"Here is a 'must-read' for all health promotion researchers and practitioners eager to stay one step ahead of the pack. A panoply of insightful and promising new approaches is presented for consideration and exploration in our contemporary behavioral science arsenal."
— M. Elaine Auld, MPH, CHES, Chief Executive Officer, Society for Public Health Education

"This book is an essential addition to the health practice and research literature, concentrating on theories that have not been extensively covered elsewhere and that have great currency. It provides an up-to-date rendition on the interplay among contemporary public health concerns, sound public health practice, and the theoretical bases for practice."
— Robert M. Goodman, PhD, MPH, Dean and Professor, School of Health, Physical Education, and Recreation, Indiana University

"The authors of Emerging Theories provide vivid descriptions of the state of the science in health promotion and presents an exciting map for future research. Understanding and using theories is the hallmark of an excellent practitioner. Creating and elaborating theories is the mark of an excellent researcher. This text will be very valuable for both."
— Noreen M. Clark, PhD, Myron E. Wegman Distinguished University Professor; Director, Center for Managing Chronic Disease, University of Michigan

"Emerging Theories captures the dynamic growth in theories of health promotion and illustrates how divergent theoretical perspectives are being integrated into richer explanatory and practice models."
— Matthew W. Kreuter, PhD, MPH, Professor of Social Work and Medicine; Director, Health Communication Research Laboratory, Washington University in St. Louis

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EMERGING THEORIES IN HEALTH PROMOTION PRACTICE AND RESEARCH
In the world of theory there strode three giants:
Albert Bandura, Martin Fishbein,
Everett Rogers

Many have stood on their broad shoulders and benefited from their seminal research. To them the field owes a great debt of gratitude.
For Sahara—you are my heart, my soul, and my inspiration—all my love.
For Gina Maria—my wife, my colleague, and my life partner—you are incredible.
RJD

To my three children for their inspiration—their lives are a constant reminder to me of an unending obligation to improve the world we live in.
RAC

To my husband, whose continued support allows me to take advantage of new opportunities as they arise—for this I’m grateful.
MCK
CONTENTS

Tables and Figures xi

Foreword xv
Ross C. Brownson

Acknowledgments xviii

The Editors xix

The Contributors xx

1 THEORY IN HEALTH PROMOTION PRACTICE AND RESEARCH 3
Richard A. Crosby • Michelle C. Kegler • Ralph J. DiClemente

PART 1 INDIVIDUAL-LEVEL APPROACHES 19

2 THE INFORMATION-MOTIVATION-BEHAVIORAL SKILLS MODEL OF HIV PREVENTIVE BEHAVIOR 21
Jeffrey D. Fisher • William A. Fisher • Paul A. Shuper

3 SOCIAL INFLUENCES: THE EFFECTS OF SOCIALIZATION, SELECTION, AND SOCIAL NORMATIVE PROCESSES ON HEALTH BEHAVIOR 65
Bruce G. Simons-Morton • Denise Haynie • Elizabeth Noelcke

4 SELF-ESTEEM ENHANCEMENT THEORY: PROMOTING HEALTH ACROSS THE LIFE SPAN 97
David L. DuBois • Brian R. Flay • Michael C. Fagen
5 CONSERVATION OF RESOURCES THEORY: APPLICATION TO PUBLIC HEALTH PROMOTION 131
   Stevan E. Hobfoll • Jeremiah A. Schumm

6 SELF-DETERMINATION THEORY: PROCESS MODELS FOR HEALTH BEHAVIOR CHANGE 157
   Michelle S. Fortier • Geoffrey C. Williams • Shane N. Sweet • Heather Patrick

7 THE ELABORATION LIKELIHOOD MODEL OF PERSUASION: DEVELOPING HEALTH PROMOTIONS FOR SUSTAINED BEHAVIORAL CHANGE 185
   Richard E. Petty • Jamie Barden • S. Christian Wheeler

8 AN INTEGRATIVE MODEL FOR BEHAVIORAL PREDICTION AND ITS APPLICATION TO HEALTH PROMOTION 215
   Martin Fishbein

PART 2 COMMUNITY-BASED APPROACHES 235

9 THE COMMUNITY COALITION ACTION THEORY 237
   Frances D. Butterfoss • Michelle C. Kegler

10 COMMUNITY CAPACITY: THEORY AND APPLICATION 277
   Monica L. Wendel • James N. Burdine • Kenneth R. McLeroy • Angela Alaniz • Barbara Norton • Michael R. J. Felix

11 NATURAL HELPER MODELS TO ENHANCE A COMMUNITY’S HEALTH AND COMPETENCE 303
   Eugenia Eng • Scott D. Rhodes • Edith Parker

12 COMMUNITY-BASED PREVENTION MARKETING: A NEW FRAMEWORK FOR HEALTH PROMOTION INTERVENTIONS 331
   Carol A. Bryant • Kelli R. McCormack Brown • Robert J. McDermott • Rita D. Debate • Moya L. Alfonso • Julie A. Baldwin • Paul Monaghan • Leah M. Phillips
## PART 3  ECOLOGICAL APPROACHES  357

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>CHANGING OUR UNHEALTHY WAYS: EMERGING PERSPECTIVES FROM SOCIAL ACTION THEORY</td>
<td>Craig K. Ewart</td>
</tr>
<tr>
<td>14</td>
<td>THE THEORY OF GENDER AND POWER: CONSTRUCTS, VARIABLES, AND IMPLICATIONS FOR DEVELOPING HIV INTERVENTIONS FOR WOMEN</td>
<td>Gina M. Wingood, Christiana Camp, Kristin Dunkle, Hannah Cooper, Ralph J. DiClemente</td>
</tr>
<tr>
<td>15</td>
<td>THE LOGICAL AND EMPIRICAL BASIS FOR THE BEHAVIORAL ECOLOGICAL MODEL</td>
<td>Mel Hovell, Dennis Wahlgren, Marc Adams</td>
</tr>
<tr>
<td>16</td>
<td>THE THEORY OF TRIADIC INFLUENCE</td>
<td>Brian R. Flay, Frank J. Snyder, John Petraitis</td>
</tr>
<tr>
<td>17</td>
<td>THE INTERACTIVE DOMAIN MODEL APPROACH TO BEST PRACTICES IN HEALTH PROMOTION</td>
<td>Barbara Kahan, David Groulx, Josephine Pui-Hing Wong</td>
</tr>
<tr>
<td>18</td>
<td>COMMUNICATION-FOR-BEHAVIORAL-IMPACT: AN INTEGRATED MODEL FOR HEALTH AND SOCIAL CHANGE</td>
<td>Everold Hosein, Will Parks, Renata Schiavo</td>
</tr>
<tr>
<td>19</td>
<td>ISSUES AND CHALLENGES IN APPLYING THEORY IN HEALTH PROMOTION PRACTICE AND RESEARCH: ADAPTATION, TRANSLATION, AND GLOBAL APPLICATION</td>
<td>Ralph J. DiClemente, Richard A. Crosby, Michelle C. Kegler</td>
</tr>
</tbody>
</table>

Index: 569
TABLES AND FIGURES

TABLES

2.1 Tests of the Information-Motivation-Behavioral Skills Model with Respect to Sexual Risk Behavior: Summary of Reported Associations Among IMB Components 31
2.2 Effective Sexual Risk-Reduction Interventions Using the Information-Motivation-Behavioral Skills (IMB Model) 33
3.1 Theory and Social Influences 68
3.2 Social Influence Processes 81
4.1 Empirical Evidence Supporting Self-Esteem Enhancement Theory (SET) 111
4.2 Application of SET to GirlPOWER! and Positive Action 120
6.1 Intervention Trials of Self-Determination Theory in Health Care 165
8.1 Standardized Regression Weights and Variance Accounted for in Each of Six Cancer-Related Behaviors by Attitudes (ATT), Perceived Control (PBC), and Normative Pressure (NP) 228
8.2 Differences in Behavioral Beliefs Between Intenders (n = 155) and Non-Intenders (n = 371) 230
9.1 Definition of Constructs, Community Coalition Action Theory 244
9.2 Constructs and Related Propositions, Community Coalition Action Theory 246
10.1 Contrasting Theoretical Perspectives on Community Capacity 282
10.2 Dimensions of Community Capacity and Cognate Constructs 286
11.1 Typology of Informal Helper Interventions 312
11.2 Community Competence Dimensions 315
12.1 Steps and Key Tasks in Community-Based Prevention Marketing 334
12.2 Overview of Four Community-Based Prevention Marketing Projects 338
12.3 History of Scorecard Program Awareness and Participation 346
14.1 The Theory of Gender and Power: Exposures and Risk Factors 399
14.2 Variables Assessed as Part of the SHAWL Study 404
Tables and Figures

14.3 Applying the Theory of Gender and Power to Examine Gendered Exposures and Risk Factors for Different Subpopulations of African American Women 407
14.4 Application of the Theory of Gender and Power to Design HIV Intervention Content for Women 408
15.1 Selected Studies Supporting the BEM 436
16.1 A Matrix of Selected Theories of Social and Health Behavior: Streams of Influence and Levels of Causation 454
16.2 The TTI Mediation Literature 469
16.3 Literature Referring to the TTI by Behavioral Domain and Type of Study 478
16.4 Causes of Behavior, Reasons for Behavior Change, and Strategies for Contextual and Behavior Change 481
16.5 Postulates of the Theory of Triadic Influence 491
17.1 Addressing Equity in Health: A Hypothetical Example of Interactivity and Consistency among the Domains 516
17.2 A Review of IDM Results 523

FIGURES

1.1 Relationship Between Theory, Research, and Practice in Public Health 7
1.2 A Continuum of Theory 8
2.1 The Information-Motivation-Behavioral Skills Model of HIV Prevention Health Behavior 28
2.2 Elicitation, Intervention, and Evaluation 30
2.3 Options Intervention Flowchart 45
2.4 Empirical Test of the Information-Motivation-Behavioral Skills Model of the Determinants of Breast Self-Examination Behavior 49
2.5 Empirical Test of the Information-Motivation-Behavioral Skills Model of the Determinants of Complex Motorcycle Safety Gear Utilization 50
2.6 An Information-Motivation-Behavioral Skills Model Analysis of Adherence to Antiretroviral Medication 52
2.7 Empirical Test of the Information-Motivation-Behavioral Skills Model ARV Adherence (Restricted [Mediated] Model) 53
3.1 Social Influences Model 74
3.2 Levels of Social Influence on Health Behavior 77
<table>
<thead>
<tr>
<th>Table/Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Self-Esteem Enhancement Theory</td>
<td>100</td>
</tr>
<tr>
<td>5.1</td>
<td>Model for Predicting Symptoms of PTSD</td>
<td>138</td>
</tr>
<tr>
<td>6.1</td>
<td>Visual Representation of Constructs from both SDT Mini-Theories</td>
<td>160</td>
</tr>
<tr>
<td>6.2</td>
<td>The Self-Determination Continuum Showing Types of Motivation with Their Regulatory Styles, Locus of Causality, and Corresponding Processes</td>
<td>161</td>
</tr>
<tr>
<td>6.3</td>
<td>Proposed SDT Model for Internalization of Autonomous Self-Regulation and Perceived Competence</td>
<td>163</td>
</tr>
<tr>
<td>6.4</td>
<td>SDT-Based Intensive Physical Activity Counseling Intervention Model</td>
<td>174</td>
</tr>
<tr>
<td>7.1</td>
<td>The Elaboration Likelihood Model of Persuasion</td>
<td>196</td>
</tr>
<tr>
<td>8.1</td>
<td>The Integrative Model of Behavioral Prediction</td>
<td>221</td>
</tr>
<tr>
<td>9.1</td>
<td>The Community Coalition Action Theory (CCAT)</td>
<td>248</td>
</tr>
<tr>
<td>9.2</td>
<td>Community Coalition Action Theory Propositions 1 Through 3</td>
<td>250</td>
</tr>
<tr>
<td>9.3</td>
<td>Community Coalition Action Theory Propositions 4 Through 8</td>
<td>251</td>
</tr>
<tr>
<td>9.4</td>
<td>Community Coalition Action Theory Propositions 9 Through 14</td>
<td>251</td>
</tr>
<tr>
<td>9.5</td>
<td>Community Coalition Action Theory Propositions 15 Through 18</td>
<td>252</td>
</tr>
<tr>
<td>9.6</td>
<td>Community Coalition Action Theory Propositions 19 Through 21</td>
<td>252</td>
</tr>
<tr>
<td>11.1</td>
<td>Natural Helper Intervention Model</td>
<td>324</td>
</tr>
<tr>
<td>12.1</td>
<td>VERB Summer Scorecard</td>
<td>344</td>
</tr>
<tr>
<td>13.1</td>
<td>An Action State Model for Habits</td>
<td>365</td>
</tr>
<tr>
<td>13.2</td>
<td>Self-Change Processes</td>
<td>368</td>
</tr>
<tr>
<td>13.3</td>
<td>Contextual Influences</td>
<td>377</td>
</tr>
<tr>
<td>14.1</td>
<td>Theory of Gender and Power on Women’s Health</td>
<td>397</td>
</tr>
<tr>
<td>15.1</td>
<td>BEM Diagram of Two Hierarchical Systems that Combined Help Explain Both Individual and Cultural Practices</td>
<td>419</td>
</tr>
<tr>
<td>15.2</td>
<td>BEM Diagram of Interlocked Behaviors and Cultural-Level Selection</td>
<td>430</td>
</tr>
<tr>
<td>16.1</td>
<td>Basic View of the Theory of Triadic Influence Showing Many Mediated Pathways</td>
<td>455</td>
</tr>
<tr>
<td>16.2</td>
<td>Formal View of the Theory of Triadic Influence Showing Cross-Stream and Feedback Influences</td>
<td>462</td>
</tr>
<tr>
<td>16.3</td>
<td>The TTI Ecological System, showing how the intrapersonal factors lie inside the situation (contextual or interpersonal) factors that, in turn, lie inside the broad sociocultural environmental factors. Unlike most ecological systems, however, the TTI includes levels/tiers of causation within each circle.</td>
<td>466</td>
</tr>
</tbody>
</table>
Tables and Figures

16.4 The Aban Aya Program Content Mapped onto the TTI 488
17.1 The Interactive Domain Model 514
17.2 The Evidence Framework for the IDM 518
17.3 Toronto Public Health Practice Framework 529
18.1 The Five Integrated Communication Actions 539
18.2 Key Steps in Designing a COMBI Plan 542
FOREWORD

As illustrated in this volume, we are learning more about the important role of existing and new theories in promoting health. A theory is a set of interrelated concepts, definitions, and propositions that presents a systematic view of events by specifying relations among variables to explain and predict the events. Theories help to explain behavior and suggest ways to achieve behavior change, and are created after observation and testing. They are designed to rationally and clearly explain a phenomenon. As noted by Bandura, in some scientific disciplines (for instance, mathematics), theories integrate laws, whereas in newer fields (for example, public health, behavioral science), theories describe or specify the determinants governing the phenomena of interest. Moreover, when planning programs, theory can point to important intervention and evaluation strategies. For example, if perceptions are considered important in maintaining behavior, then it will be crucial to include some strategies to alter perceptions, whereas if skills are considered important to change behavior, then some strategy to alter skills must be included in the intervention. Does theory matter when developing and implementing interventions to improve public health? The verdict is in on this question, and the answer is a resounding “Yes.” It is now established that the effectiveness of public health interventions can be enhanced by use of theory-based planning frameworks such as those described in the second edition of Emerging Theories in Health Promotion Practice and Research.

Knowing the importance of theory, we are beginning to document the use of theory in behavior-change interventions, thus identifying gaps needing attention. Painter and colleagues recently reviewed articles in ten leading public health, medicine, and psychology journals. They found that 36 percent of studies mentioned theory. The most commonly used theories were those focusing on either individual-level behavior change (for example, the health belief model) or at the interpersonal level (for example, the social cognitive theory). Articles using theory most often were informed by theory (68 percent), whereas a smaller proportion sought to build theory (9 percent) or tested theory (4 percent). This suggests a significant gap the literature that is filled by this volume—that is, the development and testing of theories for specific populations, settings, and approaches to intervention. The chapters in Emerging Theories in Health Promotion lie at the nexus between what we have learned from past theory-driven research, the challenges that we face in continuing to build the evidence base, and the application of theory in “real-world” settings. As theories have evolved, it is likely that the earliest individually focused theories were developed in less complex systems compared to many of the theories described in this volume, which are applied in complex and multidisciplinary systems and often to underserved populations. Three particularly
important themes are woven through various chapters in the current volume: a priority on eliminating health disparities, the need for an “upstream” focus, and an improved understanding of how to apply theory in practice settings.

Theory can play a crucial role in addressing health disparities. The elimination of health disparities is one of the two overarching goals of the Healthy People 2010 national health agenda. Recent data show large and growing differences in disease burden and health outcomes between high- and low-income groups. The health disparities also persist in other population subgroups, such as African Americans, Hispanic/Mexican Americans, and American Indians/Alaskan Natives. As noted in several chapters in this book, health disparities are often associated with poverty and social fragmentation. Theory-based approaches show promise in addressing these health disparities. For example, diverse community coalitions with active participation can lead to more effective intermediate outcomes. Much of the evidence on the use and effectiveness of theory has developed in Western, European-American settings. This book makes an important contribution by exploring how theory can be applied in other cultures. Often these are populations with significant health disparities.

While interventions are often organized around ecological frameworks, the existing health behavior change literature has lacked sufficient focus on “upstream” intervention levels of such frameworks. The upstream, sociopolitical public health actions (for example, raising the price of tobacco) are likely to be more cost-effective and save more lives than downstream interventions (for example, conducting smoking cessation classes). Thus, we know that public health policy, in the form of laws, guidelines, and regulations, can have a profound effect on health status. In a review of behavioral research articles, only 2 percent of studies were policy-focused. Policy, in the form of laws, regulations, and organizational guidelines, has a profound effect on our daily lives and health status. Policy interventions have the potential to equalize the environment in a way that may significantly reduce the growing disparities. However, upstream approaches can be subject to the “inverse evidence” law, in which there is less evidence on social and policy determinants of health than on individual-level interventions, due in part to the difficulty in studying these issues with “gold standard” research designs (for example, randomized trials). Therefore, we often have the right answers to the wrong questions.

As noted in this volume, the challenges in putting theory to work in public health practice are not trivial. It is very likely that the capacity of an organization has a direct bearing on its ability to implement theory-driven interventions. The lack of trained staff, facilities, and external funding, along with a lack of appropriate infrastructure for adoption, can often inhibit implementation and maintenance of even the most effective interventions. Implementation research seeks to understand the processes and factors that are associated with successful integration of evidence-based interventions within a particular setting (for example, a worksite or school). Implementation of theory-based programs often results in a tension between fidelity (maintaining the original program design) and reinvention (changes needed for replication in a new setting). As noted in this text, participatory processes are increasingly being used with evidence-based
efforts to understand local context while maintaining some degree of fidelity. In addition, when practice settings seek out appropriate and adequate resources (for example, training, technical assistance), the likelihood of success in adopting and maintaining theory-driven interventions is increased.

This timely and well-conceived second edition of Emerging Theories in Health Promotion covers these issues and a wide range of others, forging new ground on numerous topics. This text will become treasured reading for researchers or practitioners interested in having the most up-to-date set of tools in their health promotion toolbox.

Ross C. Brownson, PhD

REFERENCES

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William Fisher is Distinguished University Professor in the Department of Psychology and the Department of Obstetrics and Gynaecology at the University of Western Ontario and Research Affiliate at the Center for Health, Intervention, and Prevention at the University of Connecticut. Dr. William Fisher is codeveloper with Dr. Jeffrey Fisher of the Information-Motivation-Behavioral Skills model of health behavior, he has held a National Health Scientist award from Health Canada, and his research has been supported by the U.S. National Institute of Mental Health for the past two decades.

Martin Fishbein, PhD, is the Harry C. Coles Jr. Distinguished Professor of Communication at the Annenberg School for Communication, and director of the Health Communications Area in the Annenberg Public Policy Center. Developer of the Theory of Reasoned Action and the Integrative Model of Behavioral Prediction, his current research interests are focused on understanding the role of the media as an influence on adolescent and adult behavior.
Brian R. Flay, PhD, is professor of public health at Oregon State University. He has a long history in prevention research, including school-based randomized trials, methodological developments, and the development of health behavior theory. Most of his past work has concerned the development and evaluation of programs for the prevention of substance abuse, violence, and AIDS. Recent studies focus on positive youth development, including social and character education. Dr. Flay is currently conducting several studies of the Positive Action program, which addresses most of the distal and proximal influences on youth development, and so is likely to influence a broad array of both positive and negative behaviors as well as school performance.

Michelle Fortier, PhD, is a physical activity psychology researcher and a professor at the School of Human Kinetics at the University of Ottawa. Her research program aims to understand and promote physical activity behavior change with an emphasis on motivation. She has extensive research experience examining the determinants of physical activity adoption and maintenance in different healthy and clinical populations, and has been involved in the development and evaluation of physical activity promotion interventions.

David Groulx is the acting policy and planning specialist in the Resources, Research, Evaluation, and Development Division at the Sudbury and District Health Unit. He received his BScN from Laurentian University and his MPH from Lakehead University. He has spent the last decade working as a public health nurse, with a particular focus in health promotion.

Denise Haynie, PhD, MPH, is a staff scientist in the Prevention Research Branch, Division of Epidemiology, Statistics and Prevention Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health. Her training is in developmental psychology and maternal and child health. Dr. Haynie's research interest focus is on adolescent health behavior, including peer and parent influences.

Stevan E. Hobfoll, PhD, is the Judd and Marjorie Weinberg Presidential Professor and Chair of the Department of Behavioral Sciences at Rush Medical College. His Conservation of Resources (COR) theory has become one of two most widely cited theories of stress and has been related to the full spectrum of stress from burnout to mass casualty. His most recent work focuses on the lifetime impact of trauma in women’s lives and on the impact of war and terrorism.

Everold Hosein, PhD, born in Trinidad and Tobago, is the senior communication advisor-consultant, World Health Organization (WHO), Geneva and is an international communication expert with more than thirty years of experience in strategic
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Mel Hovell, PhD, is an Al Johnson Distinguished Professor of Public Health and director of the Center for Behavioral Epidemiology and Community Health, San Diego State University, San Diego. His areas of expertise include behavioral epidemiology, individual and population experimental trials, and theory development. He has published more than 250 coauthored peer-reviewed articles in national and international journals. Dr. Hovell has an established record of NIH funding, including current research concerning HIV/TB epidemiology, tobacco prevention, and promotion of diet and activity in youth and young adults. He is coprincipal investigator for the National Children’s Study, a twenty-one year analysis of healthy development and disease processes in children and families.

Barbara Kahan is a principal of Kael Consulting, and editor of the Web site IDM Best Practices (www.idmbestpractices.ca). She received her MHSc in health promotion from the University of Toronto. For the last twelve years she has focused on developing and applying a comprehensive, situation-sensitive health promotion best practices approach.

Kelli McCormack Brown, PhD, CHES, is a professor of health education and behavior at the University of Florida. She was the director of the first community-based prevention marketing project conducted in Sarasota, Florida. She has been able to blend her health education experience with community-based prevention marketing and through these efforts has written numerous peer-reviewed articles on how health educators and communities can use social marketing to develop behavior change interventions.

Robert J. McDermott received his BS, MS, and PhD degrees from the University of Wisconsin-Madison. He was a faculty member in the Department of Health Education, at Southern Illinois University, Carbondale, from 1981 to 1986. Dr. McDermott came to the University of South Florida College of Public Health in 1986. He headed an effort that successfully led to its being designated a Prevention Research Center by the U.S. Centers for Disease Control and Prevention (CDC) in 1998. He continues to serve as co-director of this Center, which has created and field-tested a new model for health behavior change in communities—community-based prevention marketing (CBPM). In addition to more than 220 scientific articles, he has written 56 book chapters, and three books, each of which appeared in multiple editions.

Kenneth R. McLeroy, PhD, is professor of Social and Behavioral Health at the Texas A&M Health Science Center. He has written extensively about community-based programs and interventions and currently serves as principal investigator on the
CDC-funded Prevention Research Center for Community Health Development and the National Center on Minority Health and Health Disparities–funded Program for Rural and Minority Health Disparities Research.

Paul Monaghan, PhD, MA, is an assistant professor in the Department of Agricultural Education and Communication at the University of Florida. His research focuses on community participation in behavior change on topics such as farmworker health safety, homeowner water conservation, and environmental protection in the state of Florida.

Elizabeth Noelcke is a project assistant, focusing on Medicaid and state policy issues, at the Center for Health Transformation in Washington. Prior to that, she was a post-baccalaureate research fellow in the Prevention Research Branch, Division of Epidemiology, Statistics, and Prevention Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health. She is a graduate of the University of North Carolina at Chapel Hill.

Barbara L. Norton is an assistant professor of research at the University of Oklahoma, College of Public Health, and in 2008 served as managing associate for the Association for the Study and Development of Community in Gaithersburg, Maryland. She received her DrPH from the University of Oklahoma, conducting research on the relationship between community connectedness and health behaviors in an environmentally stressed community.

Edith A. Parker, DrPH, is an associate professor of Health Behavior and Health Education and the Associate Dean for Academic Affairs at the University of Michigan at Ann Arbor, School of Public Health. Dr. Parker’s research focuses on development, implementation, and evaluation of community-based participatory interventions to improve health status and reduce racial disparities in health, with a special interest in both epidemiological research on environmental causes of disease and research on public health and policy interventions to address environmental causes of disease.

Will Parks, PhD, is an internationally recognized specialist in social policy, public health, medical anthropology, health promotion, and participatory appraisal, monitoring, and evaluation. For the past seventeen years, he has contributed to the planning, management, and evaluation of international and national social policies and public health programs, as well as conducted training and research for the prevention and control of communicable and noncommunicable diseases in close collaboration with ministries of health and nongovernment organizations throughout the
world. Based in Fiji, Parks is currently Chief of Policy, Advocacy, Planning, and Evaluation with UNICEF Pacific covering child-focused programs in fourteen Pacific Island countries.

Dr. Heather Patrick is a Research Assistant Professor at the University of Rochester working with Dr. Geoffrey C. Williams on a large tobacco-cessation induction trial and developing translational projects for nutrition, physical activity, and diabetes prevention. She earned her PhD in Social Psychology from the University of Houston in 2003. She completed a post-doctoral fellowship in Behavioral Nutrition at the Children’s Nutrition Research Center (CNRC) at Baylor College of Medicine. While at the CNRC, Dr. Patrick received funding from the US National Cancer Institute to pilot a self-determination theory-based intervention utilizing computerized personal trainers.

John Petraitis, PhD, is a professor of psychology at the University of Alaska Anchorage. His research focuses on risk factors for adolescent substance use—an area in which he has coauthored numerous articles and book chapters—and potential evolutionary explanations for sex and age differences in risky behaviors.

Richard E. Petty is Distinguished University Professor and chair of the Department of Psychology at Ohio State University. He received his BA from the University of Virginia and his PhD from Ohio State. Petty’s research focuses on the factors (both conscious and unconscious) that are responsible for changes in beliefs, attitudes, and behaviors.

Leah M. Phillips, MPH, is the coordinator for the Florida Prevention Research Center at the University of South Florida. Her interests include community-based participatory research, social marketing, research methods and evaluation, and project administration.

Scott D. Rhodes, MD, MPH, CHES, is an associate professor in the Departments of Social Sciences and Health Policy and Internal Medicine at Wake Forest University, School of Medicine. His research explores sexual health, HIV and sexually transmitted disease (STD) prevention, obesity prevention, and other health disparities among vulnerable communities. Committed to partnership approaches to blend research and practice, Dr. Rhodes has extensive experience working with Latino communities, urban African American adolescents, persons living with HIV and AIDS, men of color, self-identifying gay and bisexual men, and men who have sex with men.

Renata Schiavo, PhD, MA, is the founder and principal of Strategic Communication Resources, which provides health communication and strategic planning counseling
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Jeremiah A. Schumm, PhD, formerly at Harvard Medical School and the VA Boston Healthcare System, is now assistant professor of clinical psychiatry at the University of Cincinnati and staff psychologist at the Cincinnati VA Medical Center’s PTSD and Anxiety Disorders Division. His work focuses on the impact of stress and substance abuse on PTSD and individual and family-focused interventions.

Paul A. Shuper, PhD, is an Independent Scientist at the Centre for Addiction and Mental Health and an assistant professor in the Department of Psychology at the University of Toronto in Toronto, Canada. His research focuses on behavioral and psychological factors associated with health outcomes, particularly in the area of HIV prevention. Dr. Shuper’s work has ranged from controlled laboratory research assessing the impact of sexual arousal and sexual partner characteristics on HIV+ MSM’s condom use intentions, to the development, implementation, and evaluation of theory-based adherence-promotion and risk-reduction interventions for people living with HIV/AIDS.

Bruce Simons-Morton, ED, MPH, is chief of the Prevention Research Branch, Division of Epidemiology, Statistics, and Prevention Research, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health. Dr. Simons-Morton directs an intramural research group that conducts research on adolescent health behavior, with an emphasis on social influences. He is the author of the textbook, Introduction to Health Education and Promotion, second edition, and 2006 Research Laureate of the American Academy of Health Behavior.

Shane Sweet is a doctoral student at the School of Psychology at the University of Ottawa. His doctoral research focuses on understanding physical activity behavior change using theoretical-based motivational constructs. His research experience centers on motivation and confidence towards physical activity across healthy and clinical populations. He was the principal research assistant in Dr. Michelle Fortier’s