I'm delighted to provide this introduction

to the 2014 Center for Behavioral Cardiovascular Health (CBCCH) annual report. A review of our scholarly accomplishments in the last year is a true testament to our collective, interdisciplinary efforts to achieve national prominence in advancing behavioral medicine. The Center has seen tremendous growth and achievement since it was established in 2003. The Center began when our group of investigators and 20 staff moved to Columbia University Medical Center. In 2004 we were one of five groups in the U.S. to be awarded a Mind-Body Center grant from the National Institutes of Health, which fosters research that links psychosocial factors and chronic disease. Since then, our Center currently has grown to include a staff and faculty of 50 highly skilled interdisciplinary professionals (internists, cardiologists, psychologists, exercise physiologists, and quantitative faculty) engaged in more than 20 different interdisciplinary research studies investigating 1) the behavioral and biological factors that explain the relationship between depression and heart disease, 2) the psychosocial factors and biological mechanisms that contribute to hypertension, and 3) alternative approaches to diagnosing and treating hypertension. We continue to build on the legacy of our first Director, Dr. Thomas Pickering, who passed away in May, 2009 and we feel that we are fulfilling his vision of what a Center should accomplish. Together as a center, we are striving to make an important contribution in the fields of hypertension and heart disease, and to develop the next generation of cardiovascular behavioral medicine researchers.

More than 81 million individuals in the United States have one or more type of cardiovascular disease. In 90% of these cases, cardiovascular disease can be attributed to the factors listed above. This is a health care crisis of immense proportions, both in terms of the quality of life for the individual and the enormous financial burden it places on our society. We believe that the management of these conditions can be greatly improved by testing integrated models of cardiovascular disease development, and by diagnosis and care that recognize the importance of behavioral, psychological, and lifestyle factors for reducing the risks for hypertension, heart disease and diabetes.

Our mission: To understand the role of stress, and behavioral, psychological, genetic, and lifestyle factors in the development and effective treatment of chronic illnesses, in particular cardiovascular diseases.

Our approach: To achieve our mission through research and training. We do our utmost to improve communication between patients and their healthcare providers; facilitate patients' involvements in their own health care and motivate them to change their behavior and lifestyle patterns.

Highlights of our current activities and research include: a study which examines the effectiveness of treatments for depression after acute coronary syndrome; studies on the mechanisms, development and detection of masked hypertension; studies which enhance our understanding of the role depression plays in the risk of cardiovascular disease; exciting findings about depression and cellular aging, and venues into personalized behavioral medicine.

We are very proud of our growth and accomplishment in the past years and we look forward to seeing what, working together, we can all achieve in 2014 and beyond.

Sincerely,

Karina W. Davidson Ph.D.
Director
**OUR MISSION**

CBCH field studies, laboratory investigations and randomized clinical trials continue to make valuable contributions to the understanding of the translational effects of behavioral factors, pathophysiological mechanisms and intervention on cardiovascular disease. Our investigators have cultivated tremendous expertise in utilizing technology and interventions to predict and modify cardiovascular risk, including field studies with “in the moment” measurements of acute stress, activity, sleep, blood pressure and medication adherence, laboratory studies of inflammatory markers, gene-environment interactions, endothelial function, pulse wave analysis and VO2 max, interventions for the management of chronic stress and depression, and longitudinal assessments of the development of PTSD following acute cardiac events.

Our tri-fold approach to actualizing the Center mission, the improvement of cardiovascular health, can be summarized as:

To Discover
To Disseminate
To Educate
CBCH FACULTY

Faculty members of the Center for Behavioral Cardiovascular Health (CBCH) are each working on several projects, predominantly funded by the National Institutes of Health (NIH), in addition to privately funded studies. Our Center’s faculty members also serve on NIH Review Groups, as committee chairs, and members on multiple Columbia University committees and Task Forces (e.g., Clinical Research Center Advisory Board, Institutional Review Board). Working as a team, CBCH has made important contributions in the fields of hypertension and heart disease. Given its current high productivity level, it seems poised to continue doing so.

Karina W. Davidson, Ph.D.
Professor of Behavioral Medicine in Medicine, Cardiology, and Psychiatry
Director, Center for Behavioral Cardiovascular Health, Columbia University Medical Center
Associate Director, Columbia University Clinical & Translational Science Award (CTSA)
Research Interests:
- Comparative effectiveness randomized trials for patients and systems
- Evidence-based medicine health services research and system redesign
- Epidemiological approaches to the investigation of behavior, emotions and illness
- Training of future leaders and physician scientists
- Development of N-of-1 trial methodology

Marwah Abdalla, M.D., M.P.H.
Assistant Professor of Medicine at CUMC
Research Interests:
- Cardiac manifestations of hypertension and health care outcomes in African Americans
- 24-hour ambulatory blood pressure monitoring and circadian variability
- Hypertension management in the developing world

Carmela Alcántara, Ph.D.
Associate Research Scientist in the Department of Medicine
Research Interests:
- Sleep, cardiovascular health, and health disparities
- Psychosocial vulnerabilities and cardiovascular disease
- Effects of socioeconomic and migration context on health and health behavior

Matthew M. Burg, Ph.D.
Associate Professor of Medicine at CUMC
Research Interests:
- Role of stress and emotion in the development, expression, and prognosis of cardiovascular disease, with a particular focus on acute coronary syndromes and cardiac arrhythmia
- Pathophysiological mechanisms by which emotion and stress are linked to cardiovascular diseases, including autonomic processes and inflammatory pathways
- Behavioral clinical trials to reduce cardiac risk associated with stress and negative emotion

Keith Diaz, Ph.D.
Associate Research Scientist in the Department of Medicine
Research Interests:
- Elucidation of the optimal intervention for breaking up prolonged bouts of sitting
- Pathophysiological mechanisms by which prolonged sitting is linked to cardiovascular disease
- Use of accelerometers to objectively measure physical activity and sedentary behaviors

Donald Edmondson, Ph.D., M.P.H.
Assistant Professor of Behavioral Medicine in Medicine and Psychiatry
Research Interests:
- Posttraumatic stress disorder (PTSD) due to life-threatening illness
- PTSD and cardiovascular outcomes
- Hospital environments and patient outcomes
CBCH Fellows & Trainees

Our Center offers training at the doctoral and postdoctoral level in Cardiovascular Behavioral Medicine. This program is committed to the training of physicians, psychologists, and other professionals interested in patient-oriented research with a primary focus on factors that underlie the development, diagnosis, and treatment of cardiovascular disease.

Ian Kronish, M.D., M.P.H., F.A.H.A.
Assistant Professor of Medicine
Research Interests:
- Psychosocial barriers to adherence to healthy behaviors in patients with cardiovascular disease
- Objectively measured medication adherence in the clinical management of uncontrolled cardiovascular risk factors
- Adherence to blood pressure medications in patients with uncontrolled hypertension using electronic pillboxes

Daichi Shimbo, M.D.
Associate Professor of Medicine
Research Interests:
- Identifying novel coronary artery disease risk factors
- Exploring the biological processes underlying the link between psychological factors and heart disease
- Hypertension and its cardiotoxic phenotypes
- Cardiac Sonography (Echocardiogram)

Joseph E. Schwartz, Ph.D.
Visiting Professor of Clinical Behavioral Medicine in Medicine and Psychiatry
Research Interests:
- Cardiovascular behavioral medicine
- Biopsychosocial determinants of acute and long-term elevations of BP
- Use of 24-hour ambulatory monitoring to study white coat, masked, and sustained hypertension and their relationship to cardiovascular risk
- Evaluation of the utility of ecological momentary assessment (EMA) data

Jonathan Shaffer, Ph.D., M.S.
Assistant Professor of Clinical Medical Sciences in Medicine and Psychiatry
Research Interests:
- Biopsychosocial mechanisms linking mood and stress with coronary heart disease (CHD)
- Non-pharmacologic interventions to promote mental health, quality of and cardioprotective behaviors
- Dose-finding and adaptive clinical trial methodologies
- Multimorbidity in heart failure and older adults

William Whang, M.D., M.S.
Associate Professor of Medicine at CUMC
Research Interests:
- Psychosocial predictors of cardiac arrhythmia
- Epidemiology of atrial and ventricular arrhythmia
- Catheter mapping and ablation of arrhythmia

Siqin Ye, M.D., M.S.
Assistant Professor of Medicine at CUMC
Research Interests:
- Understanding patient preference for health information and its effect on decision making for primary prevention statin therapy
- Implementing shared decision tools into the electronic health records at point of care
- Use of mobile health technology to improve healthcare processes

Deepti Kumaraswamy, M.D., M.B.A.
Postdoctoral Clinical Fellow in the Department of Medicine

Matthew Lewis, M.D., M.P.H.
Postdoctoral Clinical Fellow in the Department of Medicine and Assistant in Clinical Medicine

Nathalie Moise, M.D.
Assistant in Clinical Medicine and Postdoctoral Clinical Fellow in the Department of Medicine

James Peacock, M.D., M.P.H.
Postdoctoral Clinical Fellow and Assistant in Clinical Medicine

Lauren Taggart Wasson, M.D., M.P.H.
Postdoctoral Clinical Fellow in the Department of Medicine
CBCH PERSONNEL

The Center is fortunate to have a diverse, dedicated group of individuals who bring a wide array of expertise and experiences to the conduct and support of the Center’s research endeavors.

Clinical and Research Personnel
Elena Brondolo, Project Coordinator II
Michelle Chang, RN, ANP, Research Nurse Practitioner
Nathan Dalrymple, Clinical Coordinator I
Joan Duer-Hefele, RN, Nurse Manager
Jacqueline Herrera, Clinical Coordinator I
David Hill, Clinical Coordinator II
Kirsten Honma, Research Assistant
David Krupa, Clinical Coordinator II
Alice Mai, Variable Hours Exercise Physiologist
Eduardo Mari, LPN, Clinical Coordinator II
Vivian Medina, LCSW, Program Manager
Tanya Meredith, Supplement Recipient
Marla Morlan, RN, Research Nurse
Sydney O’Connor, Clinical Coordinator I
Desiree Oyola, Clinical Coordinator I
Jessica Rothenberg, Clinical Coordinator I
Barbara Toledo, Clinical Coordinator I

Biomarkers Laboratory Personnel
Jessie Fu, Research Worker
Xiaoyi Liang, Research Worker
Maki Yamamoto, Research Assistant
Shuqin Zhao, Lab Manager

Data Management Personnel
Sean Mota, User Services Consultant
Faith Parsons, Data Manager
Yan Hilary Quan, Project Coordinator
Fiona Sanders, Data Manager

Administrative Personnel
Gabrielle Albanese Osorio, Program Administrator
Laurian Bradford, Grants Coordinator
Diane Cannone, Variable Hours IRB Coordinator
Louise Falcon, Staff Associate (Librarian)
Marilyn Mendez, Administrative Assistant

Casual and Voluntary Personnel
Rosie Block
Karel Francisco
Brooke Hefele
Jacob Julian
Daniel Mota
COLLABORATORS

The Center for Behavioral Cardiovascular Health boasts an extensive network of multi-disciplinary collaborators from within the Columbia University Medical Center community, and across academic medical centers and institutions of higher learning throughout the United States, Canada and the United Kingdom.

CBCH

Outside Collaborators

United States
University of Alabama at Birmingham
Arizona State University
University of California at San Diego
University of Southern California
Kaiser Foundation Research Institute
Yale School of Medicine
Emory University
Boston University School of Medicine
Brigham and Women’s Hospital
Harvard Medical School
Duke University Medical Center
HealthPartners Medical Group
University of Missouri at Columbia
University of Missouri-Kansas City
University of North Carolina at Chapel Hill

United Kingdom
Cardiff University

Columbia University Medical Center

Department of Biomedical Informatics
Suzanne Bakken, R.N., Ph.D.
George Hripcsak, M.D., M.S.

Department of Medicine, Division of Cardiology
J. Thomas Bigger, M.D.
Edward J. Ciaccio, Ph.D.
Hasan Garan, M.D., M.S.
Mathew Maurer, M.D.
Angelo Biviano, M.D., M.P.H.
Marco Di Tullio, M.D.
Sfurichi Homma, M.D.
Robert Sommer, M.D.
Sabahat Bokhari, M.D.
Arthur Reshad Garian, M.D.
Vivek Iyer, M.D., M.S.E.

Department of Medicine, Emergency Medicine
Joseph Underwood, M.D.
Peter Wyer, M.D.

Department of Psychiatry
Nanhua Duan, Ph.D.
Peter Shapiro, M.D.
Richard Sloan, Ph.D.

Department of Psychology
Valerie Purdue-Vaughan, Ph.D.

School of Nursing
Kathleen Hickey, Ed.D.
Sunmoo Yoon, Ph.D.

Department of Biostatistics
Bin Cheng, Ph.D.
Ying Kuen Cheung, Ph.D.
Shing Lee, Ph.D.
Jeffrey Goldsmith, Ph.D.

Department of Electrical Engineering
Christine P. Hendon, Ph.D.

Department of Epidemiology
Yuval Neira, Ph.D.

Department of Health Policy & Management
Yun-Hsin Claire Wang, Dr.P.H.

Department of Medicine, Division of General Medicine
R. Graham Barr, M.D., Dr.P.H.
Jose Luchinger, M.D.
Richard Lebowitz, M.D., M.H.S.
Andrew Moran, M.D.
Dr. Karina Davidson was awarded a New York State Department of Health program project to investigate novel hospital system interventions for improving 30-day readmissions for patients presenting with heart failure, chronic obstructive pulmonary disease, or myocardial infarction. She was also awarded a National Institute of Health High School Diversity Supplement to aid in the training of a future scientist. She is working closely with leadership from New York Presbyterian to improve patient flow through the Emergency department and to the Medicine units at multiple hospitals. She had 25 peer-reviewed manuscripts published in 2014, and one editorial in JAMA Archives of Internal Medicine. Finally, she submitted a number of grant proposals in 2014 which are still pending; the first is to determine the barriers and facilitators for medical patients for engaging in N-of-1 trials at the point of care, for the better control of their chronic diseases. She was elected President of the Academy of Behavioral Medicine Research, and she was appointed to the United States Preventive Services Task Force and to the editorial board of Clinical Trials. Finally, she was invited to be the Opening Keynote speaker for the United Kingdom Society for Behavioral Medicine.

Dr. Marwah Abdalla completed her Fellowship in Cardiovascular Diseases at NYP-CUIMC and joined the Division of Cardiology as junior faculty. She was awarded an independent NIH investigator Diversity Supplement to study the cardiovascular manifestations of hypertension and its phenotypes, assessed by echocardiography, within African Americans from the Jackson Heart Study. The findings from these proposed studies will provide preliminary data for the development of a career award application. She has also been appointed to the American College of Cardiology Early Career Academic Working Group and the American College of Cardiology International Working Group.

Dr. Carmela Alcántara was selected among 200 applications to participate as an invited scholar in the American Academy of Sleep Medicine Young Investigator Research Forum, and the American Psychosomatic Society Young Investigator Colloquium. In 2014, she also had 11 manuscripts published or accepted for publication in peer-reviewed journals including Circulation, American Journal of Public Health, International Journal of Cardiology, and Journal of Psychosomatic Research. Dr. Alcántara was also invited to present her work at five scientific conferences; one of which she was the featured speaker on Latino immigrant health. She also submitted three grant proposals in 2014, including two to the National Institute of Health and another to the Patient Centered Outcomes Research Institute. Finally, Dr. Alcántara was featured in the “Members Spotlight” section of the Anxiety and Depression Association of America for her work as co-chair of the Multicultural Special Interest Group of the organization. Dr. Alcántara is currently at work on additional manuscripts, and grant applications.

Dr. Matthew Burg was awarded a 4-year VA Merit Review grant to study vascular health in veterans of Operations Iraqi and Enduring Freedom. Further, he had eight manuscripts published or accepted for publication in peer-reviewed journals including The Journal of the American Heart Association. He served as Co-Chair of an NIH sponsored meeting, “Stress and Sleep: Integration of Behavioral, Social, Environmental, and Physiological Processes” in May of this year. He submitted four grant proposals in 2014 which are still pending, with each focusing on an aspect of vascular health in civilian and veteran populations. Lastly, he serves as manuscript reviewer for several medical journals, and grant reviewer for a member conflict review panel at the Center for Scientific Review.
Dr. Keith Diaz
was awarded a NIMH/NHLBI Independent Investigator Research Supplement to study the biological mechanisms through which cardiorespiratory fitness and physical activity may buffer the deleterious cardiovascular consequences of negative emotions. Further, he has 11 manuscripts published or accepted for publication in peer-reviewed journals including Hypertension, PLoS One, the American Journal of Hypertension, and the Journal of Clinical Hypertension. He also presented work on the role of healthy lifestyle factors in the prognosis of individuals with treatment-resistant hypertension at the Annual Meeting of the American Heart Association’s Nutrition, Physical Activity and Metabolism and Cardiovascular Disease Epidemiology and Prevention Council. Finally, he submitted an R01 grant application to conduct a randomized controlled trial to evaluate the optimal intervention for breaking up prolonged bouts of sitting.

Dr. Donald Edmondson
began recruitment on his recently awarded 5-year NIH/NHLBI R01 to study the influence of emergency department (ED) factors on the development of PTSD symptoms and risk for recurrent cardiovascular events in acute coronary syndrome patients. He had 11 manuscripts published or accepted for publication in peer-reviewed journals, including JAMA Internal Medicine, and his research was featured in media outlets such as CNN. He submitted a number of grant proposals in 2014 which are still pending. They focus on scientific questions ranging from the influence of stressful ED factors on cardiovascular risk in ED physicians to an investigation of unconscious cognitive influences on medication non-adherence. In April, he was awarded the Neal E. Miller Young Investigator award by the Academy for Behavioral Medicine Research. Finally, he accepted an invitation to join the Social Psychology, Personality, and Interpersonal Processes (SPIPP) NIH study section.

Dr. Ian Kronish
was awarded a 4-year NIH/NHLBI R01 to study why PTSD that ensues following an ACS is associated with non-adherence to cardioprotective medications and to determine whether non-adherence explains the association between ACS-induced PTSD and poor prognosis. He was also the recipient of a 1-year award from New York Presbyterian Hospital to study the feasibility of using remotely-monitored adherence to heart failure medications in the month following a heart failure hospitalization as an approach to improving adherence to heart failure medications and reducing heart failure readmissions. Further, he had 10 manuscripts published or accepted for publication in peer-reviewed journals including Stroke and JAMA Internal Medicine. Two of his manuscripts were selected as being “noteworthy” at the 2014 meeting of the American Psychosomatic Society, and one on the topic of medication adherence in PTSD patients was featured prominently on the popular web blog, “The Gupta Guide.” Finally, he submitted a number of grant proposals in 2014 which are still pending review; the first aims to test a new approach to prescribing blood pressure medications in which hypertensive patients first test a series of blood pressure medications before choosing their preferred medication for long-term use (known as an N-of-1 trial); the second involves a partnership with a startup company in which he will test whether we can provide personalized, empirically-derived advice to patients on how to control their blood pressure using data collected via mobile health devices; the third involves collaborating with the NIH-funded Cardiovascular Inflammation Reduction Trial to determine the effect of a potent anti-inflammatory medication called methotrexate on depressive symptoms in patients with coronary heart disease; Finally, he was elected Fellow of the American Heart Association and invited to join the Program Committee of the American Psychosomatic Society.

Dr. Deepa Kumarath
began the research year of her clinical cardiology fellowship in the summer of 2014. She is working on healthcare system redesign at the NYP level. Her work includes project management of the DSRP (Delivery System Reform Incentive Payment) NY state grant which is over $6 billion dedicated to Medicaid system reform and of the Columbia ACO (accountable care organization) with regards to structure/governance as well as care transitions/care management of the attributable Medicare population. Additionally, she will be working on the NYP CareFirst Initiative. Based on her leadership potential, she was chosen as one of two NYP physicians to attend the inaugural Health Management Academy Physician Leadership Program (6-month training program). Finally, she is serving as one of the chief cardiology fellows this academic year.

Dr. Nathalie Moise
was selected nationally as a fellow for the AHA seminar on Epidemiology and Prevention in July, 2014. Further, she had three manuscripts published or accepted for publication in peer-reviewed journals including “Antihypertensive drug class and adherence: An electronic monitoring study” the American Journal of Hypertension. One of her articles, “Depression and clinical inertia in patients with uncontrolled hypertension”, published in JAMA Internal Medicine received a great deal of media coverage in outlets such as Reuters Health and MedPage Today. Finally, she submitted a grant proposal in 2014, which is still pending to The NIH Loan Repayment Program to assess US physician acceptability of a guideline to screen for depression post ACS in order to identify barriers and opportunities for implementation.

Dr. James Peacock
completed his Master's of Patient Oriented Research at the Mailman School of Public Health, Columbia University. He was active as an Epidemiologist at the Clinical Investigator Program Fellow, launching several initiatives to improve patient flow and hospital operations while a member of NY Presbyterian Hospital's Care First Initiative. He had three manuscripts published or accepted for publication in peer-reviewed journals including the Journal of Human Hypertension. He now serves as a cardiovascular clinical fellow and has been honored with the Columbia University Internal Medicine Residency Teaching Award.

Dr. Joseph Schwartz
had 16 manuscripts published or accepted for publication in peer-reviewed journals including the results of a large cluster-randomized clinical trial testing a multifaceted intervention for hypertension in African Americans published in Circulation. The articles by Patel et al. are part of a series of articles utilizing the Ambulatory Blood Pressure (ABP) International Registry, a collection of data from nine studies started by Drs. Thomas Pickering, Paolo Vendramini, and Schwartz. The review of “masked hypertension” by Peacock et al. sets the background for several empirical articles presenting results from our program project that will appear in the next year. The articles by Lee et al. and Malik et al. review the body of work emanating from Dr. Schwartz' collaboration with Dr. Suthanthiran's group at Weill Cornell Medical College. Dr. Schwartz is a co-Pi of a new NIH grant (PI: A Stone) to evaluate the effect of age on individuals' responses to self-report questionnaires. He is also the co-Pi or co-O of several grant proposals submitted in 2014 which are pending review. One of these is designed to study environmental factors in hospital emergency departments (EDs) that contribute to psychological stress and cardiovascular risk in ED physicians. This was the 10th consecutive year that Dr. Schwartz served on the faculty of the two-week NHLBI/CIBSR Summer Institute on Randomized Behavioral Clinical Trials. Finally, he was elected to serve on the executive council of ABMI and the board of directors of the Eastern Chapter of the American Society of Hypertension.
Dr. Jonathan Shaffer
was selected as a fellow for the 40th Annual American Heart Association 10-Day Seminar on Cardiovascular Disease Epidemiology. Further, he had 11 manuscripts published or accepted for publication in peer-reviewed journals, one of which received international media coverage. He submitted multiple grant proposals in 2014, including two R01 applications that are still under review; contributed as mentor, consultant, and co-investigator to multiple other grant applications; and was named Associate Director of a grant from the Association of Subspecialty Professors. In addition, Dr. Shaffer completed the first phase of his K23 research project; was invited to present at the Academy of Behavioral Medicine Research; and was accepted to the Early Career Reviewer Program at the Center for Scientific Review.

Dr. Lauren Wasson
continues to be supported by a 2-year NIH T32 grant as well as a newly awarded American Medical Association Seed Grant for her research on PTSD and sedative pharmacokinetics in extracorporeal membrane oxygenation (ECMO) patients. This year, she had two first-author publications in peer-reviewed journals. Her work has expanded to include hospital program development and evaluation in the area of patient flow.

Dr. William Whang
had seven manuscripts published or accepted for publication in peer-reviewed journals. Also, three case reports involving catheter ablation were published, one of which was accompanied by an editorial in the journal Heart Rhythm. Additionally, Dr. Whang submitted two grant proposals in 2014, which are pending review. He was chosen to participate in the 2014 Leadership and Management Institute for Leaders in Academic Medicine and Health Sciences, held by the Office of Academic Affairs.

Dr. Daichi Shimbo
was appointed to Associate Professor of Medicine. He published 21 manuscripts in medical journals. Dr. Shimbo was awarded two National Institute of Health Diversity Supplements to aid in the training of independent investigators Marwa Abdalla and Keith Diaz. Dr. Shimbo was also invited to give several talks on stress biomarkers at the Academy of Behavioral Medicine Research annual meeting. Finally, he submitted a Midcareer Investigator Award to investigate the behavioral, psychosocial and biological processes in the pathogenesis of human hypertension, as well as train the next generation of scientists in hypertension.

Dr. Siqin Ye
was awarded a 5-year NIH/NHLBI K23 award to study health information preference in patients considering statin therapy. He has published five manuscripts in peer-reviewed journals, including an editorial in Circulation. He has also been selected as a member of American College of Cardiology's Health Informatics Taskforce, and is serving as a member of New York Presbyterian Hospital’s Tripartite Request Assessment Committee, to review and prioritize hospital data requests for operations and research. Finally, he accepted an invitation to join the Social Psychology, Personality, and Interpersonal Processes (SPiP) NIH study section.
**Published in 2014**

**Highlights**


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**CBCH in the Literature**

- **Number of Publications**
  - 361 publications since 2008

- **Number of Citations**
  - 5239 citations since 2008
  - Average citations per item from 2008 to 2013: 14.51
  - Average citations per year from 2008 to 2013: 582.11

**CBCH produces one unique peer-reviewed journal article every four days.**

*h-index: 33*

*Projected, based on citations through 9/30/2014*