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REVIEW
Our department faculty participated as lead investigators or co-investigators for biomedical research related grants and contracts to MSU totaling $9,362,832. Approximately 73% of these funds were from the National Institutes of Health (Figure 1).
Our department faculty's extramural awards (funds directly aligned with our department) totaled $6,926,490. Approximately 64% of these funds were from the National Institutes of Health (Figure 2).
Much of our research was collaborative and involved inter-disciplinary and inter-department or inter-university research teams. Approximately 72% of our research funds included co-investigators in other MSU departments and/or at other universities (Figure 3).
## EXTRAMURAL RESEARCH GRANTS

<table>
<thead>
<tr>
<th><strong>Funding Agency</strong></th>
<th><strong>Mechanism</strong></th>
<th><strong>Title</strong></th>
<th><strong>Investigators</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>NATL INST OF HEALTH - NIH/PHS</td>
<td>K99 Career Transition Award</td>
<td>Using Pre-Clinical Biomarkers and Epidemiological Models to Assess the Effects of Cannabinoids on Disease</td>
<td>Alshaarawy, Omayma; Anthony, James; Olson, Lawrence</td>
</tr>
<tr>
<td>NATL INST ON DRUG ABUSE - NIH/PHS</td>
<td>R25 Education - Public Service</td>
<td>National Hispanic Science Network Early Stage Career Mentoring for NIDA Research (ESCM-NIDA)</td>
<td>Anthony, James</td>
</tr>
<tr>
<td>NATL INST ON DRUG ABUSE - NIH/PHS</td>
<td>K05 Senior Scientist Award</td>
<td>Drug Dependence in Epidemiology and Enviromics</td>
<td>Anthony, James</td>
</tr>
<tr>
<td>NATL INST ON DRUG ABUSE - NIH/PHS</td>
<td>T32 Education - Traineeships</td>
<td>Training Program in Drug Dependence Epidemiology</td>
<td>Anthony, James</td>
</tr>
<tr>
<td>University of Colorado - Denver/NIH</td>
<td>Subcontract Research</td>
<td>Implementing Sustainable Diabetes Prevention and Self-Management in Primary Care</td>
<td>Barry, Henry; Luo, Zhehui; Maiti, Tapabrata</td>
</tr>
<tr>
<td>USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE</td>
<td>Research</td>
<td>Effectiveness of Differing Levels of Support for Family Mealtimes on Obesity Prevention among Head Start Preschoolers</td>
<td>Brophy-Herb, Holly; Horodynski, Mildred; Kerver, Jean; Contreras, Dawn</td>
</tr>
<tr>
<td>TEXAS A &amp; M/MONSANTO CO.</td>
<td>Education - Fellowship/Scholarships/WorkStudy/FinancialAid</td>
<td>Beachell-Borlaug International Scholar - Marco Lopez-Cruz</td>
<td>de los Campos, Gustavo</td>
</tr>
<tr>
<td>UNIVERSITY OF FLORIDA/NATIONAL SCIENCE FOUNDATION</td>
<td>Subcontract Research</td>
<td>Genome and Transcriptome Based Prediction, and Regulator Inference, of Molecular and Whole-Plant Phenotypes</td>
<td>de los Campos, Gustavo; Vazquez, Ana</td>
</tr>
<tr>
<td>ARVALIS Institut de vegetal</td>
<td>Research</td>
<td>Model and software for Analysis and Prediction of Agronomic Traits of Wheat Varieties in France using Molecular Markers &amp; Environmental Covariates (Phase III)</td>
<td>de los Campos, Gustavo; Vazquez, Ana</td>
</tr>
<tr>
<td>NATL INST OF HEALTH - NIH/PHS</td>
<td>R01 Research</td>
<td>Factors Affecting Prediction Accuracy of Complex Human Traits and Diseases</td>
<td>de los Campos, Gustavo; Vazquez, Ana</td>
</tr>
<tr>
<td>NATL INST OF HEALTH - NIH/PHS</td>
<td>R01 Research</td>
<td>Statistical Tools for Whole-Genome Prediction of Complex Traits and Diseases</td>
<td>de los Campos, Gustavo; Vazquez, Ana</td>
</tr>
<tr>
<td>PIG IMPROVEMENT COMPANY</td>
<td>Research</td>
<td>Data-analysis Tools and Pipelines for Bayesian Genomic Regression and Prediction in Pig Breeding Programs</td>
<td>de los Campos, Gustavo; Vazquez, Ana</td>
</tr>
<tr>
<td>UNIV ILL AT URBANA CHAMPAIGN/ENVIROEMENTAL PROTECTION AGENCY</td>
<td>Subcontract (P01) Research Program Projects</td>
<td>Novel Methods to Assess the Effects of Chemicals on Child Development</td>
<td>Gardiner, Joseph</td>
</tr>
<tr>
<td>UNIV ILL AT URBANA CHAMPAIGN/NIEH</td>
<td>Subcontract (P01) Research Program Projects</td>
<td>Novel Methods to Assess the Effects of Chemicals on Child Development</td>
<td>Gardiner, Joseph</td>
</tr>
<tr>
<td>Project Title</td>
<td>Funding Agency</td>
<td>Grant Type</td>
<td>Keywords</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------</td>
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<tr>
<td>WAYNE STATE UNIVERSITY/NIH Subcontract Research</td>
<td></td>
<td></td>
<td>Epidemiology of Late-Life Depression and Ethnicity Research Study</td>
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<tr>
<td>NATL INST OF HEALTH - NIH/PHS R01 Research</td>
<td></td>
<td></td>
<td>Study of Latinos-Investigation of Neurocognitive Aging (SOL-INCA)</td>
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<tr>
<td>NATL INST OF HEALTH - NIH/PHS R03 Research</td>
<td></td>
<td></td>
<td>Are Live Births Endogenous and Does it Matter?</td>
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<tr>
<td>NATL INST OF HEALTH - NIH/PHS K12 Research Career Programs</td>
<td></td>
<td></td>
<td>Building Interdisciplinary Research Careers in Women's Health at Michigan State</td>
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<tr>
<td>UNIVERSITY OF ROCHESTER/NIH Subcontract Research</td>
<td></td>
<td></td>
<td>A dose-escalation, safety and feasibility study of enteral levetiracetam for seizure control in pediatric cerebral malaria</td>
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<tr>
<td>AGENCY FOR HEALTHCARE RSCH &amp; QUAL -PHS R21 Research</td>
<td></td>
<td></td>
<td>Phenotype Modeling and Outcome Mapping for Pain Management Decision Support</td>
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<td>USDA - NATIONAL INSTITUTE OF FOOD AND AGRICULTURE Public Service</td>
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<td>Rural Health and Safety Education</td>
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<tr>
<td>NATL INST OF HEALTH - NIH/PHS R21 Research</td>
<td></td>
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<td>Breastfeeding Support and Weight Management for Black Women: A Dual Intervention</td>
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<td>BOSTON MEDICAL CENTER/NIH U01 Cooperative Agreement</td>
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<td></td>
<td>Neonatal Biomarkers in Extremely Preterm Babies Predict Childhood Brain Disorders</td>
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<tr>
<td>MICHIGAN DEPT OF EDUCATION Research</td>
<td></td>
<td></td>
<td>Conductive Education Evaluation Project (CEEP)</td>
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<tr>
<td>NATIONAL INSTITUTE OF DENTAL &amp; CRANIOFACIAL RESEARCH R03 Research</td>
<td></td>
<td></td>
<td>Analysis of Complex Caries Life Course Data in Inner City African- American Children</td>
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<tr>
<td>NATL INST OF HEALTH - NIH/PHS R01 Research</td>
<td></td>
<td></td>
<td>Rapid in-field malaria diagnosis, prognosis and monitoring using a mobile phone</td>
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<td>NATL INST OF HEALTH - NIH/PHS K01 Career Award</td>
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<td></td>
<td>Gene-Gene/Gene-Environment Interactions Associated with Nicotine Dependence</td>
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<td>UNIVERSITY OF COLORADO - DENVER/AHRQ Subcontract Research</td>
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<td>Maximizing Care Management Effectiveness in Primary Care</td>
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<tr>
<td>NATL INST OF HEALTH - NIH/PHS K01 Career Award</td>
<td></td>
<td></td>
<td>Pregnancy and beyond: windows into disparities in women's cardiovascular health</td>
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<td>NATL INST OF HEALTH - NIH/PHS R03 Research</td>
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<td></td>
<td>Economic conditions during pregnancy and birth outcomes</td>
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<tr>
<td>MICHIGAN DEPT OF HEALTH &amp; HUMAN SERVICES Research</td>
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<td>Integrated Care Assessment</td>
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<tr>
<td>MI DEPT COMMUNITY HEALTH Research</td>
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<td></td>
<td>Assessment of cost containment &amp; efficacy of services for Medicare/Medicaid eligible population of Michigan</td>
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<tr>
<td>NATL INST OF HEALTH - NIH/PHS T32 Education - Traineeships</td>
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<td>Training Program in Perinatal Epidemiology</td>
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<tr>
<td>Funding Organization</td>
<td>Project Type</td>
<td>Description</td>
<td>PI(s)</td>
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<tr>
<td>Regents of the University of Michigan</td>
<td>Research</td>
<td>The Michigan Bloodspot Environmental Epidemiology Project</td>
<td>Paneth, Nigel</td>
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<tr>
<td>UNIVERSITY OF MICHIGAN / UNIV RESEARCH CORRIDOR</td>
<td>Research</td>
<td>Integrated Proteomics and Genomics Analysis of Newborn Blood Spots</td>
<td>Paneth, Nigel</td>
</tr>
<tr>
<td>RESEARCH FOUNDATION OF CEREBRAL PALSY ALLIANCE</td>
<td>Research</td>
<td>Distinguished Research Award for Cerebral Palsy Research</td>
<td>Paneth, Nigel</td>
</tr>
<tr>
<td>NATL INST OF HEALTH - NIH/PHS</td>
<td>K01 Career Award</td>
<td>Strengthening Hispanic Families via NIDA Prevention Science</td>
<td>Parra Cardona, Jose (PI); Anthony, James; Bybee, Deborah; Fitzgerald, Hiram; Whitten, Pamela</td>
</tr>
<tr>
<td>UNIVERSITY OF WISCONSIN - MILWAUKEE/NIH</td>
<td>Subcontract Research</td>
<td>Life Course Energy Balance and Breast Cancer Risk in Black/White Women Under 50</td>
<td>Pathak, Dorothy; Houang, Richard; Olson, Lawrence</td>
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<tr>
<td>NATL INST CHILD HEALTH &amp; HUMAN DEV - NIH/PHS</td>
<td>R03 Research</td>
<td>Maternal Physical Activity during Pregnancy, Lipid Levels and Birth Weight</td>
<td>Pivarnik, James; Gardiner, Joseph; Kerver, Jean</td>
</tr>
<tr>
<td>NATL INST OF HEALTH - NIH/PHS</td>
<td>R21 Research</td>
<td>Viral Co-Infections in Cerebral Malaria: Preparing for Clinical Trials</td>
<td>Postels, Douglas; Seyedl, Karl; Li, Chenxi</td>
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<tr>
<td>CENTERS FOR DISEASE CONTROL AND PREVENTION</td>
<td>U10 Cooperative Agreement</td>
<td>Data Coordinating Center for Autism &amp; Other Developmental Disabilities: SEED II</td>
<td>Reed, Philip; Paneth, Nigel; Weismantel, David; Bonner, Joseph; Jones, Nicole; Kasten, Eric</td>
</tr>
<tr>
<td>MI DEPT COMMUNITY HEALTH</td>
<td>Research</td>
<td>Michigan Stroke Registry Consultation Project</td>
<td>Reeves, Mathew</td>
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<tr>
<td>US MEDICAL MANAGEMENT</td>
<td>Research</td>
<td>Development of risk stratification models in frail elderly patients</td>
<td>Reeves, Mathew</td>
</tr>
<tr>
<td>AMER HEART ASSOCIATION</td>
<td>Research</td>
<td>The Grand Rapids Area Prehospital Stroke (GRAPHPS) Registry: A Surveillance System to Improve Prehospital Stroke Care</td>
<td>Reeves, Mathew</td>
</tr>
<tr>
<td>VETERANS ADMINISTRATION</td>
<td>Research</td>
<td>Quality of Care Veterans with TIA and Minor Stroke</td>
<td>Reeves, Mathew</td>
</tr>
<tr>
<td>PATIENT-CENTERED OUTCOMES RESEARCH INSTITUTE</td>
<td>Research Contract</td>
<td>Improving Care Transitions for Acute Stroke Patients Through a patient-centered Home Based Case Management Program</td>
<td>Reeves, Mathew; Freddolino, Paul; Hughes, Anne; Woodward, Amand; Coursaris, Constantino; Swierenga, Sarah; Chen, Jiayian</td>
</tr>
<tr>
<td>AGENCY FOR HEALTHCARE RSCH &amp; QUAL - PHS</td>
<td>Research</td>
<td>Demonstration of a Community System of Care for Medicaid Insured Pregnant Women</td>
<td>Roman, Leeanne; Gardiner, Joseph; Luo, Zehui</td>
</tr>
<tr>
<td>SPECTRUM HEALTH SYSTEMS OF GRAND RAPIDS</td>
<td>Public Service</td>
<td>Strong Beginnings (Federal Healthy Start)</td>
<td>Roman, Leeanne; Raffo, Jennifer; Luo, Zehui</td>
</tr>
<tr>
<td>AMANA PHARMACEUTICALS CORP</td>
<td>Research</td>
<td>General Research</td>
<td>Saeed, A</td>
</tr>
<tr>
<td>MI DEPT COMMUNITY HEALTH</td>
<td>Research</td>
<td>GLRI Biomonitoring</td>
<td>Wirth, Julia</td>
</tr>
<tr>
<td>NATL INST OF HEALTH - NIH/PHS</td>
<td>Research</td>
<td>Home-Based Symptom Management via Reflexology for Advanced Breast Cancer Patients</td>
<td>Wyatt, Gwen; Sikorski, Alla; Holmstrom, Amanda; Luo, Zehui</td>
</tr>
<tr>
<td>UNIVERSITY OF MICHIGAN/NIH</td>
<td>Subcontract Research</td>
<td>Sexual Dimorphism of Neural Development Underlying Childhood Stuttering</td>
<td>Zhu, David; Todem, David</td>
</tr>
</tbody>
</table>
FIGURE 4: BREAKDOWN OF RESEARCH FUNDS BY TYPE

Approximately 76% of our funding was derived from Research Grants, 8% was through Training Grants and 16% through Career Development Grants (Figure 4).
WE’RE A WISE INVESTMENT FOR MICHIGAN  2014-2016

$5,335,456
GENERAL FUND

$990,556
TUITION FROM OUT OF STATE STUDENTS

Approximation based on student place of origin

$14,313,184
GRANT FUNDS BROUGHT INTO MICHIGAN*

Excludes funds paid to subcontractors outside of Michigan and grants from Michigan-based funding sources

$17,400,241
TOTAL FUNDS BROUGHT TO MICHIGAN

* Our department faculty participated as lead investigator or co-investigator in grants totaling this amount.
GRANTS SUPPORTING DEVELOPMENT/TRAINING OF FACULTY, STUDENTS & POSTDOCTORAL FELLOWS

NIDA R25 James C. Anthony, PhD (PI)
National Hispanic Science Network Early Stage Career Mentoring for NIDA Research (ESCM-NIDA)
Supports 7 ESCM Fellows.

NIDA D43 James C. Anthony, PhD (PI)
NIDA Epidemiology Training Program: ICOHRTA
This training grant links faculty and students of Michigan State University with those at Universidad Peruana Cayetano Heredia in Lima, Peru, with participation of faculty of the Johns Hopkins Bloomberg School of Public Health

NIDA T32 James C. Anthony, PhD (PI)
NIDA Drug Dependence Epidemiology Training - Michigan State University
Supports 6 trainee positions—3 Predoctoral and 3 Postdoctoral Fellowships

NIH K12 Claudia Holzman, DVM, MPH, PhD (PI)
Building Interdisciplinary Research Careers in Women’s Health (BIRCWH) at Michigan State University
The BIRCWH program is designed to increase the number and diversity of investigators in women’s health. This award supports 75% effort of four MSU Assistant Professors.

NIH T32 Nigel Paneth, MD MPH (PI)
Training Program in Perinatal Epidemiology
Supports 6 trainee positions—2 Predoctoral and 4 Postdoctoral Fellowships
STUDENTS & POSTDOCTORAL FELLOWS  
(JULY 2014 - JUNE 2016)

- EPI Masters Programs: 49
- EPI PHD Program: 31
- Post Doctoral Fellows: 23
- Undergraduate Minor in Global Public Health and Epidemiology: 91
Our faculty members have been engaged in service to the profession and communities at-large. Examples include:

**STUDY SECTIONS AND REVIEW PANELS**

- Panel for evaluation of the scientific domains and operations of the Population Sciences & Epidemiology (PSE) Integrated Review Group
- IOM panel on Place of Birth
- Review panel for all NICHD T32 training grants
- Michigan Nutrition Network at the Michigan Fitness Foundation
  - Review Panel for Award of Supplemental Nutrition Assistance Program Education (SNAP-Ed) Partner Projects
- Abstract reviewer for the Society for Pediatric and Perinatal Epidemiologic Research (SPER) annual meetings.
- Panelist, Alzheimer’s Disease-Related Dementias (ADRD) Summit, NIH, Bethesda, MD. 29-30 March 2016.
- CDC Maternal & Child Health Epidemiology Conference abstract reviewer
- NIMH standing study section SERV (Mental Health Services Research)

**PROFESSIONAL ORGANIZATIONS- ADMINISTRATIVE ROLE**

- Executive Steering Committee, National Hispanic Science Network
- Board of Directors of the Lansing Latino Health Alliance
- Steering Committee, ASA Biopharmaceutical Section
- Ingham County (MI) Board of Health
- Program Chair-Elect, 2015, Section on Mental Health Statistics, ASA
- Scientific Program Committee, International Federation on Psychiatric Epidemiology
- Scientific Program Committee, World Psychiatric Association Section on Epidemiology & Public Health
- International Committee, College on Problems of Drug Dependence
- American Stroke Association, Get With the Guidelines Executive Steering Committee
- American Stroke Association, Get With the Guidelines- Database Committee
- American Stroke Association, Get With the Guidelines-Stroke Scientific Sub-committee
- Executive Planning Committee for the American Heart Association Quality Care, Outcomes and Research (QCOR) meeting
- VA Stroke QUERI (Quality Enhancement Research Initiative) Executive Committee Member
• National Scientific Advisory Committee, March of Dimes Foundation
• Disease Detectives Event Supervisor
• Planning and curriculum development team for the Division of Public Health.
• Organize Society for Pediatric and Perinatal Epidemiologic Research (SPER) roundtables and judge poster sessions.
• CHM Curriculum Committee Chair
• Board of Directors of the Lansing Latino Health Alliance
• Chairman, Credentials Committee, College on Problems of Drug Dependence
• Co-director, Research in Autism, Intellectual and Neuro-developmental disabilities program
• Chair, Quality of Care and Outcomes Committee of the Stroke Council
• Program Chair, Mental Health Statistics Section at Joint Statistical Meetings (JSM) 2016
• Program Chair, PLOS ONE journal
• President, American College of Sports Medicine (ACSM) Foundation
• Chair, American College of Sports Medicine (ACSM) Task Force for Scientific Integrity and Social Responsibility

REVIEW AND ADVISORY BOARDS

• Reviewer, IOM report on design of the National Children’s Study
• Reviewer, NIH/CSR Early Career Reviewer Program
• MDCH Asthma Evaluation Committee (LOS)
• MDCH Asthma Epidemiology and Surveillance Committee
• Statistical Advisory Board, PLOS ONE
• NIH/NIDA National Addiction and HIV Data Archive Program Advisory Council
• Medicare Evidence Development & Coverage Advisory Committee (MEDCAC), CMS
• External Advisory Committee, University of Pennsylvania MPH Program
• Scientific Advisory Board, Burroughs Welcome Fund Research Consortium on Preterm Birth
• Scientific Advisory Panel for the Michigan Birth Defects Registry
• NIH Grant Review Board
• Reviewer, American Heart Association, Behavior Science/Population Outcomes (Standing committee)
• MHSS reviewer of Student Competition papers
• Reviewer for KNOD Section, National Institutes of Health
• Michigan Governor’s Council on Physical Fitness, Health and Sports Board member
• National Physical Activity Plan (NPAP) Congress Board member
• American College of Sports Medicine (ACSM) Student and Young Investigator Research Grant Reviewer

COMMUNITY EDUCATION

• Cancer prevention and nutrition lecture for Trinity African Methodist Episcopal Church
• The Michigan Bulletin, writing their monthly “Health Notices” section
• Health, science and research seminars to The Middle School Girls Club at Shabazz Academy and the Z Club at Everett High School
• Division C Coordinator for the Disease Detectives event, Michigan Science Olympiad State Tournament
• Population Health Informatics Lecture for the University of Michigan School of Public Health.
• Doctorate of Nursing Practice Practicum Course at Madonna University
• Center for Addiction and Mental Health. Province of Ontario, Canada. 2016.
• Department of Translational Neuropsychiatry. University of Aarhus in Denmark. 2016.

**CONSULTATIONS**

• American Heart Association-Get With the Guidelines quality improvement programs
• Breast and Colorectal Cancer: Impact of Healthcare Team on Quality of Cancer and Survivorship Care
• North Carolina State University Department of Animal Science
• Guys/Girls Opt for Activities for Life (GOAL) Intervention
• Research Committee & Visiting Scholar of Pine Rest Mental Health Services
• National Eye Institute- Role of hCG in Retinopathy of Prematurity
• Training Interventions and Genetics of Exercise Response (TiGER) in Children and Adolescents
• United States Department of Agriculture
• NIH Exploratory/Development Research Grant Award (R21)

**COMMITTEES**

• Mentorship Committee, Geisinger Health Systems
• Data Safety Monitoring Committee, Janssen Pharmaceuticals, Inc.
• Data Safety Monitoring Committee, Amgen, Inc.
• PhD adjudication committee, Pal Suren, University of Oslo, Faculty of Medicine
• Program committee member, 2014 Uncertainty in AI Conference (UAI)
• Board of Directors, Biomedical Sciences Career Program, Harvard Medical School
• Priority Health (HMO), Technology Assessment Committee
• Graduate Summer Session in Epidemiology, Planning Committee Member, University of Michigan
• International Conference on Aging in the Americas
• Society for Epidemiologic Research
• Flint Public Health Faculty Search Committee
• Infant Mortality Executive Committee (IMEC)
• Shape Up North (SUN) Advisory Council member
• Perinatal Regional Planning Collaboration member
• Northern Michigan Vaccine Preventable Task Force member
• Cowell Family Cancer Center Health Initiative team member
• International Committee, College on Problems of Drug Dependence
• Executive Steering Committee member, National Hispanic Science Network
• Pediatric Public Health Initiative member
• AHA Stroke Council (Leadership) Committee member
• Stroke Performance Measures Oversight Committee (SPOC) member
• American Heart Association Quality Care, Outcomes and Research (QCOR) Executive Committee member
• Quality Care, Outcomes and Research (QCOR) Award Nominations Committee member
• American Stroke Association-Get with the Guidelines Executive Steering Committee
• Executive Planning Committee for the AHA Quality Care, Outcomes and Research (QCOR) annual meeting
• American Heart Association- Get with the Guidelines Quality Improvement Committee
• American Stroke Association- Get with the Guidelines-Stroke Scientific Sub-committee
• Priority Health (HMO) Technology Assessment Committee
• PLOS ONE Journal Statistical Advisory Board member
• American College of Sports Medicine (ACSM) Ethics Committee
• American College of Sports Medicine (ACSM) Exercise is Medicine on Campus Committee

EDITORIAL BOARDS

• Journal of Statistics and Applications
• Developmental Medicine Children Neurology
• Pediatric Research
• Frontiers in Applied Genetic Epidemiology
• Frontiers in Genetic Architecture
• JAMA Psychiatry
• Psychological Medicine
• Annals of Biometrics and Biostatistics, Editor-in-Chief
• Journal of Aging and Health
• PLOS ONE

WORKSHOPS

• Madonna University, Clinical Epidemiology and Population Health Workshop
FACULTY, SPECIALISTS & CURRENT STAFF
JAMES C. (JIM) ANTHONY, MSc, PhD
PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Winner of multiple awards for mentoring of new and early stage investigators, Jim also is recognized for high impact work in neuropsychiatry and the behavioral & social sciences at their intersections with epidemiology. His work yields increasingly definitive evidence on suspected hazards attributed to tobacco, alcohol, and internationally regulated drugs such as cannabis, cocaine, and the opioids, and their prevention. His work on Alzheimer’s type and other dementias also is highly cited.

DAVID A. BARONDESS, PhD
ASSOCIATE PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Barondess’ research is centered on the intersection of drug dependence epidemiology and skeletal health and disease. A main interest is exploring ethnic disparities, gene-environment interactions, ageing, and socioeconomic factors vis-à-vis patterns of drug/polydrug use, including tobacco-alcohol exposures. This drug-drug combination focus underpins a longer-term research interest in the epidemiology of, the variability in, adolescent growth and development.

* NAOMI BRESLAU, PhD
PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Breslau is a highly cited psychiatric epidemiologist and Ph.D.-trained sociologist who makes major contributions and scientific advances in the epidemiological study of numerous psychiatric conditions and behavioral disturbances, most prominently post-traumatic stress disorder and tobacco dependence. She also has been an important contributor of epidemiological evidence on long-term effects of low birth weight, with respect to problem-solving capacities as disclosed by intelligence and other cognitive testing.

GUSTAVO DE LOS CAMPOS, PhD
ASSOCIATE PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Gustavo de los Campos is an Associate Professor in the Department of Epidemiology and Biostatistics. His background and research interests center on quantitative and statistical genetics with a focus on the analysis and prediction of complex traits and diseases. His research involves methods and software development for the analysis of big omic data and applications across different traits and diseases in humans as well as in plants and animals.

* WENJIANG FU, PhD
ASSOCIATE PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Fu is a biostatistician with expertise in a wide range of statistical modeling and applications to biomedical research, computational and social sciences. He has been leading research to solve a long-term unsettled age-period-cohort analysis of incidence and mortality rates of chronic diseases. His work in variable selection via the LASSO has been well recognized. He has developed numerous methods in genome research and has been granted a US patent in microarray technology.
JOSEPH GARDINER, PhD
PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Gardiner has been a faculty member at MSU since 1978 where his primary research interests are in outcomes research, survival analysis, clinical trials and cost-effectiveness analysis. He has published widely on methodological aspects of statistics as well as in many applied areas. Dr. Gardiner is a Fellow of the American Statistical Association, and an Elected Member of the International Statistical Institute.

HECTOR GONZÁLEZ, PhD
ASSOCIATE PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Hector M. González is a licensed neuropsychologist with clinical research training and experiences in Alzheimer’s Disease Research Centers. He acts as PI of the Study of Latinos-Investigation of neurocognitive aging (SOL-INCA), examining genomics and midlife cardiometabolic risks for Mild Cognitive Impairment (MCI) and Alzheimer’s disease and related dementias (ADRD) among diverse Latinos in the United States. Dr. González’ research focuses on general Latino health, with emphases in body systems associated with brain aging, health, decline, and neurocognitive disorders.

KELLY HIRKO, PhD
ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Kelly Hirko is an Assistant Professor in the Department of Epidemiology and Biostatistics, based in Traverse City. Her research utilizes plasma biomarkers and tumor markers to characterize the underlying biological mechanisms in the etiology of breast cancer and to better understand breast tumor heterogeneity. Dr. Hirko’s research interests also include examining cancer disparities and identifying risk factors for aggressive subtypes of breast cancer, including inflammatory breast cancer.

CLAUDIA HOLZMAN, DVM, MPH, PhD
DEPARTMENT CHAIR, PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Holzman’s research focuses on pregnancy outcomes, women’s health, and health equity. She has been Principal Investigator (PI) of an NIH-funded, longitudinal study, the Pregnancy Outcomes and Community Health (POUCH) Study, which began by enrolling 3,019 women at mid-pregnancy from 52 clinics in 5 Michigan communities and now follows mothers to middle age to examine health trajectories.

JEAN KERVER, PhD, MSc, RD
ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Jean Kerver is a nutritional epidemiologist and a registered dietitian who spends her time developing ways to support healthy lifestyle behaviors for families living in poverty or facing other challenges. Kerver’s primary research interest involves studying how the food a woman eats during pregnancy affects not only her health, but also the long-term development of her child. Dr. Kerver’s position is located in Traverse City as part of MSU’s community-based medical campus network.
CAROL JANNEY, PhD
ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Janney’s research focuses on physical activity and mental health. As part of a new statewide research network by MSU’s College of Human Medicine, Dr. Janney will be studying behavioral interventions aimed to improve the mental and physical health of individuals with mental health issues, their families, and their communities. Dr. Janney recently received a PCORI Pipeline to Proposal Award to improve mental health care, self-management, and outcomes in rural communities.

CHENXI LI, PhD
ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Li’s primary research works focus on statistical analysis of interval-censored failure time data and multivariate survival analysis including competing risks analysis, frailty models and multi-state models. His research interests also include quantile regression, longitudinal data analysis and statistical genetics. Beside methodological research in biostatistics, Dr. Li has been collaborating with medical researchers at MSU in grant applications, data analyses and manuscript writing.

QING LU, PhD
ASSOCIATE PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Lu’s research is within the field of statistical genetics, with a strong interest in developing and applying statistical methods for analyzing large-scale human genetic data. One line of research is on the development and application of statistical methods for risk prediction research. In parallel with the risk prediction research, he is also interested in developing new methods for high-dimensional genetic association analysis.

ZHEHUI LUO, PhD
ASSOCIATE PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

With a PhD in economics and an M.S. in statistics, Dr. Luo has extensive experience in epidemiological studies and health services research, collaborating with a broad range of investigators in a multidisciplinary environment. Her primary research interest is to develop new econometric and statistical methodologies for causal inference and estimating heterogeneous treatment effects in comparative effectiveness research with observational data.

CLAIRE MARGERISON-ZILKO, PhD
ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Claire Margerison-Zilko is an Assistant Professor in the Department of Epidemiology and Biostatistics. Dr. Margerison-Zilko’s research focuses on understanding the determinants of racial/ethnic and socioeconomic disparities in women’s health, particularly pregnancy outcomes and cardiovascular health. Dr. Margerison-Zilko uses an interdisciplinary approach drawing on theory and methods from epidemiology, economics, sociology, and geography.
JANET OSUCH, MD, MS
PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Janet Rose Osuch (M.D., 1979, Michigan State University (MSU); M.S. 2000, MSU) is Professor of Surgery and Epidemiology at MSU and has served as Assistant Dean of Preclinical Curriculum in the College of Human Medicine since 2006. She currently practices breast cancer risk counseling and conducts research in environmental epidemiology. She is the author of several journal articles on breast cancer, topics in medical education, and the health effects of in utero DDE and PCB exposure.

DOROTHY PATHAK, PhD, MS
PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Pathak has been involved in epidemiologic and biostatistical research for the past 35 years. The principal focus of her research is breast cancer etiology and prevention. She is the PI of an NCI-funded international study of breast cancer in women of Polish ancestry evaluating contributions of nutritional exposures to breast cancer risk. She has published about the dual effect of pregnancy on breast cancer risk, the cross-over in breast cancer incidence for young Black and White women, as well as on the serotonergic mediation of estrogen-related physiology and pathology.

NIGEL PANETH, MD, MPH
PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Paneth studies childhood neurodevelopmental handicap in relation to exposures in pregnancy and the perinatal period. His recent nested case-control study found inflammatory and other gene sets elevated in newborns who later developed cerebral palsy, compared to controls. For commoner developmental disorders, such as autism spectrum disorder and cognitive impairment, he assembles and follows pregnancy cohorts with archived biological material to examine influences on disease or development. He teaches 2 courses – Introductory Epidemiology and Perinatal Epidemiology.

JAMES PIVARNIK, PhD
PROFESSOR OF KINESIOLOGY AND EPIDEMIOLOGY AND BIOSTATISTICS

James Pivarnik is a professor of Kinesiology and Epidemiology & Biostatistics and Director of the Center for Physical Activity and Health. As an exercise physiologist and epidemiologist, he studies the exercise responses of females, particularly during pregnancy, and children, both healthy and those with chronic diseases. His focus is on the role of physical activity in reducing the risk factors for chronic disease development (e.g., cardiovascular disease) and morbidity and mortality.

MAT REEVES, BVSc, PhD
ASSOCIATE PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Mat Reeves studies quality of care and outcomes using large scale stroke registries. Currently he is the PI of the MISTT (Michigan Stroke Transitions Trial) study - a PCORI funded clinical trial testing the efficacy of home based case management program for stroke patients. His training includes a PhD from the University of Pennsylvania, a veterinary degree from the University of Liverpool, U.K., and applied public health training from the CDC. He has authored over 200 peer-review publications.
Mahdi Saeed is a professor of Epidemiology and Infectious Diseases at the Departments of Epidemiology and Biostatistics and Large Animal Clinical Sciences. Dr. Saeed’s research has been focused on epidemiology, risk factors, and pathogenesis of infectious disease in humans and animals. He has successfully invented an effective vaccine to diarrheal disease in humans and animals that is caused by enterotoxigenic E. coli, which warranted a full patent from the US. Department of Commerce.

Nicole Talge is a developmental psychologist investigating links between pregnancy health and the development of childhood cognitive and socio-emotional problems. Her most recent efforts investigate the antecedents and consequences associated with global markers of gestational health (e.g., birth weight for gestational age; preterm birth). A major area of interest involves understanding the source(s) of variability in childhood behavioral outcomes following exposure to perinatal health risks.

Dr. Todem’s current line of research in methods revolve around the following topics: 1) Models for longitudinal, clustered and functional data; 2) Inferential techniques for non-identifiable models in the context of non-random missing data paradigm; and 3) Testing procedures for evaluating mixture models. Primary applications are in the area of Alzheimer’s disease, Cancer, and Dental Caries research.

My research focuses on the development, use and implementation of omic-based statistical methods for human health complex traits, including cancer, obesity exercise and heart health traits. Her previous research included studies with generalized linear mixed models with correlated random effects, from which she co-authored an R-package that fits such models.

Dr. Wasilevich’s research examines health services for the diagnosis and management of chronic disease. Her work focuses on understanding the determinants of high quality and efficient health care during treatment, survivorship, and end of life periods for persons with cancer. She also leads studies to identify opportunities to improve clinical asthma management and emergency department care.
JULIE WIRTH, PhD
ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Wirth’s research has focused on the effects of exposure to environmental contaminants on male infertility and the modification of this relationship by common genetic variants. She also interested in the effects of these chemicals on neurodevelopmental problems such as autism. Another interest is how these chemicals affect development of the infant gut microbiome and early life development of allergies.

LIXIN WANG PhD
ASSISTANT PROFESSOR OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Zhang is a molecular epidemiologist focused on studying infectious diseases. He is interested in understanding the emergence, transmission and maintenance of pathogens and antibiotic resistance in the populations by incorporating molecular data into population-level analyses, and in turn, developing effective prevention strategies. Over the years, Dr. Zhang has studied various pathogens associated with diarrhea, tuberculosis, otitis media, COPD, sepsis, and urinary tract infections.

SPECIALISTS

MADELEINE LENSKI, MS
RESEARCH ASSISTANT, DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS

Madeleine Lenski has been a Research Specialist at MSU for over 15 years, as both study manager and PI for perinatal and cerebral palsy research studies, both international and domestic. These projects have largely focused on etiology and outcomes of very premature births and of cerebral palsy, including follow-up at preschool and school age.

* JAMIL B. SCOTT, PhD, MPH
RESEARCH ASSISTANT, DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS

Dr. Scott’s primary research interests have centered on the potential diseases related to vitamin D deficiency, such as colorectal cancer, hypertension and adverse birth outcomes, especially among African-Americans. Completing her graduate work in cell and developmental biology, Dr. Scott takes a special interest in understanding the underlying molecular mechanisms of disease and how they can be used to inform disease outcomes on the population level.

* as of May, 2016 no longer with the department (retired or accepted position outside of the department)
CURRENT STAFF

NANCY BIEBER / Graduate Secretary

KATHY MERONY / Accounting

JILL HAMILTON / Accounting

TINA MUNRO / Accounting

MARY ANN VIGIL / Accounting

LINDA WALTERS / Information Technology

MARK WATRICH / Information Technology
FACULTY PUBLICATIONS

2014-2016
Arranged alphabetically by first author:


