

**Dr. Robert T. Croyle**  
(September 2008)

***Office Address***

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***Education***

Ph.D. Psychology (Social), Princeton University, 1985  
M.A. Psychology, Princeton University, 1981  
B.A. Psychology, University of Washington, 1978

***Current Position***

2003- Director, Division of Cancer Control and Population Sciences, National Cancer Institute

***Description of Current Position***

As Director, DCCPS, NCI, Dr. Croyle leads a 472 million dollar (fiscal year 2007) program of extramural research and contracts and in-house research. The division includes 14 branches organized into large programs in cancer surveillance, epidemiology, behavioral science, health services, dissemination and diffusion, and cancer survivorship research. Among the major initiatives underway that are supported by the division are the Transdisciplinary Tobacco Use Research Centers, the Transdisciplinary Research on Energetics and Cancer Centers, the Centers of Excellence in Cancer Communication Research, the Centers for Population Health and Health Disparities, the HMO Cancer Research Network, the Cancer Genetics Network, the Cancer Care Outcomes Research & Surveillance Consortium, the Breast Cancer Surveillance Consortium, the Cohort Consortium, the Cancer Intervention and Surveillance Modeling Network, the Quality of Cancer Care Initiatives, and the Cancer Family Registries. The division has extensive collaborations with the Centers for Disease Control and Prevention, the Agency for Healthcare Research and Quality, several NIH institutes, and many private organizations, including the Robert Wood Johnson Foundation and the American Cancer Society.

### ***Previous Positions Held***

- 2002-2003 Acting Director, Division of Cancer Control and Population Sciences, National Cancer Institute
- 1998-2002 Associate Director for Behavioral Research, Division of Cancer Control and Population Sciences, National Cancer Institute
- 1998-99 Professor, Department of Psychology, University of Utah
- 1991-98 Associate Professor, Department of Psychology, University of Utah
- 1994-98 Member, Huntsman Cancer Institute, University of Utah
- 1994-98 Faculty Member, University of Utah GENESIS (Genetic Science in Society) Program
- 1989-91 Assistant Professor, Department of Psychology, University of Utah
- 1987-89 Visiting Investigator, Cancer Prevention Research Program, Fred Hutchinson Cancer Research Center, Seattle
- 1987-89 Research Associate & Lecturer, University of Washington, Seattle
- 1986-87 Visiting Assistant Professor, University of Washington, Seattle
- 1983-86 Assistant Professor, Williams College, Williamstown, Massachusetts

### ***Administrative Positions Held***

- 1995-98 Director, Behavioral Medicine Training Program, University of Utah
- 1995-98 Huntsman Cancer Institute Steering Committee for High Risk Cancer Clinics
- 1994-95 Chair, Department of Psychology Executive Committee
- 1994 Acting Chair, Department of Psychology, University of Utah
- 1992-95 Head, Social Psychology Program, Department of Psychology, University of Utah

### ***Editorial Boards***

- Associate Editor, Cancer Epidemiology, Biomarkers & Prevention, 1999-2000
- Consulting Editor, British Journal of Health Psychology, 1995 - 1998
- Consulting Editor, Health Psychology, 1994 - 1995, 1997

### ***Honors & Awards***

- NIH Merit Award, 2008
- Fellow of the American Psychological Association, 2008
- Society of Personality and Social Psychology Service Award, 2003
- American Psychological Association Meritorious Research Service Citation, 2002
- NIH Merit Award, 2002
- Society of Behavioral Medicine Distinguished Service Award, 2001
- NIH Director's Award, 2000
- Fellow of the Society of Behavioral Medicine, 2000
- NIH Merit Award, 1999
- Oncology Nursing Society/Schering Excellence in Nursing Research Award, 1999
- Member, Academy of Behavioral Medicine Research, 1998
- University of Utah College of Social and Behavioral Sciences Superior Research Award, 1997
- University of Utah Faculty Fellow Award, 1995

American Society of Trial Consultants Research Award, 1987  
Sigma Xi, 1983  
Princeton University Graduate Fellowship, 1979  
Phi Beta Kappa, 1978  
Baccalaureate Degree With Distinction, 1978  
Edwin Guthrie Prize in Psychology, 1977

### ***Memberships***

Academy of Behavioral Medicine Research; American Society of Preventive Oncology; Society of Behavioral Medicine (Fellow); American Psychological Association (Fellow); Divisions 8 (Personality & Social Psychology) and 38 (Health Psychology); Society of Experimental Social Psychology; American Public Health Association

### ***Research Interests***

*Cancer Prevention & Control* Genetic testing for cancer susceptibility; impact of screening; cancer risk perception; coping with cancer and cancer treatment

*Health Psychology* Biases in health beliefs and judgments; risk and health threat appraisal, symptom reporting; illness behavior; health-related memory; survey methods

### ***Current Program of Research***

I maintain two lines of research, one basic and one applied. My basic behavioral science research program utilizes the methods of laboratory-based experimental social psychology to examine how individuals appraise and react to health threats. My collaborators and I developed the first experimental paradigm to study psychological responses to medical diagnosis (Croyle & Ditto, 1990). This paradigm has been used in several studies to investigate the social and cognitive processes underlying the interpretation of and responses to health threat. I am particularly interested in how self-enhancement motives (e.g. denial and defensiveness) and problem-focused coping combine to mediate health behavior.

My applied research concerns the psychological and behavioral impact of risk factor and screening tests, including genetic testing for cancer susceptibility (e.g. mutations in the BRCA1 gene). In collaboration with several investigators, I conduct cross-sectional and prospective research that examines how high-risk individuals and families perceive cancer risk and respond to risk information. In addition, this work also has examined how long-term memory for and adherence to information provided in screening settings are influenced by social and individual factors. My most recent work has utilized family-based and population-based surveys of attitudes toward cancer genetic testing.

The overall goal of my research program is to inform both behavioral science theory and medical practice by bridging basic and applied research in health psychology and public health. The cancer prevention and control domain provides an important context within which to test psychological models, and the results of this work can be applied to achieve improvements in

preventive oncology and the design and implementation of public health interventions.

***Grant Support (University of Utah)***

CA70593-01: "Needs Assessment: A High-Risk African-American Family"  
National Cancer Institute and the National Action Plan on Breast Cancer  
A psychological survey and needs assessment of members of a Louisiana-based kindred linked to a mutation in the BRCA1 breast/ovarian cancer gene.  
Robert T. Croyle, P.I.  
Length of Support: 9/30/95 - 9/29/98  
Time/Effort: 15% contributed  
Total Award: \$141,020

"Psychological and Behavioral Assessment and Follow-up of High Risk Breast Cancer Clinic Participants"  
Huntsman Cancer Institute intramural grant (co-funded by an NCI center grant and the Huntsman Cancer Foundation)  
Examines predictors of psychological and behavioral responses to breast/ovarian cancer risk notification and counseling among high-risk women.  
Robert T. Croyle, P.I.  
Length of Support: 3/1/97 - 6/30/98  
Total Award: \$57,198

NRO457 1: "Post-Radiation Coping Processes: A Randomized Trial"  
National Institute for Nursing Research  
Compares the efficacy of two theoretically-based interventions for reducing distress and improving adjustment among breast cancer patients completing radiation treatment.  
Lillian Nail, P.I.  
Time/Effort: 15%  
Length of Support: 3/1/98 - 2/28/01  
Total Award: \$1,049,760

CA63681-01: "Behavioral and Psychosocial Effects of BRCA1 Testing"  
National Cancer Institute  
A comprehensive prospective examination of the impact of genetic testing for breast and ovarian cancer susceptibility on the psychological adjustment and health behavior of test participants, their spouses and their families.  
Jeffrey Botkin, P.I.  
Length of Support: 4/1/94-3/31/98  
Time/Effort: 20%  
Annual Direct Costs: \$340,528

"Rocky Mountain Cancer Genetics Consortium"  
National Cancer Institute  
Enrolls a large study population of individuals from Utah, Colorado, and New Mexico with family histories of breast, prostate, or colorectal cancer into a cancer genetics research registry.

Raymond White, P.I.  
Time/Effort: 5% as Consortium Behavioral Sciences Director  
Length of Support: 03/01/98 - 02/28/03  
Total Award Requested: \$4,605,989

CA70610-01: "A Model: Peer Education for Genetics and Breast Cancer"  
National Cancer Institute and the National Action Plan on Breast Cancer  
Tests whether a peer education model can successfully educate women with breast cancer about genetic risk factors.

Vickie L. Venne, P.I.  
Length of Support: 9/30/95 - 9/29/98  
Time/Effort: 15% contributed  
Total Award for One Year: \$49,539

"Intensive Course for Genetic Counselors & Oncology Nurses"  
Cancer Center Support Grant: Genetics Research Supplement  
CCSG Supplemental Initiative for Support of Heritable Cancer Genetics Research Supported the planning, design, implementation and evaluation of a model intensive cancer genetics training course for genetic counselors and oncology nurses in the Rocky Mountain Region.

Raymond L. White, P.I. of Center Grant; R. Croyle, V. Venne, and K. Mooney, project leaders.

Time/Effort: 5%  
Length of Support: 9/1/96 - 8/31/97  
Total Award Requested: \$75,607

"Describing Experiences Following Radiation Treatment"

Oncology Nursing Society Foundation

An observational study of side effects and psychological distress among female breast and male prostate cancer patients who have completed radiation therapy.

Lillian M. Nail, P.I.

Length of Support: 6/1/94-5/31/96  
Total Award for Two Years: \$ 10,000

"Emotional Expression in Cancer Patients: A Pilot"

Oncology Nursing Society Foundation

A pilot study of two psychological interventions for female breast and male prostate cancer patients who have completed radiation therapy.

B. Lee Walker, P.I.

Length of Support: 6/1/94-5/31/96  
Total Award for Two Years: \$9,598

HS06660: "Cognitive Errors Concerning Personal Health"

Agency for Health Care Policy & Research

An applied research project designed to document errors in health-related memory and judgment and to develop means of reducing, these errors within the context of health surveys.

Robert T. Croyle, P.I.

Time/Effort: 25%.

Length of Support: 2/1/91-1/31-95

First Year Direct Costs: \$114,690

Total Award for Three Years: \$526,922

NM43097: "Illness Cognition and Behavior: An Experimental Approach"

National Institute of Mental Health

A basic research project that examined how individuals appraise medical test results and cope with health threat.

Robert T. Croyle, P.I.

Length of Support: 4/1/90-3/31/93

First Year Direct Costs: \$76,767

Total Award for Three Years: \$310,513

ADAMHA: "ASIP University of Utah" Small Instrumentation Grant Program

Alcohol, Drug Abuse, and Mental Health Administration

Funds supplemental equipment purchases for currently funded ADAMHA grants.

Raymond P. Kesner, P.I.

First Year Direct Costs: \$22,909

S07 RRO7092: "Psychological Effects of Cholesterol Test Results"

National Institutes of Health

Biomedical Research Support Grant, University of Utah.

Length of Support: 11/1/89-6/30/90

Direct Costs: \$ 1,000

Length of Support: 3/1/98 - 2/28/01

Total Award: \$1,049,760

***Grants at the Fred Hutchinson Cancer Research Center (co-investigator)***

CA34847-06: "A Stepped Approach to Smoking Reduction at the Worksite"

National Cancer Institute

Program Project Component Grant

P.I.: Beti Thompson

Time/Effort: 30%

Length of Support: 7/1/88-6/30/89

NCI STRI: "Development of Methods for Study of Worksite Smoking Policies"  
National Cancer Institute  
Short-term Research Initiative  
P.I.: Susan Kinney  
Time/Effort: 10%  
Length of Support: 7/1/88-6/30/89

NCI Program Project Core: "Surveillance and Investigation Section"  
Program Project Shared Resource: The Cancer Behavioral Risk Factor Survey  
P.I.: Emily White  
Time/Effort: 10%  
Length of Support: 7/1/88-6/30/89

CA45931-01: "Test of a Telephone Intervention for Blue Collar Smokers"  
National Cancer Institute  
P.I.: Maureen Henderson  
Time/Effort: 20%  
Length of Support: 10/1/87-9/30/90

***Publications: Journal Articles and Book Chapters (Peer reviewed)***

Croyle, R. T., & Cooper, J. (1983). Dissonance arousal: Physiological evidence. *Journal of Personality and Social Psychology*, 45, 782-791.

Cooper, J., & Croyle, R. T. (1984). Attitudes and attitude change. *Annual Review of Psychology*, 35, 395-426.

Jemmott, J. B., Ditto, P. H., & Croyle, R. T. (1986). Judging health status: Effects of perceived prevalence and personal relevance. *Journal of Personality and Social Psychology*, 50, 899-905.

Croyle, R. T., & Uretsky, M. B. (1987). Effects of mood on self-appraisal of health status. *Health Psychology*, 6, 239-253.

Jemmott, J. B., Croyle, R. T., & Ditto, P. H. (1988). Commonsense epidemiology: Self-based judgments from laypersons and physicians. *Health Psychology*, 7, 55-73.

Croyle, R. T., & Sande, G. N. (1988). Denial and confirmatory search: Paradoxical consequences of medical diagnosis. *Journal of Applied Social Psychology*, 18, 473-490.

Croyle, R. T., Jemmott, J. B., & Carpenter, B. D. (1988). Relations among four individual difference measures associated with cardiovascular dysfunction and anger coping style. *Psychological Reports*, 63, 779-786.

Goodman, J., & Croyle, R. T. (1989). Social framework testimony in employment discrimination cases. *Behavioral Sciences and the Law*, 7, 227-241.

Croyle, R. T., & Ditto, P. H. (1990). Illness cognition and behavior: An experimental approach.

*Journal of Behavioral Medicine, 13, 31-52.*

Croyle, R. T. (1990). Biased appraisal of high blood pressure. *Preventive Medicine, 19, 40-44.*

Kristal, A. R., Abrahams, B. F., Thomquist, M. D., Disogra, L., Croyle, R. T., Shattuck, A. L. & Henry, H. J. (1990). Development and validation of a food use checklist for evaluation of community nutrition interventions. *American Journal of Public Health, 80, 1318-1322.*

Croyle, R. T., & Hunt, J. R. (1991). Coping with health threat. Social influence processes in reactions to medical test results. *Journal of Personality and Social Psychology, 60, 382-389.*

Skelton, J. A., & Croyle, R. T. (1991). Mental representation, health, and illness: An introduction. In J. A. Skelton & R. T. Croyle (Eds.), *Mental representation in health and illness* (pp. 1-9). New York: Springer-Verlag.

Croyle, R. T., & Jemmott, J. B. (1991). Psychological reactions to risk factor testing. In J. A. Skelton & R. T. Croyle (Eds.), *Mental representation in health and illness* (pp. 85-107). New York: Springer-Verlag.

Croyle, R. T., & Williams, K. D. (1991). Reactions to medical diagnosis: The role of illness stereotypes. *Basic and Applied Social Psychology, 12, 227-241.*

Thompson, B., Bowen, D. J., Croyle, R. T., Hopp, H. P., & Fries, E. (1991). Maximizing worksite survey response rates through community organization strategies and multiple contacts. *American Journal of Health Promotion, 6, 130-136.*

Croyle, R. T. (1992). Appraisal of health threats: Cognition, motivation, and social comparison. *Cognitive Therapy and Research, 16, 165-182.*

Croyle, R. T., & Loftus, E. F. (1992). Improving episodic memory performance of survey respondents. In J. M. Tanur (Ed.), Questions about questions: Inquiries into the cognitive bases of surveys (pp. 95-101). New York: Russell Sage.

Croyle, R. T., & Barger S. D. (1993). Illness cognition. In S. Maes, H. Leventhal, & M. Johnston (Eds.), *International Review of Health Psychology* (Vol. 2, pp. 29-49), Chichester: John Wiley & Sons.

Fries, E., & Croyle, R. T. (1993). Stereotypes associated with a low-fat diet and their relevance to nutrition education. *Journal of the American Dietetic Association, 93, 551-555.*

Croyle, R. T., & Lerman, C. (1993). Interest in genetic testing for colon cancer susceptibility: Cognitive and emotional correlates. *Preventive Medicine, 22, 284-292.*

- Croyle, R. T., Loftus, E. F., Klinger, M. R., & Smith, K. D. (1993). Reducing errors in health related memory: Progress and prospects. In J. R. Schement & B. D. Ruben (Eds.), *Between communication and information: Information and behavior Vol. 4*. Piscataway, NJ: Transaction.
- Croyle, R. T., Sun, Y., & Louie, D. (1993). Psychological minimization of cholesterol test results: Moderators of appraisal in college students and community residents. *Health Psychology, 12*, 503-507.
- Croyle, R. T., & Loftus, E. F. (1993). Recollection in the kingdom of AIDS. In D. G. Ostrow & R. Kessler (Eds.), *Methodological in AIDS Behavioral Research* (pp.163-180). New York: Plenum.
- Williams, K. D., Bourgeois, M. J., & Croyle, R. T. (1993). The effects of stealing thunder in criminal and civil trials. *Law and Human Behavior, 17*, 597-609.
- Croyle, R. T., & Loftus, E. F. (1994). Psychology and law. In A. M. Colman (Ed.), *Companion encyclopedia of psychology* (pp. 58-75). London: Routledge. Reprinted in A. M. Colman (Ed.) (1995). *Controversies in psychology*. Harlow: Longman Higher Education.
- Lerman, C., & Croyle, R. T. (1994). Psychological issues in genetic testing for breast cancer susceptibility. *Archives of Internal Medicine, 154*, 609-616.
- Lerman, C., Audrain, J., & Croyle, R. T. (1994). DNA testing for heritable breast cancer risks: Lessons from traditional genetic counseling. *Annals of Behavioral Medicine, 16*, 327-333.
- Lerman, C., & Croyle, R. T. (1995). Genetic testing for cancer predisposition: Behavioral science issues. *Journal of the National Cancer Institute Monographs, 17*, 63-66.
- Croyle, R. T., & Lerman, C. (1995). Psychological impact of genetic testing. In R. T. Croyle (Ed.), *Psychosocial effects of screening for disease prevention and detection* (pp. 11-38). New York: Oxford University Press.
- Ditto, P. H., & Croyle, R. T. (1995). Understanding the impact of risk factor test results: Insights from a basic research program. In R. T. Croyle (Ed.), *Psychosocial effects of screening for disease, prevention and detection* (pp. 144-181). New York: Oxford University Press.
- Smith, K. R., & Croyle, R. T. (1995) Attitudes toward genetic testing for colon cancer risk. *American Journal of Public Health, 85*, 1435-1438.
- Sun, Y., & Croyle, R. T. (1995) Level of health threat as a moderator of social comparison preferences. *Journal of Applied Social Psychology, 25*, 1937-1952.
- Thompson, B., Fries, E., Hopp, H. P., Bowen, D. J., & Croyle, R. T. (1995). The feasibility of a proactive stepped care model for worksite smoking cessation. *Health Education Research, 10*, 455-465.
- Croyle, R. T., Dutson, D. S., Tran, V. T., & Sun, Y. (1995). Need for certainty and interest in genetic testing. *Women's Health: Research on Gender, Behavior, and Policy, 1*, 329-339.

- Lerman, C., & Croyle, R. T. (1996). Emotional and behavioral responses to genetic testing for susceptibility to cancer. *Oncology, 19*, 191-199.
- Botkin, J. R., Croyle, R. T., Smith, K. R., Baty, B., Lerman, C., Goldgar, D., Ward, J., Flick, B., & Nash, J. (1996). A model protocol for evaluating the behavioral and psychological effects of BRCA1 testing. *Journal of the National Cancer Institute, 88*, 872-882.
- Croyle, R. T., Smith, K. R., Botkin, J. R., Baty, B., & Nash, J. (1997). Psychological responses to BRCA1 mutation testing: Preliminary findings. *Health Psychology, 16*, 63-72.
- Croyle, R. T., Sun, Y., & Hart, M. (1997). Processing risk factor information: Defensive biases in health-related judgments and memory. In K. Petrie & J. Weinman (Eds.), *Perceptions of health and illness: Current research and applications* (pp. 267-290). London: Harwood Academic Publishers.
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- Croyle, R. T., Achilles, J. S., & Lerman, C. (1997). Psychologic aspects of cancer genetic testing: A research update for clinicians. *Cancer* (supplement), *80*, 569-575.
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- Hamann, H., & Croyle, R. T. (1998). Genetic disorders. In *Comprehensive Clinical Psychology* (8: Health Psychology, pp. 409-426). New York: Elsevier Science.
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- Smith, K. R., West, J., Croyle, R. T., & Botkin, J. R. (1999). The familial context of genetic testing for cancer susceptibility: The moderating effect of sibling test results on psychological distress following BRCA1 mutation testing. *Cancer Epidemiology, Biomarkers and Prevention, 8*, 385-392.
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- Croyle, R.T., & Lerman, C. (1999). Risk communication in genetic testing for cancer susceptibility. *Journal of the National Cancer Institute Monographs No.25*, 59-66.

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### ***Grant Reviewing***

Chair, U.S. Army Gulf War Syndrome Psychosocial Stress Review Committee

National Institutes of Health (National Cancer Institute Special Emphasis Panel on Translational Grants for Cancer Prevention and Control)

National Institutes of Health (National Cancer Institute Cancer Prevention Research Unit Program Project Grants)

National Institutes of Health (National Cancer Institute Cancer Prevention and Control Research Small Grants Program)

US Army MRMC Breast Cancer Research Program (Behavioral Sciences Review Committee)

National Institutes of Health (Behavioral Medicine Study Section, Ad Hoc)

National Science Foundation (Language, Cognition & Social Behavior Review Committee, Ad Hoc)

The Templeton Foundation

The Israel Science Foundation, Ad Hoc.

The Wellcome Trust, London, England, Ad Hoc.

City University of New York (external reviewer for institutional grants)

Mary Margaret Walther Foundation for Cancer Research

University of Utah Research Committee