Blair) 04/01/2008 – 03/31/2011
NIH/NHLBI
The Association between Providers’ Ethnic/Racial Biases and Hypertension Control
The major goals of this project are to measure healthcare providers’ implicit and explicit biases toward African Americans and Latinos, and examine the degree to which those biases are associated with ethnic/racial disparities in hypertensive patients’ perceptions, disease management and health outcomes.
Role: Investigator/Biostatistician

1K07CA108565-01A2 (Parry) 04/01/2006 – 03/31/2011
The National Cancer Institute
Quality of Life and Service Needs of Adult Leukemia and Lymphoma Survivors
To assess the quality of life and ongoing service needs of adult leukemia and lymphoma survivors and design an intervention based on this data. The project will focus on re-entry issues from a lifespan developmental perspective.
Role: Mentor/Biostatistician

R01 CA108752-01A2 (Schultz) 08/25/2006 – 06/30/2011
NIH
Transplantation of G-CSF Stimulated Marrow vs Blood
The goal of this research is perform a phase III trial comparing G-CSF stimulated bone marrow versus peripheral blood as a donor source for HLA-identical related donor BMT in a multi-institutional trial. We will evaluate the impact of the two donor sources on the biological of chronic GVHD, health economics and QOL.
Role: Biostatistician for QOL component

U01 RFA-CA-05-019 (Raich) 07/01/2005–06/30/2010
NCI
Improving Patient Outcomes Through System Navigation
The goal of this program is to develop and conduct a patient navigation program from the point of an abnormal screening test to treatment for breast, colorectal, or prostate cancer.
Role: Biostatistician
AHRQ

*The effect of incident comorbidities on guideline-concordant chronic disease care*

The objective of this investigation is to assess the initial and ongoing effects of new onset depression, treatable cancer, and exacerbations of pulmonary disease on guideline-concordant care for the diabetes over a 6-year time period. Based on our findings, we will propose specific adaptations to existing diabetes care guidelines that will be amenable to further investigation. We will also identify a subgroup of patients at risk for poor health outcomes who may benefit from such adapted guidelines.

Role: Investigator/Biostatistician

RCA131875A (Pentz) 7/1/08 to 6/30/10

NCI/ NINR

*Family Decision Making in Pediatric Bone Marrow Transplant*

The goal of this project is to develop a grounded theory of how families make the dual decisions for one child to undergo a bone marrow transplant and a sibling to be the donor.

Role: Co-Investigator/Biostatistician

5 R01 CA098217-03 (Gerhardt) 07/01/2005–06/30/2010

NIH/NCI

*Sibling and Parent Bereavement from Childhood Cancer*

The proposed research will be a systematic evaluation of siblings and parents of children who have recently died from cancer. Results will begin to identify subgroups at risk for psychosocial difficulties (e.g. Adolescents) and mechanism for maladjustment (e.g. stressful life events).

Role: Investigator/Biostatistician

SB-35832-N (Sills) 07/01/2007–06/30/2009

American Lung Association Social Behavioral Research Grant

*The Association between Emergency Department Resources and Pediatric Asthma-Related Quality Indicators*

This proposal seeks to improve quality-of-care for children treated in the emergency department (ED) for acute asthma exacerbations. Through enhancing our understanding of change-amenable, systems-level factors associated with variations in quality of pediatric asthma care in an ED setting, we propose to effect timely, quality-based improvements in the way EDs deliver acute asthma care.

Role: Biostatistician

1 R01 HS016418-01A1 (Sills) 06/01/2007–05/31/2009

Agency for Healthcare Research and Quality

*Emergency Department overcrowding and quality of acute asthma care for children*

This project seeks to develop and test pediatric quality measures for children treated in the emergency department for asthma. Through developing these measures in an electronic medical record system, the investigators lay the groundwork for monitoring and improving the quality of care for acute pediatric asthma exacerbations through use of health information technology.

Role: Biostatistician

Completed

RSGPB-03-098-01-PBP (Vannatta) 07/01/2003–06/30/2008

ACS

*Psychosocial Outcomes Of Pediatric Brain Tumor Survivors*

School aged (8-15 years) children who have completed treatment for BT at one of four pediatric oncology centers will be identified. For each of these children, a comparison peer of the same race, gender, and age (COMP) will be recruited from their class at school. Identical data will be obtained for all participants from multiple sources in classrooms (teacher, peer, self-report) and homes (mother, father, and child-report) to allow tests of group differences in social, emotional, behavioral, and family functioning. Analyses will examine group differences as well as test models about the mechanisms that mediate differences in child and parent outcomes.

Role: Co-Investigator/Biostatistician/Director of Data Management
Riggs Family/ Emergency Medicine Foundation Health Policy Research Grant
Emergency Department Overcrowding and Quality of Acute Asthma Care for Children with Acute Long-Bone Fractures
The study models the association between emergency department overcrowding and several process and outcome measures of pediatric acute asthma care quality.
Role: Biostatistician

RO1 (Sahler) 09/19/2003–08/31/2007
NIH/NCI
Problem-Solving Training in Childhood Cancer
Investigate the efficacy of problem-solving skills training of newly diagnosed children with cancer for mothers with three intervention arms: Time and Attention Control, Standard Maternal Problem-Solving Training and Maternal Problem-Solving Training supplemented with PDA.
Role: Co-Investigator/Biostatistician/Director of Data Management

1 R21 CA115311-01 (Kutner) 09/12/2005–09/12/2007
National Cancer Institute (NCI)
Use of Health Information Technology (HIT) to Improve Symptom Management in Advanced Cancer
The objective of this multisite study is to evaluate the feasibility of use of health information technology (telephony and internet) for improving symptom management for persons with advanced cancer receiving care in the home hospice setting.
Role: Biostatistician

HHSA290200500371 (Steiner, PI) 09/10/2005–06/30/2006
Agency for Healthcare Research and Quality
Medical management of congestive heart failure and the effectiveness of isosorbide dinitrate and hydralazine. (DEcIDE Network Task order #1)
The goal of this project was to assess the impact of isosorbide dinitrate and hydralazine on hospitalization and death in VA patients.
Role: Biostatistician

1R01 AT1006-01A2 (Kutner) 05/01/2003–04/31/2006
NIH NCCAM
Efficacy of Massage Therapy at the End of Life
The goal of this application is to evaluate the efficacy of massage therapy for alleviation of symptom distress and improvement of quality of life for patients with advanced cancer. This will be a multi-site randomized clinical trial comparing massage therapy plus usual hospice care with a control group receiving "sham" massage therapy plus usual hospice care. The study will be conducted in a community-based hospice/palliative care research network.
Role: Co-Investigator/Biostatistician
BIOGRAPHICAL SKETCH

NAME
Tasha E. Fingerlin

POSITION TITLE
Assistant Professor

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE (if applicable)</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>Concordia College, Seward, Nebraska</td>
<td>BS</td>
<td>1997</td>
<td>Secondary Education (Mathematics &amp; Biology)</td>
</tr>
<tr>
<td>University of Michigan, Ann Arbor, Michigan</td>
<td>MS</td>
<td>1999</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>University of Michigan, Ann Arbor, Michigan</td>
<td>PhD</td>
<td>2003</td>
<td>Epidemiology</td>
</tr>
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</table>

Positions and Honors

1997-1998  Graduate Student Instructor, Department of Biostatistics, University of Michigan
1998-2003  Graduate Research Assistant, Department of Biostatistics, University of Michigan
2004-2008  Assistant Professor, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado at Denver and Health Sciences Center
2008-present Assistant Professor, Department of Epidemiology, Colorado School of Public Health, University of Colorado Denver (Dept. of Preventive Medicine and Biometrics became the CSPH in 2008)

Honors and Awards

1993-1997  Board of Regents Full Tuition Scholarship, Concordia College, Seward, Nebraska
1997      Outstanding Student Teacher Award, Concordia College, Seward, Nebraska
1999-2002  National Institutes of Health Genome Science Pre-Doctoral Traineeship

Selected peer-reviewed publications


NAME
Tasha E. Fingerlin

POSITION TITLE
Assistant Professor


**Research Support**

**Active**

**IRAS family study,** R01-HL61019 (PI: J.M. Norris)

1/05 - 12/09
NIH-NHLBI

The major goal of this project is to identify 1) the genetic and environmental determinants of insulin sensitivity, and visceral adiposity; and 2) the extent to which insulin sensitivity, and visceral obesity share genetic and environmental influences.

**Shared Genetic Susceptibility in CBD and Sarcoidosis,** 1 R21 HL081766-01A2 (PI: L. A. Maier)

7/07 - 01/09
NIEHS

The purpose of this project is to use genome-wide association techniques to identify genetic susceptibility variants that predispose to chronic beryllium disease and sarcoidosis. Dr. Fingerlin co-directs the design phases and directs the statistical analyses of these genetic studies.

**Electrophysiology of Sensory Gating in Schizophrenia,** R01 MH38321-22 (P.I. R. M. Freedman)

10/1/06-06/30/09
NIMH

The purpose of this project is to identify the appropriate molecular and neurobiological targets for intervention into sensory gating disturbance, a persistent neurocognitive feature of schizophrenia. Dr. Fingerlin directs the statistical design and analyses of the linkage disequilibrium mapping portion of the project.

**Genomic Signatures for Idiopathic Interstitial Pneumonia,** R01-HL095393

9/24/08-7/31/12
NHLBI

The overarching goal of this project is to combine genetic and genomic findings from patients with idiopathic interstitial pneumonia (IIP) to develop and validate phenotypically anchored molecular signatures that serve to refine the diagnostic criteria for this group of complex diseases. Dr. Fingerlin directs the genetic epidemiology portion of the study.
Beryllium: Exposure, Immune and Genetic Mechanisms  
1 P01 ES011810-01 (P.I. L. Newman)  
08/01/02-07/31/07  
NIEHS  
Core C  
The major goals of this project are to determine the interaction of beryllium exposure variables and genetic factors leading to immune reactivity to beryllium and to CBD.  
Role:  Co-PI

Effects of vitamin D genes on measures of insulin secretion, insulin sensitivity and adiposity  
ADA  7-04-RA-83 (P.I. J.M. Norris)  
7/04-6/06  
American Diabetes Association  
The purpose of this study is to examine the association between the vitamin D-related genes, such as vitamin D receptor, Cyp1alpha, and vitamin D binding protein and insulin secretion, insulin sensitivity and adiposity, and how this association may be modified by physical activity in Hispanic-American and African-American Families in the IRAS Family Study.  
Role:  Co-I

Structure and Function of TSP1 in Acute Lung Injury  
RO1 HL071618-01A2 (P.I. J.P. Maloney)  
2/05-1/10  
NHLBI  
The purpose of this project is to identify and characterize the function of single nucleotide polymorphisms in the thrombospondin 1 gene that are associated with acute lung injury during sepsis. Dr. Fingerlin directs the statistical analyses of the case-control genetic studies.

Genes in the IKKβ/NF-κB pathway and insulin resistance  
1-06-JF-17 (P.I.: T.E. Fingerlin)  
1/06-12/08  
American Diabetes Association  
The purpose of this project is to examine the association between genes in the IKKβ/NF-κB pathway and glucose homeostasis traits and markers of inflammation in the IRAS Family Study.
BIOGRAPHICAL SKETCH

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
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<tbody>
<tr>
<td>Deborah H. Glueck</td>
<td>Assistant Professor</td>
</tr>
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</table>

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<tr>
<td>Harvard College, Cambridge, MA</td>
<td>AB</td>
<td>1989</td>
<td>Mathematics</td>
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<tr>
<td>University of North Carolina, Chapel Hill, NC</td>
<td>MS</td>
<td>1991</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>University of North Carolina, Chapel Hill, NC</td>
<td>PhD</td>
<td>1996</td>
<td>Biostatistics</td>
</tr>
</tbody>
</table>

Positions

1994-1996 Graduate Research Assistant, University of North Carolina at Chapel Hill, Chapel Hill, NC

1996-1998 Post-doctoral Fellow, Agency for Health Care Policy and Research Grant Robert Wood Johnson Medical School, University of Medicine and Dentistry of New Jersey, Piscataway, NJ

1991-present Assistant Professor, Department of Biostatistics and Informatics, University of Colorado Denver, Denver, CO

Selected peer-reviewed publications


Research Support

Active

5K07CA088811-05 (Glueck) 7/1/2001- 8/31/2009
National Cancer Institute, NIH
Power and Sample Size Methods for Mammography Trials
Role: Principal Investigator

Completed

R21 CA76508 (Leslie) 7/1/78 – 6/30/01
NIH
Novel mechanism for tamoxifen induced endometrial atypia
The goals of this grant were to perform a prospective trial in women taking tamoxifen for breast cancer. These patients underwent endometrial biopsies and ultrasonographic evaluation of the endometrium. These results were correlated with pathologic and molecular markers for endometrial growth disorders.
Role: Statistician

3 M01 RR00051-39S1 (Krugman) 12/1/78 – 11/30/01
NIH
Adult Clinical Research Center
Role: General Clinical Research Center Statistician

5 P30 CA46934-13 (Bunn) 3/1/88 - 5/30/00
NIH
University of Colorado Cancer Center Biostatistics Core.
Role: Statistician
### BIOGRAPHICAL SKETCH

<table>
<thead>
<tr>
<th>NAME</th>
<th>Gary K. Grunwald</th>
</tr>
</thead>
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<tr>
<td>POSITION TITLE</td>
<td>Associate Professor, Biostatistics</td>
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#### EDUCATION/TRAINING

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<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Colorado School of Mines, Golden, CO</td>
<td>B.Sc.</td>
<td>1976</td>
<td>Applied Math</td>
</tr>
<tr>
<td>University of Oregon, Eugene, OR</td>
<td>M.S.</td>
<td>1978</td>
<td>Mathematics</td>
</tr>
<tr>
<td>University of Washington, Seattle, WA</td>
<td>Ph.D.</td>
<td>1987</td>
<td>Statistics</td>
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</table>

#### Positions and Honors

<table>
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<th>Date</th>
<th>Position/Institution</th>
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<tbody>
<tr>
<td>9/84-8/87</td>
<td>Temporary Lecturer, Department of Management Science, Univ of Washington, Seattle, WA</td>
</tr>
<tr>
<td>3/1988-6/1996</td>
<td>Lecturer, Statistics Department, University of Melbourne, Melbourne, Australia</td>
</tr>
<tr>
<td>9/96 to 6/97</td>
<td>Visiting Scientist, Geophysical Statistics Project, National Center for Atmospheric Research, Boulder, CO</td>
</tr>
<tr>
<td>7/97-6/02</td>
<td>Assistant Professor, Biostatistics, UCD, Denver, CO</td>
</tr>
<tr>
<td>7/02-present</td>
<td>Associate Professor, Biostatistics, UCD, Denver, CO</td>
</tr>
<tr>
<td>7/05-present</td>
<td>Director, Biostatistics MS &amp; PhD programs, UCD, Denver, CO</td>
</tr>
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</table>

#### Selected peer-reviewed publications (selected from over 70)


509T with allergy and immunological activities. International Archives of Allergy and Immunology, 138:151-160.


Research Support

2 P30 DK048520 Hill (PI) 9/15/05 – 07/31/2010
NIH/NIDDK
Colorado Clinical Nutrition Research Unit
This is a center grant to foster collaborative, multidisciplinary research in nutrition among NIH funded nutrition researchers. The grant supports core laboratories and a pilot project program.
Role: Biostatistician & Collaborator

CICSP-X Shroyer (PI) 10/01/2007 - 09/30/2009
Veterans Administration Headquarters
The goal of this project is to optimize the cardiac surgery programs of the Veterans Health Administration through quality improvement initiatives of patient care.
Role: Director, Biostatistics division
BIOGRAPHICAL SKETCH

NAME
Richard F. Hamman

POSITION/TITLE
Professor and Chair
Founding Dean, Colorado School of Public Health

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Michigan State University, East Lansing, MI</td>
<td>BS</td>
<td>1968</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Case Western Reserve, Sch. of Med., Cleveland, OH</td>
<td>MD</td>
<td>1972</td>
<td></td>
</tr>
<tr>
<td>University of Washington, Seattle, WA</td>
<td></td>
<td>1972-73</td>
<td>Intern in Medicine</td>
</tr>
<tr>
<td>The Johns Hopkins Univ. Sch. of Hygiene &amp; Public Health</td>
<td>MPH</td>
<td>1976</td>
<td></td>
</tr>
<tr>
<td>The Johns Hopkins Univ. Sch. of Hygiene &amp; Public Health, Preventive Medicine Residency, Baltimore, MD</td>
<td>Dr PH</td>
<td>1978</td>
<td>Epidemiology</td>
</tr>
</tbody>
</table>

Positions and Honors

1973-1975  Epidemiology and Field Studies, National Institute of Health, Phoenix, AZ
1981-1983  Member, NIH Epidemiology and Disease Control Study Section
1982-1986  Member, National Diabetes Data Group
Member, National Diabetes Advisory Board
1991-1994  Steering Committee Chair, Insulin Resistance Atherosclerosis Study (IRAS)
Kelly West Award, American Diabetes Association
1998-1999  Interim Director, Colorado Health Outcomes Program
1998-2003  Vice Chair, Diabetes Prevention Program (DPP) Outcomes Study (DPPOS)

Teaching Experience

1979-1983  Assistant Professor, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center
Associate Professor, Department of Preventive Medicine and Biometrics, UCHSC
1989-present  Chair, Department of Preventive Medicine and Biometrics, UCHSC
1992-present  Professor, Department of Preventive Medicine and Biometrics, UCHSC
2006  Director, Colorado School of Public Health Initiative (to develop a collaborative School in Colorado)
2007-present  Founding Dean, Colorado School of Public Health

Selected peer-reviewed publications (from over 215)


73
Florez JC, Jablonski KA, Kahn SE, Franks PW, Dabelea D, Hamman RF, Knowler WC, Nathan DM, Altshuler D. for the Diabetes Prevention Program Research Group The Type 2 Diabetes-Associated Missense Polymorphisms Kcnj11 E23k and Abcc8 A1369s Influence Progression to Diabetes and Response to Interventions in The Diabetes Prevention Program. Diabetes (56) 2; 531-536, 2007


Peterson PN, Spertus JA, Magid DJ, Masoudi FA, Reid K, Hamman RF, Rumsfeld JS: The impact of diabetes on one-year health status outcomes following acute coronary syndromes. BMC Cardiovascular Disorders 6:41, 2006


The Diabetes Prevention Program Research Group: Prevention of Type 2 Diabetes With Troglitazone in the Diabetes Prevention Program. Diabetes 54:1150-1156, 2005


The Diabetes Prevention Program Research Group: Hypertension, insulin, and proinsulin in participants with impaired glucose tolerance. *Hypertension* 40:679-686, 2002


**Research Support**

**Active**

Project Number: U01-DK048375

Funding Source: NIDDK

Title: Diabetes Prevention Program Outcomes Study (DPPOS)

Principal Investigator: Hamman, Richard

Period: 08/20/94 – 01/31/09

Project Description: The Diabetes Prevention Program Outcomes Study (DPPOS) is a long-term follow-up of the Diabetes Prevention Program (DPP) to determine the duration of prevention of diabetes, cardiovascular disease and risk factors among persons originally randomized to DPP.

Project Number: U01-DP000247

Funding Source: CDC/NIDDK

Project Title: SEARCH for Diabetes in Youth 2: Colorado Center

Principal Investigator: Dabelea, Dana

Investigator: Hamman, Richard
Period: 09/30/05-09/29/10
Project Description: This study is one of six centers designated by DCD to set-up a national registry of childhood diabetes. Researchers will ascertain, register, characterize, and conduct follow-up of diabetes in youth aged 0-19 with an emphasis on Type 1a (autoimmune), Type 2 and other forms of diabetes in the Western United States.

Project Number: R01 DK077131
Funding Source: NIH NIDDK
Project Title: Spatial Epidemiology of Diabetes in the SEARCH for Diabetes in Youth Study
Principal Investigator: Angela Leise
Period: 1/5/07 – 12/31/09
Project Description: This study will be an ancillary investigation to SEARCH study and will explore the geographic variation of diabetes incidence across the populations of the SEARCH project.

Project Number: 5 R01 DK068001
Funding Source: NIH NIDDK
Project Title: Exploring Perinatal Outcomes among Children (EPOCH)
Principal Investigator: Dana Dabelea
Investigator: Richard Hamman
Period: 9/14/06 – 6/30/10
Project Description: The proposed project is a prospective study proposing to enroll a total of 810 eight to eleven-year old offspring of diabetic pregnancies (exposed group-1), offspring of non-diabetic pregnancies with intrauterine growth restraint (exposed group-2), and control children (unexposed group), as well as their biological mothers (810), in three ethnic groups (non-Hispanic whites, Hispanics, and African–Americans). Comparison of exposed and unexposed groups will allow assessment and disentangling of the effects of exposure to diabetes mellitus in utero and intrauterine growth restraint on body size, fat patterning and insulin resistance markers and features later in childhood. The proposed research should also help understand whether these exposures have direct biological influences or are mediated through lifestyle choices. Such studies could ultimately lead to the development of strategies for early life prevention of future chronic disorders.

Project Number: HHSN27500800018C
Funding Source: NIH NICHD
Project Title: National Children’s Study – Douglas County Base Location and Denver County Option Location
Principal Investigator: Dana Dabelea
Period: 9/26/08 – 9/25/14
Project Description: The National Children’s Study is a multi-year research study that will examine the effects of environmental influences on the health and development of more than 100,000 children across the United States, following them from before birth until age 21. The goal of the Study is to improve the health and well-being of children.

Project Number: R01-DK059184
Funding Source: NIH NIDDK
Project Title: Defining Diabetes in Youth (DDY)
Principal Investigator: Dana Dabelea
Period: 09/29/02 – 7/31/08
Project Description: This is an ancillary study to SEARCH, which will add controls in both South Carolina (E Mayer-Davis, PI) and Colorado to investigate the role of risk factors for Type 2 diabetes in youth aged 10-19. Statistical analysis will be provided by Wake Forest University (R. D’Agostino, PI), and laboratory analysis will be conducted at the U of Washington (S. Marcovina, PI).
Completed (in the past 3 years)

Project Number: R18 DK064997
Funding Source: NIH NIDDK
Project Title: Family-based prevention of diabetes and its complications
Principal Investigator: Julie Marshall
Period: 09/01/03 – 08/31/08
Project Description: This application proposes a randomized controlled trial to test the effectiveness of a family visit program compared to usual care to increase physical activity and fruit and vegetable consumption, decrease saturated fat and increase the percent of participants achieving Diabetes Quality Improvement Project criteria for self-management. By targeting families of people with diabetes, this intervention will address the prevention continuum (primary prevention in family members without diabetes, secondary prevention identifying family members with previously undiagnosed diabetes, and tertiary prevention of diabetes complications).

Project Number: 1 R01-MH68126
Funding Source: NIMH
Project Title: Exploring Diabetes and Depression in Youth (EDDY)
Principal Investigator: McKeown, Robert, University of South Carolina, School of Public Health
Investigator: Hamman, Richard
Period: 09/30/02 - 08/31/07
Project Description: This is an ancillary study to SEARCH, which will add detailed measures of depressions, social functioning, and diabetes impact to cases aged 10-19 in the Denver metro area.
BIOGRAPHICAL SKETCH

NAME
Holly Hedegaard

POSITION TITLE
Manager, Emergency Medical Services Division
Director, CO violent death and trauma registries

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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</thead>
<tbody>
<tr>
<td>Univ of CA, Santa Barbara, Santa Barbara, CA</td>
<td>BA</td>
<td>1977</td>
<td>Biochemistry/Molecular Biology</td>
</tr>
<tr>
<td>Univ of CA, Santa Barbara, Santa Barbara, CA</td>
<td>MA</td>
<td>1979</td>
<td>Biochemistry/Molecular Biology</td>
</tr>
<tr>
<td>Univ of Colorado Health Sciences Ctr, Denver, CO</td>
<td>MD</td>
<td>1988</td>
<td>Medicine</td>
</tr>
<tr>
<td>Univ of Colorado Health Sciences Ctr, Denver, CO</td>
<td></td>
<td>1988-91</td>
<td>General surgery</td>
</tr>
<tr>
<td>Univ of Colorado Health Sciences Ctr, Denver, CO</td>
<td></td>
<td>1992-94</td>
<td>Preventive medicine</td>
</tr>
<tr>
<td>Univ of Colorado Health Sciences Ctr, Denver, CO</td>
<td>MSPH</td>
<td>1994</td>
<td>Public health</td>
</tr>
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</table>

Positions and Honors

Colorado Department of Public Health and Environment (CDPHE), Denver, Colorado.

2007-2009 Manager, Emergency Medical Services/Trauma Data Program, Health Facilities and Emergency Medical Services Division,

1995-2007 Injury/Medical Epidemiologist, Prevention Services Division,

2003-2009 Director, Colorado Violent Death Reporting System,

1997-2009 Director, Colorado Trauma Registry,

2003-2006 Manager, Injury, Suicide and Violence Prevention Section,

1996-2007 Manager, Injury Epidemiology Program,

1994 Chronic Disease Epidemiologist, Division of Prevention Programs,

2000-2009 Co-chair, Institutional Review Board (IRB), 2001-2005; Member,

2004-2009 Member, Colorado Children’s Trust Fund Advisory Board,

2006-2009 Member, Colorado Child Fatality Prevention System Board

1991-1994 Clinical Assistant, Department of Surgery, Presbyterian/St. Luke’s Hospital, Denver, CO

1991-1992 Clinical Instructor, Employee and Student Health Clinic, University of Colorado Health Sciences Center (UCHSC), Denver, CO

1980-1984 Research Assistant, National Jewish Center for Immunology and Respiratory Medicine, Denver, CO

Honors

2006 Ellen R. Schmidt Award, State and Territorial Injury Prevention Directors Association

1993 Student Research Award, Epidemiology Exchange, UCHSC, Department of Preventive Medicine/Biometrics

1989 Outstanding Surgical Intern, UCHSC, Department of Surgery

1988 Denver Academy of Surgery Award, UCHSC, School of Medicine

1987 Alpha Omega Alpha, UCHSC, School of Medicine

1986 Student Honors and Research Committee Award, UCHSC, School of Medicine

1977 Phi Beta Kappa, UCSB, Santa Barbara, CA

Teaching Experience

1996-2009 Assistant Clinical Professor, Department of Preventive Medicine/Biometrics, UCHSC, Denver, CO

1995 Clinical Instructor, Department of Preventive Medicine/Biometrics, UCHSC, Denver, CO

1992-1995 Clinical Instructor, Department of Surgery, UCHSC, Denver, CO
Selected peer-reviewed publications


Chapters


Research Support

Active
National Violent Death Reporting System, 2003-2009, CDC
Colorado Trauma Registry, 1997-2009, state funds
Emergency Medical Services Data System, 2000-2009, state funds, and federal funds from the National Highway Traffic Safety Administration and the EMS for Children Program at HRSA
Core Injury Surveillance and Prevention, 2005-2009, CDC

Completed
Enhanced Injury Surveillance, 2000-2005, CDC
Comparison of trauma registry and hospital discharge data supplement, 2003-2004, CDC
Traumatic Brain Injury Surveillance supplement, 2002-2003, CDC
Spinal Cord Injury Surveillance supplement, 2000-2002, CDC
Firearm Injury Surveillance, 1994-1997, CDC
**BIOGRAPHICAL SKETCH**

**NAME**
Richard E. Hoffman

**POSITION TITLE**
Associate professor adjoint

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
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<th>YEAR(s)</th>
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<tr>
<td>Stanford University, Stanford, CA</td>
<td>BA</td>
<td>1971</td>
<td>Biological sciences</td>
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<tr>
<td>University of Texas, Dallas TX</td>
<td>MD</td>
<td>1975</td>
<td>Medicine</td>
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<tr>
<td>Centers for Disease Control in NM</td>
<td></td>
<td>1978-80</td>
<td>Epidemic intelligence service</td>
</tr>
<tr>
<td>Duke University, Durham, NC</td>
<td>Residency</td>
<td>1980-82</td>
<td>Family medicine</td>
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<tr>
<td>Johns Hopkins University, Baltimore, MD</td>
<td>MPH</td>
<td>1983</td>
<td>Epidemiology</td>
</tr>
</tbody>
</table>

**Positions and Honors**

- **July 1976 to June 1978**
  General Medical Officer, National Health Service Corps, U.S. Public Health Service; Saguache and Center, CO.

- **June 1983**
  Locum tenens in family practice in Seward, Alaska and in emergency room care in Homer, AL.

- **1983 - 1985**
  Medical Epidemiologist, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, GA.

- **1985**
  Attending physician, public health well child clinics in Vienna and Fulton, MO.

- **1985 - 1986**
  Medical Epidemiologist, Center for Environmental Health and Injury Control, Centers for Disease Control and Prevention.

- **1986 - 2001**
  State Epidemiologist (February 1987 to August 2001); Colorado Department of Public Health and Environment (CDPHE); Chief Medical Officer (May 1998 to August 2001); Chief, Communicable Disease Control (1986-87); Colorado TB Control Officer (1986-1998).

- **1994- present**
  Associate Professor (Adjoint), Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, CO (now the Colorado School of Public Health).

- **Oct 2001 - present**
  Medical Epidemiologist and Consultant in public health science, law, and policy.

- **Jan-Feb 2003**
  For two months served as the Interim CEO and President of Planned Parenthood of the Rocky Mountains.

**Honors**

- **1982**
  Resident Research Award of the North Carolina Academy of Family Physicians

- **1983**
  Johns Hopkins University Chapter of Delta Omega, National Honorary Public Health Society

- **1987**
  The Secretary's Recognition Award, U.S. Department of Health and Human Services, to the CDC/CEHIC Dioxin Serum-Adipose Study Group

- **1988**
  Regional Director's Citation, Region VIII, U.S. Department of Health and Human Services

- **1988**
  Employee of the Month, Colorado Department of Health

- **1990**
  Cited for Outstanding Achievement in support of the Colorado Head Injury Foundation

- **1991**
  University of Colorado Department of Preventive Medicine and Biometrics Clinical/Affiliated Faculty Award

- **1997**
  Group Recognition Award of the Food and Drug Administration, U.S. DHHS Colorado Department of Public Health and Environment Star Performer award

- **2000**
  Colorado Department of Public Health and Environment Star Performer award

- **2001**
  Colorado Department of Public Health and Environment Star Performer award Colorado Public Health Association Lifetime Achievement Award
2002  Co-winner, The Alexander D. Langmuir Award of the CDC
2003  Florence Rena Sabin Award, University of Colorado Health Sciences Center
       National Epidemiology Award, Council of State and Territorial Epidemiologists

Selected peer-reviewed publications


CDC. Type F infant botulism. MMWR 1980; 29: 85-86.


Andrews JS, Garrett WA, Patterson DG, Needham LL, Roberts DW, Bagby JR, Anderson JE, Hoffman RE, and Schramm W. 2,3,7,8-tetrachlorodibenzo-p-dioxin levels in adipose tissue


BIOGRAPHICAL SKETCH

NAME
Hokanson, John E.

POSITION TITLE
Associate Professor

EDUCATION/TRAINING

<table>
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<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
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<tr>
<td>University of California at San Diego, CA</td>
<td>BA</td>
<td>1979</td>
<td>Biology</td>
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<tr>
<td>University of Hawaii at Manoa, HI</td>
<td>MPH</td>
<td>1981</td>
<td>Epidemiology</td>
</tr>
<tr>
<td>University of Washington, Seattle, WA</td>
<td>PhD</td>
<td>1998</td>
<td>Epidemiology</td>
</tr>
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</table>

Positions and Honors

1981-82    Epidemiologist, Hawaii State Health Department, Honolulu, Hawaii
1983-1998  Research Scientist, Division of Metabolism, Endocrinology, and Nutrition, University of Washington, Seattle, Washington
1998-1999  Post Doctoral Fellow, Division of Metabolism, Endocrinology, and Nutrition, University of Washington, Seattle, Washington
1999-2005  Assistant Professor, Dept of Preventive Medicine & Biometrics, School of Medicine, UCHSC, Denver, CO
2005-2008  Associate Professor, Dept of Preventive Medicine & Biometrics, School of Medicine UCDHSC, Denver, CO
2006-2008  Head, Epidemiology and Community Health, Dept of Preventive Medicine & Biometrics, School of Medicine, UCDHSC, Denver CO
2008-      Associate Professor, Dept of Epidemiology, Colorado School of Public Health, UCD, Denver, CO
2008-      Chair, Department of Epidemiology, Colorado School of Public Health, UCD, Denver, CO

Societies

1993-      Fellow, Council on Arteriosclerosis, American Heart Association
1999-      Professional Member, Council on Epidemiology & Statistics American Diabetes Association
1999-      Member, American Society of Human Genetics

Honors

2002      Roger R. Williams Memorial Award for Genetic Epidemiology and the Prevention and Treatment of Atherosclerosis. American Heart Association Council on Epidemiology and Prevention

Selected peer-reviewed publications


42. McClure DL, Valuck RJ, Glanz M, Hokanson JE: Statin and statin/fibrate use were significantly associated with increased myositis risk in a managed care population. J. Clinical Epidemiol. 2006.


**Research Support**

**Active**

R01 HL61753 (Rewers) 9/1/99-6/30/09
NIH, NHLBI
Subclinical Heart Disease in Insulin-Dependent Diabetes
To apply EBCT to study coronary artery calcification and associated risk factors in 800 IDDM patients and 600 appropriated controls twice over a 3-year follow-up period

R01 HL61019 (Norris) 07/1/99-12/31/2009
NIH, NHLBI
Insulin Resistance Atherosclerosis Family Study
A genome wide analysis of insulin resistance traits in Hispanics and African-Americans.

R01 HL080630-01A1 (Razzaghi) 02/01/06 – 01/31/09
NIH, NHLBI
Role of Endothelial Lipase in Atherosclerosis
To determine the role of the endothelial lipase gene in coronary atherosclerosis.

1R01HL089897-01A1 (Crapo, PI) 9/30/07 – 9/29/13
NIH
(1 of 2) Genetic Epidemiology of COPD: Genome-Wide Analysis
The genome wide analysis center will carry out detailed analysis of SNP’s and COPD and COPD subtypes.

1 R01 HL089856-01A1 (Silverman, PI) 9/30/07 – 9/29/13
NIH
(2 of 2) Genetic Epidemiology of COPD: Genome-Wide Analysis
The genome wide analysis center will carry out detailed analysis of SNP’s and COPD and COPD subtypes.

**Completed**

R01 HL079611-01 (Rewers, PI) 09/30/04 – 09/29/08
NIH, NIDDK
Determinants of Accelerated CVD in Type 1 Diabetes
To further explore novel risk factors for CVD and their relationship to the accelerated atherosclerosis experienced by patients with type 1 diabetes.

OE FHA EPI090000003 (Hokanson, PI) 7/1/08 – 12/30/08
Colorado Department of Public Health and Environment
Epidemiologic Study of HIV Drug Resistance in Colorado
The purpose of this project is to provide a link between surveillance data and HIV prevention and treatment through analysis of HIV drug resistance trends locally and across the state.
Determinants of Early Pancreatic Injury in Cystic Fibrosis
This grant funds examination of modifier genes of early pancreatic injury in cystic fibrosis.

PO PPG04000164 (Hokanson)  2004 - 2005
Colorado Department of Public Health and the Environment
CDPHE Breast Cancer Study
Determinants of interval breast cancers in Colorado.
**BIOGRAPHICAL SKETCH**

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION TITLE</th>
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<tbody>
<tr>
<td>Katherina J. Kechris-Mays</td>
<td>Assistant Professor</td>
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**EDUCATION/TRAINING**

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<tr>
<th>INSTITUTION AND LOCATION</th>
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<tbody>
<tr>
<td>University of California, Los Angeles</td>
<td>B.S.</td>
<td>1997</td>
<td>Applied Mathematics</td>
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<tr>
<td>University of California, Berkeley</td>
<td>M.A.</td>
<td>1999</td>
<td>Statistics</td>
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<tr>
<td>University of California, Berkeley</td>
<td>Ph.D.</td>
<td>2003</td>
<td>Statistics</td>
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<tr>
<td>University of California, San Francisco</td>
<td>Post-Doctoral Fellow</td>
<td>2003-2005</td>
<td>Computational Biology</td>
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</table>

**Positions and Honors**

- **1998-2003** Graduate Research Assistant, Teaching Assistant and Statistical Consultant, Department of Statistics, UC Berkeley.
- **2003-2005** Post-Doctoral Fellow, Department of Biochemistry and Biophysics, Center for Bioinformatics and Molecular Biostatistics, UCSF.
- **2006-present** Assistant Professor, Department of Preventive Medicine and Biometrics and Core Faculty, Computational Bioscience Program, University of Colorado Denver, School of Medicine.

**Honors**

- **1997** Sherwood Prize in Mathematics, Department of Mathematics, UCLA.
- **1997** *Summa cum laude*, UCLA.
- **1999-2002** National Science Foundation Graduate Research Fellowship.
- **2002-2003** National Science Foundation VIGRE (Vertical Integration of Research and Education in the Mathematical Sciences) Fellowship, Department of Statistics, UC Berkeley.
- **2003** Evelyn Fix Memorial Medal and Citation, Department of Statistics, UC Berkeley.
- **2008** University of Colorado Denver Nominee Microsoft Research New Faculty Fellowship Grant.

**Selected Peer-Reviewed Publications**


**Research Support**

*Active*

K01 AA016922-01 Katherine Kechris-Mays (PI) 9/15/2007 – 9/14/2012
NIH/NIAAA
*Genomic Regulatory Sequence Analysis for Alcohol-Related Phenotypes*
The goal of this work is to study mammalian model systems to identify genomic regulatory sequences that contribute to transcriptional changes in alcohol-related behaviors.
Role: Principal Investigator

T15 HL86386-01 Nichole Reisdorph (PI) 9/1/2006 - 8/31/2009
NIH/NHLBI
*Genomics and Proteomics Hands-On Workshop: From Sample Preparation to Data Analysis*
The goals are to build a curriculum enabling outcome-structured learning in proteomics and genomics technologies, provide novel training experiences using hands-on techniques and an established model by experienced investigators and educators, disseminate educational materials such that knowledge and information can be used to benefit a wide variety of audiences, and provide and/or act as portal for collaborative opportunities for both young and established investigators.
Role: Board of Directors, Instructor

T15 LM009451-01 Lawrence Hunter (PI) 7/01/2007-6/30/2012
NIH/NLM
*Computational Bioscience Program Training Grant*
This program is designed to provide graduate students and post-doctoral fellows training in both computational methods and molecular biology, an intimate familiarity with the science and technology that synthesizes the two, and the skills necessary to pioneer novel computational approaches to significant biomedical questions.
Role: Program Core Faculty
BIOGRAPHICAL SKETCH

NAME: John M. Kittelson

POSITION TITLE: Associate Professor

EDUCATION/TRAINING

<table>
<thead>
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<th>INSTITUTION AND LOCATION</th>
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<th>FIELD OF STUDY</th>
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<tr>
<td>Pomona College, Claremont, CA</td>
<td>BA</td>
<td>1977</td>
<td>Biology</td>
</tr>
<tr>
<td>University of Minnesota, Minneapolis, MN</td>
<td>MS</td>
<td>1987</td>
<td>Statistics</td>
</tr>
<tr>
<td>University of Arizona, Tucson, AZ</td>
<td>PhD</td>
<td>1996</td>
<td>Statistics</td>
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</table>

Positions and Honors

2006-present  Director, Colorado Biostatistics Consortium, University of Colorado Denver, Denver CO
2005-present  Associate Professor, Department of Biostatistics and Informatics, University of Colorado Denver, Denver CO
2001-2005  Assistant Professor, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, CO
2001  Associate Professor with tenure, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, CO
1999-2000  Assistant Professor with tenure, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center, Denver, CO
1996-1999  Assistant Professor, Department of Preventive and Social Medicine, University of Otago, Dunedin, New Zealand
1987-1995  Senior Biostatistician, Arizona Cancer Center, University of Arizona, Tucson, AZ
1978-1979  Teacher, U.S. Peace Corps, Apia, Western Samoa

Honors

Selected peer-reviewed publications


**Research Support**

*Active*

1UL 1RR025780-01; PI: Ronald J Sokol, MD 5/19/08 to 4/30/13
Clinical Translational Research Institute
Role: Director: Biostatistics, Epidemiology, and Research Design Program

NIH R18DK064991-01; PI: Julie Marshall, PhD 09/2003 to 08/2008
Role: Lead statistician.

1K12HD057022-01; PI: Judith Regensteiner, PhD 6/30/2007-5/31/2012
Building Interdisciplinary Careers in Women’s Health.
NIH/NICHD: BIRCWH K-12 training grant to foster interdisciplinary careers in women’s health
Role: Biostatistician. Provide biostatistics mentorship for BIRCWH trainees and support for study design and data analysis.
BIOGRAPHICAL SKETCH

NAME
Dennis C. Lezotte

POSITION TITLE
Professor and Chairman
Department of Biostatistics and Informatics

EDUCATION/TRAINING

<table>
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<tbody>
<tr>
<td>Western Michigan University, Kalamazoo, MI</td>
<td>B.A.</td>
<td>1969</td>
<td>Mathematics</td>
</tr>
<tr>
<td>State University of New York, Buffalo, NY</td>
<td>MA</td>
<td>1973</td>
<td>Biostatistics</td>
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<tr>
<td>State University of New York, Buffalo, NY</td>
<td>PhD</td>
<td>1975</td>
<td>Biostatistics</td>
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</table>

Positions and Honors

1976  Assistant Research Scientist in Statistics, University of Florida, Gainesville, Florida
1976 - 1981  Assistant Research Scientist in Pathology, University of Florida, Gainesville, Florida
1981 - 1987  Assistant Professor, Department of Preventive Medicine and Biometrics, University of Colorado, School of Medicine, Denver, Colorado.
1985 - 1989  Director, Medical Computing Center, School of Medicine University of Colorado Health Sciences Center, Denver Colorado
1987 - 1995  Associate Professor of Biometrics. Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado
1993 - 2002  Section Head of Medical Informatics, School of Medicine, Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center
1994 - Present  Principle Investigator, Burn Model Systems / National Data Coordinating Center.
1995 - Present  Professor of Biostatistics, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado
2004 - Present  Director, Bioinformatics PhD Program, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Health Sciences Center, Denver, Colorado
2006 - 2008  Head, Section of Biostatistics and Informatics, Department of Preventive Medicine and Biostatistics, University of Colorado Health Sciences Center, Denver Colorado.
2008 – Present  Professor and Chair, Department of Biostatistics and Informatics, Colorado School of Public Health, University of Colorado Denver

Honors

- UCHSC Faculty Assembly President, 2005-2007
- UC Faculty Council Member, 2004-Present
- UCHSC Faculty Assembly President –elect, 2003-2004
- School of Medicine Faculty Senate President, 1998-1999
- Chancellor’s Teaching Recognition Award, UCHSC 1996.
- Graduate School Faculty Appointment, UCHSC. (since 1982)
- Department of Preventive Medicine and Biometrics Award for Excellence in Teaching, 1994.

Selected Peer-reviewed publications

1. Bailey, E.J., Barton, P., Lezotte, D, Lowenstein, S, Dart RC. “The Effect of FDA Approval of a Generic Competitor to Oxycontin®, Oxucodone HCL Controlled Release Tablets, on the Abuse of


Research Support

Active

H133A070006 (Lezotte) 10/01/07-09/30/12
Department of Education/NIDRR
National Database Coordinating Center for Burn Model Systems (BMS/DCC)
To maintain a four center longitudinal database of patients seen and treated at one of the Model Systems for Burn Injury Care and Rehabilitation and to provide study design and analytical support for conducting collaborative clinical and outcomes research at these Model systems supported by NIDRR research grants.
Role: Center Director

Completed

H133A30015 (Lezotte) 10/01/02-09/30/07
Department of Education/NIDRR
National Database Coordinating Center for Burn Model Systems (BMS/DCC)
To maintain a four center longitudinal database of patients seen and treated at one of the Model Systems for Burn Injury Care and Rehabilitation and provide study design and analytical support for
conducting collaborative clinical and outcomes research at these Model systems supported by NIDRR research grants.

Colorado Tobacco Research Program (Niermeyer) 11/01/03-06/30/05 CDPHE
Low Birth Weight in Colorado: The Interaction of Smoking and Altitude
The major goals of this project are to examine the role of chronic hypoxia and uterine blood flow on intrauterine growth, and the physiological mechanisms responsible for intrauterine growth retardation.

R01 OH03613-01A2 (Glazner) 09/30/02-09/29/05 CDC/NIOSH
Surveillance Research Methods on Construction Injury
The principal goals of this study are to assess occupational injuries and hazards on a long-term construction project and to develop a prospective surveillance database capable of supporting case-based and rate-based analysis.
BIOGRAPHICAL SKETCH

NAME: Steven D. Mark

POSITION TITLE: Professor

EDUCATION/TRAINING

<table>
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<tr>
<td>Massachusetts Institute of Technology, Cambridge, MA</td>
<td>BS</td>
<td>1974</td>
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<tr>
<td>Washington University School of Medicine, St. Louis, MO</td>
<td>MD</td>
<td>1980</td>
<td>Medicine</td>
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<td>Barnes-Jewish Hospital, Washington University, St. Louis, MO</td>
<td>Residency</td>
<td>1982-84</td>
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<tr>
<td>Harvard School of Public Health, Boston, MA</td>
<td>MS</td>
<td>1987</td>
<td>Epidemiology</td>
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<tr>
<td>Harvard School of Public Health, Boston, MA</td>
<td>MS</td>
<td>1990</td>
<td>Biostatistics</td>
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<tr>
<td>Harvard School of Public Health, Boston, MA</td>
<td>ScD</td>
<td>1991</td>
<td>Epidemiology</td>
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</table>

Positions and Honors

Academic Appointments

1980-1981  Instructor in Pathology, Stanford University Medical Center, Palo Alto, California
1981-1984  Instructor in Medicine, Washington University, School of Medicine, St. Louis, Missouri
1986-1987  National Research Service Award Fellow in Environmental Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, Massachusetts
1987-1988  Instructor, Department of Medicine, Harvard Medical School, Boston, Massachusetts
1988-1991  National Research Service Award Fellow in Cancer Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, Massachusetts
2005-Present  Professor, Dept. of Preventive Medicine and Biometrics, University of Colorado at Denver and Health Sciences Center, Denver, Colorado

Hospital Appointments

1980-1981  Department of Pathology, Stanford Medical Center Hospital, Palo Alto, California
1981-1984  Department of Medicine, Jewish Hospital, St. Louis, Missouri
1984-1986  Staff Physician, Somerville Hospital Somerville, Massachusetts
1984-1986  Department of Medicine, Somerville Hospital, Somerville, Massachusetts
1985-1986  Staff Physician, New England Baptist Hospital, Boston, Massachusetts
1985-1986  Department of Medicine, New England Baptist Hospital, Boston, Massachusetts
1987-1989  Staff Physician, West Roxbury Veteran's Administration Hospital, Boston, Massachusetts
1987-1989  Department of Medicine, Harvard Medical School, West Roxbury Veteran's Administration Hospital, Boston, Massachusetts

National Institutes of Health

1991-1996  Research Officer, National Institutes of Health, National Cancer Institute, Biostatistics Branch, Epidemiologic Methods Section
1996-2005  Senior Research Investigator, National Institutes of Health, National Cancer Institute, Biostatistics Branch, Epidemiologic Methods Section

Public Health Service

1991-1993  Lieutenant Commander, United States Public Health Service
1993-2004  Commander, United States Public Health Service
2005      Captain, United States Public Health Service
Honors

1974  Boit Manuscript Prize for Excellence in English Composition, Massachusetts Institute of Technology
1978  Dr. Robert Carter Medical School Prize for Excellence in Medicine
1979  Dr. Robert Carter Medical School Prize for Excellence in Medicine
1979  Alpha Omega Alpha
1994  National Institutes of Health Director's Award
1996  United States Public Health Service Commendation Medal
1998  Bicentennial Unit Commendation

Selected peer-reviewed publications

44. Bosetti C; Negri E; Kolonel L; Ron E; Franceschi S; Preston-Martin S; McTiernan A; Dal Maso L; Mark SD; Mabuchi K; Land C; Jin F; Wingren G; Galanti MR; Hallquist A; Glattice E; Luft E; Levi F; Linos D; La Vecchia C. A pooled analysis of case-control studies of thyroid cancer. VII. Cruciferous and other vegetables. Cancer Causes and Control, 2002; 13: 765-775.


64. Abnet CC, Qiao YL, Kamangar F, Dong ZW, Taylor PR, Mark SD, Fraumeni JF, Dawsey SM. Self-reported goiter is associated with a significantly increased risk of gastric adenocarcinoma in a large population-based Chinese cohort, International Journal of Cancer, 2006, 119, 1508-1519.


Research Support

Support was through the NIH Intra-mural system.

Completed

Fiscal year 2002
Budget for fiscal year: $250,000
Project names:
1. Nutrition Intervention Trial Follow-up Study.
2. Prospective studies of the association of biological markers and incident esophageal and gastric cancer in the NIT cohort.

Fiscal year 2003
Budget for fiscal year: $250,000.
Project names:
1. Nutrition Intervention Trial Follow-up Study.
2. Prospective studies of the association of biological markers and incident esophageal and gastric cancer in the NIT cohort.

Fiscal year 2004
Budget for fiscal year: $250,000
Project names:
1. Nutrition Intervention Trial Follow-up Study.
2. Prospective studies of the association of biological markers and incident esophageal and gastric cancer in the NIT cohort.

Fiscal year 2005
Budget for fiscal year: $175,000.
Project names:
1. Nutrition Intervention Trial Follow-up Study.
2. Prospective studies of the association of biological markers and incident esophageal and gastric cancer in the NIT cohort.
NAME
Julie A. Marshall

POSITION TITLE
Professor

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Colorado State University, Ft. Collins, CO</td>
<td>BS</td>
<td>1973</td>
<td>Microbiology</td>
</tr>
<tr>
<td>University of Hawaii School of Public Health, Oahu, HI</td>
<td>MS</td>
<td>1975</td>
<td>Public Health</td>
</tr>
<tr>
<td>University of Washington School of Public Health, Seattle, WA</td>
<td>PhD</td>
<td>1987</td>
<td>Epidemiology</td>
</tr>
</tbody>
</table>

Positions and Honors

1976-78 Coordinator of Data Management/Analysis, Cervical Cancer Screening, Cancer Ctr of Hawaii
1978-80 Research Assistant, Dept of Preventive Medicine, University of Colorado School of Medicine
1980-82 Instructor, Dept of Preventive Medicine, University of Colorado School of Medicine
1982-83 Leave of absence from Univ of Colorado, Graduate student in Epidemiology, Univ of Washington
1983-85 Instructor, Dept. of Preventive Medicine & Biometrics, University of Colorado School of Medicine
1985-88 Senior Instructor, Dept of Prev Medicine & Biometrics, University of Colorado School of Medicine
1989-90 Visiting Fellow, Natl Ctr for Epidemiol and Pop Hlth, Australia National Univ, Canberra, Australia
1987-97 Member, Center for Human Nutrition, University of Colorado School of Medicine
1988-97 Assistant Professor, Dept of Prev Medicine and Biometrics. Univ of Colorado School of Medicine
1989- Faculty Affiliate, Department of Food Science & Human Nutrition, Colorado State University
1997-05 Associate Professor, Dept of Prev Medicine & Biometrics, Univ of Colorado School of Medicine
2005-08 Professor, Dept of Prev Medicine and Biometrics, Univ of Colorado School of Medicine
2008- Professor, Depts of Epidemiology and Community and Behavioral Health, Univ of Colorado Denver, Colorado School of Public Health

Honors

1972 Institute of Telecommunication Sciences, Superior Performance Award
1973 Colorado State University, Graduated with Honors
1973-75 East-West Center Population Institute, Hawaii, Degree Scholar Award
1986 Society for Epidemiological Research, Student Workshop Participant, NCI funded

Selected peer-reviewed publications


C. Research Support.

*Active*


Rocky Mountain Prevention Research Center
One of 33 CDC funded prevention research centers nationwide housed at UCD CSPH and partnering with six counties in the San Luis Valley of southern Colorado to promote healthy lifestyles in rural communities. Activities include community based prevention research, education and training, communication and dissemination and policy research in the areas of physical activity and nutrition in school-age children, their intergenerational families and communities. Center Director

NIH/NIDDK (Marshall, P.I.) 09/01/03-03/08/31/08

Family-based Prevention of Diabetes & its Complications
A randomized controlled effectiveness trial of a family visit program in families that include at least one family member with diabetes. The intervention is designed to address the prevention continuum (primary prevention of diabetes in family members without diabetes, secondary prevention identifying family members with previously undiagnosed diabetes, and tertiary prevention of diabetes complications).

CDC U48 DP000054-02 SIP 9 (Bryant, P.I.) 09/30/05-09/29/09

Network for Cardiovascular Health Intervention and Translation
Develop a research agenda across PRCs for community based prevention research in cardiovascular health. Co-investigator

CDC K01 (Leiferman, P.I.) 9/1/07-8/31/10

My Baby, My Move: A Perinatal Physical Activity Intervention
Career development award developing and pilot testing a physical activity intervention in pregnant women directed at prevention of excess weight gain during pregnancy and prevention of post-partum depression Primary Mentor

NIH/NCRR (Sokol, P.I.) 5/19/08-3/31/13

Clinical Translational Sciences Award
The CTSA program will create a definable academic home for the discipline of clinical and translational science. The award supports infrastructure for innovative and translational research (staff scientist community engagement – 25%)
Completed
SLV Family Nutrition & Activity Intervention
A family-based intervention to increase fruit/vegetable intake, decrease fat intake & increase physical activity.

CDC K01 EH000066-01 (Litt, P.I.) 09/30/04-09/29/07

Community Design and Health: Starting from the Ground Up
Community gardening, an intervention being studied for its potential to promote public health through increased physical activity, nutrition and social engagement. (Primary Mentor)

RWJF (Belansky, P.I.) 06/15/06-06/14/08
Healthy Eating Research: Building Evidence to Prevent Childhood Obesity
Identify and evaluate environmental and policy features related to healthy eating among elementary schools located throughout low-income, Hispanic and non-Hispanic white urban and rural Colorado. (Principal Investigator yr 1, Co-investigator yr 2)

NIH/NIDDK K01 (Nelson, P.I.) 07/01/03-06/30/08
Gene-Environment Interactions in Obesity and Diabetes
Career development award in genetic epidemiology. (Co-Primary Mentor)
BIOGRAPHICAL SKETCH

NAME
Samantha MaWhinney, Sc.D.

POSITION TITLE
Associate Professor, Department of Biostatistics

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tr>
<td>University of Utah, Salt Lake City, UT</td>
<td>B.S.</td>
<td>1987</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Harvard University, Boston, MA</td>
<td>M.S.</td>
<td>1989</td>
<td>Biostatistics</td>
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<tr>
<td>Harvard University, Boston, MA</td>
<td>Sc.D</td>
<td>1991</td>
<td>Biostatistics</td>
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<tr>
<td>Harvard University, Boston, MA</td>
<td>Post-Doc Fellow</td>
<td>1992-1994</td>
<td>Biostatistics</td>
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</table>

Positions

- 1994 – 2001: Assistant Professor, Department of Preventive Medicine and Biometrics (PMB), University of Colorado Health Sciences Center, Denver, CO
- 2001 – 2008: Associate Professor, Department of PMB, University of Colorado, Denver, CO
- 2008 –: Associate Professor, Department of Biostatistics, Colorado School of Public Health, Denver, CO

Selected peer-reviewed publications


22. Weinberg A, Wohl DA, **MaWhinney S**, et. al. CMV-Specific INF-g production is associated with protection against CMV reactivation in HIV-infected Patients on HAART. *AIDS*. 2003. 17.


Research Support

Active

U01 AI 41536-04S2 (Connick) 7/1/03-6/1/09
NIH/NIAID
Immunopathogenesis of Acute HIV-1 Infection
This is a grant to study the pathogenesis and therapy of individuals with primary HIV infection. These are supplemental funds provided by the NIAID for ongoing management of patients on active protocols of the AIEDRP.

1 P30 AI054907 (Campbell) 05/15/03-04/30/09
NIH/NIAID
University of Colorado Center for AIDS Research
This application supports research related to HIV infection and its complications at the University of Colorado and collaborating sites.

R01 AI064029-02 (Anderson) 3/15/05-2/28/10
NIH/NIAID
Sex- and disease-dependent nucleoside analog toxicity
The major goals of the project are to compare the intracellular concentrations of nucleoside analog triphosphates in men versus women and subjects with according to HIV disease status (healthy volunteers, advanced HIV, versus less-advanced HIV). High intracellular concentrations will be correlated with markers of toxicity.

R21 HD051450 (Connick) 09/28/06-08/31/09
NIH/NIAID
Sex Differences in Plasma HIV-1 RNA Concentrations
This is a project to investigate whether either sex differences in CCR5 expression and/or sex differences in intracellular production of HIV-1 RNA account for sex differences in plasma HIV-1 RNA concentrations.

Completed

(MaWhinney) 9/17/07-9/16/08
NSF
Sabbatical grant: Statistical Methodology and Applications to HIV/AIDS Immunologic and Virologic Outcomes
BIOGRAPHICAL SKETCH

NAME  
Lisa A. Miller

POSITION TITLE  
Division Director, Disease Control and Environmental Epidemiology

EDUCATION/TRAINING

<table>
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<th>INSTITUTION AND LOCATION</th>
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<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of Minnesota, Minneapolis, MN</td>
<td>BS</td>
<td>1985</td>
<td>Consumer Food Science</td>
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<tr>
<td>University of Minnesota, Minneapolis, MN</td>
<td>MD</td>
<td>1989</td>
<td>Medicine</td>
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<tr>
<td>Univ of CO Health Sciences Ctr, Denver, CO</td>
<td>MSPH</td>
<td>1993</td>
<td>Public Health</td>
</tr>
<tr>
<td>Univ of CO Health Sciences Ctr, Denver, CO</td>
<td>Residency</td>
<td>1991-93</td>
<td>General Preventive Medicine</td>
</tr>
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</table>

Positions and Honors

4/03-present  
Division Director, Disease Control and Environmental Epidemiology Division, Colorado Department of Public Health and Environment, Denver, CO

11/97-present  
Medical Director, Colorado Responds to Children with Special Needs, Colorado Department of Public Health and Environment, Denver, CO

8/01-1/02  
Acting Chief Medical Officer and Acting State Epidemiologist, Colorado Department of Public Health and Environment, Denver, CO

11/93-11/97  
Medical Epidemiologist, Colorado Department of Public Health and Environment, Denver, CO

3/93-8/93  
Medical Epidemiologist/Preventive Medicine Resident, University of Colorado Health Sciences Center, Denver, CO

3/92-2/93  
Medical Epidemiologist/Preventive Medicine Resident, Colorado Department of Health, Denver, CO

9/91-2/92  
Research Physician/Preventive Medicine Resident, Denver Public Health Disease Control, Denver, CO

Honors

Medical School -Alpha Omega Alpha
College- National Merit Scholarship Finalist

Teaching Experience

Adjoint Assistant Professor, University of Colorado Denver, Department of Pediatrics

Adjoint Assistant Professor University of Colorado Denver, Colorado School of Public Health Department of Epidemiology

Selected peer-reviewed publications


BIOGRAPHICAL SKETCH

NAME
Morrato, Elaine Hornberger

POSITION TITLE
Assistant Professor of Pediatrics; Health Systems, Policy & Management; and Clinical Pharmacy

EDUCATION/TRAINING

<table>
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<tbody>
<tr>
<td>Purdue University</td>
<td>B.S.</td>
<td>1988</td>
<td>Biology (Honors)</td>
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<tr>
<td>Johns Hopkins University</td>
<td>M.P.H.</td>
<td>2003</td>
<td>Public Health</td>
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<tr>
<td>Johns Hopkins University</td>
<td>Dr.P.H.</td>
<td>2006</td>
<td>Epidemiology</td>
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<tr>
<td>University of Colorado Denver</td>
<td>Fellowship</td>
<td>2004-2006</td>
<td>Pharmaceutical Outcomes Research</td>
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</table>

Positions and Honors

1993-1994 Senior Scientist, Global Market Research Team Leader, Over-the Counter Cholesterol-Lowering Drugs, Health Care Product Development, Procter & Gamble, Cincinnati, OH.
1994-1997 Section Head, North American Technical Brand Manager, Gastrointestinal and Antibiotic Drugs, Pharmaceutical Division, Procter & Gamble, Cincinnati, OH.
1996-1997 Section Head, U.S. Launch Team Leader, Anti-Ulcer Drug, Pharmaceutical Division, Procter & Gamble, Cincinnati, OH.
1997-2000 Section Head, Global Phase IIIb/IV Project Leader, Cardiac Technical Brand Manager, Pharmaceutical Division, Procter & Gamble, Cincinnati, OH.
2000-2002 Section Head, Global Phase III Project Leader, Cardiovascular New Drug Development, Pharmaceutical Division, Procter & Gamble, Cincinnati, OH.
2004-2005 Section Head, Global Risk Management Team Leader, Cardiovascular New Drug Development, Pharmaceutical Division, Procter & Gamble, Cincinnati, OH.
2004-2005 Section Head, Global Risk Management Team Leader, Cardiovascular New Drug Development, Pharmaceutical Division, Procter & Gamble, Cincinnati, OH.
2006-2008 Assist. Professor in Pediatrics, School of Medicine, University of Colorado Denver, Aurora, CO.
2006-2008 Assist. Professor in Clinical Pharmacy, School of Pharmacy, University of Colorado Denver, Aurora, CO.
2006-2008 Assist. Professor in Health Systems, Management & Policy, School of Public Health, University of Colorado Denver, Aurora, CO.

Other Experience and Professional Memberships

2002-2003 Student Research Associate, Office of Drug Safety, U.S. Food and Drug Administration, Rockville, MD.
2006-2007 Co-Chair, Policy Advocacy Working Group, Retrospective Database Special Interest Group, International Society for Pharmacoeconomics and Outcomes Research
2007-present American Diabetes Association
2004-present International Society for Pharmacoepidemiology
2006-present Sr Methodologist, Children’s Outcomes Research Program, Children’s Hospital, Aurora, CO.
2007-present Consultant to the Risk Communication Advisory Committee, U.S. Food and Drug Administration, Rockville, MD.
2008  Scientific and Advisory Review Committee (SARC) of The Children’s Hospital (TCH) Clinical Translational Research Center (CTRC) of the Colorado Clinical Translational Sciences Institute (CCTSI)
2008  Board Certification in Public Health, National Board of Public Health Examiners

Honors
2006  Delta Omega Honorary Society in Public Health
2003  Master of Public Health Capstone Award for Outstanding Achievement, Johns Hopkins, Bloomberg School of Public Health
1987  Phi Beta Kappa, Purdue University

Selected peer-reviewed publications


**Research Support**

*Active*

Investigator-initiated research grant, Dillon (PI)  
American College of Surgeons  
The Children’s Hospital (Denver, CO)  
Pediatric National Surgical Quality Improvement Program (NSQIP)  
National registry of pediatric surgical admissions and 30-day mortality and morbidity outcomes. Risk-adjusted outcomes will be used to identify quality improvement priorities.  
Role: Co-Investigator

Investigator-initiated research grant, Kempe (PI)  
The Children’s Hospital Research Institute  
9/06 – 12/11

*Completed*

Investigator-initiated research grant, Morrato (PI)  
Pfizer, Inc.  
9/06 – 12/08

Impact of an FDA warning on metabolic screening for patients receiving atypical antipsychotic drugs. Retrospective cohort study evaluating the impact of FDA diabetes warnings and Consensus recommendations from the American Diabetes Association-American Psychiatric Association Consensus on glucose and lipid testing in commercially-insured and Medicaid patients initiating second-generation antipsychotic drugs.  
Role: Principal Investigator

Children’s Outcome Research Program

Evaluation of surgical outcomes in general and orthopedic pediatric surgery using national population-based administrative datasets and qualitative and survey research methods. Findings will be used to identify opportunities to reduce disparities in surgical outcomes.  
Role: Co-Investigator

MO1-RRO0069  
Morrato (PI)  
NCRR, NIH  
10/07 – 9/08

Additional support from the Procter & Gamble Company and Delta Dental Foundation Frontier Center

Periodontal Health in Adolescents with Type 1 Diabetes Mellitus

Prospective cohort study investigating the prevalence of gingivitis and periodontitis, the frequency and type of oral hygiene behavior, and the level of periodontal health knowledge in adolescents (ages 12-19 years) with type 1 diabetes mellitus in comparison to similar youth without diabetes. A secondary objective is to investigate the correlation between periodontal health and levels of systemic inflammation markers and cardiovascular risk factors.  
Role: Principal Investigator
U54 Albino (PI) 10/07 – 9/08
NIDCR, NIH
Center for Native Oral Health Research (CNOHR)
Community-based participatory research to reduce oral health disparities, specifically Early Childhood Caries, in American Indians.
Role: Consultant

Summer Epidemiology Program Fund  Morrato (PI) 11/05 - 12/06
Johns Hopkins Bloomberg School of Public Health
Drug Risk Communication: Physician Perceptions
Qualitative research interviews exploring physician perceptions of how drug safety risk is communicated and sources of information they use to stay up-to-date on drug safety knowledge. Antidepressant case examples were used to evaluate the impact risk communication had on specific prescribing patterns and clinical care.
Role: Principal Investigator

Investigator-initiated research grant  Valuck (PI) 5/06 - 11/06
Eli Lilly and Company
Impact of the FDA Black Box Warning for Antidepressants
Retrospective cohort study investigating the impact of FDA suicidality warnings on use of antidepressant drugs on depression care in pediatric and adult patients with major depression disorder using administrative claims data from a national database of managed care plans.
Role: Co-Investigator
BIOGRAPHICAL SKETCH

NAME
Tracy L Nelson

POSITION TITLE
Associate Professor

EDUCATION/TRAINING

<table>
<thead>
<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>Colorado State University, Fort Collins, CO</td>
<td>B.S.</td>
<td>1991</td>
<td>Sports Medicine</td>
</tr>
<tr>
<td>University of Northern Colorado, Greeley, CO</td>
<td>M.P.H.</td>
<td>1993</td>
<td>Public Health</td>
</tr>
<tr>
<td>The Pennsylvania State University, Univ. Park, PA</td>
<td>Ph.D.</td>
<td>1998</td>
<td>Biobehavioral Health</td>
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<tr>
<td>The University of North Carolina, Chapel Hill, NC</td>
<td>Post-doctoral</td>
<td>1999</td>
<td>Cardiovascular Epidemiology</td>
</tr>
</tbody>
</table>

Positions and Honors:

1991-93 Graduate Research Assistant, Department of Community Health and Nutrition, University of Northern Colorado
1992-93 Community Health Educator, American Heart Association, Colorado Affiliate
1994-98 Graduate Research Assistant, Department of Biobehavioral Health, The Pennsylvania State University
1997 Teaching Assistant, Department of Biobehavioral Health, The Pennsylvania State University
1998-99 NHLBI Post-doctoral Fellow, Department of Epidemiology, Cardiovascular Epidemiology, School of Public Health, University of North Carolina at Chapel Hill
1999-2005 Assistant Professor, Department of Health and Exercise Science, Colorado State University
2005- Associate Professor, Department of Health and Exercise Science, Colorado State University
2001-2007 Adjunct, Assistant Professor, Department of Preventive Medicine and Biometrics, University of Colorado at Denver and Health Sciences Center
2007-2008 Adjunct, Associate Professor, Department of Preventive Medicine and Biometrics, University of Colorado at Denver and Health Sciences Center
2008- Associate Professor, Colorado School of Public Health

Honors:
1995-98 Institutional National Research Service Award (NCHHD Pre-doctoral) in Biobehavioral Health, The Pennsylvania State University
1998-99 Institutional National Research Service Award (NHLBI Post-doctoral) in Cardiovascular Epidemiology, The University of North Carolina at Chapel Hill
2000 Inducted into Phi Kappa Phi Honor Society (Faculty Initiate)
2003 “Excellence in Education” Teaching award presented by CSU Athletic Department
2004 Tenure Track Faculty Scholarly Excellence Award – College of Applied Human Sciences - CSU

B. Selected Peer-Reviewed Publications:


C. Research Support

**Active**

Grant-in-Aid Nelson (PI) 1/01/09 – 12/31/11

American Heart Association

Association of the Lp-PLA2 gene with cardiovascular mortality among Hispanics and Non-Hispanic whites

This study aims to investigate genetic variability in the Lp-PLA2 gene (*PLA2G7*) and its association with levels of Lp-PLA2. We will also investigate the genes longitudinal association with cardiovascular mortality.

1 K01 DK064647-01 Nelson (PI) 7/01/03 – 6/30/08* (extended 6/30/09)

NIH-NIDDK no-cost extension

Gene-Environment interactions in obesity and diabetes

This study aims to investigate gene-environment interactions in the development of obesity and diabetes in Hispanics and non-Hispanic whites.

COL 00762 Nelson (PI) 07/01/06-06/30/09

USDA-COlorado State University Agricultural Experiment Station

Effect of dietary fat type on emerging cardiovascular risk factors in individuals with impaired glucose tolerance or type 2 diabetes.

This study aims to investigate the role of dietary alpha-linolenic acid, eicosapentaenoic acid, docosahexaenoic acid on measures of flow mediated dilation and subclinical inflammation in a pre-diabetic population.

**Completed**

Beginning Grant-in-Aid Nelson (PI) 1/1/03-12/31/04

American Heart Association

Effect of dietary fat on inflammation, endothelial function, and insulin resistance in Hispanics and non-Hispanic whites.

This study aims to investigate the role of dietary alpha-linolenic acid on endothelial function and subclinical inflammation in a biethnic population

COL 00762 Nelson (PI) 07/01/02-06/30/05

USDA-Colorado Agricultural Experiment Station

Effect of dietary fat type on cardiovascular risk factors in human obesity

This study aims to investigate the role of dietary alpha-linolenic acid on subclinical inflammation in obese humans.
BIOGRAPHICAL SKETCH

NAME Norris, Jill M., Ph.D.
POSITION TITLE Professor

EDUCATION/TRAINING

<table>
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<th>DEGREE</th>
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<tr>
<td>Colgate University, Hamilton, NY</td>
<td>B.A.</td>
<td>1982-86</td>
<td>Biology</td>
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<tr>
<td>Univ. of Pittsburgh Graduate School of Public</td>
<td>MPH</td>
<td>1986-88</td>
<td>Epidemiology</td>
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<tr>
<td>Health, Pittsburgh, PA</td>
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<tr>
<td>Univ. of Pittsburgh GSPH, Pittsburgh, PA</td>
<td>PhD</td>
<td>1988-90</td>
<td>Epidemiology</td>
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</table>

Positions and Honors

1990-97 Assistant Professor, University of Colorado Health Sciences Center (UCDHSC), Department of Preventive Medicine and Biometrics
1992-2002 Director, Doctoral Program in Epidemiology, University of Colorado Health Sciences Center
1997-2004 Associate Professor, University of Colorado Health Sciences Center, Department of Preventive Medicine and Biometrics
2000 Visiting Scientist, Genetic Epidemiological Methods, INSERM U155 (Dr. F. Clerget-Darpoux)
2000-current Director, Genetic Epidemiology Program, UCDHSC
2002-2006 Head, Section of Epidemiology and Community Health, Department of Preventive Medicine and Biometrics
2004-current Professor, University of Colorado Health Sciences Center, Department of Preventive Medicine and Biometrics, Now: Colorado School of Public Health, University of Colorado Denver, Department of Epidemiology

Honors

1986 Phi Beta Kappa Honor Society
1987-1990 National Research Service Award Pre-doctoral Fellowship
1988 Delta Omega Public Health Honor Society (Omicron Chapter)
1990 Society for Epidemiological Research Student Workshop
1996 American Diabetes Association Golden Ball Honoree
2000 Recipient of INSERM Poste Orange Fellowship
2008 University of Colorado Graduate School Dean’s Mentoring Award

Selected peer-reviewed publications


Engelman CD, Fingerlin TE, Langefeld CD, Hicks PJ, Rich SS, Wagenknecht LE, Bowden DW, Norris JM.

Research Support
Active
RO1-DK49654 Norris (PI) 05/97 - 08/12
NIH-NIDDK Nutritional Etiology of pre-diabetic autoimmunity
This study will investigate the relationship between nutritional components of early diet, with a focus on anti-oxidants and vitamins, and the presence of beta-cell autoimmunity in children at risk for IDDM.
Role: Principal Investigator

RO1-DK32493 Rewers (PI) 07/93 - 06/11
NIH-NIDDK Natural history of pre-diabetic autoimmunity
The major goal of this project is: 1) To identify and prospectively follow a cohort of children aged 0-10 years who are at a 12-40 times increased risk of IDDM compared to the general population. 2) To determine, in this cohort, the age-specific incidence of islet cell autoantibodies (ICA) development, up to age of 8 years.
Role: Co-Investigator

RO1-DK50979 Rewers (PI) 10/95 - 09/00, 10/01 - 03/11
NIH-NIDDK Genetic and Environmental Causes of Celiac Disease
The major goal of this project is to identify and follow a cohort of children at risk for celiac disease in order to investigate the environmental and genetic risk factors for developing celiac disease and celiac disease autoimmunity.
Role: Investigator
Environmental Causes of Type 1 Diabetes
The major goal of this project is to identify the environmental causes of type 1 diabetes autoimmunity and type 1 diabetes itself. This site is one of 6 sites around the world that will be following high risk children from birth.
Role: Co-Chair of the Dietary Data Collection Committee

IRAS Family Study
The major goal of this project is to identify 1) the genetic and environmental determinants of insulin sensitivity, and visceral adiposity; and 2) the extent to which insulin sensitivity, and visceral obesity share genetic and environmental influences.
Role: Principal Investigator

RA-related autoantibodies in healthy FDR of RA Patients
The major goal of this study is to measure the prevalence and risk factors for the appearance of RA-related autoantibodies in high risk adults.
Role: Co-investigator

RA associated autoimmunity in high risk populations
This is project #2 in an NIH Cooperative Study Group in Autoimmune Disease Prevention, U19-AI50864 (Eisenbarth, PI). The goal is to determine the age-specific prevalence of autoimmunity associated with rheumatoid arthritis, and to determine predictors of this autoimmunity.
Role: Co-Investigator of the project and responsible for study design, study conduct, and analysis/interpretation/presentation of the data.
NAME: Lorraine G. Ogden

POSITION TITLE: Assistant Professor

EDUCATION/TRAINING

<table>
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<tr>
<td>Princeton University, Princeton, NJ</td>
<td>BA</td>
<td>1993</td>
<td>Psychology</td>
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<tr>
<td>University of Pittsburgh, Pittsburgh, PA</td>
<td>MS</td>
<td>1996</td>
<td>Biostatistics</td>
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<tr>
<td>Tulane University, New Orleans, LA</td>
<td>PhD</td>
<td>2002</td>
<td>Biostatistics</td>
</tr>
</tbody>
</table>

Positions and Honors

1993-1994 Research Assistant, Department of Psychology, Princeton University, Princeton, NJ
1994-1996 Research Associate, Department of Family and Psychosocial Studies, Western Psychiatric Institute and Clinic, Pittsburgh, PA
1996 Teaching Assistant, Department of Biostatistics, University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA
1997-1998 Teaching Assistant, Department of Biostatistics, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA
1998-1999 Course Instructor – Introduction to BMDP, Department of Biostatistics, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA
1998-2000 Course Instructor – Introduction to SAS, Department of Biostatistics, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA
1998-2001 Biostatistician, Department of Epidemiology, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA
2002-Present Assistant Professor, Department of Biostatistics and Informatics, Colorado School of Public Health, University of Colorado Denver (formerly Department of Preventive Medicine and Biometrics, University of Colorado Health Sciences Center) Aurora, CO

Honors

2008 Excellence in Teaching Award, Department of Preventive Medicine and Biometrics, School of Medicine, University of Colorado Denver
2003 Delta Omega Honorary Society in Public Health (Eta Chapter)
2000 Dean of School of Public Health and Tropical Medicine Award for Excellence in Research and Presentation by a Public Health Doctoral Student

Selected peer-reviewed publications


**Research Support**

**Active**

R01DK071692 (Wyatt) 08/01/06-07/31/11
NIH-NIDDK

*Using the Energy Gap to Prevent Weight Regain*

Role: Co-Investigator
R01 DK068001 (Dabelea) 09/14/05-06/30/10
NIH-NIDDK
Exploring the Fetal Origins Hypothesis among Diverse Youth
Role: Co-Investigator
Completed

R37DK042549 (Hill) 5/01/1990-7/31/08
Funding Source: NIH/NIDDK
Diet and Physical Activity Interactions in Obesity
Role: Statistician

R01 HL061753 (Rewers) 9/1/99-6/30/08
NIH, NHLBI
Coronary Artery Calcification in Type 1 Diabetes
Role: Co-Investigator

R01 HL079611 (Rewers) 10/1/04-08/31/08
NIH, NHLBI
Determinants of Accelerated CVD in Type 1 Diabetes
Role: Co-Investigator

PN200310-245 (Hill) 1/01/2004 – 7/31/2006
McNeil Nutritionals
The Effectiveness of a Fiber Drink on Satiety and Weight Loss
Role: Statistician

NIH/NCRR
General Clinical Research Center
Role: Statistician
BIOGRAPHICAL SKETCH

NAME
Orton, Heather D.

POSITION TITLE
Instructor

EDUCATION/TRAINING

<table>
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<tr>
<th>INSTITUTION AND LOCATION</th>
<th>DEGREE</th>
<th>YEAR(s)</th>
<th>FIELD OF STUDY</th>
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<tbody>
<tr>
<td>University of Colorado at Colorado Springs, Colorado Springs, CO</td>
<td>B.S.</td>
<td>1994</td>
<td>Applied Math/ Psychology</td>
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<tr>
<td>University of Colorado Denver, Denver, CO</td>
<td>M.S.</td>
<td>2002</td>
<td>Biostatistics</td>
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<td>University of Colorado Denver, Denver, CO</td>
<td>Ph.D.</td>
<td>2008</td>
<td>Epidemiology</td>
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Positions and Honors

1995            Software engineer/analyst, CTA Incorporated, Colorado Springs, CO
2000-2008       Statistical Analyst, American Indian and Alaska Native Programs, University of Colorado Denver, School of Medicine, Department of Psychiatry, Denver, CO
2009-present    Instructor, Centers for American Indian and Alaska Native Health, University of Colorado Denver, School of Public Health, Department of Epidemiology, Aurora, CO

Honors and Awards

1999-2000       Maurice-Davies Award (Masters Student of the Year, Department of Preventive Medicine and Biometrics)
2004-2005       Colorado Department of Public Health and Environment (Denver, CO) Graduate Fellowship

Selected peer-reviewed publications


**Research Support**

*Completed*

DHHS ACF 90PH0012/01 Libby (PI) 10/01/2006 – 02/29/2009

The Epidemiology of Depression and Substance Use: Adolescents in Child Welfare

This project conducts secondary analysis of a nationally representative longitudinal sample of youth involved with Child Welfare and their caregivers to characterize the patterns and development of mental health, alcohol and drug problems among adolescents involved with Child Welfare systems.

Role: Project Manager

Agency for Healthcare Research and Quality (AHRQ), 09/07 - 12/08 National Institutes of Health (NIH) Pace (PI)

The Distributed Ambulatory Research in Therapeutics Network (DARTNet)

The major goal of this project is to build a prototype federated network of electronic health record (EHR) data from eight organizations representing over 200 clinicians and over 350,000 patients (i.e., the Distributed Ambulatory Research in Therapeutics Network, or DARTNet). The prototype system will be used to explore how currently available EHR data can be used to supplement data from large administrative datasets in order to better answer questions concerning the safety and effectiveness of medications and medical devices, including use of point of care data collection techniques.

Role: Statistician

American Foundation for Suicide Prevention (AFSP) 07/07 - 08/08

Distinguished Investigator Award Valuck (PI)

Impact of Antidepressant Discontinuation on Risk of Suicide Attempt

The major goal of this project is to quantify differential rates of suicide attempt among users of antidepressant drugs in relation to phase of drug therapy (pre-drug therapy, initiation phase, titration phase, continuation/maintenance phase, discontinuation/tapering phase, and 'off' periods). Relative risks of suicide attempt by phase of therapy will be generated and compared with previous empirical findings.

Role: Statistician
Chronic Stressors and Drug Abuse Problems in Two American Indian Populations
The major goal of this project is to examine the relationship between chronic stressors such as poverty and violence and drug use and disorders in two American Indian populations that permit cultural variation.
Role: Data Analyst.

Ethnic minority children in public mental health.
This project examines the use of psychiatric emergency services by youth in California's public specialty mental health system from 1998-2001, and assesses the relationship between continuity of care in the community, ethnicity, and foster care status relative to crisis care. Role: Statistician.

Mental Health Care and Foster Care System Interaction.
The major goal of this project is to examine the utilization of public sector specialty mental health care and child welfare out-of-home (foster care) services by California children 1998-2001.
Role: Data Analyst.

Substance Abuse and American Indian Child Welfare.
Analyze national data to explore substance abuse needs of American Indian/Alaska Native parents involved with child welfare compared to other racial/ethnic groups.
Role: Data Analyst.

Treating Depression in Substance Dependent Teens
This is a 16-week randomized placebo-controlled trial of fluoxetine vs. placebo treatment for depression plus cognitive behavioral therapy (individual, weekly) for substance abuse in adolescents with DSM IV conduct disorder, major depression and substance use disorders, examining safety/efficacy, SUD outcomes for depression treatment responders, as well as costs and cost effectiveness.
Role: Data Analyst.
NAME
Reynolds, Stephen J.

POSITION TITLE
Professor

INSTITUTION AND LOCATION

<table>
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<th>DEGREE</th>
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<tr>
<td>Carleton College, Northfield, MN</td>
<td>BA</td>
<td>1977</td>
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<td>University of Minnesota, Minneapolis, MN</td>
<td>MS</td>
<td>1983</td>
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<tr>
<td>University of Minnesota, Minneapolis, MN</td>
<td>PhD</td>
<td>1990</td>
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Positions and Honors

1991-1999 Assistant Professor (1991-96), Associate Professor (1996-99), Dept of Preventive Medicine and Environ Health, College of Medicine, The University of Iowa, Iowa City, IA
1993-2001 Associate Director for Laboratory Operations, Institute for Rural and Environ Health, The University of Iowa
1995-2001 Director, Environ Assessment Facility, Environ Health Sci Res Ctr, The University of Iowa
1995-2001 Director, Industrial Hygiene Program, Div of Occup and Environ Health, The University of Iowa
1997-2001 Director, WorkSafe Iowa, The University of Iowa
1999-2001 Associate Professor, Dept of Occup and Environ Health, College of Public Health, The University of Iowa
2000-2001 Professor, Dept of Occup and Environ Health, College of Public Health, The University of Iowa
2001-2002 Assoc. Professor, Dept of Env. Rad. Health Sci., College Veterinary Medicine, Colorado State University
2001-2002 Deputy Director, High Plains Intermountain Center for Agricultural Health and Safety
2002- Director, High Plains Intermountain Center for Agricultural Health and Safety
2002- Adjunct Professor, University of Saskatchewan, College of Medicine
2003- Professor, Department of Environmental and Radiological Health Sciences, Colorado State University
2005- Head, Occupational and Environmental Health Section, Department of Environmental and Radiological Health Sciences, Colorado State University
2007 Deputy Director Mountain and Plains Education Research Center

Other Experience and Professional Memberships

1988- Certified Industrial Hygienist, # 4121
1992-2001 IA-IL Chapter of AIHA (Treasurer, 1993-94; President Elect, 1994-95; President, 1995-96; Past President, 1996-97, Board Member);
1996-2001 Member, Iowa Governor’s Occupational Safety and Health Advisory Council
1997-2007 ACGIH Agricultural Safety and Health Committee, Member
1999-2007 ACGIH Bioaerosol Committee, Member
1999-2003 Board of Directors, Farm Safety for Just Kids,
1999- Peer reviewer for: AIHA Journal; Indoor Air; Environ Sci Technol; J Occup Environ Hyg
(Ed Advisory Board),J Agromedicine (Ed Board) Ann Agric Environ Med (International
1999- Grant Reviewer for: National Research Council, Office of International Affairs, CRSP
Grants Program, CDC/NIOSH Training Grants
2002 CDC/NIOSH National Childrens Agricultural Center, National Construction Centers,
ERCs (Chair).

Honors
2008 – 2011 American Conference of Governmental Industrial Hygienists - Vice Chair Elect,
Vice Chair, Chair, Past Chair
2007 Fulbright Senior Scholar – Occupational and Environmental Medicine in
Armenia
2005 AIHA Outstanding Committee Award, Chair International Affairs Committee
1999 Senior Engineer/Scientist of the Year, Quad City Engineering and Science Council (representing 34 professional engineering and related associations in the region, Iowa)
1998 Iowa Governor’s Award for Volunteerism, Iowa
1994 Elected to Membership, Delta Omega Honorary Public Health Society
1994 – 1996 National Academy of Sciences Young Investigator Program

Selected peer-reviewed publications
(Selected from a total of 80 peer reviewed articles)


C. Research Support

Active

2U50-OH008085-04A1 Reynolds (PI) 08/1/07 - 08/31/11
CDC/NIOSH
High Plains Intermountain Center for Occupational Health and Safety-Administrative Core) Conduct research, education, outreach, prevention and intervention to reduce illness, injury, and fatalities among agricultural population in Federal Region VIII (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming).
Role: Principal Investigator / Director – responsible for overall leadership and implementation

2U50-OH008085-04A1 Reynolds (PI) 08/1/07 - 08/31/11
CDC/NIOSH
HICAHS – Prospective Study of Occupational Lung Disease and Endotoxin Exposure in New Dairy Workers
Research – Study of endotoxin adaptation response, measuring progression of pulmonary and immune responses relative to exposure and genetic factors.
Role: Principal Investigator / Director – responsible for overall leadership and implementation

1T42OH009229-01 Reynolds (PI at CSU) [Lee Newman, PI at UCDHSC] 07/1/07 - 06/30/10
CDC/NIOSH
Mountain and Plains Education Research Center
Graduate training support for occupational medicine, industrial hygiene, ergonomics, health physics, and occupational health psychology. Continuing education and outreach.
Role: Principal Investigator at CSU / Center Deputy Director– responsible for overall leadership and implementation, and Director of Industrial Hygiene Program.
BIOGRAPHICAL SKETCH

NAME: Marci K. Sontag

POSITION TITLE: Assistant Professor

EDUCATION/TRAINING

<table>
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<th>DEGREE</th>
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<tr>
<td>University of Denver, Denver, CO</td>
<td>B.S.</td>
<td>1990 – 1994</td>
<td>Mathematics</td>
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<td>University of Colorado, Denver, CO</td>
<td>M.S.</td>
<td>1994 – 1996</td>
<td>Biometrics</td>
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<tr>
<td>University of Colorado, Denver, CO</td>
<td>Ph.D.</td>
<td>1997 – 2004</td>
<td>Analytic Health Sciences - Epidemiology</td>
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Positions and Employment

The University of Colorado Health Sciences Center and The Children's Hospital, Denver, Colorado

1996-1998 Professional Research Assistant
1998-2004 Senior Professional Research Assistant
2004-2007 Instructor, Preventive Medicine and Biometrics
2007 - present Assistant Professor, Epidemiology, Colorado School of Public Health, University of Colorado Denver, Denver, Colorado

Committee Work

State of Colorado Newborn Screening Advisory Committee
– Member
January 2000 – present

Mountain West Cystic Fibrosis Consortium Steering Committee
– Chair
October 2006 - present

Cystic Fibrosis Foundation Therapeutics Development Network Research Coordinator Committee
– Chair
October 1999 – April 2002

Cystic Fibrosis Foundation National Patient Registry Committee
– Member
April 2000 – April 2002

– June 2000 – present

Selected peer-reviewed publications


**Review articles, book chapters, letters, and other publications**


Appendix F: EXTERNAL REVIEWER’S COMMENTS

Comments on University of Colorado Denver
“Proposal for a Master of Science in Epidemiology Degree”

David A. Savitz, Ph.D
Director, Disease Prevention and Public Health Institute
Mount Sinai School of Medicine
New York, New York

The description of the plans for a Master of Science degree program at the Colorado School of Public Health are very well defined, reflecting careful thought regarding all aspects of the issue. The market for graduates, source of students, resource needs from faculty, and finances have all been considered and the resulting proposal is compelling. The academic content of the program is central, and the course requirements are consistent with the stated intent of the program and the roles for the graduates of the program. I see no significant deficiencies or limitations in the proposal, but do offer some points for consideration in regard to clarity:

1) Given the justifiably modest volume of students, 3-5 per year, it seems questionable whether this track will justify and support entire new courses. Perhaps all the courses that comprise the program are already in place for other degree students, but some clarification on that point would be reassuring. For example, to offer a summer curriculum to serve these students alone would be inefficient.

2) The distinction between the MS in Epidemiology and the MPH in Epidemiology (or is it a generalist MPH or a concentration in epidemiology?) could be sharpened. The exact course tradeoffs should be noted, i.e., MS does NOT require the following, but DOES require these beyond what the MPH involves. Also, differences in the thesis requirements might be indicated.

3) The argument that this will not simply siphon off a few students each year from the large MPH program might be developed further. It was not clear why that would not be the case, i.e., that you are tapping a distinct market from those who are drawn to the MPH. In my experience, there is a spectrum of research vs. practice orientation, and the MS will draw the most research oriented. This may not be a bad situation, tailoring the program towards a distinct audience, but it might affect revenue projections.

4) Under “Admission Standards,” requiring Differential Calculus seems a bit extreme. Perhaps “evidence of proficiency in mathematics” or something to that effect would be wiser.

5) Engaging community representatives on the Admissions Committee may not be the best idea for either the representative who serves or the program. There are many ways in which such individuals can be of help but it’s not clear that this structured, administrative activity is one of them.

6) In listing the Program Faculty, you might make a distinction between those who you consider to be qualified as primary research advisors and those who would likely play a supporting role. If all are considered candidates to provide such guidance, that’s fine, but you should clarify what it means other than serving as a resource.

7) In noting on page 12 the relationships with Colorado State University and University of Northern Colorado, it is not clear what role they would play exactly – providing faculty, research opportunities and placements, etc.