**Division Details**

**Division Data Summary**

<table>
<thead>
<tr>
<th>RESEARCH AND TRAINING DETAILS</th>
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<td>Number of Faculty</td>
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<th>CLINICAL ACTIVITIES AND TRAINING</th>
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<td>Number of Other Students</td>
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</tbody>
</table>

**Division Photo**

Row 1: M Macaluso
Row 2: J Khoury, B Huang, K Bowers, R Ittenbach, S Ehrlich, H Sucharew
Row 3: D Lin, M Altaye, L Ding, J Meinzen-Derr, J Woo, P Ryan, M Kim
Row 4: E King, M Hossain, B Zhang, R Szczesniak, N Ollberding, L Fei

**Significant Accomplishments**

**Research Contributions Grow 20 Percent**

Our faculty and staff contributed to 135 scientific articles, 20 percent more than in 2012. Collaborative papers ranged across all pediatric subspecialties, including 31 published in journals with an impact factor of 5.0 or higher and 15 that involved novel quantitative methods. DBE faculty or staff members were first authors of 19. Overall, we participated in 100 active research grants and contracts, with annual direct costs totaling $38M.

Our faculty led independent research in statistical methods development and application and in areas of epidemiologic research. Examples include the NSF grant “Extension of Censored Quantile and Empirical Likelihood” led by Mi-Ok Kim, PhD; the biostatistical core of the NIH grant “Hemorrhagic & Ischemic Stroke Among Blacks & Whites,” led by Jane Khoury, PhD; the HRSA grant “Impact of Cognition on Language in Pediatric Hearing Loss,” led by Jareen Meinzen-Derr, PhD; and the NIH grant “Neurobehavioral and Neuroimaging Effects of Traffic Exposure in Children,” led by Patrick Ryan, PhD, MS.

**Educational Leadership Includes New Fellowships in Epidemiology and Biostatistics**

Our faculty taught in the Colleges of Medicine, Pharmacy, and Arts and Sciences, and the MS program in Clinical Science. Six graduate students participated in the Graduate Statistics Internship Program led by Bin Huang, PhD, and Siva Sivaganesan, PhD, UC Department of Mathematical Sciences, which benefitted research projects in eight divisions at Cincinnati Children's.

We mentor post-doctoral Fellows in Pediatrics and Environmental Health. We also developed the curriculum
and selected initial candidates for new fellowships in Epidemiology and Biostatistics in Pediatrics. Richard Ittenbach, PhD, PSTAT, led the work of the CCTST in empirical bioethics, facilitating the development of this field across the UC academic medical center. A recent conference on Empirical Bioethics: Emerging Trends for the 21st Century, drew 109 attendees from 10 states.

Faculty and Staff Growth Continues

We recruited five new faculty this year. Lin Fei, PhD, is a statistician with a 20-year career in the pharmaceutical industry whose research interests include ranking and selection problems and multiple testing problems in bioequivalence studies, categorical data analysis and power assessment, stochastic curtailment, and Bayesian evaluation of efficacy and safety measures. Shelley Ehrlich, MD, PhD, is an obstetrician-gynecologist and environmental epidemiologist whose research has focused on environmental exposures to endocrine disruptors. Katherine Bowers, PhD, is a genetic epidemiologist whose research interests include autism spectrum disorders and the impact of diabetes on pregnancy. Ping-I (Daniel) Lin, MD, PhD, is a psychiatrist and genetic epidemiologist whose research interests include autism spectrum disorders and bipolar disorder. And Nicholas Ollberding, PhD, is a nutritional epidemiologist with a focus on the role of diet in cancer etiology and survival, dietary assessment and molecular epidemiology.

We added 17 talented professionals in staff positions. Additions include Vadim Tantsyura, MS, MA, our new Director of Data Management. Vadim was a leader in clinical data management in industry, and has done research on electronic data capture, data quality, and cost-effectiveness. Ted Folger, PhD, is an epidemiologist who leads analysis of the large database maintained by the Every Child Succeeds program and a new collaboration with the Hamilton County Department of Health. Jennifer Collins, MPH, is an epidemiologist with research interests in family planning and reproductive health. We also took responsibility for the data management and statistical support staff of the Heart Institute: Philip Khoury, MS, has extensive experience in statistical methods and epidemiology of cardiovascular disease; Zhiqian Gao, PhD, MSPH, has expertise in structural equation modeling and longitudinal mixed models in preventive cardiology; Amita Mirani, MBA, is a data manager with experience in multi-center clinical trial studies and clinical data management systems.

Demand Grows for Data Management Support and Statistical Consulting

Our 24-member Data Management Center (DMC), led by Tantsyura and Rachel Akers, MPH, supported 60 studies, up from 45 in FY 2012. We assist with grant application and protocol review, budgeting for data management, case report form design, database development, discrepancy management, data cleaning and preparation for analysis. We acquired Medidata Rave, the industry leading electronic data capture system, to enhance our data management support abilities. We also implemented 12 standard operating procedures (SOP) that govern DMC data management processes.

Our Biostatistical Consulting Unit (BCU) supported 120 projects in 19 divisions. Mekibib Altaye, PhD, Director, and Matthew Fenchel, MS, Manager, lead a staff of four statisticians whose focus is to ensure appropriate use of statistical methods in research design and data analysis.

Our Scale Development Unit (SDU) supported 19 studies. We assist investigators with grant and protocol development, validation studies, norms development, manuscript review and measurement consulting. Richard Ittenbach, PhD, PSTAT, is Director, and Resmi Gupta, MA, MS, biostatistician, and Alison Kissling, MLIS, research librarian and informationist, are the scientific staff.
Research Highlights

Maurizio Macaluso, MD, DPH, Professor and Director

Dr. Macaluso continued to lead the expansion of the division by strengthening its infrastructure and recruiting new faculty. The Data Management Center grew in FY2013: a permanent DMC director joined DBE, the staff and the number of projects supported increased and the DMC implemented new SOPs and acquired a state-of-the-art data capture system. The Biostatistics Consulting Unit was established in 2012 to expedite access to biostatistical consulting and collaboration at Cincinnati Children's and grew in FY2013, supporting 120 projects in 19 Cincinnati Children's divisions. Five new faculty joined DBE. In 2012-2013, Dr. Macaluso published 11 peer-reviewed articles and submitted 15 abstracts. Of note is a paper published in the American Journal of Obstetrics and Gynecology (Semprini AE, Macaluso M, Hollander L, Vucetich A, Duerr A, Mor G, Ravizza M, Jamieson DJ. Safe conception for HIV-discordant couples: insemination with processed semen from the HIV-infected partner. Am J Obstet Gynecol. 2013 May; 208(5):402.e1-9. doi: 10.1016/j.ajog.2013.02.009), which presents reassuring follow-up data on a cohort of HIV-discordant couples who participated in a medically assisted conception program in Italy, where the HIV-positive man’s semen was processed before insemination to prevent HIV transmission. The results are likely to lead to a policy review at the US Centers for Disease Control and Prevention, which for many years has recommended against any exposure of an HIV-negative woman to the semen of her HIV-positive partner. Dr. Macaluso is co-director of the Biostatistics, Epidemiology, and Research Design Core of the NIH-funded Center for Clinical and Translational Science and Training. During 2012-2013, he participated in the submission of three applications for funding. In addition to providing guidance and advice to the DBE faculty, Dr. Macaluso mentors postdoctoral fellows and junior faculty in other Cincinnati Children's divisions.

Mekibib Altaye, PhD, Associate Professor

In 2012-2013, Dr. Altaye published eight peer-reviewed articles and submitted seven abstracts. He is actively participating as a co-investigator and collaborator in eight NIH funded projects, and he participated in the submission of five new grant applications. His research focuses on statistical modeling of correlated data, particularly data generated from fMRI and MRI experiments. He closely collaborated with researchers from the Pediatric Neuroimaging Research Consortium (PNRC) in which he is one of the primary faculty members. Dr. Altaye serves as the director of the newly created Biostatistics Consulting Unit (BCU) within our division. The BCU facilitates access of researchers to the biostatistical and epidemiological expertise they need. Dr. Altaye continues to mentor staff, junior investigators, trainees and students in multiple academic units.

Katherine Bowers, PhD, Assistant Professor

Dr. Bowers joined DBE as Assistant Professor in August 2012. She is an epidemiologist with experience in perinatal and genetic epidemiology. Her interests include exposures during pregnancy, genetic predisposition and the development of autism spectrum disorders. In addition, she has an ongoing collaboration with the NICHD as a co-investigator on an international longitudinal cohort study to understand the genetic and environmental causes of the transition from gestational to type 2 diabetes as well as consequences of gestational diabetes for the offspring. Dr. Bowers has been actively involved in collaborative research with faculty members from Developmental and Behavioral Medicine, and Adolescent Psychiatry. In the past year, Dr. Bowers published two peer-reviewed research papers. She submitted one first author and three co-authored abstracts. Dr. Bowers presented a poster at the International Diabetes in Pregnancy Meeting in Florence, Italy. Dr. Bowers serves as an ad-hoc reviewer for several journals, such as PLoS ONE, Epidemiology, The American Journal of Epidemiology and The American Journal of Perinatology. Dr. Bowers has joined the DBE Educational Policies and Programs Committee to enhance educational development in the fields of epidemiology and
Lili Ding, PhD, Assistant Professor

In 2012-2013, Dr. Ding published five peer-reviewed research papers, submitted 11 abstracts, and presented at two national meetings. She participated as a co-investigator and collaborator in three NIH funded research projects, and collaborated in submitting seven new grant applications. Her research focuses on Bayesian statistics and its applications in biomedical research, including statistical genetics, population pharmacokinetics and pharmacodynamics (PK/PD), latent variable modeling, and survival analysis. Dr. Ding was awarded a 2013 CCTST methods grant entitled “Modeling of multivariate longitudinal phenotypes in family genetic studies with Bayesian multiplicity adjustment.” Dr. Ding has been actively involved in collaborative research with faculty members from Adolescent Medicine, Asthma Research, Human Genetics, and Anesthesia on the design, plan, statistical analysis and report of medical research studies. Dr. Ding serves as Review Editor for the Journal of Frontiers in Genetics and Reviewer for the Journal of Pediatric Research, the Journal of Statistical Theory and Practice, Human Genetics, and PLoS ONE. Dr. Ding mentors junior faculty, fellows and students in DBE and several other divisions at Cincinnati Children’s.

Shelley Ehrlich, MD, MPH, MSc, ScD, Assistant Professor

Dr. Ehrlich joined DBE as Assistant Professor in September 2012. She is a physician trained in obstetrics and gynecology as well as an environmental and perinatal epidemiologist. Dr. Ehrlich has been actively involved in collaborative research with faculty members of the Perinatal Institute at Cincinnati Children’s and of the UC departments of Obstetrics and Gynecology and Environmental Health. She is also developing collaborations with researchers in Israel and plans to develop an international birth cohort in the coming years. In the past year, Dr. Ehrlich published four peer-reviewed research papers and submitted four manuscripts for review, two of which were written as part of her contribution to the NIEHS expert panels on bisphenol A research. Dr. Ehrlich is currently also developing a smoking cessation program at the Price Hill Community Health Clinic for women attending the prenatal clinic. She is working in collaboration with Dr. Elizabeth Kelly, the Anderson Center and a faculty member from the School of Pharmacy. Dr. Ehrlich has joined the DBE Research Committee to contribute to the advancement of independent research within the Division of Epidemiology and Biostatistics. Dr. Ehrlich serves as an ad-hoc reviewer for several journals: Biology of Reproduction; Human Reproduction; Environmental Health Perspectives; and Fertility and Sterility, and in June 2013 was invited to join the editorial board of Fertility and Sterility.

Lin Fei, PhD, Associate Professor

Dr. Fei joined DBE as Associate Professor in October 2012. He is a biostatistician with interests in the development and application of statistical methods in clinical research, ranking and selection theory, and Bayesian predictive modeling. Dr. Fei has been actively involved in collaborative research with faculty members from the Division of Gastroenterology, and of the Cancer and Blood Diseases Institute. In the past year, Dr. Fei submitted three abstracts. One of the abstracts he co-authored with Cincinnati Children's gastroenterology colleagues is on Diagnostic and Predictive Value of Serum Biomarkers in Biliary Atresia, in which he developed ROC based biomarker discriminant scores to predict two-year native liver survival. In addition, a latent structure is identified through a clustering to differentiate among biliary atresia patients and normal subjects to predict their three-month bilirubin levels. Dr. Fei continues his volunteering at the University of Cincinnati’s annual high school science and engineering expo as a judge, and as a proctor and grader at the Annual Ohio Mathematics contest at Wright State University. He maintains active membership in several professional societies, and serves as a reviewer for journals and research funding organizations.
Jessica Graus Woo, PhD, Associate Professor

In 2012-2013, Dr. Woo published eight peer-reviewed articles, presented eight abstracts, and gave an invited symposium on secular trends in obesity and blood pressure for the International Pediatric Hypertension Association/American Society for Hypertension in May 2013. Her research focuses on the developmental pathways leading to pediatric obesity and its comorbidities. Dr. Woo received the Cincinnati Children’s Schmidlapp Women Scholars award in 2010, was the PI of a research contract with Mead Johnson and the PI of a subcontract of an NIH R01 to examine genetic and environmental risk factors for hemorrhagic stroke. Dr. Woo leads the Biostatistics unit of the Heart Institute Research Core and continues to mentor staff, junior investigators and trainees in multiple academic units. She also contributes to the Biostatistics and Epidemiology modules of the Pediatrics Fellowship Core curriculum and has taught “Introduction to Epidemiology” in the graduate program in Biostatistics and Epidemiology in the Department of Environmental Health, where she holds a secondary appointment.

Md. Monir Hossain, PhD, Assistant Professor

In 2012-2013, Dr. Hossain published six peer-reviewed journal articles and submitted four abstracts. He participated in one grant submission as a co-investigator and initiated two grant submissions as the principal investigator. His research focuses on spatial and spatio-temporal statistics for point process and area level data. The applications involve the datasets generated from childhood cancer incidence linking with the environmental pollution; hospital utilization records with cost information; eye-tracking data for autistic children; and linking asthma exacerbations with demographic, environmental and utilization cost information. Dr. Hossain serves as a lead statistician for the Department of Anesthesia, and mentors student and staff in various roles. He is a member to the International Statistical Institute (ISI), The Netherlands.

Bin Huang, PhD, Associate Professor

In 2012-2013, Dr. Huang published four peer-reviewed articles and gave five presentations at national conferences. Dr. Huang’s methodological research aims to develop/enhance methodologies for statistical causal inference, mediation analysis, and modeling of pubertal development. She is active in NIH-funded research, and she participated in the submission of six NIH grant applications as co-investigator or statistical mentor. Dr. Huang continues to mentor staff, junior investigators and trainees in multiple academic units, and leads an internship program developed in collaboration with the UC Department of Mathematics. She also serves as a special panel reviewer for NIDA secondary data analyses RFA.

Richard Ittenbach, PhD, Professor

In 2012-2013, Dr. Ittenbach published seven peer-reviewed articles and submitted three abstracts. Of particular importance is his publication on diabetes self-management (Ittenbach RF, Cassedy AE, Rohan JM, Hood KK, Harris MA, Delamater A, Pendley J, Drotar D. (2013). Diabetes Self-Management Profile Short Form: A Preliminary report. J Clin Psychol Med 20(1): 107-113.) The DSMP Short Form is a brief, 7-item form of the longer, 27-item Diabetes Self-management Profile that can be given in a fraction of the time it takes to give the longer form. The principal advantage of the form is that it can be given in a much shorter period of time (five minutes instead of 25 minutes), without sacrificing quality of information. The new instrument was derived using a combination of traditional psychometric and modern measurement theory methods. Dr. Ittenbach led the Cincinnati Children's-wide effort to establish state-of-the-art clinical data management operations across the institution, a key activity recognized as a priority in the Cincinnati Children's 2015 Strategic Plan. Of note are also his efforts to develop a scale development unit, focusing on the way multi-item scales are developed and used in pediatric research. This work led to the development of four grant applications and the publication of four
scale-development related papers. Dr. Ittenbach co-chairs the CCTST initiative to strengthen the focus of research ethics and empirical bioethics across the UC academic medical center. Dr. Ittenbach continues to mentor staff, junior investigators and trainees in multiple academic units; he teaches seminars throughout the year to academic medical center faculty and staff, and remains active in the American Statistical Association’s Section on Statistical Consulting.

Jane C. Khoury, PhD, Associate Professor

In 2012-2013, Dr. Khoury published 19 peer-reviewed articles and collaboratively submitted over 25 abstracts and she presented at national as well as international meetings. Her research focuses on diabetes, obesity and cardiovascular disease and stroke. She serves as the principal investigator of the biostatistical core for the Special Program of Translational Research in Acute Stroke, which includes two clinical trials, a registry and a basic science project. She is also PI of a Cincinnati Children's sub-contract within the UC Stroke Epidemiology R01 grant. Dr. Khoury is a co-investigator on five other NIH-funded projects and in 2012 participated in the submission of 10 new grant applications. She continues to mentor staff, junior investigators and trainees in multiple academic units, and is the lead instructor of classes in the UC Department of Environmental Health, where she holds a secondary appointment.

Mi-Ok Kim, PhD, Associate Professor

In 2012-2013, Dr. Kim published eight peer-reviewed articles and submitted six abstracts. Dr. Kim’s methodologic research focuses on quantile regression, for which she is continues to be supported by an award by the National Science Foundation. She is also interested in comparative effectiveness research and propensity score methods, and collaborated in three extramural grant applications on related research topics. In 2012 Dr. Kim participated in the submission of eight new grant applications including three as the PI. Dr. Kim continues to mentor staff, junior investigators and trainees in multiple academic units.

Eileen King, PhD, Associate Professor

In 2012-2013, Dr. King published seven peer-reviewed articles and six abstracts. Her research focuses on outcomes research, digestive health, allergy and cardiovascular diseases. She serves as a faculty statistician for the Anderson Center, the Heart Institute Research Core, the CCTST and the Digestive Health Center. She serves as a statistician on 6 NIH-funded projects and participated in the submission of two new applications. Dr. King re-submitted a R01 Data Coordinating Center application as the PI, in coordination with a proposal for a multi-site clinical trial of interventions for patients with asthma with responses to reviewers. Dr. King served as the acting director of the Data Management Center, a key part of the Cincinnati Children's-wide effort to establish state-of-the-art quality standards in data management, recognized as a priority in the Cincinnati Children's Strategic Plan. Dr. King continues to mentor staff, junior investigators and trainees in multiple academic units, and is the lead instructor of "Statistical Principles for Clinical Research Studies" in the UC College of Pharmacy, where she holds an adjunct faculty appointment. Dr. King serves as chair of the Council of Sections Governing Board within the American Statistical Association, associate editor of the Journal of Statistical Education, and biostatistical reviewer for Journal of Allergy and Clinical Immunology – In Practice. Dr. King has made four internal and three external presentations on topics in statistics and data management and presents the statistical training module for the Core Clinical Research Training program. Dr. King also coordinates the biostatistical review for the Pilot and Feasibility studies for the Digestive Health Center and provides biostatistical review for the Place Outcomes Research Awards.

Ping-I (Daniel) Lin, MD, PhD, Assistant Professor
Dr. Lin joined DBE as Assistant Professor in September 2012. Dr. Lin is a psychiatrist and genetic epidemiologist. His research interests have been focused on the identification of genetic variants associated with the risk of neurological and psychiatric diseases, such as bipolar disorder, Alzheimer’s disease, schizophrenia, and autism. Particularly, Dr. Lin has been interested in research methods of dissecting genetic heterogeneity, endophenotypes, and paradoxical locus-trait associations. In the past seven years his publications have received nearly 400 citations. Dr. Lin has been actively involved in collaborative research with faculty members from Division of Child and Adolescent Psychiatry of Cincinnati Children's and Department of Psychiatry and Neurobehavioral Science of UC College of Medicine. Dr. Lin has recently submitted two NIH proposals that integrate genetics components and neuroimaging measurements to study the neurobiological basis for psychiatric conditions, such as emotion arousal and aggression. In the past year, Dr. Lin published 1 peer-reviewed research paper entitled “The WNT2 gene polymorphism associated with speech delay inherent to autism” on Research in Developmental Disabilities, and authored another paper on PLoS One, entitled “Runs of homozygosity associated with speech delay in autism in a Han Taiwanese population: evidence for a recessive model”. The latter study is the first one that implemented a novel approach to identifying loci in extended homozygous haplotype regions that contribute to language impairment in autism. He was invited to present his work in the genetics of autism at the Texas Autism Research Conference. He has also mentored graduate student and junior faculty members of other divisions. Dr. Lin is building a strong academic service record, maintaining active membership in several professional societies, and serving as a reviewer for scientific journals in the area of human genetics and psychiatry and Editorial Member of World Journal of Psychiatry. He also serves as a member of the Autism Speaks-Autism Treatment Network Scientific Review Committee.

Jareen Meinzen-Derr, PhD, Associate Professor

In 2012-2013, Dr. Meinzen-Derr published 10 peer-reviewed articles and submitted 20 abstracts. As part of her ongoing research, Dr. Meinzen-Derr and her research team published results from a multi-center study on language outcomes in the largest cohort to date of 115 children who were deaf-blind and received cochlear implants. (Otolaryngology & Neurotology, 2013; 34:507-515). This was the first study of this magnitude to report on a consistently and reliably administered language evaluation adapted specifically for children with dual sensory loss. Through invitations as a speaker at national and international (Seoul, Korea) conferences, she continues to make significant strides in the field of deafness and additional disabilities. Dr. Meinzen-Derr is also dedicated to the mentoring of staff, junior investigators and trainees in multiple academic units. She contributed to the Biostatistics and Epidemiology modules of the Pediatrics Fellowship Core curriculum and leads the Experimental Design lectures in Neonatology and Developmental and Behavioral Pediatrics. She was the primary instructor of “Introduction to Epidemiology” in the graduate program in Biostatistics and Epidemiology in the Department of Environmental Health and developed an online curriculum for the same program and for the CCTST.

Nicholas Ollberding, PhD, Assistant Professor

Dr. Ollberding joined the DBE as Assistant Professor in January 2013. He is a nutritional epidemiologist with interests in the role of diet in the etiology and the survival of cancer, dietary assessment and analysis methodology, and molecular epidemiology. Dr. Ollberding has been actively involved in collaborative research with faculty members from the Division of General and Community Pediatrics. In the past year, Dr. Ollberding published eight peer-reviewed research papers and submitted six abstracts. His publication in Cancer Prevention Research (Ollberding NJ, Kim Y, Shvetsov YB, et al. Prediagnostic Leptin, Adiponectin, C-Reactive Protein, and the Risk of Postmenopausal Breast Cancer. Cancer Prev. Res. Mar 2013;6(3):188-195.) is particularly noteworthy. For this study, the relationship between obesity-related adipokine hormones
(adiponectin and leptin) and the risk of postmenopausal breast cancer was examined in more than 1400 women. It was found that women with the highest levels of circulating leptin were at an approximately 90% increased risk of breast cancer over the study period. This finding has since been replicated and contributes to our understanding of the mechanisms through which obesity may operate to influence the risk of postmenopausal breast cancer. In addition, in a publication conducted with fellow Cincinnati Children's collaborators he recently helped to demonstrate the feasibility of using modified nutritional databases for large, international epidemiologic studies (Summer SS, Ollberding NJ, Guy T, et al. Cross-Border Use of Food Databases: Equivalence of US and Australian Databases for Macronutrients. J Acad Nutr Diet, 2013 Jul 16; S2212-2672 (13):647-3). Dr. Ollberding serves as an ad-hoc reviewer for Public Health Nutrition, American Journal of Clinical Nutrition, Journal of the Academy of Nutrition and Dietetics, British Journal of Cancer, International Journal of Cancer, and Cancer Causes and Control among others. Since joining the DBE, Dr. Ollberding has also been involved in the mentoring a postdoctoral fellow conducting nutritional epidemiology research.

Patrick Ryan, PhD, Assistant Professor

In 2012-13, Dr. Ryan published six peer-reviewed research papers, submitted six abstracts, and presented at four national/international meetings and conferences. Of note is a paper published in Environmental Health Perspectives (Newman NC, Ryan PH, LeMasters GK, Levin L, Bernstein D, Khurana-Hershey GK, Lockey JE, Villereal M, Reponen T, Grinspun S, Sucharew H, Dietrich KN. Traffic Related Air Pollution Exposure in the First Year of Life and Behavioral Scores at Age Seven. *Environmental Health Perspectives*. 2013;121:731-736) in which Dr. Ryan and co-investigators of the Cincinnati Childhood Allergy and Air Pollution Study (CCAAPS) report an association between early childhood exposure to air pollution and the prevalence of ADHD symptoms at seven years of age. Dr. Ryan’s research interests include air pollution epidemiology (focusing on respiratory and neurobehavioral outcomes in children) and exposure assessment. Dr. Ryan is currently the PI of three NIH-funded projects including studies of personal exposure to ultrafine particles in children with asthma, the impact of anti-idling campaigns on air quality near schools, and the association between early childhood exposure to diesel exhaust particles and neurobehavioral and neuroimaging outcomes in the CCAAPS cohort. In the past year, Dr. Ryan also contributed to the Department of Environmental Health’s training program as an instructor (“Design and Management of Field Studies in Epidemiology”, Spring 2013) as well as serving as primary advisor to one PhD student and three MS students.

Heidi Sucharew, PhD, Instructor

In 2012-13, Dr. Sucharew published 10 peer-reviewed research papers and submitted 16 abstracts. Of note is a paper in the journal of Paediatric and Perinatal Epidemiology (Sucharew H, Khoury JC, Xu y, Succop P, Yolton K. NICU Network neurobehavioral profiles predict developmental outcomes in low risk sample. *Paediatric and Perinatal Epidemiology*. 26(4): 344-52.), Dr. Sucharew and her research team used latent profile analysis to define three distinct NICU Network Neurobehavioral summary (NNNS) scales response patterns in a relatively low-risk cohort. The NNNS examination results in 13 summary measures making an overall exam response difficult to interpret. The NNNS profile patterns were found to be associated with early childhood neurobehavioral outcome, similar to findings reported in a study of infants with substantial cocaine exposure, demonstrating the utility of this profiling technique in both exposed and unexposed populations. Dr. Sucharew's research focuses on stroke, epidemiology and clinical trials, and the impact of environmental exposures on child health, with methodology interest in latent variable modeling. She is one of the biostatisticians for the Greater Cincinnati and Northern Kentucky Stroke Team and continues to serve as co-Director of the Biostatistical Core for the Special Program of Translational Research in Acute Stroke. Of note is the recent successful completion of the
Phase II combined approach to lysis utilizing eptifibatide and rt-PA in acute ischemic stroke clinical trial (the trial was presented at the 2013 International Stroke Conference). Dr. Sucharew mentors junior faculty, fellows and students in DBE and other divisions within the hospital. She has assisted in the development of, and has served as the primary instructor of, "Introduction to Biostatistics" online course and as an invited lecturer in the "Design and Management of Field Studies in Epidemiology" course in the graduate program in Biostatistics and Epidemiology in the Department of Environmental Health.

Rhonda Szczesniak, PhD, Assistant Professor

In 2012-2013, Dr. Szczesniak published two peer-reviewed articles and collaborated on 19 abstracts. She directs the Pulmonary Biostatistical Core for the Division of Pulmonary Medicine. Her methodologic research interests are latent variable analysis, Bayesian dynamic models, nonparametric and semiparametric regression. She is also interested in applying novel methods to study outcomes of children with cystic fibrosis and obstructive sleep apnea. She was recently a finalist for the KL2 scholarship award to develop adaptive statistical models for forecasting the clinical course of cystic fibrosis. She provides biostatistical support on five NIH-funded projects as well as other foundation awards and internal projects, and she participated in the submission of several new grant applications this year. Dr. Szczesniak continued to mentor junior faculty, staff and students in multiple academic units. She also served as Associate Chair for the entire research program of the International Biometric Society’s meeting for the Eastern North American Region.

Bin Zhang, PhD, Assistant Professor

Dr. Zhang’s research interests include clinical trials, survival analysis, longitudinal data analysis and optimal designs. In 2012-2013, Dr. Zhang published three peer-reviewed articles, one invited book chapter and submitted five abstracts. Of note is the paper published in *Journal of Allergy and Clinical Immunology* (Gerald LB, Gerald JK, Zhang, B, McClure LA, Bailey WC, Harrington KF. ‘Can a school-based hand hygiene program reduce asthma exacerbations among elementary school children?’ *Journal of Allergy and Clinical Immunology*. 130(6):1317-24. PMID: 23069487), which showed that children at schools with a hand hygiene plan that included hand sanitizers did not suffer asthma attacks less often than children at other schools. While the results may have been confounded by the H1N1 flu epidemic, which broke out at the beginning of the study, the results were noticed by the community and were reported online at Reuters and Bulletin Healthcare. Dr. Zhang was the principle investigator of NIH funded research ’Uterine Fibroids and Infants Hearing Loss Studies Using Interval Censored Data Analysis’ and was involved in several other NIH funded studies.

**Significant Publications**


Bisphenol A (BPA) is a ubiquitous endocrine disrupting chemical found in canned foods, beverages and polycarbonate plastic containers as well as in dental composites and thermal receipts. This paper is the first to show significantly increased failure of embryo implantation in women with higher BPA urine concentrations as compared to women with lower BPA levels. The findings have been included in a consensus paper on BPA and reproduction prepared by an expert panel convened by NIEHS to inform FDA policymakers as they decide this year whether to ban BPA from food packaging.


Although diabetes is a well-known risk factor for stroke, this is the first study to document the incidence of
ischemic stroke among those with diabetes have been documented in a population-based study. The stroke risk ratio for diabetes among blacks decreased significantly from 5.6 in 1993/1994 to 3.2 in 2005; among whites the risk ratio remained stable at 3.8. Risk ratios also varied with age, suggesting a stronger association between diabetes and ischemic stroke in younger age groups.


This paper shows that speech delay may be influenced by a gene-gene interaction between WNT2 gene polymorphisms and EN2 gene polymorphisms, while age at first phrase may be influenced by an interaction between FOXP2 gene polymorphisms and paternal age. The impact of paternal age and locus-locus interactions on neurodevelopment associated with speech delay is a promising research area.


This paper presents reassuring follow-up data on a cohort of HIV-discordant couples who participated in a medically assisted conception program in Italy, where the HIV-positive man’s semen was processed before insemination to prevent HIV transmission. The results are likely to lead to a policy review at the U.S. Centers for Disease Control and Prevention, which for many years has recommended against any exposure of an HIV-negative woman to the semen of her HIV-positive partner.


Obesity has been associated with an increased risk of postmenopausal breast cancer. This study of 1412 women participating in the Multiethnic Cohort Study found that women with the highest prediagnostic levels of circulating leptin and leptin:adiponectin ratio were at an approximately 90% increased risk of breast cancer over the study period. In addition, the associations were strongest for normal weight women: previous studies have reported the greatest correlations between leptin measured in the blood and breast tissue in this group. This study contributes to our understanding of the mechanisms linking obesity to postmenopausal breast cancer and suggests future directions for therapeutic intervention.

Division Publications


34. Gallo MF, Snead MC, Black CM, Brown TM, Kourtis AP, Jamieson DJ, Carter M, Penman-Aguilar A,


**Faculty, Staff, and Trainees**

**Faculty Members**

**Maurizio Macaluso, MD, DrPH,** Professor  
**Leadership** Division Director  
**Research Interests** Epidemiologic research methods; cancer epidemiology; occupational epidemiology; health effects of sexual, reproductive and contraceptive behavior; acceptability, efficacy and safety of contraceptive and assisted reproductive technology; infectious disease epidemiology; surveillance systems.

**Mekibib Altaye, PhD,** Associate Professor  
**Leadership** Director, Biostatistical Consulting Unit  
**Research Interests** Design and analysis of correlated, clustered and longitudinal data. Design and analysis of functional and structural brain image data and inference procedures for reliability data.

**Katherine Bowers, PhD,** Assistant Professor  
**Research Interests** Perinatal epidemiology, maternal genetic and environmental exposures and offspring neurodevelopment including autism spectrum disorders.

**Lili Ding, PhD,** Assistant Professor  
**Research Interests** Bayesian statistics and its applications in biomedical research, including statistical genetics, population pharmacokinetics and pharmacodynamics (PK/PD), latent variable modeling, and survival analysis.

**Shelley Ehrlich, MD, MPH, MSc, ScD,** Assistant Professor  
**Research Interests** Environmental exposures to endocrine disruptors and perinatal and reproductive health outcomes, fetal programming of childhood diseases, molecular epidemiology (epigenetics, gene-environment interactions), and global health.

**Lin Fei, PhD,** Associate Professor  
**Research Interests** Clinical trial design and analysis, probability models in ranking and selection, categorical data analyses.

**Jessica Graus Woo, PhD,** Associate Professor  
**Research Interests** Developmental pathways leading to pediatric obesity, and specific metabolic
complications of obesity, such as insulin resistance and dyslipidemia.

**Md. Monir Hossain, PhD, Assistant Professor**

**Research Interests** Spatial and spatial-temporal point process and area level modeling, mixture models, inter-rater reliability, multi-level modeling, and health services and outcomes research.

**Bin Huang, PhD, Associate Professor**

**Research Interests** Mediation analysis, statistical causal inference, and Bayesian statistics modeling.

**Richard F. Ittenbach, PhD, Professor**

**Leadership** Director, Scale Development Unit

**Research Interests** Development, validation and analysis of scales for measurement of biomedical and bio-behavioral factors.

**Jane C. Khoury, PhD, Associate Professor**

**Research Interests** Epidemiology of stroke, the effect of intra-uterine exposure to type 1 diabetes on childhood growth, metabolism and cardiac function.

**Mi-Ok Kim, PhD, Associate Professor**

**Research Interests** Extension of propensity score methods to multilevel observational data and use of quantiles to better depict the rate of decline in a key pulmonary functional measurement in cystic fibrosis patients. Principal area of application is inflammatory bowel disease and cancer.

**Eileen King, PhD, Associate Professor**

**Research Interests** Design and analysis of clinical trials for health care and pharmaceutical research studies. Comparative effectiveness research using clinical data from large multi-site registries.

**Ping-I Lin, MD, PhD, Assistant Professor**

**Research Interests** Genetic epidemiology, imaging genetics, pharmacogenomics, eye tracking tests, and biostatistical methods focused on structural equation modeling, clustering algorithms and admixture analysis.

**Jareen Meinzen-Derr, PhD, Associate Professor**

**Research Interests** Hearing and deafness, developmental disabilities, neonatal outcomes.

**Nicholas Ollberding, PhD, Assistant Professor**

**Research Interests** The role of diet in the etiology and the survival of cancer, dietary assessment and analysis methodology, and the molecular epidemiology of cancer.

**Patrick Ryan, PhD, Assistant Professor**

**Research Interests** Air pollution epidemiology and exposure assessment, pediatric respiratory health, neurobehavioral development, indoor air pollutants, and environmental exposure to elongated mineral fibers.

**Shelia R. Salisbury, PhD, Professor Emerita**

**Research Interests** Design, analysis, and interpretation of results from clinical trials and observational studies.

**Heidi Sucharew, PhD, Instructor**

**Research Interests** Stroke, epidemiology and clinical trials, environmental exposures and child health, structural equation modeling, latent profile analysis, and latent variable modeling.

**Rhonda Szczesniak, PhD, Assistant Professor**

**Research Interests** Biostatistical interests: functional data analysis applications, including self-modeling, semiparametric and nonparametric regressions. Epidemiologic interests include diabetes in pregnancy and outcomes research for children with cystic fibrosis and obstructive sleep apnea.
Bin Zhang, PhD, Assistant Professor
Research Interests Statistical methods in clinical trials, survival analysis, longitudinal data analysis and optimal designs.

Joint Appointment Faculty Members

Melinda Butsch Kovacic, MPH, PhD, Assistant Professor (Asthma Research)
Research Interests Environmental and community-based epidemiology; genetic, epigenetic, and environmental biomarkers of chronic disease with emphasis on asthma and cancer; assessment and symptom prevention via multimedia intervention approaches.

Cnota James F., MD, Associate Professor (Cardiology)
Research Interests Multicenter trials in pediatric heart disease, fetal cardiology, perinatal outcomes in congenital heart disease.

Nancy Daraiseh, PhD, Assistant Professor (Center for Professional Excellence Research & EBP)
Research Interests Occupational health and safety; human factors; patient safety; health outcomes; stress.

Adekunle Dawodu, MD, Professor (Center for Global Child Health)
Research Interests Vitamin D and International child health outcomes

Donna Carlson Jones, PhD, Assistant Professor (Plastic Surgery)
Research Interests Bone development and shape, and how ontogeny, function, and evolution of craniofacial morphology influence disease states such as mandibular hypoplasia.

Long Lu, PhD, Assistant Professor (Biomedical Informatics)
Research Interests Using quantitative approaches, to address fundamental questions in molecular biology and human diseases, in particular, deciphering the human genetic blueprint, modeling complex biological systems, and facilitating drug discovery and development.

Lisa J. Martin, PhD, Associate Professor (Human Genetics)
Research Interests Statistical genetics, statistical methods to improve genotype quality, obesity, cardiovascular genetics, allergic diseases.

Arthyte L. Morrow, PhD, Professor (Director, Center for Interdisciplinary Research in Human Milk and Lactation)
Research Interests Molecular Epidemiology of Human Milk, Epidemiologic Methods, Prevention of Infectious Disease, Predictive Biomarkers of Neonatal Outcomes

Jennie G. Noll, PhD, Professor (Behavioral Medicine & Clinical Psychology)
Research Interests Developmental effects of childhood abuse, longitudinal methods, multivariate, dynamic modeling.

Sunghee Oh, PhD, Assistant Professor (Human Genetics)
Research Interests Temporal dynamic methods in gene expression profiles, bayesian inference of genetic regulatory networks, and statistical and computational methods on hierarchical structures on post transcriptional process.

James L. Peugh, PhD, Assistant Professor (Behavioral Medicine & Clinical Psychology)
Research Interests Cross-sectional, longitudinal, and multilevel latent variable mixture modeling; missing data handling; pedagogical manuscripts.

Joseph R. Rausch, PhD, Associate Professor (Behavioral Medicine & Clinical Psychology)
Research Interests Longitudinal data analysis; longitudinal RCTs; design and analysis of behavioral
interventions; adherence to treatment regimens.

Chad E. Shenk, PhD, Assistant Professor (Behavioral Medicine & Clinical Psychology)

Research Interests Childhood maltreatment, psychological and physiological mediators of stress and trauma exposure, research design and methodology, and statistical modeling.

Trainees

Li Duan, MS, 2011, University of Cincinnati, Cincinnati, OH
Baole Fan, PhD, 2012, University of Cincinnati, Cincinnati, OH
Dan Li, MS, 2011, Uppsala University, Sweden
Yongchao Liu, MS, 2010, University of Cincinnati, Cincinnati, OH
Yuankun Zhang, MS, 2010, Shandong University, China
Yuanshu Zou, PhD, 2012, University of Cincinnati, Cincinnati, OH

Division Collaboration

Adolescent Medicine » Frank Biro and Jessica Kahn
Lili Ding, PhD – Dr. Ding collaborates with Dr. Kahn on her two RO1s entitled behavioral and virologic impact of HPV immunization and Epidemiologic Impact of HPV Vaccination. She provides statistical support for analysis plan, statistical analysis, abstract and manuscript preparation.

Bin Huang, PhD – Dr. Huang collaborates with Dr. Biro on two NIH funded projects (U01 & R21), investigating the relationship between puberty and cancer initiation, and understanding the role of pubertal developmental process to the development of childhood obesity. She collaborates with Dr. Kahn on her RO1 entitled behavioral and virologic impact of HPV immunization.

Allergy and Immunology » Mark Rothenberg and Juan Abonia
Eileen King, PhD – Dr. King provides statistical support for study design, data base creation, statistical analysis, and abstract and manuscript preparation for research studies.

Anderson Center for Health Systems Excellence » Adam Carle, Heather Kaplan, Carole Lannon, Peter Margolis, Kieran Phelan, and Michael Seid
Jane Khoury, PhD – Dr. Khoury has been collaborating with Dr. Phelen over the past ten years providing statistical support. In particular, we work together on interpretation of the analyses and preparation of abstracts and manuscripts.

Mi-Ok Kim, PhD – Dr. Mi-Ok Kim collaborates with researchers in the division on the design and analysis of clinical and preclinical studies generally.

Eileen King, PhD – Dr. King provides leadership for the Data Coordinating Center activities for the multi-site learning networks. She leads all data management support including data base creation, cleaning and maintenance and also leads the statistical support for abstract and manuscript development.

Maurizio Macaluso, MD, DrPH – Dr. Macaluso participates in the activities of the Health Services Research Matrix and collaborates with the Anderson Center faculty on faculty recruitment, on mentoring for junior faculty and on training grant initiatives. He is responsible for Epidemiology in the newly established Health Services Research Core.

Rhonda Szczesniak, PhD – Dr. Szczesniak collaborates with outcomes research investigators on latent variable analysis methods for assessing treatment effectiveness in cystic fibrosis.

Anesthesia » Vidya Chidambaran, Smokey Clay, Andrew Costandi, David Moore, Pornawan Ngamprasertwong,
Senthilkumar Sadhasivan, and Rajeev Subramanyam

Lili Ding, PhD – Dr. Ding collaborates with the above listed faculty and fellows and provides statistical support for various research studies on study design, protocol development, statistical analysis and preparation of abstracts and manuscripts.

Md. Monir Hossain, PhD – Dr. Hossain provides statistical support to the faculty and fellows in Anesthesia.

### Asthma Research » Tesfaye M Baye

Lili Ding, PhD – Dr. Ding collaborates with Dr. Baye on the development of research methods for statistical genetics, provides statistical support for genetic data analysis, abstract and manuscript preparation, and grant development.

### Behavioral Medicine and Clinical Psychology » Robert Ammerman and Josh Langburg

Mekibib Altaye, PhD – Dr. Altaye collaborates with Drs Ammerman and Langburg. He provides statistical support for study design, grant development, statistical analysis, and abstract and manuscript preparation for various studies.

Richard Ittenbach, PhD – Dr. Ittenbach collaborates with researchers in the Adherence Center on methodologic issues related to medication treatment adherence and self-management issues.

### Biomedical Informatics » Imre Solte

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr collaborates with Dr. Solte as a co-investigator and a consultant on both ongoing projects and grant support, providing study design and statistical support.

### Cancer and Blood Diseases Institute » Denise Adams, Sonata Jodele, and Dao Pan

Lin Fei, PhD – Dr. Fei work collaborates with Dr. Pan on her R01 application on Gaucher disease mouse step cell transplantation model, by providing statistical analysis sections, collaborates with Dr. Adams and her team on a Phase 2 study of Sirolumas treatment of complicated vascular anomalies. He provides statistical support to this on-going study.

Jane Khoury, PhD – Dr. Khoury collaborates with Dr. Jodele. Dr. Khoury provides statistical support and is involved in interpretation for abstract and manuscript preparation and also in writing grant applications.

Mi-Ok Kim, PhD – Dr. Mi-Ok Kim collaborates with researchers in the Cancer and Blood Diseases Institute (CBDI) on the design and analysis of clinical and preclinical studies generally.

### Center for Professional Excellence Research and Evidence-Based Practice » Nancy Daraiseh

Maurizio Macaluso, MD, DrPH – Dr. Macaluso collaborates with Dr. Daraiseh on injury surveillance and prevention research in selected professional groups at Cincinnati Children’s, and serves as Dr. Daraiseh’s research mentor.

Bin Zhang, PhD – Dr. Zhang collaborates with Dr. Daraiseh by providing statistical support on a funded research which won the Place Outcomes Research Award.

### Child an Adolescent Psychiatry » Drew Barzman, Amy Duncan, and Craig Erickson

Katherine Bowers, PhD – Dr. Bowers is collaborating on Dr. Erickson’s studies of drug treatment, eye tracking and biomarker development in autism spectrum disorders. This collaboration includes statistical support, manuscript writing as well as the development of supplemental projects.

Ping-I Lin, MD, PhD – Dr. Lin is collaborating with Craig Erickson and Amie Duncan on a project that studies the joint effect of immune-related genes and social cognition on aggressive behaviors in high-functioning autism, and Drew Barzman on projects that study the roles of glutamate transporter and calcium channel genes, bullying-victimization, and prefrontal glutamate concentrations, in social cognitive and emotional processes that lead to irritability, aggression, and emotion arousal.
Communication Sciences Research Center » Lisa Hunter

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr collaborates with Dr. Hunter as a co-investigator, providing study design and statistical support for her grants. She also provides statistical support for study design, statistical analysis, abstract, and manuscript preparation for research projects conducted within Audiology.

Developmental and Behavioral Pediatrics » Julia Anixt, Lisa Kuan, Patty Manning, Rebecca Schaffer, and Susan Wiley

Katherine Bowers, PhD – Dr. Bowers collaborates with Drs. Kuan and Manning on research design for grant and protocol development. Dr. Bowers is providing statistical support and support with manuscript preparation for Dr. Shaffer.

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr has an ongoing collaboration with Dr. Wiley (as co-principal investigators) and Dr. Grether on studies regarding co-existing hearing impairment and developmental disabilities. She also provides study design and statistical support to the clinical fellows as needed. Her collaborations with Dr. Manning (as co-principal investigators) regarding autism spectrum disorders screening and referral access. Dr. Meinzen-Derr collaborates with Dr. Anixt, providing methodologic support regarding research related to decision making in autism spectrum disorders.

Education and Learning »

Richard Ittenbach, PhD – Dr. Ittenbach collaborates with the Educational and Organizational Effectiveness department with respect to the statistics and study design components the Data Management Curriculum.

Emergency Medicine » Todd Florin, Benjamin Kerrey, and Melinda Mahabee-Gittens

Jane Khoury, PhD – Dr. Khoury has an ongoing collaboration with Dr. Mahabee-Gittens focusing on the initiation and potential family influences on youth cigarette smoking. Dr. Khoury provides statistical support together with, Yang Xiao, a graduate student. Support is given for analysis interpretation for abstracts and manuscripts, and also for grants proposals.

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr collaborates with Drs. Kerrey and Rinderknecht on projects focused on intubation in the emergency room, providing statistical support for study design, statistical analysis, abstract, and manuscript preparation, and with Dr. Florin, providing him methodologic support for his projects focused on community acquired pneumonia seen in the ER.

Endocrinology » Nancy Crimmins, Lawrence Dolan, Deborah Elder, David Klein, Susan Rose, Meilan Rutter, and Amy Shah

Jessica Graus Woo, PhD – Dr. Woo has ongoing collaborations with Dr. Deborah Elder on the assessment of beta cell function in newly-diagnosed adolescents with Type 2 diabetes, and with Dr. Nancy Crimmins on the assessment of metabolic dysregulation in obese toddlers. She is also working with Dr. Crimmins to develop a comprehensive obesity biorepository for the study of genetics and environment in this population.

Jane Khoury, PhD – Dr. Khoury has an ongoing collaboration with Dr. Dolan working on an RO1 grant submission, to examine the long-term effects of in-utero exposure to diabetes. She has worked with Dr. Rose characterizing children with Fanconi Anemia and Shwachman-Diamond Syndrome, with Dr. Rutter assessing fractures in Duchenne Muscular Dystrophy patients, with Dr. Elder assessing beta cell function in those newly diagnosed with type 2 diabetes, with Dr. Klein on weight gain in adolescents treated with SGAs, with Dr. Shah on HDL and Insulin in adolescents. Dr. Khoury also serves on the SOC committee.

Gastroenterology, Hepatology, and Nutrition » Jorge Bezerra, Maisam-Abu-El-Haija, Tom Lin, Joe Palermo, and Stavra Xanthakos

Lin Fei, PhD – Dr. Fei collaborates with Dr. Bezerra and his team on his ChiLDREN (Childhood Liver Disease Research and Education Network) ancillary study, and a proposal for further investigation. He provides
statistical support for biomarkers, clinical outcome analyses, and abstract preparation; with Drs. Abu-El-Haija, Lin, and Palermo on Pancreatitis registry, as well as in-house GI physician survey on variability in management of pediatric acute pancreatitis. He provides statistical support on planning, analysis, and inference of survey results, as well as preparation of abstracts; and he collaborates with Drs. Xanthakos and Halley Wasserman (Endocrinology) on their Non-alcoholic Fatty Liver Disease study proposal.

**Mi-Ok Kim, PhD** – Dr. Mi-Ok Kim collaborates with researchers in the division on the design and analysis of clinical and preclinical studies generally.

**Eileen King, PhD** – Dr. King provides statistical support for study design, data base creation, statistical analysis, and abstract and manuscript preparation for research studies.

**General and Community Pediatrics** » Bill Brinkman, Kristen Copeland, Robert Kahn, Heidi Kalkwarf, Nicholas Newman, Kieran Phelan, and Kimberly Yolton

**Mekibib Altaye, PhD** – Dr. Altaye collaborates with Dr. Yolton on her insecticide exposure study providing statistical analysis, abstract, and manuscript preparation services.

**Jessica Graus Woo, PhD** – Dr. Woo has an ongoing collaboration with Dr. Kalkwarf to jointly conduct data management and statistical analysis using the Epidemiology of BMI Rebound dataset. She and Dr. Kalkwarf have also co-developed a project to recontact and follow up the BMI Rebound cohort.

**Bin Huang, PhD** – Dr. Huang collaborates with Dr. Robert Kahn on his RO1 aimed to understand racial disparity in child asthma morbidity. She collaborates with Dr. Phelan on his RO1 that evaluating an injury intervention program in young children.

**Jane Khoury, PhD** – Dr. Khoury has ongoing collaboration with Drs. Copeland and Yolton, providing help with study design and statistical support. Dr. Khoury has also been involved with overseeing data management and very involved with abstract and manuscript preparation.

**Nicholas Ollberding, PhD** – Dr. Ollberding has developed collaborations with Dr. Kalkwarf which have resulted one manuscript publication and several in preparation, as well as future grant applications.

**Patrick Ryan, PhD** – Dr. Ryan collaborates with Dr. Kahn on a NIH funded study of factors associated with asthma hospitalizations in Cincinnati. Dr. Ryan works with Drs. Yolton and Newman on a NIH funded study of the impact of childhood exposure to traffic-related air pollution and neurobehavioral development in childhood.

**Heidi Sucharew, PhD** – Dr. Sucharew has ongoing collaborations with the division providing statistical support for study design, statistical analysis, abstract and manuscript preparation, and grant applications for all faculty and fellows within the division. Dr. Sucharew collaborates with Dr. Yolton on her environmental exposures and child neurobehavior studies providing statistical analysis using the HOME study cohort. She collaborates with Dr. Brinkman on his K23 award providing statistical analyses for research studies focusing on ADHD medication adherence. She also collaborates with Dr. Kalkwarf on studies of adiposity and puberty.

**Global Child Health** » Adekunle Dawodu

**Mekibib Altaye, PhD** – Dr. Altaye collaborates with Dr. Adekunle Dawodu on his randomized controlled trial to investigate the impact of different doses of Vitamin D on the mother and child outcome.

**Jessica Graus Woo, PhD** – Dr. Woo collaborates with Dr. Adekunle Dawodu to assess the vitamin D status in breastfed infants and their mothers.

**Eileen King, PhD** – Dr. King provides statistical support for study design, data base creation, statistical analysis, and abstract and manuscript preparation for research studies.

**Hospital Medicine** » Lilliam Ambroggio and Samir Shah

**Maurizio Macaluso, MD, DrPH** – Dr. Macaluso collaborates with Dr. Shah on faculty recruitment, on
mentoring for junior faculty and on training grant initiatives. He serves as a co-mentor for Dr. Lilliam Ambroggio and collaborates on the development of comparative effectiveness research projects.

**Heidi Sucharew, PhD** – Dr. Sucharew has ongoing collaborations with the division providing statistical support for study design, statistical analysis, abstract and manuscript preparation for all faculty and fellows within the division.

**Molecular Immunology** » Senad Devanovic

Jessica Graus Woo, PhD – Dr. Woo collaborates with Dr. Senad Devanovic to conduct translational research on an immunological protein related to obesity.

**Neonatology and Pulmonary Biology** » Laurel Bookman, Neera Goyal, James Greenberg, Stephanie Merhar, Ardythe Morrow, Laurie Nommsen-Rivers, Kurt Schibler, Andrew South, Christina Valentine, and Laura Ward

Mekibib Altaye, PhD – Dr. Altaye collaborates with Drs. Morrow and Schibler in their investigation of characterizing and comparing microbiome of the gut in different infant groups. He provides study design and statistical analysis support for different projects.

Jessica Graus Woo, PhD – Ongoing collaboration with Drs. Ardythe Morrow and Christina Valentine on an international birth cohort of breastfed infants. She also works collaboratively with Dr. Laurie Nommsen-Rivers on research regarding human milk composition and infant metabolism.

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr has ongoing collaborations with Drs. Bookman (tongue-based obstruction studies), Greenberg (neonatal outcomes related to prematurity), Goyal (factors related to ECS enrollment), Merhar (brain injury and imaging) Morrow and Ward (human milk studies in premature infants), Kurt Schibler (NEC in premature infants), South (Gastroschisis and imaging studies). She also provides epidemiologic and statistical support, abstract and manuscript preparation for research studies and supports fellowship research.

**Nephrology** » Stuart Goldstein

Jessica Graus Woo, PhD – Ongoing collaboration with Dr. Goldstein on projects regarding biomarker evaluation for acute kidney injury after cardiopulmonary bypass in children.

**Neurology** » Jennifer Vannest

Mekibib Altaye, PhD – Dr. Altaye collaborates with Dr. Vannest providing study design and statistical analysis support for her grant that examines how seizures and abnormal brain activity affect language skills in children with centro-temporal spikes.

**Otolaryngology** » Ellis Arjmand, Daniel Choo, Allesandro deAlarcon, Ravi Elluru, John Greinwald, Charles Myer, and Michael Rutter

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr collaborates with Dr. Choo, Greinwald, and Arjmand regarding research directly related to pediatric hearing loss. She collaborates with Drs. Elluru, deAlarcon, and Rutter on projects that are related to airway reconstruction. She also provides support to Drs. deAlarcon and Myer for education of fellows and ENT residents. She provides ongoing epidemiologic and statistical support for research projects.

**Pathology and Laboratory Medicine** » Ken Setchell

Eileen King, PhD – Dr. King provides statistical support for data base creation, statistical analysis, and abstract and manuscript preparation for research studies.

**Patient Services** » Rita Pickler

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr collaborates (co-investigator) with Dr. Pickler on her grant focused on patterning and early feeding of premature infants in the neonatal intensive care unit.
Pediatric General and Thoracic Surgery » Thomas Inge
Jessica Graus Woo, PhD – Dr. Woo collaborates with Dr. Thomas Inge on projects relating to his bariatric surgery cohorts.

Pediatric Neurosurgery » Francesco Mangano
Mekibib Altaye, PhD – Dr. Altaye collaborates with Dr. Mangano in his project investigating the DTI measurements of pediatric Hydrocephalus.

Physical Medicine and Rehabilitation » Brad Kurowski
Mekibib Altaye, PhD – Dr. Altaye collaborates with Dr. Kurowski in his K23 and Trustee grant to investigate the efficacy of methylphenidate for management of long term attention problems after TBI.

Plastic Surgery » Donna Jones and Marty Visscher
Md. Monir Hossain, PhD – Dr. Hossain collaborates with Donna Jones in finding how the shape changes with the growth by using the methods developed in geometric morphometrics in combination with spatial statistics. He works with Marty Visscher in developing statistical models for the transfer of baby wipe lotion to skin, and finding significant risk factors that introduce variability in the transfer.

Pulmonary Medicine » Raouf Amin, J.P. Clancy, Daniel Grossoehme, Carolyn Kercsmar, Gary McPhail, Michael Seid, Abu Shamsuzzaman, Narong Simakajornboon, and Jason Woods
Bin Huang, PhD – Dr. Huang collaborates with Dr. Seid on his RO1 evaluating health related quality of life in JIA patients.

Eileen King, Ph.D. – Dr. King provides statistical support for study design, data base creation, statistical analysis, and abstract and manuscript preparation for research studies.

Rhonda Szczesniak, PhD – Dr. Szczesniak collaborates with investigators in Pulmonary Medicine on extramural grants and publications for asthma, neuromuscular dystrophy, cystic fibrosis, rare lung disease and sleep apnea research. She oversees the Pulmonary Biostatistical Core, which acts to advance all facets of pulmonary research through biostatistical consulting and collaboration with excellence in education, collaborative research and methodologic research.

Mekibib Altaye, PhD – Dr. Altaye collaborated with Dr. Cecil in her study of the effect of lead in spectroscopy measures and Dr. Yuan in his study of longitudinal DTI measurements.

Jareen Meinzen-Derr, PhD – Dr. Meinzen-Derr collaborates with Dr. Tkach, providing methodologic support for grants regarding imaging research (specifically in neonates and premature infants).

Patrick Ryan, PhD – Dr. Ryan works with Dr. Cecil on a study of the impact of traffic-related air pollution on brain development. Dr. Cecil is leading the effort to perform MRIs on children enrolled in the study.

Rhonda Szczesniak, PhD – Dr. Szczesniak collaborates with Drs. Janaka Wansapura and Robert Fleck on cardiac MRI research.

Bin Zhang, PhD – Dr. Zhang collaborates with Drs. Chris Anton, Diane Babcock, Alan Brody, Charles Dumoulin, Kathy Emery, Robert Fleck, Beth Kline-Fath, Blaise Jones, Jennifer Kucerea, David Larson, James Leach, Janice McDaniel, Sally O'Hara, Daniel Podberesky, Amy Rowell, Alexander Towbin and Andrew Trout by providing statistical support for over 20 various research studies to include study design, data base creation, statistical analysis, and preparation of abstracts and manuscripts.

Rheumatology » Hermine Brunner, Esi Morgan Dewitt, Ed Giannini, and Dan Lovell
Bin Huang, PhD – Dr. Huang collaborates with Dr. Lovell on his RO1 investigating the biology of responses to TNF blockage in JRA patients; she also collaborates with Dr. Lovell on several other NIH funded RO1 projects that involve randomized clinical trials in autoimmune disease patients. She collaborates with Dr. Dewitt on her UO1 titled enhancing PROMIS in pediatric pain, rheumatology and rehabilitation research. She collaborates with Drs. Brunner, Giannini, Lovell, and Seid on HRQOL in JIA patient project as co-investigator. Dr. Huang serves as the principal statistician to P60 methodological core PI by Dr. Giannini, serving number of Rheumatology investigators.

Sports Medicine » Nicholas Edwards, Tim Hewett, Greg Myer, Mark Paterno, and Laura Schmitt

Jessica Graus Woo, PhD – Dr. Woo collaborates with Dr. Nicholas Edwards regarding analysis and follow-up of physical activity in the BMI rebound cohort.

Bin Huang, PhD – Dr. Huang collaborates with Drs. Hewett, Paterno and Schmitt investigating risk factors related to second onset of ACL injury after ACL reconstruction surgery, and success return to sports.

Jane Khoury, PhD – Dr. Khoury collaborates with Dr. Hewett and Dr. Myer regarding injury in female adolescent athletes. Dr. Khoury provides statistical support and is involved in interpretation for abstract and manuscript preparation and also in writing grant applications.

The Heart Institute » Jeffrey Anderson, Robert Beekman III, Jim Cnota, David Cooper, Alison Divanovic, Robert Hinton, John Jeffries, Angela Kinstler, Shelley Kirk, Catherine Krawczeski, Nicolas Madsen, Bradley Marino, Robert Siegel, Jeffrey Towbin, and Elaine Urbina

Jessica Graus Woo, PhD – Dr. Woo is the statistical manager of the Heart Institute Research Core, and maintains numerous collaborations with both faculty and MD fellows in the Heart Institute. She is co-Principal Investigator with Dr. Elaine Urbina on a large-scale follow-up of the NHLBI Growth and Health Study and other large childhood cardiovascular cohorts. She is working with Drs. Bradley Marino and Nicolas Madsen to develop an international collaboration with Denmark regarding congenital heart disease registries. Dr. Woo also has ongoing collaborations with Drs. Robert Hinton, James Cnota, Catherine Krawczeski, Robert Siegel, Shelley Kirk, and several others.

The Pediatric Neuroimaging Research Consortium » Mark DiFrancesco, Scott Holland, Douglas Rose, Jing Xiang, and Weihong Yuan

Mekibib Altaye, PhD – Dr. Altaye collaborates with Drs. Holland, Yuan and DiFrancesco in study design and statistical analysis of MRI, fMRI and DTI imaging projects.

Rhonda Szczesniak, PhD – Dr. Szczesniak collaborates with Drs. Douglas Rose and Jing Xiang on MEG research; she collaborates with Dr. DiFrancesco on fMRI and DTI data analyses.

Trauma Services » Richard Falcone

Eileen King, PhD – Dr. King provides statistical support for study design, statistical analysis, and abstract and manuscript preparation for research studies.

Grants, Contracts, and Industry Agreements

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Extension of Quantile Regression and Empirical Likelihood Analysis for Censored Data
National Science Foundation
NSF DMS-1007535 10/01/10-09/30/13 $27,736

KING, E

MEDTAPP Building Mental Wellness
Ohio Department Job & Family Svs (OSU)
G-1213-07-0343 1/1/13-6/30/13 $3,235

MEDTAPP Building Mental Wellness
Ohio Dept of Health (OSU)
FAM-32320-5 01/01/13-06/30/13 $966

MEDTAPP Childhood Obesity Network
Ohio Department of Family Svs (OSU)
G-1213-07-0343 01/01/13-06/30/13 $3,235

MEDTAPP Childhood Obesity Network
Ohio Department of Health (OSU)
FAM-33230-04b 01/01/13-06/30/13 $966

MACALUSO, M

Cincinnati Center for Clinical and Translational Sciences and Training - Design, Biostatistics & Ethics
National Institutes of Health(University of Cincinnati)
UL1 TR 000077 04/03/09-03/31/14 $91,593

MEINZEN-DERR, J

Impact of Cognition on Language in Pediatric Hearing Loss
Health Resources & Services Admin
R40 MC 21513 02/01/11-01/31/13 $183,244

RYAN, P

Field Validation of a Personal Sensor for Ultrafine PM in Asthmatic Children
National Institutes of Health(University of Cincinnati)
R01 ES 230387 12/01/11-08/31/13 $34,417

Green Housing Study: Measures of Housing Factors and Pediatric Respiratory Health
National Institutes of Health(University of Cincinnati)
U01 EH 000990 07/01/12-06/30/14 $11,504

Impact of Traffic-Related Particles on Asthma for Students in an Urban School District
National Institutes of Health
R21 ES 017957-04 06/05/12-07/31/13 $146,445

Neurobehavioral and Neuroimaging Effects of Traffic Exposure in Children
National Institutes of Health
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