



# American Psychosomatic Society

Dedicated to the Integration of Biological, Psychological and Social Factors in Medicine

## 73<sup>rd</sup> Annual Scientific Meeting

From Cells to Community and Back

March 18-21, 2015

Savannah, GA, USA

### Wednesday, March 18

7:00 am – 5:30 pm

**Registration**  
**Second Floor**

**Missing Data & Multiple Imputation**

Faculty: Joseph Schwartz, PhD, SUNY Stony Brook, & Visiting Professor of Behavioral Medicine, Columbia University Medical Center; Jennifer McGrath, PhD, Concordia University

**Sloan Room**

7:30 am – 12:30 pm

**Young Investigator Colloquium**  
(by invitation only)  
**Scarborough 1/2**

5:00 – 6:30 pm

**Opening Session**

**Regency Ballroom A/B/C**

The recipients of the 2015 APS scholarships and awards will be recognized during this session.

7:30 am – 12:30 pm

**APS Council Meeting**  
**Savannah Room**

**Distinguished Scientist Award Lecture: Moods, Thoughts, Rumination, Physiology, and Health**

Introduction: Cristina Ottaviani, PhD, Santa Lucia Foundation Rome

Award Recipient: David Shapiro, PhD, Professor Emeritus, Department of Psychiatry and Biobehavioral Sciences David Geffen School of Medicine Director, Psychophysiology Laboratory Semel Institute for Neuroscience and Human Behavior

This talk will review lab and ambulatory findings on the physiological and health significance of “subjective” states.

12:30 – 4:30 pm

**Half-Day Workshops**

**Acute Coronary Syndrome, Arrhythmias, and Congestive Heart Failure: From Biobehavioral Mechanisms to Integrated Community Programs**

**Developed by the APS Professional Education Committee**

Co-chairs: Serina A. Neumann, PhD and Ian Kronish, MD

Faculty: Daichi Shimbo, MD, Columbia University; Amit Shah, MD, MSCR, Emory University; Laura Redwine, PhD, University of California, San Diego

**Verelst Room**

**Sleepless in Savannah: 2015 APS Sleep Measurement Workshop**

Faculty: Matthew R. Cribbet, PhD, Western Psychiatric Institute and Clinic; Christopher E. Kline, PhD, University of Pittsburgh School of Medicine; Aric Prather, PhD, University of California, San Francisco; Michele Okun, PhD, University of Colorado, Colorado Springs; Danielle Beatty Moody, PhD, University of Maryland, Baltimore County

**Percival Room**

6:30 – 8:00 pm

**Citation Poster Session and Reception**

Posters # 1 through #30 will be presented.

**Regency Ballroom D/E/F and foyer**

8:30 – 9:30 pm

**Student Happy Hour**

**Windows – Lobby Level**

### Thursday, March 19

7:00 am – 5:30 pm

**Registration**  
**Second Floor**

2742/Breathing Meditation Smartphone App: Initial Findings of Dose Response Trial Upon Blood Pressure (BP) Changes Among Prehypertensive Adults

Zachary Adams, PhD

7:30 – 8:30 am

**Continental Breakfast**  
**Regency Ballroom D/E/F and foyer**

3035/Both Device-Guided Breathing and a Relaxation Control Condition Reduce Ambulatory BP in Hypertensives: Report of an RCT

Lynn Clemow, PhD

8:30 – 9:30 am

**Concurrent Sessions**

**Symposium 3060/ BIOPSYCHOSOCIAL BALANCING IN MEDICALLY-UNEXPLAINED SYMPTOMS: CLINICAL AND RESEARCH IMPLICATIONS**

Chair: Xavier F. Jimenez, MD

**Regency A**

3066/Biopsychosocial Balancing In Medically-Unexplained Symptoms: Gastrointestinal Symptoms

Gregory Thorkelson, MD

3068/Biopsychosocial Balancing In Medically-Unexplained Symptoms: Chronic Pain Symptoms

Eva Szigethy, MD, PhD

3069/Biopsychosocial Balancing In Medically-Unexplained Symptoms: Neurological Symptoms

Xavier F. Jimenez, MD

2745/Lower Anxiety Associated With Greater Physical Activity In A Pedometer-Based Intervention Among Cardiac Patients

Derek Anderson, MA

**Paper Session: SES**

Chair: Chris Fagundes, PhD

**Scarborough 1/2**

3154/Is Good Sleep A Privilege? Educational Differences in the Effects of Daily Stress on Sleep

David Curtis, MS

2873/Social Status Interacts with Social Uncertainty to Influence Pro-Inflammatory Cytokine Levels and Viral Antibody Levels in Rhesus Monkeys

Jessica Vandeleest, PhD

2972/Perceived Support Moderates the Association of Subjective Socioeconomic Status with Cortisol Responses to a Stressor

Emily Hooker, BA

**Paper Session: TECHNOLOGY IN HEALTH INTERVENTIONS**

Chair: Steve Locke, MD

**Regency B/C**

3100/Use and benefits of computerized CBT integrated in a collaborative care program for anxious and depressed primary care patients

Bea Herbeck Belnap, DrBioHum

3146/Two Ways to the Top: Dominance and Prestige as Cardiovascular Risk Factors Related to Social Status

Timothy Smith, PhD

**Paper Session: CORRELATES OF COGNITIVE FUNCTION**

Chair: Paula Williams, PhD

**Scarborough 3/4**

2517/Endogenous cortisol exposure and neuropsychological functioning: A longitudinal study of short- and long-term effects in older adults

Suzanne Segerstrom, PhD

3134/Individual Differences Reflecting Neurovisceral Integration: Composite Scores on Neuropsychological Tests of Executive Function are Significantly Associated with Resting High Frequency-Heart Rate Variability

Paula Williams, PhD

3103/Cognitive Processing Speed is related with Inflammatory Responses to Repeated Stress

Jonah Price, BA in Progress

3077/Childhood Trauma Exposure, Inflammation, and Cognitive Function in Middle-age

Mary Davis, PhD

**9:30 – 9:45 am**

**Break**

**9:45 – 11:00 am**

**Concurrent Sessions**

**Invited Symposium: WHAT IS PSYCHOSOMATIC MEDICINE IN PRACTICE?**

Chair: Joel Dimsdale, MD, UCSD

Discussant: Christoph Hermann-Lingen, MD, University of Goettingen von Siebold  
Speakers: Takakazu Oka, MD, PhD, Kyushu University; Roland von Känel, MD, Klinik Barmelweid; and Harald Gündel, MD, Universitätsklinikum Ulm

Psychosomatic medicine as a clinical entity is flourishing across the world, but the details of the programs differ in fascinating ways. This symposium presents a description of such programs in Japan, Switzerland, and Germany.

**Regency A**

**Symposium 2763/ BIOPSYCHOSOCIAL FRONTIERS IN PERINATAL HEALTH: EFFECTS OF SLEEP, RACE, AND STRESS ON INFLAMMATION AND CARDIOVASCULAR FUNCTION**

Chair: Chris Dunkel Schetter, PhD

**Regency B/C**

2767/Impaired Vasodilation in Pregnant African Americans: Potential Antecedents and Consequences

Julian Thayer, PhD

2766/Poor sleep quality and inflammation predict preterm birth: Heightened risk among African Americans

Lisa Christian, PhD

2797/Daytime Napping Behavior Hardly Impacts Nocturnal Sleep in Pregnant Women

Michele Okun, PhD

2812/Predictors of C-reactive protein in mothers during the first postpartum year

Christine M. Guardino, PhD

**Paper Session: INTEGRATIVE MEDICINE**

Chair: Margaret Chesney, PhD

**Scarborough 1/2**

3104/Fish Oil Supplementation Does Not Lower Chronic Inflammation or Alter Autonomic Nervous System Function in Healthy Adults

Matthew Muldoon, MD

2668/A Pilot Randomized Controlled Trial of the Clinical and Cost Effectiveness of a Skype Delivered Group Mindfulness Intervention For Distressed People With Progressive Multiple Sclerosis

Rona Moss-Morris, PhD

3013/Effect of a Mindfulness-Enhanced Weight Loss Program on Seasonal Influenza Vaccine-Mediated Immune Responses

Jeffrey Milush, PhD

2866/Psychobiological Responses To Group Drumming Interventions For Mental Health Patients

Daisy Fancourt, MM

**Paper Session: HEART RATE VARIABILITY**

Chair: Kristen Salomon, PhD

**Scarborough 3/4**

2467/Heart Rate Variability Predicts Levels of Inflammatory Markers: Evidence for the Vagal Anti-Inflammatory Pathway

Timothy Cooper, BS

2947/Circadian Variation Of Cardiac Autonomic Modulation and Low-Grade Inflammation In Working Adults

Marc Jarczok, Dr sc. hum.

2641/Psychophysiological Pathways of Self-Regulation: Heart Rate Variability Predicts Ego-Depletion

DeWayne Williams, MA

2843/Exercise and Heart Rate Variability on the Antibody Response to Influenza Vaccination

Martin Eriksson, Medical Student

2493/Vagally-Mediated Heart Rate Variability and Indices of Wellbeing: Results of a Nationally Representative Study

Richard Sloan, PhD

**11:00 – 11:15 am**

**Break**

**11:15 am – 12:15 pm**

**Plenary Address**

**STRESS AND THE MICROBIOTA-GUT-BRAIN AXIS: FROM BOWEL TO BEHAVIOR**

Introduction: Lisa Christian, PhD, The Ohio State University

Speaker: John Cryan, PhD, University College Cork

This talk will give up-to-date insights into how the microbiome plays a major role in postnatal development and maturation of key systems that have the capacity to influence central nervous system programming and signalling, including the immune and endocrine systems.

**Regency A/B/C**

**12:45 – 1:45 pm**

**Roundtable Discussions, Special Meetings or Lunch on Your Own**

**RT #1: The Microbiome**

Facilitator: John Cryan, PhD

**Verelst Room**

**RT #2: Psychosomatic Medicine in Practice**

Facilitators: Harald Gündel, MD, Takakazu Oka, MD, PhD and Roland von Känel, MD

**Vernon Room**

**Special Presentation: 2015 Psychosomatic Medicine Interest Groups**

**Scarborough 1/2**

**Young Investigator Colloquium Lunch (invitation only)**

**Savannah Room**

**Wellness Session: Meditation**

**Plimsoll Room**

**1:45 – 3:00 pm**

**Concurrent Sessions**

**Symposium 2509/ EARLY LIFE EXPERIENCES, PHYSIOLOGICAL PATHWAYS, AND ADULT HEALTH**

Chair: Karen A. Matthews, PhD

Discussant: Stephen Manuck, PhD

**Regency A**

2598/Early Life Stress, FKBP5 and Depressive Symptoms In Midlife

Katri Raikonen, PhD

2599/Early Environmental Exposures and Adult Psychiatric Disorder: Epstein-Barr Virus Antibodies as a Biomarker of Stressor Exposure

Jane Costello, PhD

3070/Social Mobility in Early Life and Adult Health in Black and White Men

Jenny M. Cundiff, PhD

2584/Childhood Socioeconomic Disadvantage is Related to Inflammation/Hemostasis in Mid-Life Women Through Adiposity

Karen A. Matthews, PhD

**Symposium 2660/ STRESS REACTIVITY AND HEALTH: FROM EXAGGERATED TO DIMINISHED REACTIVITY, IMPLICATIONS FOR DISEASE RISK**

Chair: Anna C. Phillips, PhD

Discussant: James McCubbin, PhD

**Regency B/C**

2661/Early Life Adversity as a Pathway to Reduced Stress Reactivity, Disinhibited Behavior, and Risk for Substance Use Disorders

William Lovallo, PhD

2662/Varieties of Hostility and Risk: Cardiac Predictors from Teen and Adult Years

J. R. Jennings, PhD

2807/Cardiovascular Reactions to Acute Psychological Stress and Cognitive Function: Results From Four Independent Studies

Annie T. Ginty, PhD

2875 /Cardiovascular Reactivity During a Cognitive Task is not Related to Measures of Effort

Kristen Salomon, PhD

**Paper Session: OBESITY**

Chair: Janet Tomiyama, PhD

**Scarborough 1/2**

3130/Depressive Disorder Subtypes as Predictors of Incident Obesity: Data from the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC)

Brittanny Polanka, BS

2791/Increased Alexithymia in Case of Unsuccessful Bariatric Surgery

Silla Consoli, MD, PhD

3157/An Angiogenic Monocyte Phenotype is Associated with Distress and Longitudinal Increases in Waistline Circumference

Kirstin Aschbacher, PhD

2723/Associations of Dispositional Mindfulness With Obesity and Central Adiposity: The New England Family Study

Eric Loucks, PhD

2859/The Association of Metabolic Syndrome and Sleep Quality With Inflammation: Results from The MIDUS II Study

Kimberley Smith, PhD

**Paper Session: NEUROIMAGING**

Chair: Tor Wager, PhD

**Scarborough 3/4**

3144/The Road From Obesity to the Brain is Partially Paved with High Blood Pressure

Ben Allen, PhD

3102/Systemic Inflammation Relates to Connectivity of the Default Mode Network in Midlife Adults

Anna Marsland, PhD

3135/Defining Electrophysiological Mechanisms of Acupuncture in Head and Neck Cancer Patients with Xerostomia

Sarah Prinsloo, PhD

2721/Reward-Related Ventral Striatum Activation and Negative Affect: The Moderating Effects of Sleep

Aric Prather, PhD

3129/Alexithymia Influences Brain Activity During Rectal Distention in Subjects with Irritable Bowel Syndrome

Michiko Kano, MD, PhD

**3:00 – 3:15 pm**

**Break**

**3:15 – 4:15 pm**

**Concurrent Sessions**

**SYMPOSIUM 2538/ BEYOND RISK FACTORS & DISEASE: POSITIVE PSYCHOLOGICAL WELL-BEING AND CARDIOVASCULAR HEALTH**

Chair: Julia K. Boehm, PhD

Discussant: Timothy Smith, PhD

**Regency A**

2568/Relationship of Dispositional Optimism and Cardiovascular Health: Cross-sectional Findings from the Multi-Ethnic Study of Atherosclerosis

Rosalba Hernandez, PhD

2540/Healthy Aging: Does Psychological Well-Being Increase The Likelihood Of Maintaining Favorable Cardiovascular Health?

Julia K. Boehm, PhD

2573/The Connection Between Positive Psychological Constructs, Biology, And Behavior: Results From The GRACE Study

Jeffery C. Huffman, MD

**Paper Session: DEPRESSION AND CANCER**

Chair: Karen Weihs, MD

**Regency B/C**

2634/Depressive Symptoms During Primary Treatment in Women with Non-Metastatic Breast Cancer Predict Mortality over 8 -15 years: Biobehavioral Mechanisms

Michael Antoni, Ph.D.

2624/Depression and Social Attachment Predict CD14+ Monocyte Gene Expression Profiles Among Individuals with Multiple Myeloma Undergoing Autologous Stem Cell Transplantation

Erin Costanzo, PhD

3139/SSRI use and Clinical Outcomes in Epithelial Ovarian Cancer

Desire Christensen, MS

2872/Cardiac Vagal Control and Coping Strategies as Predictors of Depression in Breast Cancer

Karen Weihs, MD

**Paper Session: HYPERTENSION**

Chair: Matt Muldoon, MD, MPH

**Scarborough 1/2**

3009/Childhood adversity and hypertension; comparison of self-reported hypertension and measured blood pressure status

Shakira Suglia, ScD

2869/Blood Pressure Reactivity Moderates the Effects of Daily Life Strain on Sub-clinical Atherosclerosis: Examining Diathesis-Stress Interactions Using Ambulatory Monitoring Methods

Thomas Kamarck, PhD

2852/The Effect of Choice on Nocebo Responding to Medication

Keith Petrie, PhD

2569/Depression and Preference for Shared Decision Making Amongst Patients With Uncontrolled Hypertension

Nathalie Moise, MD

**Paper Session: PEDIATRIC PSYCHOSOMATIC MEDICINE**

Chair: Jennifer McGrath, PhD, MPH

**Scarborough 3/4**

3097/Effects of expectancy on cognitive performance and mood in children and their parents

Katja Weimer, PhD

3007/Test-Retest Reliability of Pediatric Heart Rate Variability: A Meta-Analysis  
Oren Weiner, MA

2970/Inter-Relation of HRV and Cortisol and Its Association with Cardiovascular Precursors in Children  
Sivan Rotenberg, MA

2555/Psychosocial Quality of Life, Lifestyle and Adiposity: A Longitudinal Study in Preschoolers  
Nathalie Michels, PhD

4:15 – 4:30 pm

Break

4:30 – 5:30 pm

President's Address

PSYCHOSOMATIC RESEARCH MEETS THE BREAST CANCER CLINIC  
*Introducer: Annette Stanton, PhD, UCLA*  
*Speaker: Karen Weihs, MD, University of Arizona*  
**Regency A**

5:30 – 7:00 pm

Poster Session 1

Posters # 31 through #136 will be presented  
**Harborside Center**

7:30 – 8:30 pm

Mentor/Mentee Program

**Windows – Lobby Level**

Friday, March 20

7:00 am – 5:30 pm

Registration  
**Second Floor**

2840/Diurnal Cortisol and Survival in Epithelial Ovarian Cancer  
Andrew Schrepf, MA

7:30 – 8:30 am

Continental Breakfast  
**Regency Ballroom D/E/F and foyer**  
  
Professional Education Committee  
**Meeting**  
**Verelst Room**

2886/Predicting Who Benefits Most from a Brief Mindfulness Meditation for Women Undergoing Stereotactic Breast Biopsy  
Chelsea Ratcliff, MA

2670/Less angry wife, more happy life: Results of a randomized controlled trial of brief supportive expressive therapy for partners of early stage prostate cancer patients  
Codie Rouleau, MSc

8:30 – 9:45 am

Concurrent Sessions

**Invited Symposium: TRANSDISCIPLINARY APPROACHES TO TARGETING HEALTH DISPARITIES: LINKING UPSTREAM DETERMINANTS TO DOWN-STREAM INTERVENTIONS**

*Chair: Karen Weihs, MD, University of Arizona*  
*Speakers: Suzanne Conzen, MD, The University of Chicago School of Medicine; Martha McClintock, PhD, The University of Chicago, Institute for Mind and Biology; and Sarah Gehlert, PhD, Washington University in St. Louis*  
This symposium will present results to date from a transdisciplinary approach to studying the role of social factors (and resultant social stress biology) in breast cancer biology and clinical outcome. Our models have implications for understanding 1) connections between the psychosocial environment and disparities in breast cancer and 2) neuroendocrine pathways mediating the interaction between the stress response and tumor cell biology.

**Regency A**

3082/Three-arm Randomized Trial of Tibetan Yoga in Breast Cancer Patients  
Lorenzo Cohen, PhD

**Paper Session: DISTRESS, AFFECT AND CARDIAC DISEASE**

*Chair: Ian Kronish, MD*  
**Scarborough 3/4**

2591/Cost-effectiveness of a collaborative care depression and anxiety treatment program in patients with acute cardiac illness  
Christopher Celano, MD

3024/Coronary Microvascular Disease: A Potential Correlate of Ischemia with Mental Stress  
Pratik Pimple, MBBS, MPH

3025/Myocardial Ischemia Induced by Mental Stress in Patients with Stable Coronary Artery Disease: Evidence for a Higher Risk Among Young Women  
Viola Vaccarino, MD, PhD

2499/Association of Anhedonia with Recurrence of Coronary Heart Disease Events and All-Cause Mortality: Meta-Analysis of Individual Participant Data from 8 Studies with 6,997 Participants  
Jonathan Shaffer, PhD

2751/Generalized Anxiety Disorder and Panic Disorder as Independent Risk Factors for Cardiovascular Disease: Data from the National Epidemiologic Survey on Alcohol and Related Conditions (NESARC)  
Elizabeth Vranj, BA

**Symposium 2701/RISK AND RESILIENCE FACTORS FOR MULTISYSTEM BIOLOGICAL DYSFUNCTION**

*Chair: Joshua F. Wiley, C.Phil.*  
*Discussant: Robert-Paul Juster, PhD Candidate*  
**Regency B/C**

2990/Reports of Chronic Stress and Longitudinal Allostatic Load in the Multi-Ethnic Study of Atherosclerosis  
Teresa E. Seeman, PhD

2900/A Constellation of Psychosocial Resources are Associated with Lower Allostatic Load  
Joshua F. Wiley, C.Phil.

2903/Does Allostatic Load Underlie Greater Risk of Coronary Artery Calcification in those of Lower Socioeconomic Status?  
Tara L. Gruenewald, PhD

2904/Improvements in Sleep Quality Lower Multisystem Biological Risk in Older Adults  
Judith E. Carroll, PhD

**Paper Session: UNDERSTANDING AND IMPROVING CANCER OUTCOMES**

*Chair: Lorenzo Cohen, PhD*  
**Scarborough 1/2**

2893/Beta-adrenergic Activation of Epithelial-Mesenchymal Transition in Ovarian Cancer  
Susan Lutgendorf, PhD

9:45 – 10:00 am

BREAK

10:00 – 11:00 am

Plenary Address

**FROM SLEEP TO SLEEP HEALTH TO HEALTH**

*Introduction: Martica Hall, PhD, Western Psychiatric Institute & Clinic*  
*Speaker: Daniel J. Buysse, MD, University of Pittsburgh*  
Good sleep is essential to good health. But which aspects of sleep are related to health, and through which mechanisms, remain less clear. Whether interventions to improve sleep can influence health also remains largely unanswered. This talk will present a framework for exploring how different aspects of sleep contribute to the construct of sleep health; and how sleep health may influence broader measures of physical and mental health; and how sleep health interventions may improve overall health.  
**Regency A/B/C**

11:00 – 11:15am

BREAK

11:15am – 12:30 pm

Concurrent Sessions

**Symposium 3169/ OPTIMIZING THE EXPRESSIVE WRITING INTERVENTION TO PROMOTE ADJUSTMENT AND HEALTH BEHAVIOR**

Chair: Qian Lu, MD, PhD

Discussant: Joshua Smyth, PhD

**Regency A**

3170 /Expressive Writing and Avoidance among Chinese American Breast Cancer Survivors

Qian Lu, MD, PhD

3171/Evaluating Guilt and Shame in an Expressive Writing Alcohol Intervention

Lindsey Rodriguez, PhD

3172/ Helping Yourself by Helping Others: Mediators of an Expressive Helping Intervention in Predicting Psychological Adjustment to Hematopoietic Stem-Cell Transplant

Timothy Williamson, MPH

3173/The Effect Of Expressive Writing Intervention for Infertile Couples: A Randomized Controlled Trial Study

Yoon Frederiksen, MSc

**Paper Session: EATING BEHAVIOR AND WEIGHT**

Chair: Jutta Wolf, PhD

**Regency B/C**

2918/Gut microbiome-brain interactions in hedonic eating behaviors

Susan Schembre, PhD, RD

2746/Loneliness Predicts Postprandial Ghrelin and Hunger in Women

Lisa Jaremka, PhD

2556/Does Comfort Food Comfort? Dynamics of the Associations Between Stress, Mood, and Eating Behaviors in a Healthy Population

Jana Strahler, PhD

2857/Change in Psychological States After Meals and Food Intake: Investigation by Using an Electronic Food Diary and Ecological Momentary Assessment

Hiroe Kikuchi, MD, PhD

2906/Is the Obesogenic Quality of the Home Environment Associated with Energy-Balance Behaviors and Weight in Early Childhood?

Stephanie Schrepft, PhD

**Paper Session: INFLAMMATION**

Chair: Michele Okun, PhD

**Scarborough 1/2**

2631/Stress in Emergency Medicine Physicians, Biomarkers and Objective Clinical Performance.

Bengt Arnetz, MD, PhD

2939/HPA and Rest/Activity Rhythms Independently Associate with Different Aspects of Inflammatory Response in Patients Awaiting Treatment for Breast Cancer

Elizabeth Cash, PhD

3058/Fasting Modulates Cortisol and Interleukin-6 Responses to Acute Psychosocial Stress

Luke Hanlin, MA

2537/Gender Differences in Mental-Stress Induced Pro-Inflammatory Responses in Healthy, Older Participants from the Whitehall II Cohort

Romano Endrighi, PhD

2940/Depression Predicts survival in a 17 year longitudinal study of people with HIV

Gail Ironson, MD, PhD

**Symposium 2768/BRAIN-BODY INTERACTIONS IN ANXIETY AND DEPRESSION**

Chair: Hugo D. Critchley, DPhil

Discussant: Tor Wager, PhD

**Scarborough 3/4**

2769/Heart Rate Variability Predicts Neural Shift from Worrying Thoughts to Attentional Control in Anxious and Healthy Subjects

Cristina Ottaviani, PhD

2997/Interactions Between Heart, Brain and Fear: Implications for Anxiety

Sarah N. Garfinkel, PhD

3002/The Relation of Resting State Functional Connectivity Between Brainstem Regions and the Neocortex in Patients with Major Depression

Karl - Jürgen Bär, MD

2916/Mind-body Interactions in JH: Relevance to Psychiatric Symptoms

Jessica Eccles, MB Bch, MRCPsych

1:00 pm – 2:00 pm

Roundtable Discussions, Special Meetings or Lunch on Your Own

**RT# 3: Toward Precision Cancer Care: Next Steps for the Biobehavioral Agenda**

Facilitators: Michael Antoni, PhD, Lorenzo Cohen, PhD, Suzanne Conzen, MD, and Janine Giese-Davis, PhD

**Verelst Room****RT #4: Trainee Roundtable: Maximizing your Time as a Trainee to Achieve Job Market Success**

Facilitators: Leo Pozuelo, MD, Anna Catriona Phillips, PhD, Sarah Pressman, PhD, Eli Puterman, PhD, A. Janet Tomiyama, PhD

**Vernon Room****Psychosomatic Medicine Editorial Board Lunch (invitation only)****Savannah Room****Wellness: YOGA****Plimsoll Room**

2:00 – 3:30 pm

Concurrent Sessions

**Symposium 2652/DIABETES, OBESITY AND THE BRAIN**

Chair: Peter Hall, PhD

Discussant: Susan Everson-Rose, PhD

**Regency A**

2655/Executive Function and T2DM Status: A Meta-Analysis

Corita Vincent, MSc

2820/Age of Onset of Type 1 Diabetes in Childhood is Associated With Regional Cerebral Perfusion in Midlife

John P. Ryan, PhD

2810/Abdominal Obesity is Related to Poorer Neuronal Integrity in Midlife

Andreeana P. Haley, PhD

2770/Dietary Fatty Acids Differentially Modulate the Rewarding Value of Sucrose

Dianne F. Lattemann, PhD

2653/The Effects of Facilitating and Restraining Cues on the Expression of Executive Control in Snack Food Consumption

Peter Hall, PhD

**Paper Session: CHILDHOOD ADVERSITY AND HEALTH**

Chair: Bill Lovallo, PhD

**Regency B/C**

2722/Parental Marital Conflict and Cellular Aging in Childhood: Adversity Exposure Accumulation vs. Negative Affective Reactivity

Theodore Robles, PhD

2704/Harsh early family climate, low childhood socioeconomic status, and pro-inflammatory phenotype in adults

Kharah Ross, MA



Follow Twitter Streams at  
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2630/Early Life Trauma Associates with Increased Risk of Arrhythmia During Mental Stress Challenge  
Virginia Weeks, BA

2632/Adverse Childhood Experiences and Blood Pressure Trajectories from Childhood to Young Adulthood: The Georgia Stress and Heart Study  
Shaoyong Su, PhD

2528/Childhood Abuse is Associated with Increased Hair Cortisol among Urban Pregnant Women  
Hannah Schreier, PhD

2496/Reduced maternal sensitivity as a mechanism by which prenatal maternal depression increases infant cortisol reactivity to stress  
Jenna Thomas, BSc

**Paper Session: UNDERSTANDING ETHNIC MINORITY HEALTH**

Chair: Danielle Beatty Moody, PhD

**Scarbrough 1/2**

2850/Anxiety Symptom Severity Moderates the Relationship between Stressful Life Events and Carotid Intima-Media Thickness: Data from the St. Louis African American Health-Heart Study  
Jessica Berntson, BA

3145/Resting Heart Rate Variability and Perceived Ethnic Discrimination in African Americans: A Focus on Ruminative Tendencies  
DeWayne Williams, MA

2856/Social Climate Stresses Explain Race Differences in Sleep Problem Trajectories during Tertiary Educational Attainment  
Thomas Fuller-Rowell, PhD

3108/Subjective Social Status predicts interleukin-6 responses to acute psychosocial stress in non-white but not white individuals  
Alexander Fiksdal, MA

2673/The Association of Paternal Warmth and Circulating Angiogenic Cell Function: A Protective Effect on Cardiovascular Health?  
Tomas Cabeza de Baca, PhD

2739/Racism and Breastfeeding: Barriers in a Community Sample of Women  
Elizabeth Brondolo, PhD

**Paper Session: PREDICTING METABOLIC RISK**

Chair: Lawson Wulsin, MD

**Scarbrough 3/4**

3057/Objectively-Assessed Heavy Snoring is Associated with Increased Risk for the Metabolic Syndrome and Adiposity-Related Components in a Community Sample of Midlife Women  
Laura Samuelsson, MS

2909/Believing in a just world predicts lower levels of metabolic symptoms and inflammation and better sleep quality after an unfair event  
Cynthia Levine, PhD

2687/Refining Metabolic Risk through Duration of Exposure in the Framingham Heart Study  
Lawson Wulsin, MD

2896/Social Isolation, Mammary Gland Development, and Metabolic Gene Regulation in Pubertal Female Sprague-Dawley Rats  
Marianna Johnson, BA

3137/Testing the Reciprocal Association between Depressive Symptoms and Metabolic Syndrome: A Four-Wave Prospective Study  
Timothy Smith, PhD

3072/Early-life adversity and metabolic outcomes in adolescents: The role of implicit affect about one's family  
Meanne Chan, MA

3:30 – 3:45 pm

Break

3:45 – 5:00 pm

Concurrent Sessions

**Invited Symposium: POOR SLEEP IN AFRICAN-AMERICANS: PSYCHOSOCIAL AND DEMOGRAPHIC CORRELATES**

Chair: Tené Lewis, PhD, Emory University

Speakers: KaMala Thomas, PhD, Pitzer College; Dayna Johnson, PhD, Harvard Medical School; and Girardin Jean-Louis, PhD, New York University School of Medicine  
**Regency A**

Neighborhood Socioeconomic Status as a Predictor of Polysomnographic Sleep and Blood Pressure Dipping in African Americans  
KaMala Thomas, PhD

Influence of Psychosocial Stressors on Sleep; Modification by Sex, Age and Socioeconomic Status  
Dayna Johnson, PhD

Behavioral Sleep Health Education Interventions to Increase Awareness about Obstructive Sleep Apnea in Blacks  
Girardin Jean-Louis, PhD

**Symposium 2958/ PSYCHOLOGICAL AND BIOLOGICAL FACTORS IN HEART FAILURE: IT'S NOT ONLY DEPRESSION**

Chair: David S. Krantz, PhD

Discussant: David Sheps, MD

**Regency B/C**

2971/Gratitude and its Relationship with Well-being in Asymptomatic Heart Failure (HF) Patients  
Paul J. Mills, PhD

2961/Acute and Chronic Predictors of Heart Failure Adverse Events, Functional Status, Symptoms and Biomarkers: Comparison with Psychological Stress  
Romano Endrighi, PhD

2969/Altered Nitric Oxide Regulation in Patients with Heart Failure: The Association Between Depressive Symptoms with L-arginine, ADMA, SDMA and isoprostane  
Paula M. Mommersteeg, PhD

2974/Cognitive Behavior Therapy for Depression and Self-Care in Heart Failure: A Randomized Controlled Trial  
Kenneth E. Freedland, PhD

**Paper Session: DISTRESS, AFFECT AND PAIN**

Chair: Sarah Pressman, PhD

**Scarbrough 1/2**

2748/Momentary Anger, General Mood, and Physical Well-Being in Patients with Chronic Disease: The Moderating Roles of Anger Expression Styles and Gender  
Michael Russell, PhD

2478/Biological Stress Systems, Adverse Life Events and the Onset of Chronic Multi-Site Musculoskeletal Pain: A Six-Year Cohort Study  
Ellen Geeraal, MSc

2671/The Role of the Feeling of Being Loved in the Relation between Cognitions and Daily Pain in Fibromyalgia Patients  
Shannon Taylor, MA

2787/Stress Exacerbates Pain in the Everyday Lives of Women with Fibromyalgia - The Role of Cortisol And Alpha-Amylase  
Susanne Fischer, MSc

2024/Chronic Pain and Increases in SBP over 12 Years in Midlife Women: Tests of Unique and Mediated Relationships in SWAN  
John Burns, PhD

**Paper Session: GENETIC, MITOCHONDRIAL AND PSYCHOSOCIAL INFLUENCES ON CORTISOL**

*Chair: Susan Lutgendorf, PhD*  
**Scarborough 3/4**

3059/Preliminary results of cognitive behavioral stress management (CBSM) on cortisol levels among low-income pregnant women: The SMART Moms Project  
 Guido Urizar, PhD

2831/Positive Emotionality is Associated with a Steeper Diurnal Cortisol Slope  
 Karissa Miller, MS

2578/The Impact of Chronic Stress on Cortisol Reactivity  
 Sarah Fredrickson, MA

2010/Cortisol Stress Reactivity Differences in Men and Women Regulated by the Mu-Opioid Receptor Gene Polymorphism (OPRM1 A118G)  
 William Lovallo, PhD

2776/Neuroendocrine, Metabolic, Inflammatory and Transcriptional Responses to Acute Psychological Stress are Modulated by Mitochondrial Function  
 Martin Picard, PhD

5:00 – 6:30 pm

**Poster Session 2**

Posters # 137 through #248 will be presented.  
**Harborside Center**

7:00 – 8:00 pm

**Sexual Minority Health SIG Reception**  
**Plimssoll Room**

7:00 pm

**Past Leader Dinner (by invitation only)**

**Saturday, March 21**

7:00 am – 5:00 pm

**Registration**  
**Second Floor**

7:30 – 8:30 am

**2016 Program Committee Meeting**  
**Verelst Room**

**Diversity Initiative Breakfast**  
**Vernon Room**

7:45 – 8:45 am

**Continental Breakfast**  
**Regency Ballroom D/E/F and foyer**

8:45 – 9:45am

**APS Members Meeting**  
**Regency A**

10:00 am – 12:00 pm

**Awards Presentations**  
**Regency A/B/C**

**Herbert E. Weiner Early Career Award Lecture: Moving Away from a “One-Size-Fits-All” Approach to the Happiness-Health Connection**

*Introduction: Sheldon Cohen, PhD, Carnegie Mellon University*  
*Award Recipient: Sarah Pressman, PhD, University of California-Irvine*

The growing evidence of the benefits of positive emotions on physical health is impressive, but continues to take a “one size fits all” approach. That is, researchers assume that all types of positive emotions are beneficial in all types of circumstances and for all types of people. This talk will explore important nuances of the happiness-health connection, with a focus on the possible role of emotional arousal, emotional expression, culture, ideal affect, and contextual demands. Lessons are drawn from an array of research paradigms ranging from broad global population studies to more focused laboratory stress physiology experiments.

**Patricia R. Barchas Award Lecture: Neurobiological Consequences of Early-Life Adversity**

*Introduction: Urs Nater, PhD, University of Marburg*  
*Award Recipient: Christine Heim, PhD, Institute of Medical Psychology, Charité University Medicine*

Social-emotional adversity in early life, such as childhood abuse, neglect and loss, is a well-established major risk factor for developing a range of psychiatric and medical disorders later in life. Biological embedding of maltreatment during development is thought to underlie this long-term increased risk. This presentation will provide an overview of our human clinical research regarding the neurobiological consequences of childhood trauma. Our results suggest that childhood trauma in humans is associated with sensitization of the neuroendocrine and autonomic stress response, glucocorticoid resistance, decreased oxytocin activity, inflammation, reduced hippocampal volume and changes in cortical fields that are implicated in the perception or processing of the abuse. The consequences of childhood trauma are moderated by genetic factors and mediated by epigenetic changes in genes relevant for stress regulation. However, the immediate processes of biological embedding after maltreatment remain unknown and we are not yet able to offer

pathophysiology-driven effective prevention strategies to these children. Thus, understanding trajectories of biological embedding, and their moderation by gene-environment interaction, is critical to enable us to design novel interventions that directly reverse these immediate processes and to derive biomarkers that identify children who are at risk to develop disorders and/or are susceptible to respond to a specific intervention.

**Paul D. MacLean Award Lecture: Reintegrating the Self: Insights from Studies of Deep Brain Stimulation for Depression**

*Introduction: Richard Lane, MD, PhD, University of Arizona*

*Award Recipient: Helen S. Mayberg, MD, Emory University School of Medicine*  
 Deep Brain Stimulation (DBS) is an emerging treatment strategy for patients with intractable depression with imaging playing a crucial role in the development, testing and refinement of the procedure. Multimodal modeling of structural and functional network connections combined with real-time behavioral, autonomic and electrophysiological metrics are now used to more precisely identify the optimal target location as well as track long-term stimulation effects. Together these studies offer a unique perspective on critical pathways and mechanisms mediating the antidepressant effects of DBS, and potentially on the pathophysiology of treatment resistant depression more generally.

12:30 – 1:30 pm

**Roundtable Discussions, Special Meetings or Lunch on Your Own**

**RT #5: APS meets PNIRS**

*Facilitator: Jutta Wolf, PhD*  
**Vernon Room**

**RT#6: Discussion w/ Oken Fellow - Lab to Market V: How to Successfully Disseminate Evidence-based Behavioral Interventions Using an Integrative Model**

*Facilitators: Kurt Kroenke, MD, Steven Locke, MD, Bruce Rollman, MD, MPH, Murray Stein, MD, MPH and Eva Szigethy, MD, PhD*  
**Verelst Room**

**RT#7: Discussion with MacLean Award Recipient**

*Facilitators: Richard Lane, MD, PhD and Helen Mayberg, MD*  
**Percival Room**



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1:30 – 2:45 pm

**Concurrent Sessions****Invited Symposium: HIGH UTILIZERS IN PSYCHOSOMATIC MEDICINE***Chair: Jeff Huffman, MD**Speakers: Roger Kathol, MD, Cartesian Solutions, Inc.; Per Fink, MD, PhD, Aarhus University Hospital; Kurt Kroenke, MD, Indiana University School of Medicine/ Regenstrief Institute; and Cynthia Stonnington, MD, Mayo Clinic*

There is mounting attention on 'high utilizer' patients as major drivers of health-care cost in the United States and worldwide. A substantial proportion of these patients have conditions that are highly relevant to practice and research in psychosomatic medicine, including somatic symptom disorders and related conditions (e.g., fibromyalgia, chronic fatigue syndrome), as well as medical patients with comorbid mood/anxiety disorders. This symposium will focus on research, policy, and clinical care of psychosomatic medicine high utilizer patients.

**Regency A****Symposium 2020/THE IMPACT OF WEIGHT STIGMA ON PHYSIOLOGICAL STRESS, ENERGY EXPENDITURE, AND HEALTH***Co-Chairs: A. Janet Tomiyama, PhD and Natasha Schvey, PhD***Regency B/C**

2712/Is Weight Stigma Stressful? Evidence from correlational, longitudinal, and experimental studies

*A. Janet Tomiyama, PhD*

2021/Understanding the real-time within-person responses linking weight stigma to poor health in daily life

*Joshua M. Smyth, PhD*

2713/Pressure to be Thin is Associated with Fasting Glucose and Insulin among Lean and Overweight Adolescents

*Natasha A. Schvey, PhD*

2714/Weight Bias Internalization, Exercise, and Psychological Well-Being: The Case for Targeting Self-Directed Weight Stigma

*Rebecca Pearl, MPhil***Paper Session: SLEEP AND CARDIOVASCULAR DISEASE***Chair: Aric Prather, PhD***Scarborough 1/2**

2915/Gender-Specific Associations between Nap and Sleep Behavior Patterns and C-Reactive Protein in MIDUS II Respondents

*Jaime Devine, MS*

2533/Is Daytime Napping Associated With Adolescent Cardiovascular Health?

*Karen Jakubowski, BS*

3136/Objectively-Assessed Sleep Predicts Framingham Risk Score Nearly Two Decades Later

*Martica Hall, PhD*

2588/Marital distress is associated with nocturnal blood pressure nondipping in women, in part through short sleep

*Wendy Troxel, PhD*

2678/Race Differences in Diurnal Cortisol Functioning: Sleep as a Mediator

*Laurel Peterson, PhD***Paper Session: DIABETES***Chair: John Ryan, PhD***Scarborough 3/4**

3121/Depression and Anxiety Screens as Predictors of 9-Year Incidence of Diabetes

*Tasneem Khambaty, MS*

2899/Trajectories of Depression In an Onset Cohort of Adults with Type 1 Diabetes: Six Year Follow-Up

*Oskar Mittag, ScD*

2919/Parental History of Diabetes and Diabetes: Moderation by Depressive Affect and Positive Affect

*Vera Tsenkova, PhD*

2635/Self-rated Health and Occupational Status Explain The Association Between Stress and Incident Diabetes: Evidence From The IPC Cohort Study

*Emmanuel Wiernik, MSc*

2519/Psychological Resources and Glucoregulation in Japanese Adults: Findings from MIDJA

*Jennifer Morozink Boylan, PhD*

2:45 – 3:00 pm

**Break**

3:00 – 4:00pm

**Concurrent Sessions****Symposium 2809/BIOFIELD SCIENCE: EMERGING PERSPECTIVES ON PHYSIOLOGY AND PSYCHOSOMATIC MEDICINE***Chair: Susan Lutgendorf, PhD**Discussant: Lorenzo Cohen, PhD***Regency A**

2853/Biofield Physiology: Framework for an Emerging Discipline

*Richard Hammerschlag, PhD*

2979/Biofield Therapies for Clinical Populations: State of the Science

*Shamini Jain, PhD*

2949/Biofield Devices: Potential Tools for Measurement, Diagnosis and Treatment

*Blake Gurfein, PhD***Symposium 3081/LEARNING FROM STRESS: WHY IS IT BAD FOR THE BRAIN? STRUCTURE, FUNCTION AND PERFORMANCE***Chair: Mary-Frances O'Connor, PhD**Discussant: Richard Lane, MD, PhD***Regency B/C**

3083/Stress, meaning, and the medial prefrontal cortex

*Tor Wager, PhD*

3084/Cortisol and Cardiovascular Risk Link Community Socioeconomic Disadvantage to Brain Morphology

*Peter J. Gianaros, PhD*

3085/Disrupted Prefrontal Activity during Emotion Regulation in Complicated Grief: An fMRI Investigation

*Brian Arizmendi, MA***Paper Session: TRAUMA AND HEALTH***Chair: Viola Vaccarino, MD, PhD***Scarborough 1/2**

3016/The Roles of PTSD and Depression Symptom Severity in Linking Military Stressors and Functional Health Outcomes in Male and Female Veterans of OEF/OIF

*Brian Smith, PhD*

2798/Impaired Autonomic Modulation and Abnormal Circadian Variation in Male Twins with Posttraumatic Stress Disorder

*Lei Weng, MPH*

2691/Pre- and Post-Operative Levels of Stress Hormones Can Predict Symptoms of Post-Traumatic Stress Following Total Knee Replacement Surgery

*Julie Cremeans-Smith, PhD*

2975/Posttraumatic Stress Disorder Symptoms and Hypercoagulability in Acute Coronary Syndrome Patients

*Vy Ho, BS***Paper Session: SOCIAL RELATIONSHIPS AND HEALTH***Chair: Matt Cribbet, PhD***Scarborough 3/4**

2783/Daytime Salivary Cortisol Secretion is Associated with The Quality of Daily Life Marital Interactions as Measured by Ecological Momentary Assessment

*Mark Thomas, BS*



2953/Observed Emotional Intimacy Processes during Support Discussions in Couples Coping with Head and Neck Cancer

Kathrin Milbury, PhD

3133/The Effect of Emotional Approach Coping, Social Support and Emotional Expression on Stress Reactivity: An Experimental Test

Heidi Kane, PhD

2732/Opioids and Social Bonding: The Effect of Naltrexone on Feelings of Social Connection

Tristen Inagaki, PhD

among individuals with multiple chronic conditions and disabilities. HRQOL is a multidimensional health outcome that encompasses measures of mental health, physical health, and social functioning. From the public health perspective, HRQOL supplements the more traditional measures of mortality and morbidity and is useful because it provides broad summary measures of perceived health that can be used to assess the health of a population over time. Differences in HRQOL among those with and without disabilities and functional limitations have been studied extensively, but the correlates of related factors such as age, health service utilization and behavioral risk factors are not well understood. The goal of my presentation will be to examine and summarize recent studies examining the associations between functional limitations, behavioral risk factors, and HRQOL.

*Regency A*

#### 4:15 – 5:15 pm

#### Plenary

ASSESSING THE RELATIONSHIP BETWEEN FUNCTIONAL STATUS AND HEALTH-RELATED QUALITY OF LIFE ACROSS THE LIFESPAN

*Introduction: Kristen Salomon, PhD, University of South Florida*

*Speaker: William J. Thompson, PhD, Centers for Disease Control and Prevention*

The shift in focus in public health to health promotion and quality of life is advancing quickly due to increases in life expectancy and the increasing number of individuals living with chronic diseases. Furthermore, as the population of the United States continues to age, the public health community has become more focused on understanding how to improve health-related quality of life (HRQOL)

5:15 – 6:45 pm

#### Poster Session 3

Posters # 249 through #351 will be presented

*Harborside Center*

7:15 – 11:00 pm

#### Closing Banquet

*Regency Ballroom*

### Meeting Objectives

At the conclusion of this meeting, participants will be able to:

1. Describe the biopsychosocial processes relevant to Psychosomatic Medicine across all levels of analysis, from the molecular level (i.e., cells) to the community level.
2. Identify issues in implementing interventions, particularly with medical-psychiatric comorbidities
3. Foster understanding of the role of sleep in improving health.

### Continuing Education Information

#### Satisfactory Completion

Participants must complete an attendance/evaluation form in order to receive a certificate of completion/attendance. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available.

#### Physician

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the Institute for the Advancement of Human Behavior (IAHB) and the American Psychosomatic Society. The IAHB is accredited by the ACCME to provide continuing medical education for physicians.

The IAHB designates this live activity for a maximum of 22.50 credits *AMA PRA Category 1 Credit(s)<sup>TM</sup>*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### Psychologists

This course is co-sponsored by Amedco and the American Psychosomatic Society. Amedco is approved by the American Psychological Association to sponsor continuing education for psychologists. Amedco maintains responsibility for this program and its content. 22.50 hours.



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Tor Wager, PhD

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### Coming this Fall to New York City!

**Two-Day APS-AGA Sponsored Symposium**  
**Brain-Gut Interactions and the Intestinal Microenvironment**

**Doug Drossman, MD**  
**Magnus Simren, MD**  
**Co-Chairs**

*Details will be available at [www.psychosomatic.org](http://www.psychosomatic.org)*

Join us for the  
**2016 APS Annual Meeting**  
**March 9-12**  
**Denver, Colorado**

*abstract submissions begin summer 2015*

## APS 2015 Awards

### Travel Award for MacLean Scholars

Janine Dutcher, MA, UCLA  
Thomas Krainak, BA, University of Pittsburgh

### APS Young Scholars Award

Derek Anderson, MA, The Ohio State University  
Jennifer Boylan, PhD, University of Pittsburgh  
Jaime Devine, BA, Brandeis University  
Pratik Pimple, MBBS, MPH, Emory University  
Kharah Ross, MA, Northwestern University  
Codie Rouleau, MSc, University of Calgary  
Andrew Schrepf, MA, University of Iowa  
Ni Sun-Suslow, BS, University of Miami  
Mark Thomas, BS, University of Pittsburgh  
Jessica Vandeleest, PhD, University of California-Davis  
Elizabeth Vranj, BA, Indiana University-Purdue University, Indianapolis  
DeWayne Williams, BA, The Ohio State University

### Medical Student/ Medical Resident/ Medical Fellow Travel Scholarship

Elizabeth Ahn, BA, Medical College of Georgia  
Desire Christensen, MS, University of Iowa  
Timothy Cooper, BS, Columbia University  
Sebastian Karl, BSc, Ulm University  
Tatjana Meier, Dr.med., University Hospital of Ulm  
Nathalie Moise, MD, Columbia University Medical Center  
John Samaan, MD, MPH, Larkin Community Hospital  
Corita Vincent, MSc, University of Toronto

### Minority Initiative Award

Tomas Cabeza de Baca, PhD, University of California, San Francisco  
Karina Corona, BA, University of California, Irvine  
Natasha Garcia, BA, University of Kentucky  
Nicholas Joseph, Associates of Art, Ohio State University  
Risa Long, MA, The Ohio State University  
Miriam Van Dyke, BS, Emory University

### Cousins Center Global Outreach Award

Amlan Kusum Jana, MD, KPC Medical College & Hospital  
Symon Kariuki, MSc, KEMRI-Wellcome Trust Research Programme

### 2015 Young Investigator Colloquium Class

#### Scholars:

Rachel Burns, PhD, McGill University  
Matthew R. Cribbet, PhD, Western Psychiatric Institute and Clinic  
Sonya Deschênes, PhD, McGill University  
Daisy Fancourt, MM, University College London (UCL)  
Brian Gonzalez, PhD, Moffitt Cancer Center  
Ruth Hackett, MSc, University College London  
Bjoern Horing, PhD, Clemson University  
Charles Jonassaint, PhD, University of Pittsburgh  
Dooyoung Jung, MD, Seoul National University Hospital  
Stefan Kempke, PhD, University of Leuven  
Kate Kuhlman, PhD, UCLA Department of Psychology  
Roger McIntosh, PhD, University of Miami  
Nathalie Michels, PhD, Ghent University  
Jennifer Morey, PhD, University of Kentucky  
Maria Pacella, PhD, Center for AIDS Intervention Research, Medical College of Wisconsin  
Ryan Rajaram, MD, Cleveland Clinic Foundation  
Amy Ronaldson, MSc, University College London  
Hendrika Schenk, MSc, University Medical Center Groningen  
Burkhard Schmidt, PhD, Heidelberg University  
Bianca Serwinski, MSc, University College London

#### Mentors:

David Krantz, PhD  
Timothy Smith, PhD  
Redford Williams, MD  
Martica Hall, PhD  
Julian Thayer, PhD  
Gail Ironson, MD, PhD  
Peter Shapiro, MD  
Gaston Kapuku, MD, PhD  
Joel Dimsdale, MD  
Bill Lovallo, PhD

### Psychosomatic Medicine Interest Group (PMIG) Award

Cleveland Clinic Lerner College of Medicine  
Icahn School of Medicine at Mount Sinai  
UCLA Geffen School of Medicine

#### Acknowledgments:

Funding for APS Young Scholar Awards and Minority Initiative Travel Awards is provided by a grant from the National Institutes of Health (R13 HL074923: M Hall, PI). The APS is grateful to the NIH and our Program Officer, Dr. Peter Kaufmann, for their continued support of this grant, now in its 10th year of funding.

