



Newsletter

DEPARTMENT OF HEALTH SCIENCES

Volume 1 Issue 1 Spring 2012



Message from the Chair

In this Issue

Message from the Chair	1
News and Events	2-4
New Faculty	5-7
New Doctoral Program in Health Informatics	8
New Grants	8
New Concentration in MS in Exercise Science Degree Program	9
Cooperative Education	9
Student Activities and Achievements	10-11
New Courses	11
Invited Talks in 2011	12-13
Publications in 2011	13-15
Editorial Information	15



Welcome to the first issue of the Department of Health Sciences newsletter. This newsletter, to be published annually, will help us to communicate the accomplishments of faculty and students in the department to the University community and to our

valued alumni. I have now been the chair of the Department of Health Sciences for two years and have seen the important contributions of faculty and students to the University and to their disciplines. I am delighted to share the activities of our rapidly growing department with you. We are particularly pleased to report that our MPH program in Urban Health was fully accredited in 2011, and we now have plans to grow and diversify this program. We have doubled the size of our faculty and expanded our scope, with a new cadre of interdisciplinary faculty appointments. Northeastern's innovative initiative to enhance interdisciplinary research and education has paid off well in our department, with wonderful new faculty members, new programs and new research initiatives. Our new faculty members have joint appointments in diverse departments, including computer science (see the new program in health informatics), in law and business (with an expanding focus in health administration and policy) and in physics (network analysis). We have a new professor of biostatistics, and several research faculty members have joined the department with research grant funding. At the same time, our students continue to demonstrate outstanding academic success while somehow balancing this hard work with civic engagement and social activities, interspersed with exciting coop experiences. We hope to include more alumni news in future issues and look forward to keeping in touch with all our outstanding graduates. 2011 has been a great year for us and we look forward to an equally exciting 2012!

Katherine L. Tucker,
Department Chair

News and Events



Master of Public Health in Urban Health:

www.northeastern.edu/bouve/hs/programs/mph.html



In October, the **Master of Public Health Program in Urban Health** received accreditation from the Council on Education for Public Health through 2016 (the maximum possible for new programs). This significant achievement resulted from a three-year collaborative effort involving faculty, staff, students, alumni and community partners. MPH Program Director, Shan Mohammed MD, MPH, ably led this process, with support from numerous faculty and staff members.

The MPH Program in Urban Health at Northeastern University seeks to provide society with knowledgeable and professionally educated racially and ethnically diverse individuals who promote and protect the health of urban communities through innovation in practice-oriented education, research and service. The next phase of development for the MPH program will be to establish an additional concentration of study within the MPH Program as well as develop dual degree programs with other graduate programs at the University. The Program will also continue to expand its activities to support the development of the current public health workforce.

Professor Hortensia Amaro, Associate Dean of Bouvé College and Director of the Institute on Urban Health Research and member of our department, was inducted into the **Institute of Medicine** at a ceremony on Oct. 16, 2011. Amaro's nationally recognized work includes developing an innovative integrated model for the treatment of substance abuse, mental illness, trauma, and HIV/AIDS. She has produced groundbreaking studies on clinical strategies for treating women, launched community-based addiction treatment programs, and forged vital connections between public health research and practice.

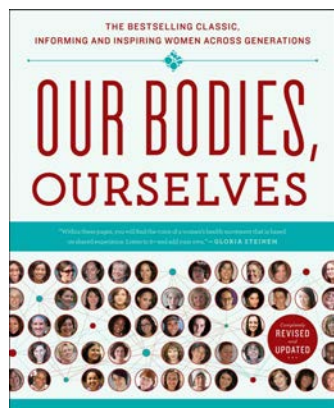
According to the IOM, new membership is determined by current active members through a highly selective process to identify individuals who have made major contributions to the advancement of the medical sciences, health care, and public health. Members are recognized for outstanding professional achievement and commitment to service. Established in 1970, the IOM is part of the National Academies and considered a national resource for independent, scientifically informed analysis and recommendations on health issues.



For more information, please visit:
www.oldwayspt.org/AHH-pyramid

Professor Katherine Tucker, along with Professor Robert Hall from the Department of African American Studies and History, served on a committee for Oldways Preservation Trust to develop a tool for improving diet in the African American Community. Oldways, along with an advisory team of experts in African American and Diasporan history, nutrition, and public health, developed The African Heritage Diet Pyramid—an evidence-based and practical tool to reclaim health. This project was made possible through a Walmart Foundation grant. This cultural eating model was designed specifically for African Americans, to re-introduce them to lost roots of cuisine, optimal health, and beautiful foods—their Healthy Heritage. Diabetes, obesity and heart disease are not a true part of African American heritage. Scientific studies show that chronic conditions like these, now prevalent in African American communities, appear in populations as traditional diets are left behind. The traditional diets of the African Diaspora offer a powerful, affordable, healthy eating model and meet the guidelines promoted today by health professionals everywhere. The Pyramid celebrates the individual foods and the traditional healthy eating patterns of African Heritage, with roots in America, Africa, the Caribbean, or South America.

Dr. Alessandro Vespignani, one of our new interdisciplinary faculty members, was recently elected to the Academy of Europe, in the physics and engineering sciences branch, for his research on the spread of epidemics. The Academy consists of scientists and scholars who collectively aim to promote learning, education and research. Members are nominated annually by a highly selective peer-reviewed process, based on scientific excellence and scholarly achievement, and then elected by the council of the academy. Some 2,300 members, including more than three-dozen Nobel Laureates, currently represent a diverse range of disciplines, such as medicine, mathematics and biological sciences. Dr. Vespignani will be formally inducted into the academy as part of its annual conference next September in Norway. His landmark research on the proliferation of viruses, in which he proved that even weak strains can spread in a real-world, nonrandom, scale-free network, has transformed the analysis of spreading processes and shaped policies aimed at eradicating infections ranging from HIV to computer viruses. As a member of the academy, he will sit on an advisory board that will be called upon to provide input on policymaking and government programs.



Dr. Irina Todorova and collaborators were named **Women's Health Heroes** by Our Bodies, Ourselves Global Network, in celebration of the 40th Anniversary of "Our Bodies, Ourselves", in Boston, 2011. For this anniversary, OBOS "honored the work of its global partners who have adapted "Our Bodies, Ourselves" for their own communities using culturally unique resources – to advance the health and human rights of women and girls, often at great risk to themselves and their families."

www.ourbodiesourblog.org/womens-health-heroes-hall-of-fame

Dr. Alisa Lincoln received the Massachusetts Department of Mental Health Recognition Award for Supporting Transition Aged Youth.

Center for Community Health Education
Research and Service (CCHERS) and

The Community Campus Partnerships
for Health (CCPH)

On December 6th and 7th, Center for Community Health Education Research and Service (CCHERS) Director and department Faculty member, Elmer Freeman, in partnership with Community Campus Partnerships for Health (CCPH), hosted the inaugural conference, "Achieving the Promise of Community Engaged Health Disparities Research: A National Community Partner Forum." This was a national conference to identify the major successes and challenges of community engaged research and its impact on health disparities interventions which inform health care and health services practice. This was the first conference on community engaged research designed by and for the leaders of community based organizations that are partners in research.

100 attendees represented 27 states, the District of Columbia, and the United Kingdom. The majority of participants currently have primary investigative roles in federally funded community engaged research including NIH Clinical and Translational Science Awards, CDC Prevention Research Centers, and awards from the National Institute of Minority Health and Health Disparities. Participants addressed shared concerns, exchanged knowledge, identified replicable models that work, and made recommendations for research, practice, and policy in four main areas: community review of proposed research, governance structures for research, community engagement through the research process, and funding community infrastructure to conduct research. Major outcomes included a participant designed leadership structure for an ongoing national community partner network and five formed work groups around Education, Leadership Development, Ethics, Funding, and Accountability. Community partners are currently motivated about engaged research, and report feeling empowered to prepare a similar conference to occur next December in Washington, DC.



New Faculty



We would like to extend a warm welcome to the following new Health Sciences faculty this year, all of whom are bringing increased diversity and breadth of expertise to the department.

Leo Beletsky, JD, MPH, joined Northeastern in January, 2012 as an Assistant Professor of Law and Health Sciences with a joint appointment at the School of Law and Bouvé College of Health Sciences. Leo is an interdisciplinary social epidemiologist whose interest is in the role of law as a structural determinant of health and the use of policy interventions to improve population health. With funding from the NIH, USAID and Open Society Foundations, his domestic and international research spans drug policy, prevention of HIV and other infectious diseases, health and human rights, criminal justice policy, and evidence-based healthcare. Prior to joining Northeastern, Leo was an Assistant Professor with the Division of Global Public Health at the University of California, San Diego School of Medicine, where he retains an adjunct appointment.



Matthew S. Goodwin, PhD, recently joined Northeastern as an Assistant Professor with joint appointments in the Bouvé College of Health Sciences and College of Computer & Information Science. He is a visiting assistant professor and the former director of Clinical Research at the MIT Media Lab and continues to co-direct the Media Lab Autism & Communication Technology Initiative. Dr. Goodwin serves on the Executive Board of the International Society for Autism Research, is co-chair of the Autism Speaks-Innovative Technology for Autism Initiative and has adjunct associate research scientist appointments at Brown University. Dr. Goodwin has over 15 years of research and clinical experience working with children and adults on the autism spectrum and developing and evaluating innovative technologies for behavioral assessment and intervention, including telemetric physiological monitors, accelerometry sensors and digital video/facial recognition systems. He received his BA in psychology from Wheaton College and his MA and PhD, both in experimental psychology, from the University of Rhode Island. He completed a postdoctoral fellowship in Affective Computing in the Media Lab in 2010.



Christina S. Lee, PhD, joined the Institute on Urban Health Research and the Department of Health Sciences at Bouvé College as a Research Associate Professor. With funding from NIH, Dr. Lee's research focuses on substance abuse and addiction treatment in minority communities and the use of technology to disseminate empirically based treatment.

Prior to joining Northeastern, Dr. Lee was an Assistant Professor (Research) in the Department of Community Health, Brown University, where she was also a postdoctoral fellow at The Center for Alcohol and Addiction Research specializing in intervention science. She is a member of the Motivational Interviewing Network of Trainers and a consulting editor for the American Psychological Association Division 45's journal, *Cultural Diversity and Ethnic Minority Psychology*. She received her MA from Columbia University in Industrial/Organizational Psychology and her PhD in Counseling Psychology from New York University.



Kristin Madison, PhD, JD, is a newly appointed Professor of Law and Health Sciences. She joins us from the University of Pennsylvania, where she was a Professor of Law. In addition to having published numerous health-related articles in law reviews, she has authored or co-authored empirical articles on topics such as mental health care delivery, informed consent for AIDS testing, and the implications of hospital affiliations for health care delivery. Professor Madison will be teaching courses in Health Law, Health Law & Policy and Health Economics as well as pursuing research interests in health care quality reporting, health incentives, and regulatory innovation.



Justin Manjourides, PhD, joins the Department of Health Sciences as an Assistant Professor. Dr. Manjourides recently completed his Postdoctoral Fellowship at the Harvard School of Public Health, where he also received his PhD in biostatistics. In addition to applying his biostatistics skills and experience to health research projects within the department, he will be teaching a course in Biostatistics in Public Health.



Sabrina Noel Feldeisen, PhD, RD, has recently joined the Department of Health Sciences as a Research Assistant Professor. Prior to coming to Northeastern, Dr. Noel received her PhD in Nutritional Epidemiology from Tufts University and completed a Postdoctoral Fellowship at the Boston University School of Medicine in the Department of Pediatrics. She will be teaching undergraduate Nutrition and pursuing research in nutritional epidemiology, child health and obesity, and health disparities with a focus on diet and health.



Alessandro Vespignani, PhD, is the newly appointed Sternberg Distinguished Professor of Physics, Computer Science and Health Sciences. A world-renowned statistical physicist, Dr. Vespignani previously served as Director of the Center for Complex Networks and Systems at Indiana University and earned his PhD in theoretical physics from the University of Rome, La Sapienza. He is currently a fellow of the American Physical Society and elected member of the Academy of Europe. He is also Editorial Board Member of *Mathematical Biosciences*, *Journal of Computational Sciences*, *Nature Scientific Reports* and *PLoS ONE*. Dr. Vespignani's expertise focus on the application of statistical and numerical simulation methods in the analysis of epidemics, study of biological, social and technological networks, and spreading of epidemics. His recent research activity is concerned with modeling the spatial spread of epidemics, including the realistic and data-driven computational modeling of emerging infectious diseases.



Gary Young, JD, PhD, is joining the Department of Health Sciences as the newly appointed Director of the Center for Health Policy and Healthcare Research and Professor of Strategic Management and Healthcare Systems. Before joining Northeastern, Dr. Young was chairman of the Department of Health Policy and Management, Boston University School of Public Health, a senior associate with the Lewin Group, and a healthcare attorney within the federal government. His research interests focus on strategic management of healthcare delivery organizations, quality of care, antitrust law, and pay-for-performance.

New Doctoral Program in Personal Health Informatics

Northeastern's PhD in **Personal Health Informatics (PHI)**, led by new interdisciplinary faculty member **Stephen Intille**, is a new transdisciplinary doctoral program focused on educating top researchers in the theoretical underpinnings, design, evaluation, and dissemination of consumer- and patient-focused health systems. Personal health technologies are those that non-health professionals interact with directly, both in and out of a clinical setting and in various life stages of illness and wellness.

Examples include:

- Assistive technologies that aid persons with disabilities;
- Consumer wellness promotion technologies;
- Patient education and counseling systems;
- Interfaces for reviewing personal health records;
- Advanced ambulatory monitoring for supporting health;
- Automated eldercare systems that monitor health and support independent living; and
- Social networking systems connecting families and their social and medical support networks

Developing personal health interface technologies requires that professionals have skills and experience designing systems for individual patients and consumers with a wide range of backgrounds in different contexts using a variety of media, while ensuring that fielded technologies are effective, reliable, and responsive to the needs of at-risk and patient populations. Critical skills and knowledge include needs assessment, theories of interface design and health behavior, rapid prototyping and implementation, experimental design with human subjects in challenging settings, and statistical data analysis and validation. Moreover, these skills must be deployed while working with, or leading, transdisciplinary teams. The interdisciplinary nature of the program targets students who are interested in improving health and wellness using

novel technologies that directly impact the lives of consumers and patients. This is a program for students who are not only technically strong but also socially conscious, design-oriented, and interested in rigorously evaluating the technologies they imagine and build. The program provides a path for technical students to acquire more experience in the deployment and evaluation of health technologies in the field, but also a path for students with health backgrounds to develop the technical skills needed to prototype and assess creative ideas they envision for improving care. The expected length of study will be 5 years after the bachelor's degree.

For more information, please visit: <http://phi.neu.edu>

New Grants

Dr. Alessandro Vespignani, along with Dr. David Lazer, associate professor of political science and computer science, has been awarded \$1.1 million as part of a \$1.8 million grant from the National Science Foundation to analyze the interdependence between complex networks in natural, social and technological systems. The project will study how an issue may spread through the nation's transportation infrastructure and may inform the design of telecommunication devices, such as smart phones and social networking sites. The research team also plans to design a museum exhibit on network science and collaborate with students in the Boston Public Schools.

Prof. Hortensia Amaro has been awarded a \$1.57 million grant from the Substance Abuse & Mental Health Services Administration (SAMHSA) in collaboration with the Boston Public Health Commission Bureau of Addiction Prevention, Treatment and Recovery Support Services. This grant, entitled "Entre Familia: Comprehensive Family Services Model," funds the development, implementation, and outcomes evaluation of a short-term (4-6 months) family-focused residential treatment model for Latinas (N=126) with drug addiction disorders. Outcomes include substance use, addiction severity, trauma and mental health symptomatology, family cohesion and involvement; and pregnancy and birth outcomes. Major Innovation is the integration of a nurse home visiting program. The study will compare outcomes to those of a previous model of treatment that does not include this component.

New Concentration in the MS in Exercise Science Degree Program

The Exercise Science Program has recently added a Concentration in Physical Activity and Public Health. The concentration was created in recognition of inactivity as a major public health problem that represents a significant risk factor for many chronic diseases including heart disease, stroke, hypertension, metabolic syndrome, obesity, type 2 diabetes, and some types of cancer. Moreover, this concentration integrates physical activity, public health and nutrition, which are recognized as the key competencies for a degree in exercise by the American College of Sports Medicine (ACSM). Faculty in the department are exploring a range of research topics including acute/chronic effects of exercise, community-based exercise and nutrition interventions, nutritional epidemiology, health disparities, urban public health, and application of technology for measuring and motivating behavior change.

For over 30 years, the Exercise Science Program at Northeastern University has provided students with knowledge, skills and abilities to improve the health of individuals and communities. This new concentration is designed to prepare professionals with a core of exercise science and public health courses as well as practicum based research experiences. This will allow students graduating from this program to seek a PhD degree and/or work in the research field. The electives in public health or nutrition provide further skills for graduates to work in settings to implement and evaluate physical activity or nutrition programs in the private and public sectors with opportunities in city, county, or state health departments, federal health agencies, private companies, professional organizations, nonprofit organizations, commercial organizations, health maintenance organizations, hospitals, medical clinics, among others.

The program director is Carmen Castaneda Sceppa, MD, PhD. For more information, please visit:

www.northeastern.edu/bouve/hs/programs/exsci.html

Cooperative Education

Enrollment in the Health Science undergraduate program has been growing over the last few years. We have had 195 placements to date that include 15 students going abroad for their cooperative education (co-op) experience.

This academic year has been an exciting one in the world of the Health Science co-op program. Students now have the option to complete none, one or two six month co-op experiences. During the fall semester 2011, 24 students completed domestic co-ops, and 2 worked internationally. This spring semester, our numbers have grown to 42 students working domestically, and one abroad. We expect these larger classes to continue!

If you think you would like to hire a co-op student in your organization please let us know at d.jordan@neu.edu or l.foster@neu.edu

Finally if you have been on campus recently you may have noticed the banners highlighting different students and their work. One of these banners belongs to our own Binja Basimike. This banner was created as a result of an article that appeared on the news@Northeastern web site. To read the story on Binja's work please visit: www.northeastern.edu/news/stories/2011/07/binja.html

*Dierdre Jordan & Lisa Foster
Northeastern University Bouvé College of Health Sciences
Cooperative Education Coordinators*



Binja Basimike, BS/MPH '12

Student Activities and Achievements

Current MPH graduate student, **Larry Ramdin**, received the Leon Bradley Award for valuable contributions to the field of environmental health. It is the highest honor that can be given to an Environmental Health Practitioner in the New England Region. This award is given to one individual per year and has only been awarded 13 times in 40 years. Larry currently serves with the Board of Health in Salem, MA.



Master of Public Health Graduate Students at the American Public Health Association Conference in Washington, D.C. (L-R: Spencer Mannasse, Katrina Veidins, Brianna Ensslin)



Exercise Science student Brennan Keisling and Dr. Rui Li

Exercise Science student, **Brennan Keisling**, attended the Northeastern University Research & Scholarship Expo on April 6, 2011. He worked with **Dr. Rui Li** as his advisor on a directed study to evaluate the sports performance of the Northeastern women's crew team at the Human Performance & Exercise Science Laboratory. He presented his study as *Evaluation of Aerobic Capacity in Division 1 Women's Rowing – Message behind the Lactate Threshold*. The study shows that the Northeastern women's crew team members possess excellent aerobic capacity with the average blood lactate threshold achieved at 91% VO₂ max. His presentation demonstrates the Exercise Science students' application of health and exercise knowledge to the field and engagement in research activities.

MPH student, **James Leone**, recently published a textbook: ***Concepts in Male Health: Perspectives Across the Lifespan***, with Wiley publishers. The text offers a practical approach to understanding the health of males of all races, ethnicities, socioeconomic status, cultures, ages, and orientations. Each chapter comprehensively reviews an important dimension of male health and examines the contributing historical, epidemiological, psychosocial, cultural-ethical, legal, political, and economic influences. James is a first year MPH student who is currently an Assistant Professor of Health in the Department of Movement Arts, Health Studies, and Leisure Studies at Bridgewater State University. He earned his PhD in health education from Southern Illinois University Carbondale.

Undergraduate student, **Jonathan Smileye**, received a Provost's undergraduate Research Award in January 2011 mentored by Professor Sceppa to conduct research on health disparities in the Healthy Kids, Healthy Futures Initiative. www.northeastern.edu/healthykids

Student Activities and Achievements

http://youtu.be/TpziQDj-8_8

Check out this new :30 Northeastern commercial running on NECN this month featuring Health Science student *Binja Basimike, BS/MPH '12*

New Courses

PHTH 5234: Economic Perspectives on Health Policy

This course uses basic economic concepts to illuminate the many factors that shape health, health care, and the health care system in the United States. It examines the role of economics in explaining the challenges we face in increasing access, limiting cost, and improving quality. It then explores how policymakers, market participants, and others can remedy access, cost, and quality deficiencies. The course also illustrates how economic concepts can be applied to the study of health and health behaviors.

PHTH 6320: Qualitative Methods in Health and Illness

Discusses qualitative inquiry in general and specifically in topics related to public health and experiences of self, health, illness, and the body. Qualitative research aims to achieve in-depth and contextual understanding of people, culture, and societies and usually employs texts, interviews, published materials, images, and focus group discussions as sources of data. The course integrates theoretical and methodological readings and discussions with designing and conducting a qualitative project. Aims to understand meanings of health, illness, and the body in a variety of "local worlds" and reflect on their importance for informing policy, public health, research, and practice. *Now open to senior undergraduate and graduate students from all colleges at Northeastern University*

PHTH 5228: Advances in Measuring Behavior

Offers a survey and project-oriented course examining current and emerging methods of measuring human behavior known to impact human health. Discusses some of the most common instruments used to measure everyday behaviors and considers how emerging technologies may change how these behaviors are measured in the future. Explores the measurement of behaviors such as the following: activities of daily living, dietary decision making, patterns-of-eating behavior, physical activity, sedentary behavior/posture, screen time, activity in the community, social-connectedness, stress and stressful events, affective state, medication adherence, use of alcohol and addictive substances, risky behaviors, and physiological states that can be measured using wearable devices in the field (e.g., heart rate and blood pressure).

Open to senior undergraduates from all colleges at Northeastern University

PHTH 5210: Biostatistics in Public Health

Offers public health students an opportunity to obtain the fundamental concepts and methods of biostatistics as applied predominantly to public health problems and the skills to perform basic statistical calculations. Emphasizes interpretation and comprehension of concepts. Topics include descriptive statistics, vital statistics, sampling, estimation and significance testing, sample size and power, correlation and regression, spatial and temporal trends, small area analysis, and statistical issues in policy development. Draws examples of statistical methods from the public health practice. Introduces use of computer statistical packages.

Prerequisite. Enrollment in MPH or exercise science program or permission of instructor.

Faculty Invited Presentations

Mathew Goodwin

- “Developing Innovative Technology to Enhance Research & Learning in Autism Spectrum Disorders.” Keynote address at the 29th Annual Autism New Jersey Conference, Atlantic City, NJ, October 13th-14th.
- “Developing Innovative Technology to Enhance Research & Learning in Autism Spectrum Disorders.” Keynote address at the 3rd Annual KidA Summit on Autism, University of California Irvine, September 17th.
- “Developing Innovative Technology to Enhance Research & Learning in Autism Spectrum Disorders.” Invited address at the University of Southern California Viterbi School of Engineering, Los Angeles, CA, September 15th.
- “Developing Innovative Technology to Enhance Research & Learning in Autism Spectrum Disorders.” Invited address at the University of California San Diego Research on Aging and Development Laboratory, San Diego, CA, September 16th.
- “Innovative Technologies for Quantifying Behavioral Phenotypes in Individuals with Autism Spectrum Disorders.” Invited address at the Simons Foundation Biomarkers Workshop, Stonybrook, NY, July 23rd-24th.
- “Modeling the Dynamics in Physiological Arousal Between Children with Sensory Processing Disorder and Therapists During Psychotherapy.” Invited symposium at the International Meeting of the Psychometric Society, Hong Kong, July 19th-22nd.
- “Developing Innovative Technology to Enhance Research & Practice in Autism Spectrum Disorders.” Keynote address at the No Barriers Summit 2011, Winter Park, CO, June 30th-July 3rd.
- “Developing Innovative Technologies to Enhance & Accelerate Behavioral Science Research.” Keynote address at the 2nd Biennial Conference of the Society for Ambulatory Assessment, Ann Arbor, MI, June 24th-26th.
- “Developing Innovative Technologies to Enhance and Accelerate Research and Learning with Individuals on the Autism Spectrum.” Keynote address at the 2011 NeuroDevNet Brain Development Conference, Vancouver, BC, June 19th-21st.
- “Emerging Technologies for Measuring and Tracking Biological and Interpersonal Dynamics.” Invited Address at the 22nd Annual International Trauma Conference, Boston, MA, May 18th-21st.
- “Understanding the Role of Stress and Anxiety in Social Competence.” Invited address at the Youthcare/MGH Annual conference, Boston, MA, April 9th.
- “Wireless Sensing of Physiological & Physical Activity in Individuals with Autism Spectrum Disorder.” Invited address at the Association for the Advancement of Artificial Intelligence Spring Symposia on Computational Physiology, Stanford University, Palo Alto, CA, March 21st-23rd.

Alisa Lincoln

- “Literacy in Mental Health and Mental Illness.” Invited presentation and panel moderator at the National Health Literacy Conference, Chicago, IL, October 2011.

Irina Todorova

- “Challenges to women’s health, rights and autonomy in Eastern Europe.” Invited presentation at the panel discussion at Our Bodies Ourselves 40th Anniversary Symposium, Boston, MA, October 1st.
- “Perspectives of health professionals and patients from five countries on sources of work stress and burnout”, Invited Symposium organizer and presenter, 25th Conference of the European Health Psychology Society, Crete, Greece, September 20-24th, 2011; *Psychology and Health*, 26, Supp. 2

Katherine L Tucker

- “Carbohydrate intake patterns and health in epidemiologic studies.” ILSI North America Carbohydrates Committee Meeting, Washington DC, October 2011.
- “Dietary patterns of aging adults.” IOM conference on Nutrition and Healthy Aging in the Community, Washington DC, October 2011.
- “Assessing dietary intake for use in studies of gene-diet interaction.” Conference on population based studies in Hispanics. Methodological issues in cancer research. University of Puerto Rico, San Juan, Puerto Rico, August 2011.
- “Allostatic load and CVD in Puerto Rican populations.” Harvard Symposium. Stress and Disease: Lessons for Research on Cancer, Boston, MA, May 2011.
- “Diet and Bone: the Framingham Osteoporosis Study.” Department of Epidemiology seminar series, University of Massachusetts, Amherst, MA, April 2011.
- “Moderate alcohol consumption and aging,” keynote presentation; and “Moderate alcohol consumption and osteoporosis,” additional presentation. Simposio Internacional Moderado Consumo de Alcohol: Riesgos y Beneficios Para La Salud. Asociacion Colombiana de Endocrinologia, Bogota, Colombia. February 2011.
- “Diet and bone health.” Nutritional Medicine Workshop Series and Certificate Program, Rush University, Chicago, IL, January 2011.

Carmen Sceppa

- “Enabling a Lasting Active Lifestyle in Adults: Exercise interventions primarily focused on the individual are effective but short lived.” Symposium organizer & presenter at the NE American College of Sports Medicine conference, Pursuing Scientific Discovery: Technology, Innovation, & Creativity for Applications in Sports Medicine and Exercise & Sport Sciences, Providence, RI, November 2nd-3rd.

Alessandro Vespignani

- "Frontiers in multiscale computational modeling for zoonotic epidemics." Workshop, Kansas City, October 10th-12th.
- "Data Science and Epidemiology." Workshop, Center for Infectious Disease Dynamics (CIDDD) at Penn State University, PA, October 6th-7th.

Gary Young

- "Governance for Accountable Care Organizations." World Congress 2nd Annual Leadership Summit on Accountable Care Organizations, Virginia, May 2011.
- "Pay-for-Performance: Lessons learned from Physicians and Hospitals." Panel Moderator at the Pharmacy Quality Alliance 6th annual meeting, June 2011.
- "IT Tools and Clinical Connectivity – Pulling it All Together to Achieve the Triple Aim." Panel Moderator at the Continuing education activity for Healthcare Financial Management Association (Region 1), Boston, MA, June 2011.
- "Measurement Tools – Analyzing the Data to Generate the Right Metrics." Panel Moderator at the World Congress Annual Health Care Quality Congress, August 2011.
- "Regional Quality Collaboratives: Accomplishments, Challenges and Opportunities." Webinar arranged through the Agency for Healthcare Research and Quality, August 2011.
- "Regional Quality Collaboratives: Accomplishments, Challenges and Opportunities" and "Issues in the Design and Implementation of Pay-for-Performance Programs." Agency for Healthcare Research and Quality Annual Meeting, September 2011.

Faculty Publications

- Beletsky L**, Agrawal A, Moreau B, Kumar P, Weiss-Laxer N, Heimer R. "Police training to align law enforcement and HIV prevention: preliminary evidence from the field." *Am J Pub Health* 2011;101(11):2012-15.
- Beletsky L**, Grau LE, White E, Bowman S, Heimer R. "The roles of law, client race, and program visibility in shaping police interference with the operation of syringe exchange programs." *Addiction* 2011;106(2):357-65.
- Benze J, **Young G**, Osatuke K, Stolzmann K, Meterko M, Caso A, White B, Mohr DC. "The relationship between organizational climate and quality of chronic disease management." *Health Serv Res* 2011;46(3):691-711.
- Bhupathiraju S, **Tucker KL**. "Coronary heart disease prevention: nutrients, foods, and dietary patterns." *Clinica Chimica Acta* 2011;412:1493-1514.
- Bhupathiraju S, **Tucker KL**. "Greater variety in fruit and vegetable intake is associated with lower inflammation in Puerto Rican adults." *Am J Clin Nutr* 2011;93:37-46.
- Bhupathiraju S, Dawson-Hughes B, Hannan MT, Lichtenstein AH, **Tucker KL**. "Centrally located body fat is associated with lower bone mineral density in Puerto Rican older adults." *Am J Clin Nutr* 2011;94:1063-70.
- Bhupathiraju S, Lichtenstein A, Dawson-Hughes B, **Tucker KL**. "Adherence index based on the AHA 2006 Diet and Lifestyle Recommendations is associated with select cardiovascular disease risk factors in older Puerto Ricans." *J Nutr* 2011;141:460-9.
- Brahms E, Ahl M, Reed E, **Amaro H**. "Effects of an alcohol intervention on drinking among female college students with and without a recent history of sexual violence." *Addictive Behaviors* 2011;36(12):1325-8.
- Buell J, **Tucker KL**. "The value of physiologic vitamin D as a biomarker of dementia?" *Drugs Today* 2011;47:223-231.
- Carey KJ, Burgess JF, **Young G**. "Hospital Competition and Financial Performance: The Effects of Ambulatory Surgical Centers" *Health Economics* 2011;20:571-81.
- Carroll BC, Raj A, **Noel SE**, Bauchner H. "Dating violence among adolescents presenting to a pediatric emergency department." *Arch Pediatr Adolesc Med* 2011;165:1101-6.
- Cohen IL, Yoo HY, **Goodwin MS**, Moskowitz L. "Assessing challenging behaviors in Autism Spectrum Disorders: Prevalence, rating scales, and autonomic indicators." In J. Matson & P. Sturmey (Eds.) *International Handbook of Autism and Pervasive Developmental Disorders*. Springer, 2011, pp. 247-70.
- Corella D, Arnett DK, **Tucker KL**, Kabagambe EK, Tsai M, Parnell LD, Lai CQ, Lee YC, Warodomwicht D, Hopkins PN, Ordovas JM. "A high intake of saturated fatty acids strengthens the association between the fat mass and obesity-associated gene and BMI." *J Nutr* 2011;141:2219.
- Farina EK, Kiel DP, Roubenoff R, Schaefer EJ, Cupples LA, **Tucker KL**. "Protective effects of fish intake and interactive effects of long-chain polyunsaturated fatty acid intakes on hip bone mineral density in older adults: the Framingham Osteoporosis Study." *Am J Clin Nutr* 2011;93:1142-51.
- Farina EK, Kiel DP, Roubenoff R, Schaefer EJ, Cupples LA, **Tucker KL**. "Dietary intakes of arachidonic acid and alpha-linolenic acid are associated with reduced risk of hip fracture in older adults." *J Nutr* 2011;141:1146-53.
- Goodwin MS**. "Passive telemetric monitoring: Novel methods for real-world behavioral assessment." In M. Mehl & T. Conner (Eds.) *Handbook of Research Methods for Studying Daily Life*. Guilford, 2011, pp. 251-66.
- Goodwin MS**, Intille SS, Albinali F, Velicer WF. "Automated detection of stereotypical motor movements." *J Autism Dev Disord* 2011;41:770-82.
- Henkin S, **Tucker KL**, Gao X, Falcon LM, Qawi I, Brugge D. "Association of depression, psycho-social stress and acculturation with respiratory disease among Puerto Rican adults in Massachusetts." *J Immigrant Minority Health* 2011;13:214-23.
- Hickson D, Diez Roux AV, Smith A, **Tucker K**, Gore L, Zhang L, Wyatt S. "Associations of fast food restaurant availability with dietary intake and weight among African Americans in the Jackson Health Study, 2000-2004." *Am J Pub Health* 2011;101:S301-9.

- Huang T, **Tucker KL**, Lee Y-C, Crott JW, Parnell LD, Shen J, Smith CE, Ordovas JM, Li D, Lai C-Q. "Interactions between genetic variants of folate metabolism genes and lifestyle affect plasma homocysteine concentrations in the Boston Puerto Rican population." *Pub Health Nutr* 2011;14:1805-12.
- Huang T, **Tucker KL**, Lee Y-C, Crott J, Parnell L, Shen J, Smith C, Ordovas JM, Li D, Lai C-Q. "Methylenetetrahydrofolate reductase variants associated with hypertension and cardiovascular disease interact with dietary polyunsaturated fatty acids to modulate plasma homocysteine in Puerto Rican adults." *J Nutr* 2011;141:654-9.
- Laugero KD, Falcon LM, **Tucker KL**. "Relationship between perceived stress and dietary and activity patterns in older adults participating in the Boston Puerto Rican Health Study." *Appetite* 2011;56:194-204.
- Lincoln A**, Shepherd A, Johnson PL, **Castaneda-Sceppa C**. "Resistance training improves depression and health related quality of life among Hispanic older adults with type 2 diabetes." *J Gerontol B Psychol Sci Soc Sci* 2011;66B(5):567-70.
- Madison KM**. "Rethinking fraud regulation by rethinking the health care system." *Hamline J Pub L & Pol'y* 2011;32:411-27.
- Madison KM**, Jacobson PD, **Young G**. "Health Policy and Regulation," in *Shortell and Kaluzny's Health Care Management: Organization, Design, and Behavior*, 6th ed., 2011.
- Madison KM**, Volpp KG, Halpern SD. "The law, policy, and ethics of employers' use of financial incentives to improve health." *J Law Med Ethics* 2011;39(3):450-68.
- Manjourides J**, Pagano M. "Improving the power of chronic disease surveillance by incorporating residential history." *Stat Med* 2011;30(18):2222-33.
- Maras JE**, Talegawkar SA, Qiao N, Lyle B, Ferrucci L, **Tucker KL**. "Flavonoid intakes in the Baltimore Longitudinal Study of Aging." *J Food Comp* 2011;24:1103-9.
- Mattei J, **Noel S**, **Tucker KL**. "A meat, processed meat, and french fries dietary pattern is associated with high allostatic load in Puerto Rican older adults." *J Am Diet Assoc* 2011;111:1498-1506.
- Mattei J, Demissie S, **Tucker KL**, Ordovas JM. "The APOA1/C3/A4/A5 cluster and markers of allostatic load in the Boston Puerto Rican Health Study." *Nutr Metab Cardiovasc Dis* 2011;21(11):862-70.
- McLean RR, Qiao N, Broe KE, **Tucker KL**, Casey V, Cupples LA, Kiel DP, Hannan MT. Dietary acid load is not associated with lower bone mineral density except in older men. *J Nutr* 2011;141:588-94.
- Misra D, Berry SD, Broe KE, McLean RR, Cupples LA, **Tucker KL**, Kiel DP, Hannan MT. "Does dietary protein reduce hip fracture risk in elders? The Framingham Osteoporosis Study." *Osteoporos Int* 2011;22:345-9.
- Meléndez M, Cortés D, **Amaro H**. "Acceptability and cultural fit of spiritual self-schema therapy for Puerto Rican women with addiction disorders: Qualitative findings." *Women and Therapy* 2012;35(1-2):106-11.
- Mohr D, **Young G**, Meterko M, Stolzmann K, White B. "Job satisfaction of primary care team members and quality of care." *Am J Med Qual* 2011;26:18-25.
- Mwamburi DM, Liebson E, Folstein M, Bungay K, **Tucker KL**, Qiu WQ. Depression and glycemic intake in the homebound elderly. *J Affective Disorder* 2011;132:94-8.
- Noel SE**, Ness AR, Northstone K, Emmett P, Newby PK. "Milk intakes are not associated with percent body fat in children from ages 10 to 13 years." *J Nutr* 2011;141(11):2035-41.
- Oberleitner R, Reischl U, Lacy T, **Goodwin MS**, Spitalnick JS. "Emerging use of behavior imaging for autism and beyond." *Future Visions on Biomedicine and Bioinformatics* 2011;1:93-104.
- Oxenkrug G, **Tucker KL**, Requentina P, Summergrad P. "Neopterin, a marker of interferon-gamma-inducible inflammation, correlates with pyridoxal-5'-phosphate, waist circumference, HDL-cholesterol, insulin resistance and mortality risk in adult Boston community dwellers of Puerto Rican origin." *Am J Neuroprotection Neuroregeneration* 2011;3:48-52.
- Renzaho AM, Kumanyika S, **Tucker KL**. "Family functioning, parental psychological distress, child behavioural problems, socio-economic disadvantage and fruit and vegetable consumption among 4-12 year-old Victorians, Australia." *Health Promo Inter* 2011;26:263-75.
- Rioux C, **Tucker KL**, Brugge D, Gute D, Mwamburi M. "Traffic exposure in a population with high prevalence of type 2 diabetes—do medications influence concentrations of C-reactive protein?" *Envir Pollution* 2011;159:2051-60.
- Sattler FR, Bhasin S, He J, Choud C-P, **Castaneda-Sceppa C**, Yarasheski KE, Binder EF, Schroeder TE, Kawakubod M, Zhang A, Roubenoff R, Azen SP. "Testosterone threshold levels and lean tissue mass targets needed to enhance skeletal muscle strength and function: The HORMA Trial." *J Gerontol A Biol Sci Med Sci* 2011;66A(1):122-9.
- Sattler FR, Bhasin S, He J, Yarasheski KE, Binder EF, Schroeder TE, **Castaneda-Sceppa C**, Kawakubo M, Roubenoff R, Dunn M, Hahn C, Stewart Y, Martinez C, Azen SP. "Durability of the effects of testosterone and growth hormone supplementation in older community dwelling men: The HORMA Trial." *Clin Endocrinol* 2011. doi: 10.1111/j.1365-2265.2011.04014.x.
- Schroeder ET, He J, Yarasheski KE, Binder EF, **Castaneda-Sceppa C**, Bhasin S, Dieli-Conwright C, Kawakubo M, Roubenoff R, Azen SP, Sattler FR. "Value of measuring muscle performance to assess changes in lean mass with testosterone and growth hormone supplementation." *Eur J Appl Physiol* 2011. doi: 10.1007/s00421-011-2077-y.
- Smith M, **Lincoln A**. "Social capital across the life course: an application to maternal and child mental health." *Am J Public Health* 2011;101(6):990-9.
- Smith TJ, Schwarz JM, Montain SJ, Rood J, Pikosky MA, **Castaneda-Sceppa C**, Glickman EL, Young AJ. "High protein diet maintains glucose production during exercise-induced energy deficit: a controlled trial." *Nutr Metab* 2011;8:26.

- Sempértegui F, Estrella B, **Tucker KL**, Hamer DH, Narvaez X, Sempertegui M, Griffiths JK, Noel S, Dallal GE, Selhub J, Meydani SN. "Metabolic syndrome in the elderly living in marginal peri-urban communities in Quito, Ecuador." *Pub Health Nutr* 2011;14:758-67.
- Smith CE, **Tucker KL**. "Health benefits of cereal fiber: a review of clinical trials." *Nutr Research Rev* 2011;15:1-14.
- Sofianou A, Fung T, **Tucker KL**. "Differences in diet pattern adherence by nativity and duration of US residence in the Mexican-American population." *J Am Diet Assoc* 2011;111:1563-9.
- Todorova I**. "Health in Eastern Europe." In: Friedman, H. (Ed). *Oxford Handbook of Health Psychology*, 2011.
- Ulibarri MD, Strathdee SA, Ulloa EC, Lozada R, Fraga M, Magis-Rodríguez C, De La Torre A, **Amaro H**, O'Campo P, Patterson TL. "Injection drug use as a mediator between client-perpetrated abuse and HIV status among female sex workers in two Mexico-U.S. border cities." *AIDS and Behavior* 2011;15(1):179-85.
- VanRompay MI, **Castaneda-Sceppa C**, McKeown NM, Ordoñas JM, **Tucker KL**. "Prevalence of cardiovascular disease risk factors among older Puerto Rican adults living in Massachusetts." *J Immigr Minor Health* 2011;13:825-33.
- Watson M**. "A Systems Approach Workbook for Health Education and Program Planning." Jones and Bartlett Learning LLC. Sudbury, MA, 2011.
- Watson, M**, Arzamarski C. "Choice theory and reality therapy: perceptions of efficacy." *International Journal of Choice Theory and Reality Therapy*, Fall 2011.
- Wernimont SM, Clark AG, Stover PJ, Wells MT, Litonjua AA, Weiss ST, Gaziano JM, **Tucker KL**, Baccarelli A, Schwartz J, Bollati V, Cassano PA. "Folate network genetic variation, plasma homocysteine, and global genomic methylation content: a genetic association study." *BMC Med Genetics* 2011;12:150.
- Yarasheski KE, **Castaneda-Sceppa C**, He J, Kawakubo M, Bhasin S, Binder EF, Schroeder ET, Roubenoff R, Azen SP, Sattler FR. "Whole body and muscle protein metabolism are not affected by acute deviations from habitual protein intake in older men: The HORMA Study." *Am J Clin Nutr* 2011;94(1):172-81.
- Ye X, Gao X, Scott T, **Tucker KL**. "Habitual sugar intake and cognitive function among middle-aged and older Puerto Ricans without diabetes." *Brit J Nutr* 2011;106:1423-1332.
- Ye X, Lai C-Q, Crott JW, Troen AM, Ordoñas JM, **Tucker KL**. "The folate hydrolase 1561C>T polymorphism is associated with depressive symptoms in Puerto Rican adults." *Psychosomatic Med* 2011;73(5):385-92.
- Zoellner J, You W, Connell C, Smith-Ray RL, Allen K, **Tucker KL**, Davy BM, Estabrooks P. "Health Literacy is associated with Healthy Eating Index Scores and Sugar-Sweetened Beverage Intake: Findings from the Rural Lower Mississippi Delta." *J Am Diet Assoc* 2011;111:1012-20.

NEWSLETTER

Department of Health Sciences
Northeastern University

360 Huntington Ave
Boston, Massachusetts 02115
316 Robinson Hall
Tel: 617.373.3666

Editors:
Esther Carver: e.carver@neu.edu
Irina Todorova: i.todorova@neu.edu