VITA of RALPH R. MILLER – June 2023

Address: Department of Psychology

State University of New York at Binghamton

Binghamton, NY 13902-6000 USA

Telephone: Mobile (607) 232-1590

Office (607) 777-2291 Secretary (607) 777-2334

E-mail: rmiller@binghamton.edu

Education: Massachusetts Institute of Technology, Cambridge, MA, B.S. in Physics, 1962

Rutgers University, New Brunswick, NJ, M.S. in Physics (high energy), 1964 Rutgers University, New Brunswick, NJ, M.S. in Psychology (social), 1966

Rutgers University, New Brunswick, NJ, Ph.D. in Psychology (physiological), 1969

Experience: Undergraduate Laboratory Assistant in Physics, MIT, 1959-62,

Research Fellow and Teaching Assistant in Physics, Rutgers University, 1962-64 Research Fellow and Teaching Assistant in Psychology, Rutgers University, 1964-69

Assistant Professor of Psychology, Brooklyn College of CUNY, 1969-73 Associate Professor of Psychology, Brooklyn College of CUNY, 1973-78

Visiting Fellow in Experimental Psychology, University of Cambridge (UK), 1975-76

Professor of Psychology, Brooklyn College of CUNY, 1978-79 Associate Professor of Psychology, SUNY-Binghamton, 1979-81

Professor of Psychology, SUNY-Binghamton, 1981-2003

Chairperson, Department of Psychology, SUNY-Binghamton, 1993-96 Distinguished Professor of Psychology, SUNY-Binghamton, 2003-present

Statistics: Citations > 19,000. h-index = 69. i10 index = 2752.

Current Research Interest: Information Processing in Animals.

My specific area of specialization is elementary information processing in animals (humans and rats), including learning, memory, and decision-making. Although our research team in recent years has worked within the framework of Pavlovian associative conditioning, integration with both the physiological and human cognitive literature is sought at the theoretical level. Recent work has been concerned with distinguishing and characterizing perception, acquisition, storage, retention, retrieval, and response generation in humans and rodents, using impediments to performance such as associative interference, stimulus competition, and contingency degradation to understand the processing of acquired information. We are interested in identifying the conditions that will improve learning and retention when desired, and will enhance forgetting when that is desired (e.g., memories underlying anxiety disorders, and information of no long-term value such as last week's shopping list). We have found that training and testing contexts (i.e., background stimuli) play a central role in modulating acquired behavior. Present research continues to examine these issues, particularly to determine how retrieval processes can often explain phenomena that are traditionally attributed to differences in acquisition.

Experiments are being conducted to determine whether the retrieval rule that we have formulated based on a modified form of contingency theory (the Comparator Hypothesis) can explain sufficient behavioral variation to allow simplification of contemporary theories of memory acquisition.

For example, with this retrieval rule, behavior indicative of conditioned inhibition can be explained in terms of differences in US likelihood between cues that were trained together, rather than associations to a representation of the absence of a US or associations with negative value. Additionally, we are examining associative interference between independently acquired associations that share some but not all elements. We are examining a number of instances of every day forgetting, considering their conventional explanations, and asking whether they can better be viewed as instances of associative interference. Much of our current work on associative interference has implications for applied situations. Specifically, we use fear conditioning to model anxiety disorders in humans, experimental extinction to model exposure therapy, and recovery from extinction (e.g., spontaneous recovery and renewal) to model relapse from exposure therapy, all with the goal of informing clinicians on how they might minimize relapse from exposure therapy.

A second avenue of research is concerned with the role of temporal relationships between events in elementary learning. Our data indicate that temporal proximity not only fosters the formation of associations, but is invariably part of what gets encoded within the association. Moreover, this temporal information is a critical determinant of how the association will later be expressed in behavior. Our work in this area is summarized in what we call the Temporal Coding Hypothesis. Current research is examining the benefit of spacing target training trials to determine whether the content of the intertrial intervals is important.

Further studies are examining similarities and differences between expectancy learning concerning a cue and evaluative conditioning in which the cue takes on some of the affective value of the outcome. Additional research focuses on similarities and differences in Pavlovian expectancy conditioning, contingency judgment, and causal attribution by humans and nonhumans.

Courses taught: Introductory Psychology

Experimental Methods in Psychology

Theories of Learning
Physiological Psychology
Comparative Psychology
Evolution and Behavior
Environmental Psychology

Seminar on Evolution and Human Decision Theory

Seminar on Evolution and Group Norms Seminar on Evolutionary Psychology

Seminar on Memory Processes

Seminar on Ecological Psychobiology

Seminar on the Psychobiology of Feeding Behavior

Seminar on Science, Self, and Society

Seminar on Agency and Unconscious Control of Behavior

Statistics

Graduate Introduction to Research

Graduate Experimental Psychology

Graduate Comparative Psychology Graduate Conditioning and Learning

Graduate Advanced Conditioning and Learning

Graduate Physiological Psychology

Doctoral Seminar on the Physiological Basis of Memory

Doctoral Seminar on Biofeedback and Autonomic Conditioning

Doctoral Seminar on Current Issues in the Psychology of Learning

Doctoral Seminar on Evolution and Learning

Doctoral Seminar on Theories of Discrimination Learning

Doctoral Seminar on Comparative Cognition

Doctoral Seminar on Causal Inference Doctoral Seminar on Behavior Theory and Therapy Doctoral Seminar on Cognitive Psychology

Administrative and service experience:

CUNY-Brooklyn.

Chairman, Metropolitan New York Seminars on the Physiology of Memory, 1970-73

Deputy Departmental Chairman for Graduate Studies, 1970-72

Representative to University Doctoral Executive Committee, 1971-72

Doctoral Admissions Committee, 1971-72

Doctoral Curriculum Committee, 1971-72

Director of Animal Research Laboratories in Psychology (State certificate), 1971-79

CUNY Faculty Research Award Committee, 1973-74

CUNY Animal Research and Maintenance Committee, 1973-79

School-wide Promotions Committee, 1973-74

School-wide Graduate Review Committee, 1973-75

Head, CUNY Doctoral Program in Experimental Psychology, 1974-76

Departmental Colloquium Committee Chairman, 1976-79

Brooklyn College Master Planning and Educational Policy Committee, 1977-79

SUNY-Binghamton.

Departmental Human Cognitive Search Committee, 1979-present (Chair, 1981-82, 1985-87)

Departmental Senior Clinical Search Committee, 1981-82

Departmental Colloquium Committee, 1979-present (Chairman, 1979-83, 1989-present)

Co-organizer of Binghamton Symposium on Information Processing in Animals: Memory Mechanisms (1980)

Co-organizer of Binghamton Symposium on Information Processing in Animals: Conditioned Inhibition (1983)

Departmental Personnel Committees, 1979-present

Departmental Undergraduate Committee,

Off Campus College Academic Council, 1981-82, 1983-85

Area Coordinator, Experimental Psychology, 1981-83

Departmental Graduate Committee, 1981-86, 2005-present

Director of Graduate Studies in Psychology, 1983-86

Departmental Senior Cognitive Search Committee, Chairman, 1985-87

Committee for the University Environment, 1984-91 (Chairman, 1986-91)

University Advisor for NSF Graduate Fellowship Applicants, 1987-90

Departmental Committee on Safety and Ventilation, 1987-91

University Search Committee for Director of Physical Education, 1988-89

Departmental Clinical Search Committee, 1989-90

Anderson Center for the Performing Arts - Friends Steering Committee, 1988-90

Faculty Senate, 1989-91, 2020-present

Facilities Committee for Middle States Association Review, Co-Chairman, 1989-91

Sigma Xi Membership Committee (1990-91)

Board of Directors for Cider Mill Playhouse (autonomous from SUNY), 1991-2008,

Chair of Development Committee, 1991-98, and Vice-President 1992-98, 2001-04

Dean's Committee on Photographic Services, 1991-92

Provost's Committee of Infrastructure for Research, 1991-92

All-University Personnel Committee, 1991-93

Provost's Committee on General Education Requirement, 1992-93

Chairperson, Department of Psychology, 1993-96

Departmental Merit and Teaching Load Committee (chair), 1998-99

Dean's Research Semester Selection Committee (chair) 1998-99

Departmental Undergraduate Committee, 1998-2005, 2020-present

Institutional Animal Care and Use Committee, 1998-2004; chair, 2002-04

Committee for the University Environment, 1999-2003, 2004-14

Evolutionary Studies Program Steering Committee, 2002-07

Dean's Research Semester Selection Committee, 2004-05

University Committee for Emergency Power, 2004-05

Director of Graduate Studies in Psychology, 2005-15

Departmental Executive Committee, 2005-15

University Premedical Scholarship Committee, 2009-10

Personal Review Committee for Distinguish Professorships, 2010-12

Coordinator of Doctoral Cognitive & Behavioral Sciences Program, 2014-15

Departmental Colloquium Committee, 2017

Departmental Human Subjects Pool, supervisor, spring 2017, 2017-18

Departmental Undergraduate Committee, 1980-81, 2020-present

Faculty Senator, 2020-2022

Departmental Instructor Search Committee (chair), 2021-present

All-University Personnel Committee, 2021-23

Faculty Senator, 2022-2024

Editor:

Animal Learning & Behavior (incoming 1996; 1997-2002)

Journal Experimental Psychology: Animal Behavior Processes (incoming 2013; 2014-19)

Consulting editor:

American Journal of Psychology (1979-88)

Journal of Experimental Psychology: Animal Behavior Processes (1986-99; 2009-13)

Journal of the Experimental Analysis of Behavior (1994-97), (2009-13)

International Journal of Psychology and Psychological Therapy (2001-09)

Mexican Journal of Behavioral Analysis (2004-09)

Learning & Behavior (2015-present)

Psychological Review (2015-2020)

Referee:

American Psychologist

American Journal of Psychology

Animal Cognition

Animal Learning & Behavior

Appetite

Attention, Perception, & Psychophysics

Behavior Modification

Behavioral and Brain Sciences

Behavioral and Neural Biology

Behavioral Biology

Behavioral Neuroscience

Behavioural Processes

Biology Letters

Biological Research

Brain Research

British Journal of Psychology

Canadian Journal of Experimental Psychology

Cognition and Emotion

Current Biology

Current Directions in Psychological Science

Developmental Psychobiology

Experimental Psychology

Frontiers in Behavioral Neuroscience

Frontiers in Psychology

Infant Behavior and Development

International Journal of Psychology and Psychological Therapy

Journal of Behavioral Decision Making

Journal of Behavior Therapy and Experimental Psychiatry

Journal of Comparative and Physiological Psychology

Journal of Comparative Psychology

Journal of the Experimental Analysis of Behavior

Journal of Experimental Psychology: Animal Behavior Processes

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Learning, Memory, and Cognition

Journal of Neuroscience

Journal of the Experimental Analysis of Behavior

Journal of Psychophysiology

Learning & Behavior

Learning and Memory

Learning and Motivation

Memory & Cognition

Mexican Journal of Behavioral Analysis

Nature

Nature Neuroscience

Nature Reviews Neuroscience

Naturwissenschaften

Perspectives on Psychological Science

Pharmacology, Biochemistry and Behavior

Physiological Psychology

Physiology and Behavior

PLOS One

Proceedings of the National Academy of Sciences

Progress in Neurobiology

Psychobiology

Psychological Bulletin

Psychological Reports

Psychological Review

Psychological Science

Psychonomic Bulletin & Review

Quarterly Journal of Experimental Psychology, Sec. A

Quarterly Journal of Experimental Psychology, Sec. B

Royal Society Open Science

Science

Trends in Neurosciences

Other off-campus professional service:

Reviewer of grant proposals for NSF, NIH, Center for Advanced Studies in the Social Sciences, US-Israel Bi-national Science Foundation, Canadian National Science and Engineering Research Council, Australian Research Council, Belgian Research Council, CUNY Intermural Research Grant Program, SUNY-Cortland Intermural Research Grant Program, University of Montana Grant Program, Louisiana State University Grant Program, New Zealand Royal Society, United Kingdom Biological and Medical Research Council, Flanders Research Foundation, Pennsylvania Department of Health, Polish-American Fulbright Foundation,

Member and sometimes chair of various NIH Review Panels.

Reviewer of manuscripts for Harcourt Brace Jovanovich, Harpur & Row, John Wiley & Sons, Little-Brown, Macmillan, McGraw-Hill, Methuen, Prentice-Hall, Random House, Wm. Brown, Cambridge University Press, Brown-Benchmark, Macmillan, and Oxford University Press.

Eastern Psychological Association Reviewer for Paper Selection, 1976-2011

Eastern Psychological Association Program Committee, 1984-1987; chairman, 1985-1986

American Psychological Association, Division 3 Membership and Fellowship Committee, 1983-86; chairman, 1984-1985

Governing Board, Winter Conference on Animal Learning, 1987-1993

American Psychological Association, Division 3 Program Committee, 1987-1990; chairman for 1989 convention.

Fulbright/Spanish-North American Committee for Educational Cooperation Lecturer, 1988

Fulbright/Spanish-North American Committee for Educational Cooperation Lecturer, 1991

Eastern Psychological Association, Board of Directors, 1992-1995

Eastern Psychological Association, Program Committee, 1996-2000

Eastern Psychological Association, President-Elect 1998-99, President 1999-2000, Past-President 2000-2001

NIH BBBP-1 Review panel, 1999-2005 (sometimes chair)

NIH advisory committee of data achieving in animal behavior, 2001

American Psychological Association, Division 6, Representative to Executive Committee, 2001-2004

Eastern Psychological Association, Board of Directors, 2001-2003

Eastern Psychological Association, Committee to Reorganize Management, chair, 2002-2004

Spanish Society for Comparative Psychology, Scientific Committee, 2003

American Psychological Association, Division 3, Executive Committee, 2004-2007

Pavlovian Society, Executive Committee, 2004-2011

Pavlovian Society, President, 2005-2006

Eastern Psychological Association, Board of Directors, 2005-2008

American Psychological Association, Division 3, Executive Committee, 2008-2011

American Psychological Association, Division 3, President, 2009-2010

Psychonomic Society, Publications Board, 2010-2015

Eastern Psychological Association, Board of Directors, 2014-2017

Eastern Psychological Association Election Committee, 2017

Science Education Review Committee, University of Canterbury, NZ, 2018

Memberships in professional societies:

American Association for the Advancement of Science

American Psychological Association (Fellow)

Association for Psychological Science (Fellow)

Association for Behavior Analysis

Comparative Cognition Society

Eastern Psychological Association (Fellow)

International Society for Comparative Psychology

Midwestern Psychological Association

Pavlovian Society

Psychonomic Society (Fellow)

Sigma Xi

Society of Experimental Psychologists (Fellow)

Society for Behavioral Neuroscience and Comparative Psychology (Fellow)

Society for Experimental Psychology and Cognitive Sciences (Fellow)

Society for the Quantitative Analysis of Behavior

Society for Computational Modeling of Associative Learning

Honors:

Career Development Award, National Institutes of Health, 1976-79

Fellow of Divisions 3 & 6, American Psychological Association

Fellow, American Psychological Society

University Award for Excellence in Research, 1996-97

President-elect, President, Past-president, Eastern Psychological Association, 1998-2001

Erskine Fellow (lecture series in New Zealand), 2000

Gantt Medal from Pavlovian Society for Outstanding Contributions, 2001

Fellow, Eastern Psychological Association, 2004-present

SUNY Distinguished Professor, 2003-present

President-elect, President, Past-president, Pavlovian Society, 2004-2007

Binghamton University Award for Excellence in Graduate Student Mentoring, 2004-05

Geoffrey Marshall Mentoring Award, Northeast Association of Graduate Schools, 2005

Fellow, Society of Experimental Psychologists, 2008-present

President-elect, President, Past-president, American Psychological Association, Division 3, 2008-2011

QUAD-L Award for outstanding contributions to understanding of learning,

University of New Mexico, 2014-15.

Eastern Psychological Association symposium honoring 50 years of my contributions to the understanding of learning and to EPA, 2015.

Fulbright Fellow: France, 2015-16.

Fulbright Lecturer: Spain, 2016.

Comparative Cognition Society Research Award, 2017.

Erskine Fellow (lecture series in New Zealand), 2018.

D. O. Hebb Distinguished Scientific Contributions Award in Neuroscience and Comparative Psychology, APA Div 6, 2021.

B. F. Skinner Award, Association for Behavioral Analysis International, 2022.

Awarded Honorary Professorship, University of Lille, FR, 2022.

Grants Awarded:

Sigma Xi Predoctoral Research Award, 1965-66 (No play: A means of conflict resolution, \$500)

- NIMH Research Grant MH17906, 1969-70 (Stages of memory and ECS-induced amnesia, \$5,562)
- CUNY FRAP-1155, 1970-71 (Studies of the phenomenon of memory, \$2,000)
- NIMH Research Grant MH-19497, 1971-75 (Memory processes and retention, \$62,686)
- CUNY FRAP-1385,1971-72 (Memory and retention in rats, \$9,177)
- NIMH Research Grant MH-21976, 1972-73 (Psychobiology of long-term memory, \$2,998)
- CUNY FRAP-10246, 1973-74 (Interanimal chemical transfer of acquired information, \$3,160)
- CUNY FRAP-10694, 1974-75 (The functional basis of classical conditioning, \$7,950)
- CUNY FRAP-11183, 1975-76 (Memory deficits unique to young animals, \$10,783)
- NIMH National Research Service Award MH-05152, 1975-76 (Memory processes in man and animal, \$16,967)
- NSF Research Grant BMS 75-03383, 1975-78 (The function and nature of memory, \$62,000, accepted in preference to funds offered by NIMH)
- NIMH Research Scientist Development Award MH-00061, 1976-81 (Function and nature of memory, \$158,065)
- CUNY FRAP-11810, 1977-78 (Sources of infantile amnesia, \$13,868)
- CUNY FRAP-12229, 1978-79 (Information processing in rats following initial acquisition and trace reactivation, \$10,993)
- NIMH Research Grant MH-33881, 1979-81 (Memory and retroactive stimulus interference in rats, \$22,017)
- NIH BRSG SO7RR07149-06, 1980-81 (Contextual control of acquired behavior, \$2,655)
- SUNY-UAP-7479A, 1981-82 (Effects of postacquisition "surprising" events, \$3,450)
- NIMH Research Grant MH-33881, 1981-83 (Extra-acquisition associative determinants of performance, \$53,136)
- NIMH Research Grant MH-33881, 1983-86 (Extra-acquisition associative determinants of performance, \$137,411)
- NIH BRSG SO7RR07149-10, 1984-85 (Computer interfaces for environmental control and data collection in rodent learning and memory laboratory, \$3,400)
- NSF Research Grant BNS 86-00755, 1986-88 (Extra-acquisition associative determinants of performance, \$100,000 plus \$12,000 in supplements; accepted in preference to funds from NIMH)
- NIMH Research Grant MH-33881, 1988-91 (Extra-acquisition associative determinants of performance; accepted in preference to funds from NSF, \$250,555)
- NIMH Research Grant MH-33881, 1991-96 (Extra-acquisition associative determinants of performance, \$670,000)
- Fulbright/Spanish-North American Committee for Educational Cooperation, 1991-92 (\$14,500)
- NIMH Research Grant MH-50826, 1992-93 (Small instrumentation grant program; with L. Spear & N.E. Spear, \$23,309)
- NIH BRSG SO7RR07149-18, 1992-93 (Temporal coding in Pavlovian associations, \$3,219)
- Binghamton University grant in support of research, 1992-93 (Occasion setting of elementary associations, \$1,000)
- NYS/UUP Continuing Faculty Development Award, 1992-93 (Conference travel expenses, \$750)
- Binghamton University grant in support of research, 1993-94 (Animal analogs of causal judgment, \$1000)
- NYS/UUP Continuing Faculty Development Award, 1993-94 (Conference travel expenses, \$750)
- NYS/UUP Continuing Faculty Development Award, 1994-95 (Conference travel expenses, \$581)
- Binghamton University grant in support of research, 1995-96 (Cognition as a group level

process, \$1,000)

NIMH Research Grant MH-33881, 1996-00 (Extra-acquisition associative determinants of performance, \$654,058 including supplement)

NIMH National Research Service Award (for Hernan Savastano) MH-11704, 1997-00 (The role of context and timing on associative learning, \$87,168)

NYS/UUP Continuing Faculty Development Award, 1998-99 (Conference travel expenses, \$400)

Erskine Fellowship (New Zealand), 2000 (Visiting lectureship, ~\$10,000)

NIMH Research Grant MH-33881, 2000-05 (Extra-acquisition associative determinants of performance, \$1,303,891)

NIMH National Research Service Award (for Steven Stout) MH-64420, 2002-05 (Boundary conditions of time-scale invariance, \$128,724)

NIMH Research Grant MH-33881, 2005-12 (Extra-acquisition associative determinants of performance, \$1,439,290)

NYS/UUP Continuing Faculty Development Award, 2006-07 (Conference travel expenses, \$1000)

NYS/UUP Continuing Faculty Development Award, 2008-09 (Conference travel expenses, \$500)

NYS/UUP Continuing Faculty Development Award, 2010-11 (Conference travel expenses, \$670)

NYS/UUP Continuing Faculty Development Award, 2015-16 (Conference travel expenses, \$750)

Fulbright/France Research Fellowship, 2015-2016 (Stipend complementing sabbatical salary, \$47,676)

Fulbright/Spanish-American Commission/UNED, 2016 (Lectureship, \$1,300).

Erskine Fellowship (New Zealand), 2018 (Visiting lectureship, \$9,230)

NYS/UUP Continuing Faculty Development Award, 2018-19 (Conference travel expenses, \$700)

NYS/UUP Continuing Faculty Development Award, 2021-2022 (Conference travel expenses, \$1000)

PhDs supervised in chronological order:

Alan Springer, Professor, New York Medical College

Nancy Marlin, Provost and Professor, San Diego State University

Alvin Berk, Vice-President for Facilities, SUNY Downstate Medical Center

Wesley Kasprow, Senior Researcher & Associate Professor, New Haven VA & Yale Medical School

Todd Schachtman, Professor, University of Missouri at Columbia

Louis Matzel, Professor and ex-Chair, Rutgers University at New Brunswick

Steve Hallam, Professor and Chair, Keuka College

Nicholas Grahame, Associate Professor, Indiana University-Purdue University in Indianapolis

Robert Barnet, Associate Professor, College of William and Mary

Robert Cole, Director of Research, Allied Services

Lisa Gunther, Professor and Chair, Greensboro College

James Denniston, Dean, College of Health, Education, and Human Services, Wright State University Aaron Blaisdell, Professor, UCLA

Martha Escobar, Professor, Oakland University

Daniel Wheeler, Research Associate, Marquette University School of Medicine

Jeffrey Amundson, Assistant Professor, Medical College of Wisconsin

Gonzalo Pablo Urcelay, Associate Professor, University of Nottingham, UK

James Witnauer, Associate Professor, SUNY-Brockport Bridget McConnell, Lecturer, National University of Singapore Mario Laborda, Associate Professor, University of Chile Gonzalo Miguez, Assistant Professor, University of Chile Cody Polack, Sponsored Programs Administrator, Kent State University

Postdoctoral Fellows sponsored in chronological order:

Ronald Sigmundi, Professor, St. Lawrence University
Jose Navarro-Guzman, Professor, University of Cadiz, Spain
Philippe Oberling, Associate Professor, INSERM, Strasbourg, France
Hernan Savastano, Project Manager, MicroSoft Corporation
Francisco Arcediano, Assistant Professor, Oakland University
Steven Stout, Professor, Jacksonville State University
Tom Beckers, Professor, KULeuven, Belgium
Oskar Pineno, Associate Professor, Hofstra University
Kouji Urushihara, Professor, Kindai University, Osaka, Japan
Miguel Vidallo, Senior Research Fellow, Autonomous University of Madrid, Spain
David Guez, Lecturer, James Cook University, Australia
Mikael Molet, Assistant Professor, University of Lille, France
Jeremie Jozefowiez, Professor, University of Lille, France
Cody Polack, Assistant Professor, State University of New York at Binghamton

Publications: (* = student)

- Brugger, H.R., Miller, R.R., & Plano, R.J. (1966). On-line checking of bubble chamber measurements. *International high energy physics* (pp. 393-394). Moscow, USSR: Atomizdat.
- Lewis, D.J., Miller, R.R., Misanin, J.R., & Richter, N.G. (1967). ECS-induced retrograde amnesia for one-trial active avoidance. *Psychonomic Science*, *8*, 485-486.
- Miller, R.R. (1967). No play: A means of conflict resolution. *Journal of Personality and Social Psychology, 6*, 150-156.
- Lewis, D.J., Miller, R.R., & Misanin, J.R. (1968). Control of retrograde amnesia. *Journal of Comparative and Physiological Psychology*, 66, 48-52.
- Lewis, D.J., Misanin, J.R., & Miller, R.R. (1968). The recovery of memory following amnestic treatment. *Nature*, *220*, 704-705. Reprinted in J.L. McGaugh & M.J. Herz (Eds.), (1972). *Memory consolidation: Critical issues* (pp. 107-110). San Francisco: Albion.
- Misanin, J.R., Miller, R.R., & Lewis, D.J. (1968). Retrograde amnesia produced by electroconvulsive shock after reactivation of a consolidated memory trace. *Science*, *160*, 554-555.
- Lewis, D.J., Miller, R.R., & Misanin, J.R. (1969). Selective amnesia produced by ECS. *Journal of Comparative and Physiological Psychology*, 69, 136-140.
- Miller, R.R., & Misanin, J.R. (1969). Critique of electroconvulsive shock-induced retrograde amnesia: Analysis of the familiarization effect. *Communications in Behavioral Biology, 4*, 255-256.

- Miller, R.R., Misanin, J.R., & Lewis, D.J. (1969). Amnesia as a function of events during the learning-ECS interval. *Journal of Comparative and Physiological Psychology*, *67*, 145-148.
- Miller, R.R., & Spear, N.E. (1969). Obtaining the extensor phase of ECS-induced convulsions. *Psychonomic Science*, *15*, 164-166.
- Miller, R.R. (1970). Effects of environmental complexity on amnesia induced by electroconvulsive shock in the rat. *Journal of Comparative and Physiological Psychology, 71*, 267-275.
- Miller, R.R., & *Springer, A.D. (1971). Temporal course of amnesia in rats after electroconvulsive shock. *Physiology and Behavior*, 6, 229-233.
- Misanin, J.R., Smith, N.F., & Miller, R.R. (1971). Memory of electroconvulsive shock as a function of shock intensity and duration. *Psychonomic Science*, 22, 5-7.
- Lewis, D.J., Jackson, F., Miller, R.R., & Misanin, J.R. (1972). The relation between rectal and brain temperatures following hypothermia. *Psychonomic Science*, *27*, 29-30.
- Miller, R.R., *Malinowski, B., *Puk, G., & *Springer, A.D. (1972). State-dependent models of ECS-induced amnesia. *Journal of Comparative and Physiological Psychology*, *81*, 533-540.
- Miller, R.R., & *Springer, A.D. (1972a). Effects of strychnine on ECS-induced amnesia in the rat. *Psychonomic Science*, *26*, 289-290.
- Miller, R.R., & *Springer, A.D. (1972b). Induced recovery of memory in rats following ECS. *Physiology and Behavior, 8*, 645-651.
- Miller, R.R., & *Springer, A.D. (1972c). Recovery from amnesia following transcorneal electroconvulsive shock. *Psychonomic Science*, *28*, 7-9.
- *Springer, A.D., & Miller, R.R. (1972). Retrieval failure induced by electroconvulsive shock: Reversal with dissimilar training and recovery agents. *Science*, *177*, 628-630.
- Miller, R.R., & *Springer, A.D. (1973). Amnesia, consolidation, and retrieval. *Psychological Review*, 80, 69-79.
- *Springer, A.D., & Miller, R.R. (1973). An inexpensive circuit for recording mean heart rate. *Physiology and Behavior*, *11*, 415-417.
- Miller, R.R., *Berk, A.M., & *Springer, A.D. (1974). Acquisition and retention of active avoidance in *Xenopus laevis*. Bulletin of the Psychonomic Society, 3, 139-141.
- Miller, R.R., *Daniel, D., & Berk, A.M. (1974). Successive reversals of a discriminated preference for signaled tailshock. *Animal Learning & Behavior, 2*, 271-274.
- Miller, R.R., *Ott, C.A., *Berk, A.M., & *Springer, A.D. (1974). Appetitive memory restoration after electroconvulsive shock in the rat. *Journal of Comparative and Physiological Psychology, 87*, 717-723.

- Miller, R.R., & *Springer, A.D. (1974). Implications of recovery from experimental amnesia. *Psychological Review, 81*, 470-473.
- Miller, R.R., *Small, D., & *Berk, A.M. (1975). Information content of rat scotophobin. *Behavioral Biology, 15*, 463-472.
- Miller, R.R., *Ott, C.A., *Daniel, D., & *Berk, A.M. (1976). ECS-induced amnesia and recovery of memory for classically conditioned fear in the rat. *Physiological Psychology, 4*, 57-60.
- *Berk, A.M., *Marlin, N.A., & Miller, R.R. (1977). System for delivering tailshock to freely ambulatory rats. *Physiology and Behavior, 19*, 815-818.
- Miller, R.R., & *Berk, A.M. (1977). Retention over metamorphosis in the African claw-toed frog. *Journal of Experimental Psychology: Animal Behavior Processes, 3*, 343-356.
- Miller, R.R., & *Kraus, J.N. (1977). Somatic and autonomic indexes of recovery from ECS-induced amnesia in rats. *Journal of Comparative and Physiological Psychology*, 91, 434-442.
- Miller, R.R., *Marlin, N.A., & *Berk, A.M. (1977). Reliability and sources of control of preference for signaled shock. *Animal Learning & Behavior, 5*, 303-308.
- *Berk, A.M., & Miller, R.R. (1978). LiCl-induced aversions to audiovisual cues as a function of response measure and CS-US interval. *Behavioral Biology*, *24*, 184-208.
- *Marlin, N.A., *Berk, A.M., & Miller, R.R. (1978). Modification and avoidance of unmodifiable and unavoidable footshock by rats. *Bulletin of the Psychonomic Society, 11*, 203-205.
- *Marlin, N.A., *Greco, C., & Miller, R.R. (1978). Effects of post-training reinforcement upon retention of a passive avoidance task. *Bulletin of the Psychonomic Society, 11*, 295-297.
- Miller, R.R. (1978). Some physiological aspects of memory. In M. Gruneberg & P. Morris (Eds.), *Aspects of memory* (pp. 104-131). London: Methuen. Invited chapter.
- *Berk, A.M., *Vigorito, M., & Miller, R.R. (1979). Retroactive stimulus interference with CER retention in infant and adult rats: Implications for infantile amnesia. *Journal of Experimental Psychology: Animal Behavior Processes*, *5*, 284-299.
- *Marlin, N.A., *Berk, A.M., & Miller, R.R. (1979). Vulnerability of memory to electroconvulsive shock in relation to onset and offset of reinforcement. *Physiology and Behavior*, 22, 217-221.
- *Marlin, N.A., *Sullivan, J.M., *Berk, A.M., & Miller, R.R. (1979). Preference for information about intensity of signaled tailshock. *Learning and Motivation*, *10*, 85-97.
- Miller, R.R., & *Berk, A.M. (1979). Sources of infantile amnesia. In N.E. Spear & B.A. Campbell (Eds.), *The ontogeny of learning and memory* (pp. 225-243). Hillsdale, NJ: Erlbaum. Invited chapter.
- Miller, R.R., & *Marlin, N.A. (1979). Amnesia following electroconvulsive shock. In J.F. Kihlstrom & F.J. Evans (Eds.), *Functional disorders of memory* (pp. 143-178). Hillsdale, NJ: Erlbaum. Invited chapter.

- Miller, R.R. (1980a). Infantile forgetting of acquired information. In R.F. Thompson, L.H. Hicks, and V.B. Shvyrkov (Eds.), *Neural mechanisms of goal-directed behavior and learning* (pp. 471-480). New York: Academic Press. (Also USSR edition in Russian). Invited chapter.
- Miller, R.R. (1980b). The compleat mnemonologist. *American Journal of Psychology*, 93, 163-165. (Book review)
- *Balaz, M.A., *Capra, S., *Hartl, P., & Miller, R.R. (1981). Contextual potentiation of acquired behavior after devaluing direct context-US associations. *Learning and Motivation*, *12*, 383-397.
- *Marlin, N.A., & Miller, R.R. (1981). Associations to contextual stimuli as a determinant of long-term habituation. *Journal of Experimental Psychology: Animal Behavior Processes*, 7, 313-333.
- Miller, R.R. (1981). Experience, neural plasticity, and learning. *Behavioural Processes, 6*, 388-391(a book review).
- Miller, R.R., & *Balaz, M.A. (1981). Differences in adaptiveness between classically conditioned responses and instrumentally acquired responses. In N.E. Spear & R.R. Miller (Eds.), *Information processing in animals: Memory mechanisms* (pp. 49-80). Hillsdale, NJ: Erlbaum.
- Miller, R.R., *Greco, C., & *Vigorito, M. (1981). Classically conditioned tail flexion in rats: CR-contingent modification of US intensity as a test of the Preparatory Response Hypothesis. *Animal Learning & Behavior*, *9*, 80-88.
- Miller, R.R., & *Holzman, A.D. (1981). Neophobia: Generality and function. *Behavioral and Neural Biology*, 33, 17-44.
- Miller, R.R., & *Holzman, A.D. (1981). Neophobias and conditioned taste aversions in rats following exposure to novel tastes. *Animal Learning & Behavior*, *9*, 89-100.
- Spear, N.E., & Miller, R.R. (Eds.). (1981). *Information processing in animals: Memory mechanisms*. Hillsdale, NJ: Erlbaum.
- *Balaz, M.A., *Capra, S., *Kasprow, W.J., & Miller, R.R. (1982). Latent inhibition of the conditioning context: Further evidence of contextual potentiation of retrieval in the absence of context-US associations. *Animal Learning & Behavior, 10*, 242-248.
- *Balaz, M.A., *Gutsin, P., *Cacheiro, H., & Miller, R.R. (1982). Blocking as a retrieval failure: Reactivation of associations to a blocked stimulus. *Quarterly Journal of Experimental Psychology*, 34B, 99-113.
- *Balaz, M.A., *Kasprow, W.J., & Miller, R.R. (1982). Blocking with a single compound trial. *Animal Learning & Behavior, 10*, 271-276.
- *Kasprow, W.J., *Cacheiro, H., *Balaz, M.A., & Miller, R.R. (1982). Reminder-induced recovery of associations to an overshadowed stimulus. *Learning and Motivation, 13*, 155-166.
- Miller, R. R. (1982). Behavioral constraints on biochemical and physiological models of memory. In A.R. Morrison & P.L. Strick (Eds.), *Changing concepts of the nervous system* (pp. 635-650). New York: Academic Press. Invited chapter.

- Miller, R.R. (1982). Effects of intertrial reinstatement of training stimuli on complex maze learning in rats: Evidence that "acquisition" curves reflect more than acquisition. *Journal of Experimental Psychology: Animal Behavior Processes*, 8, 86-109.
- *Kasprow, W.J., *Schachtman, T.R., *Balaz, M.A., & Miller, R.R. (1983). Attenuation of experimental amnesia through prior administration of a dissimilar amnestic agent. *Physiology and Behavior, 30*, 193-196.
- Miller, R.R. (1983). The multiple determinants of observing behavior. *Behavioral and Brain Sciences, 6*, 710-711 (a commentary).
- Miller, R.R., & *Balaz, M.A. (1983). Postacquisition unexpected footshock disrupts appetitively motivated instrumental performance based on short-term retention. *Bulletin of the Psychonomic Society, 21*, 225-228.
- Miller, R.R., *Greco, C., *Vigorito, M.K., & *Marlin, N.A. (1983). Signaled tailshock: Implications for a functional analysis of classical conditioning. *Journal of Experimental Psychology: Animal Behavior Processes*, 9, 105-131.
- *Schachtman, T.R., *Gee, J-L., *Kasprow, W.J., & Miller, R.R. (1983). Reminder-induced recovery from blocking as a function of the number of compound trials. *Learning and Motivation, 14*, 154-164.
- *Kasprow, W.J., *Catterson, D., *Schachtman, T.R., & Miller, R.R. (1984). Attenuation of latent inhibition by postacquisition reminder. *Quarterly Journal of Experimental Psychology, 36B*, 53-63.
- *Kasprow, W.J., *Schachtman, T.R., *Cacheiro, H., & Miller, R.R. (1984). Extinction does not depend upon degradation of event memories. *Bulletin of the Psychonomic Society, 22*, 95-98.
- Miller, R.R., *Kasprow, W.J., & Schachtman, T.R. (1984). ECS-induced retrograde amnesia is not due to increased sensitivity to sources of ordinary forgetting. *Physiological Psychology, 12*, 319-330.
- Miller, R.R., & *Marlin, N.A. (1984). The physiology and semantics of consolidation. In H. Weingartner & E.S. Parker (Eds.), *Memory consolidation: Psychobiology of cognition_*(pp. 85-110). Hillsdale, NJ: Erlbaum. Invited chapter.
- *Schachtman, T.R., *Kasprow, W.J., & Miller, R.R. (1984). Reminder treatments do not alleviate cue-to-consequence deficits. *Animal Learning & Behavior, 12*, 97-105.
- *Brown, A.M., *Sissman, M., *Kasprow, W.J., & Miller, R.R. (1985). The roles of information reactivation and nonassociative arousal in recovery from ECS-induced retrograde amnesia. *Physiology and Behavior, 35*, 183-187.
- *Kasprow, W.J., *Schachtman, T.R., & Miller, R.R. (1985). A retrograde gradient for disruption of a conditioned aversion to cold drinking water by ECS administered during the CS-US interval. *Physiology and Behavior, 34*, 879-882.
- *Kasprow, W.J., *Schachtman, T.R., & Miller, R.R. (1985). Associability of a previously conditioned stimulus as a function of qualitative changes in the US. *Quarterly Journal of Experimental Psychology, 37B*, 33-48.

- *Matzel, L.D., *Schachtman, T.R., & Miller, R.R. (1985). Recovery of an overshadowed association achieved by extinction of the overshadowing stimulus. *Learning and Motivation, 16*, 398-412.
- Miller, R.R., *Greco, C., *Marlin, N.A., & *Balaz, M.A. (1985). Retroactive interference in rats: Independent effects of time and similarity of the interfering event with respect to acquisition. *Quarterly Journal of Experimental Psychology*, *37B*, 81-100.
- Miller, R.R., & *Schachtman, T.R. (1985a). Conditioning context as an associative baseline: Implications for response generation and the nature of conditioned inhibition. In R.R. Miller & N.E. Spear (Eds.), *Information processing in animals: Conditioned inhibition* (pp. 51-88). Hillsdale, NJ: Erlbaum.
- Miller, R.R., & *Schachtman, T.R. (1985b). The several roles of context at the time of retrieval. In P.D. Balsam & A. Tomie (Eds.), *Context and learning* (pp. 167-194). Hillsdale, NJ: Erlbaum. Invited chapter.
- Miller, R.R., & Spear, N.E. (Eds.). (1985). *Information processing in animals: Conditioned inhibition*. Hillsdale, NJ: Erlbaum.
- *Schachtman, T.R., *Brown, A.M., & Miller, R.R. (1985). Reinstatement-induced recovery of a taste-LiCl association following extinction. *Animal Learning & Behavior, 13*, 223-227.
- *Schachtman, T.R., *Kasprow, W.J., *Chee, M.A., & Miller, R.R. (1985). Blocking but not conditioned inhibition results when an added stimulus is reinforced in compound with multiple pretrained stimuli. *American Journal of Psychology*, *98*, 283-295.
- *Brown-Su, A.M., *Matzel, L.D., *Gordon, E.L., & Miller, R.R. (1986). Malleability of conditioned associations: Path dependence. *Journal of Experimental Psychology: Animal Behavior Processes*, *12*, 420-427.
- Miller, R.R., *Kasprow, W.J., & *Schachtman, T.R. (1986). Retrieval variability: Sources and consequences. *American Journal of Psychology*, 99, 145-218.
- *Kasprow, W.J., *Schachtman, T.R., & Miller, R.R. (1987). The comparator hypothesis of conditioned response generation: Manifest conditioned excitation and inhibition as a function of relative excitatory strengths of CS and conditioning context at the time of testing. *Journal of Experimental Psychology: Animal Behavior Processes, 13*, 395-406.
- *Matzel, L.D., *Brown, A.M., & Miller, R. R., (1987). Associative effects of US preexposure: Modulation of conditioned responding by an excitatory training context. *Journal of Experimental Psychology: Animal Behavior Processes*, *13*, 65-72.
- *Matzel, L.D., & Miller, R.R. (1987). Recruitment time of conditioned opioid analgesia. *Physiology and Behavior, 39*, 135-140.
- *Matzel, L.D., *Shuster, K., & Miller, R.R. (1987). Covariation in conditioned response strength between stimuli trained in compound. *Animal Learning & Behavior, 15*, 439-447.
 - Miller, R.R., & *Matzel, L.D. (1987). Memory for associative history of a conditioned stimulus.

- Learning and Motivation, 18, 118-130.
- Miller, R.R., & Navarro-Guzman, J.I. (1987). Modelos animales de conducta desadaptativa (Animal models of maladaptive behavior). *Apuntes de Psicologia, 22(3)*, 23-28 (*Memoranda of Psychology*, Spain). Invited article. Republished as Miller, R., & Navarro, J. I. (2012). Modelos animales de conducta desadaptativa. *Apuntes de Psicología, 30*, 31-36.
- *Schachtman, T.R., *Brown, A.M., *Gordon, E.L., *Catterson, D.A., & Miller, R.R. (1987). Mechanisms underlying retarded emergence of conditioned responding following inhibitory training: Evidence for the comparator hypothesis. *Journal of Experimental Psychology: Animal Behavior Processes, 13*, 310-322.
- *Matzel, L.D., *Castillo, J., & Miller, R.R. (1988). Contextual modulation of simultaneous associations. *Bulletin of the Psychonomic Society, 26*, 371-374.
- *Matzel, L.D., *Gladstein, L., & Miller, R.R. (1988). Conditioned excitation and inhibition are not mutually exclusive. *Learning and Motivation*, *19*, 99-121.
- *Matzel, L.D., *Hallam, S.C., & Miller, R.R. (1988). Contribution of conditioned opioid analgesia to the shock-induced associative US-preexposure deficit. *Animal Learning & Behavior, 16*, 486-492.
- *Matzel, L.D., *Held, F.P., & Miller, R.R. (1988). Information and expression of simultaneous and backward conditioning: Implications for contiguity theory. *Learning and Motivation*, *19*, 317-344.
- *Matzel, L.D., *Schachtman, T.R., & Miller, R.R. (1988). Learned irrelevance exceeds the sum of CS-preexposure and US-preexposure deficits. *Journal of Experimental Psychology: Animal Behavior Processes, 14*, 311-319.
- Miller, R.R., & *Matzel, L.D. (1988). The comparator hypothesis: A response rule for the expression of associations. In G.H. Bower (Ed.), *The psychology of learning and motivation, Vol. 22* (pp. 51-92). San Diego, CA: Academic Press.
- Miller, R.R., *Schachtman, T.R., & *Matzel, L.D. (1988). Testing response generation rules. *Journal of Experimental Psychology: Animal Behavior Processes, 14*, 425-429.
- *Schachtman, T.R., *Matzel, L.D., & Miller, R.R. (1988). Retardation of conditioned excitation following operational inhibitory blocking. *Animal Learning & Behavior, 16*, 100-104.
- *Matzel, L.D., & Miller, R.R. (1989). Development of shock-induced analgesia: A search for hyperalgesia. *Behavioral Neuroscience*, *103*, 850-856.
- Miller, R.R. (1989). Classical conditioning: The new hyperbole. *Behavioral and Brain Sciences, 12,* 155-156 (a commentary).
- Miller, R.R., & *Matzel, L.D. (1989). Contingency and relative associative strength. In S.B. Klein & R.R. Mowrer (Eds.), *Contemporary learning theory* (pp. 61-84). Hillsdale, NJ: Erlbaum.
- Navarro, J.I., *Hallam, S.C., *Matzel, L.D., & Miller, R.R. (1989). Superconditioning and overshadowing. *Learning and Motivation*, *20*, 130-152.

- *Grahame, N.J., *Hallam, S.C., *Geier, L., & Miller, R.R. (1990). Context as an occasion setter following either CS acquisition and extinction or CS acquisition alone. *Learning and Motivation, 21*, 237-265.
- *Hallam, S.C., *Matzel, L.D., *Sloat, J., & Miller, R.R. (1990). Excitation and inhibition as a function of posttraining extinction of the excitatory cue used in Pavlovian inhibitory training. *Learning and Motivation*, *21*, 59-84.
- Miller, R.R., & *Grahame, N.J. (1990). Expression of learning. In L. Dachowski & C.F. Flaherty (Eds.), *Current topics in animal learning: Brain, emotion, and cognition* (pp. 95-117). Hillsdale, NJ: Erlbaum.
- Miller, R.R., *Grahame, N.J., & *Hallam, S.C. (1990). Summation of responding to CSs and an excitatory test context. *Animal Learning & Behavior*, *18*, 29-34.
- Miller, R.R., *Hallam, S.C., & *Grahame, N.J. (1990). Inflation of comparator stimuli following CS training. *Animal Learning & Behavior*, *18*, 434-443.
- *Arnold, H.M., *Grahame, N.J., & Miller, R.R. (1991). Higher-order occasion setting. *Animal Learning & Behavior*, *19*, 58-64.
- *Barnet, R.C., *Arnold, H.M., & Miller, R.R. (1991). Simultaneous conditioning demonstrated in second-order conditioning: Evidence for similar associative structure in forward and simultaneous conditioning. *Learning and Motivation*, *22*, 253-268.
- *Barnet, R.C., *Grahame, N.J., & Miller, R.R. (1991). Comparing the magnitudes of second-order conditioning and sensory preconditioning effects. *Bulletin of the Psychonomic Society, 29,* 133-135.
- Miller, R.R., *Hallam, S.C., *Hong, J.Y., & *Dufore, D.S. (1991). Associative structure of differential inhibition: Implications for models of conditioned inhibition. *Journal of Experimental Psychology: Animal Behavior Processes, 17*, 141-150.
- *Grahame, N.J., *Barnet, R.C., & Miller, R.R. (1992). Pavlovian conditioning in multiple contexts: Competition between contexts for comparator status. *Animal Learning & Behavior, 20*, 329-338.
- *Grahame, N.J., *Barnet, R.C., & Miller, R.R. (1992). Pavlovian inhibition cannot be obtained by posttraining A-US pairings: Further evidence for the empirical asymmetry of the comparator hypothesis. *Bulletin of the Psychonomic Society, 30*, 399-402.
- *Hallam, S.C., *Grahame, N.J., *Harris, K., & Miller, R.R. (1992). Associative structures underlying enhanced negative summation following operational extinction of a Pavlovian inhibitor. *Learning and Motivation*, 23, 43-62.
- *Hallam, S.C., *Grahame, N.J., & Miller, R.R. (1992). Exploring the edges of Pavlovian contingency space: An assessment of contingency theory and its various metrics. *Learning and Motivation*, 23, 225-249.
- Miller, R.R., *Barnet, R.C., & *Grahame, N.J. (1992). Responding to a conditioned stimulus depends on the current associative status of other cues that were present during training of that

- specific stimulus. Journal of Experimental Psychology: Animal Behavior Processes, 18, 251-264.
- Miller, R.R., *Esposito, J.J., & *Grahame, N.J. (1992). Overshadowing-like effects between potential comparator stimuli: Covariation in comparator roles of context and punctate excitor used in inhibitory training as a function of excitor saliency. *Learning and Motivation*, 23, 1-26.
- *Arnold, H.M., *Barnet, R.C., & Miller, R.R. (1993). Occasion setting: Posibilidases para el asociacionismo y los sistemas multiples de memoria (Occasion setting: Possibilities for associationism and multiple memory systems). In J.I. Navarro-Guzman (Ed.), *Aprendizaje y memoria humana: Aspectos basicos y evolutivos (Human learning and memory: Basic and developmental aspects)* (pp. 263-276). Madrid, Spain: McGraw-Hill.
- *Barnet, R.C., *Grahame, N.J., & Miller, R.R. (1993). Local context and the comparator hypothesis. *Animal Learning & Behavior, 21*, 1-13.
- *Barnet, R.C., *Grahame, N.J., & Miller, R.R. (1993). Local time horizons in Pavlovian learning. *Journal of Experimental Psychology: Animal Behavior Processes*, 19, 215-230.
- *Barnet, R.C., *Grahame, N.J., & Miller, R.R. (1993). Temporal encoding as a determinant of blocking. *Journal of Experimental Psychology: Animal Behavior Processes, 19*, 327-341.
- Miller, R.R. (1993). Can associative theory subsume perceptual learning? *Contemporary Psychology*, *38*, 569-571. Book review.
- Miller, R.R., & *Barnet, R.C. (1993). The role of time in elementary associations. *Current Directions in Psychological Science*, *2*, 106-111.
- Miller, R.R., *Fiori, L.M., & Navarro-Guzman, J.I. (1993). Fundamentos de la memoria y el aprendizaje en el merco asociacionista (Foundations of learning and memory in an associationist framework). In J.I. Navarro-Guzman (Ed.), *Aprendizaje y memoria humana: Aspectos basicos y evolutivos (Human learning and memory: Basic and developmental aspects)* (pp. 21-45). Madrid, Spain: McGraw-Hill.
- Miller, R.R., & *Grahame, N.J. (1993). Lo innato, lo adquirido y predisposicion genetica (Nature, nurture, and genetic predispositions). In J.I. Navarro-Guzman (Ed.), *Aprendizaje y memoria humana: Aspectos basicos y evolutivos (Human learning and memory: Basic and developmental aspects)* (pp.3-19). Madrid, Spain: McGraw-Hill.
- *Yin, H., *Grahame, N.J., & Miller, R.R. (1993). Extinction of comparator stimuli during and after acquisition: Differential effects on Pavlovian responding. *Learning and Motivation*, *24*, 219-241.
- *Fiori, L.M., *Barnet, R.C., & Miller, R.R. (1994). Renewal of Pavlovian conditioned inhibition. *Animal Learning & Behavior*, 22, 47-52.
- *Grahame, N.J., *Barnet, R.C., *Gunther, L.M., & Miller, R.R. (1994). Latent inhibition as a performance deficit resulting from CS-context associations. *Animal Learning & Behavior, 22*, 395-408.
- *Yin, H., *Barnet, R.C., & Miller, R.R. (1994). Second-order conditioning and Pavlovian conditioned inhibition: Operational similarities and differences. *Journal of Experimental Psychology: Animal Behavior Processes*, *20*, 419-428.

- *Yin, H., *Barnet, R.C., & Miller, R.R. (1994). Trial spacing and trial distribution effects in Pavlovian conditioning: Contributions of a comparator mechanism. *Journal of Experimental Psychology: Animal Behavior Processes, 20,* 123-134.
- *Barnet, R.C., *Grahame, N.J., & Miller, R.R. (1995). Trial spacing effects in Pavlovian conditioning: A role for local context. *Animal Learning & Behavior*, 23, 340-348.
- *Cole, R.P., *Barnet, R.C., & Miller, R.R. (1995). Effect of relative stimulus validity: Learning or performance deficit? *Journal of Experimental Psychology: Animal Behavior Processes, 21*, 293-303.
- *Cole, R.P., *Barnet, R.C., & Miller, R.R. (1995). Temporal encoding in trace conditioning. *Animal Learning & Behavior*, 23, 144-153.
- Miller, R.R., *Barnet, R.C., & *Grahame, N.J. (1995). Assessment of the Rescorla-Wagner model. *Psychological Bulletin*, *117*, 363-386.
- *Barnet, R.C., & Miller, R.R. (1996a). Second-order excitation mediated by a backward conditioned inhibitor. *Journal of Experimental Psychology: Animal Behavior Processes*, 22, 279-296.
- *Barnet, R.C., & Miller, R.R. (1996b). Temporal encoding as a determinant of inhibitory control. *Learning and Motivation*, *27*, 73-91.
- *Cole, R.P., *Denniston, J.C., & Miller, R.R. (1996). Reminder-induced attenuation of the effect of relative stimulus validity. *Animal Learning & Behavior, 24*, 256-265.
- *Denniston, J.C., Miller, R.R., & Matute, H. (1996). Biological significance as a determinant of cue competition. *Psychological Science*, 7, 325-331.
- Matute, H., *Arcediano, F., & Miller, R.R. (1996). Test question modulates cue competition between causes and between effects. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 22, 182-196.
- Miller, R.R., & Matute, H. (1996a). Animal analogues of causal judgment. In D.R. Shanks, K.J. Holyoak, & D.L. Medin (Eds.), *The psychology of learning and motivation, Vol. 34: Causal learning* (pp. 133-166). San Diego, CA: Academic Press. Invited chapter.
- Miller, R.R., & Matute, H. (1996b). Biological significance in forward and backward blocking: Resolution of a discrepancy between animal conditioning and human causal judgment. *Journal of Experimental Psychology: General, 125,* 370-386.
- Wilson, D.S., *Near, D., & Miller, R.R. (1996). Machiavellianism: A synthesis of the evolutionary and psychological literatures. *Psychological Bulletin*, *119*, 285-299.
- *Arcediano, F., Matute, H., & Miller, R.R. (1997). Blocking of Pavlovian conditioning in humans. *Learning and Motivation*, *28*, 188-199.
- *Barnet, R.C., *Cole, R.P., & Miller, R.R. (1997). Temporal integration in second-order conditioning and sensory preconditioning. *Animal Learning & Behavior, 25*, 221-233.
 - *Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. (1997). Unblocking with a qualitative change

- of US. Learning and Motivation, 28, 268-279.
- *Cole, R.P., *Barnet, R.C., & Miller, R.R. (1997). An evaluation of behavioral conditioned inhibition as defined by Rescorla's two-test strategy. *Learning and Motivation*, *28*, 323-341.
- *Cole, R.P., *Gunther, L.M., & Miller, R.R. (1997). Spontaneous recovery from the effect of relative stimulus validity. *Learning and Motivation*, *28*, 1-19.
- *Esmoris-Arranz, F.J., Miller, R.R., & Matute, H. (1997). Blocking of subsequent and antecedent events. *Journal of Experimental Psychology: Animal Behavior Processes*, 23, 145-156.
- *Gunther, L.M., Miller, R.R., & Matute, H. (1997). CSs and USs: What's the difference? *Journal of Experimental Psychology: Animal Behavior Processes* 23, 15-30.
- Wasserman, E.A., & Miller, R.R. (1997). What's elementary about associative learning? *Annual Review of Psychology*, *48*, 573-607.
- *Blaisdell, A.P., *Bristol, A.S., *Gunther, L.M., & Miller, R.R. (1998). Overshadowing and latent inhibition counteract each other: Support for the comparator hypothesis. *Journal of Experimental Psychology: Animal Behavior Processes, 24*, 335-351.
- *Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. (1998). Temporal encoding as a determinant of overshadowing. *Journal of Experimental Psychology: Animal Behavior Processes, 24*, 72-83.
- *Denniston, J.C., *Blaisdell, A.P., & Miller, R.R. (1998). Temporal coding affects transfer of serial and simultaneous inhibitors. *Animal Learning & Behavior, 26*, 336-350.
- *Denniston, J.C., *Cole, R.P., & Miller, R.R. (1998). The role of temporal variables in the transfer of conditioned inhibition. *Journal of Experimental Psychology: Animal Behavior Processes,* 24, 200-214.
- *Friedman, B., *Blaisdell, A.P., *Escobar, M., & Miller, R.R. (1998). Comparator mechanisms and conditioned inhibition: CS preexposure disrupts Pavlovian conditioned inhibition but not explicitly unpaired inhibition. *Journal of Experimental Psychology: Animal Behavior Processes, 24*, 453-466.
- *Gunther, L.M., *Cole, R.P., & Miller, R.R. (1998). Overshadowing of occasion setting. *Learning and Motivation*, 29, 323-344.
- *Gunther, L.M., *Denniston, J.C., & Miller, R.R. (1998a). Conducting exposure treatment in multiple contexts can prevent relapse. *Behaviour Research and Therapy*, 36, 75-91.
- *Gunther, L.M., *Denniston, J.C., & Miller, R.R. (1998b). Renewal of comparator stimuli. *Learning and Motivation*, 29, 200-219.
- Matute, H., & Miller, R.R. (1998). Detecting causal relations. In W. O'Donohue (Ed.), *Learning and behavior therapy* (pp. 483-497). Boston, MA: Allyn and Bacon.
- Miller, R.R, & Matute, H. (1998). Competition between outcomes. *Psychological Science*, 9, 146-149.
 - Miller, R.R., & Oberling, P. (1998). Analogies between occasion setting and Pavlovian

- conditioning. In N.A. Schmajuk & P.C. Holland (Eds.), *Occasion setting: Associative learning and cognition in animals* (pp. 3-35). Washington, DC: American Psychological Association.
- Savastano, H.I., & Miller, R.R. (1998). Time as content in Pavlovian conditioning. *Behavioural Processes*, *44*, 147-162. Invited article.
- Savastano, H.I., *Yin, H., *Barnet, R.C., & Miller, R.R. (1998). Temporal conditioning in Pavlovian conditioning: Hall-Pearce negative transfer. *Quarterly Journal of Experimental Psychology*, *51B*, 139-153.
- Wilson, D.S., *Near, D.C., & Miller, R.R. (1998). Individual differences in Machiavellianism as a mix of cooperative and exploitive strategies. *Evolution and Human Behavior*, *19*, 203-212.
- *Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. (1999). Posttraining shifts in the overshadowing stimulus-US interval alleviates the overshadowing deficit. *Journal of Experimental Psychology: Animal Behavior Processes, 25,* 18-27.
- *Blaisdell, A.P., *Gunther, L.M., & Miller, R.R. (1999). Recovery from blocking by extinguishing the blocking stimulus. *Animal Learning & Behavior 27*, 63-76.
- *Blaisdell, A.P., Savastano, H.I., & Miller, R.R. (1999). Overshadowing of explicitly unpaired conditioned inhibition is disrupted by preexposure to the overshadowed inhibitor. *Animal Learning & Behavior*, 27, 346-357.
- *Cole, R.P., & Miller, R.R. (1999). Conditioned excitation and conditioned inhibition acquired through backward conditioning. *Learning and Motivation, 30*, 129-156.
- *Cole, R.P., Oberling, P., & Miller, R.R. (1999). Recovery from one-trial overshadowing. *Psychonomic Bulletin & Review, 6*, 424-431.
- Oberling, P., Gosselin, O., & Miller, R.R. (1999). Latent inhibition in animals as a model of acute schizophrenia: A reanalysis. In M. Haug & R.E. Whalen (Eds.), *Animal models of human emotion and cognition*, (pp. 87-102). Washington, DC: American Psychological Association.
- Oberling, P., *Gunther, L.M., & Miller, R.R. (1999). Latent inhibition and learned irrelevance of occasion setting. *Learning and Motivation*, *30*, 157-182.
- Savastano, H.I., *Cole, R.P., *Barnet, R.C., & Miller, R.R. (1999). Reconsidering conditioned inhibition. *Learning and Motivation*, *30*, 101-127.
- *Blaisdell, A.P., *Denniston, J.C., Savastano, H.I., & Miller, R.R. (2000). Counterconditioning of an overshadowed cue attenuates overshadowing. *Journal of Experimental Psychology: Animal Behavior Processes*, *26*, 74-86.
- *Burger, D.C., *Mallemat, H., & Miller, R.R. (2000). Overshadowing of subsequent events and recovery thereafter. *Quarterly Journal of Experimental Psychology*, *53B*, 149-172.
- *Gunther, L.M., & Miller. R.R. (2000). Prevention of the degraded contingency effect by signaling training trials. *Quarterly Journal of Experimental Psychology, 53B*, 97-120.
 - Miller, R.R. (2000). Interference. In W.E. Craighead & C. Nemeroff (Eds.), Encyclopedia of

- psychology and neuroscience, 3rd ed. (pp. 776-777). New York: John Wiley & Sons.
- Miller, R.R., & Matzel, L.D. (2000). Memory involves far more than 'consolidation.' *Nature Reviews Neuroscience*, 3, 214-216. Invited article.
- Oberling, P., *Bristol, A., Matute, H., & Miller, R.R. (2000). Biological significance attenuates overshadowing, relative validity, and degraded contingency effects. *Animal Learning & Behavior, 28*, 172-186.
- *Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. (2001). Recovery from the overexpectation effect: Contrasting performance-focused and acquisition-focused models of retrospective revaluation. *Animal Learning & Behavior, 29*, 367-380.
- *Blaisdell, A.P., & Miller, R.R. (2001). Conditioned inhibition produced by extinction-mediated recovery from the relative validity effect: A test of acquisition and performance models of empirical retrospective revaluation. *Journal of Experimental Psychology: Animal Behavior Processes, 27*, 48-58.
- *Burger, D.C., *Denniston, J.C., & Miller, R.R. (2001). Temporal coding in conditioned inhibition: Retardation tests. *Animal Learning & Behavior*, 29, 281-290.
- *Denniston, J.C., Savastano, H.I., & Miller, R.R. (2001). The extended comparator hypothesis: Learning by contiguity, responding by relative strength. In R.R. Mowrer & S.B. Klein (Eds.), *Handbook of contemporary learning theories* (pp. 65-117). Hillsdale, NJ: Erlbaum.
- *Escobar, M., Arcediano, F., & Miller, R.R. (2001). Conditions favoring retroactive interference between antecedent events (cue competition) and between subsequent events (outcome competition). *Psychonomic Bulletin & Review, 8*, 691-697.
- *Escobar, M., Matute, H., & Miller, R.R. (2001). Cues trained apart compete for behavioral control in rats: Convergence with the associative interference literature. *Journal of Experimental Psychology: General, 130*, 97-115.
- Miller, R.R., & *Escobar, M. (2001). Contrasting acquisition-focused and performance-focused models of behavior change. *Current Directions in Psychological Science, 10*, 141-145. Invited article.
- Arcediano, F., & Miller, R.R. (2002). Some constraints for models of timing: A temporal coding hypothesis perspective. *Learning and Motivation*, *33*, 105-123.
- *Escobar, M., Arcediano, F., & Miller, R.R. (2002). Latent inhibition and contextual associations. *Journal of Experimental Psychology: Animal Behavior Processes*, 28, 123-136.
- *Escobar, M., Oberling, P., & Miller, R.R. (2002). Associative deficit accounts of disrupted latent inhibition and blocking in schizophrenia. *Neuroscience and Biobehavioral Reviews, 26*, 203-216.
- Miller, R.R., & Arcediano, F. (2002). Differentiating robotic behavior and artificial intelligence from animal behavior and biological intelligence: Testing structural accuracy. *Behavioral and Brain Sciences*, 24, 1070-1071. (a commentary)

- Miller, R.R., & *Escobar, M. (2002). Associative interference between cues and between outcomes presented together and presented apart: An integration. *Behavioural Processes, 57,* 163-185. Invited article.
- Miller, R.R., & *Escobar, M.E. (2002). Learning: Laws and models of basic conditioning. In Learning, motivation, and emotion, Vol. 3, pp. 47-102 (C.R. Gallistel, Ed.), in Stevens' handbook of experimental psychology, 3rd ed, (H. Pashler, Ed-in-chief). New York: John Wiley & Sons. Invited chapter.
- Wilson, D.S., & Miller, R.R. (2002). Altruism, evolutionary psychology, and learning. *Behavioral and Brain Sciences*, *25*, 281-282 (a commentary).
- *Amundson, J.C., *Escobar, M., & Miller, R.R. (2003). Proactive interference in first-order Pavlovian conditioning. *Journal of Experimental Psychology: Animal Behavior Processes, 29*, 311-322.
- Arcediano, F., *Escobar, M., & Miller, R.R. (2003). Temporal integration and temporal backward associations in human and nonhuman subjects. *Learning & Behavior, 31*, 242-256.
- *Chang, R.C., *Blaisdell, A.P., & Miller, R.R. (2003). Backward conditioning: Mediation by the context. *Journal of Experimental Psychology: Animal Behavior Processes*, 29, 171-183.
- *Denniston, J.C., *Chang, R.C., & Miller, R.R. (2003). Massive extinction attenuates the renewal effect. *Learning and Motivation, 34*, 68-86.
- *Denniston, J.C., & Miller, R.R. (2003). The role of temporal variables in inhibition produced through extinction. *Learning & Behavior, 31*, 35-48.
- *Denniston, J.C., Savastano, H.I., *Blaisdell, A.P., & Miller, R.R. (2003). Cue competition as a retrieval deficit. *Learning and Motivation*, *34*, 1-31.
- *Escobar, M., Arcediano, F., & Miller, R.R. (2003). Latent inhibition in human adults without masking. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 29*, 1028-1040.
- *Escobar, M., & Miller, R.R. (2003). Timing in retroactive interference. *Learning & Behavior,* 31, 257-272.
- Miller, R.R., & Grace, R.C. (2003). Conditioning and learning. In *Experimental psychology* (A.F. Healy & R.W. Proctor, Eds.), *Vol 4* (pp. 357-397), of *Handbook of Psychology* (I.B. Weiner, Ed.). New York: John Wiley & Sons. Invited chapter.
- Savastano, H.I., Arcediano, F., Stout, S.C., & Miller, R.R. (2003). Interaction between preexposure and overshadowing: Further analysis of the extended comparator hypothesis. *Quarterly Journal of Experimental Psychology*, *56B*, 371–395.
- Savastano, H.I., & Miller, R.R. (2003). Biological significance and posttraining changes in conditioned responding. *Learning and Motivation*, *34*, 303–324.
- Stout, S.C., Arcediano, F., *Escobar, M., & Miller, R.R. (2003). Overshadowing as a function of trial number: Dynamics of first- and second-order comparator stimuli. *Learning & Behavior, 31*, 85-97.

- Stout, S.C., *Chang, R., & Miller, R.R. (2003). Trial spacing is a determinant of cue interaction. Journal of Experimental Psychology: Animal Behavior Processes, 29, 23-38.
- *Wheeler, D.S., *Chang, R.C., & Miller, R.R. (2003). Massive preexposure and preexposure in multiple contexts attenuates the context specificity of latent inhibition. *Learning & Behavior, 31*, 378-386.
- Arcediano, F., *Escobar, M., & Miller, R.R. (2004). Is stimulus competition an acquisition deficit or a performance deficit? *Psychonomic Bulletin & Review, 11*, 1105-1110.
- *Chang, R.C., Stout, S., & Miller, R.R. (2004). Comparing excitatory backward and forward conditioning. *Quarterly Journal of Experimental Psychology*, *57B*, 1-23.
- *Denniston, J.C., *Blaisdell, A.P., Miller, R.R. (2004). Temporal coding in conditioned inhibition: Analysis of associative structure of inhibition. *Journal of Experimental Psychology: Animal Behavior Processes*, *30*, 190-202.
- Escobar, M., Arcediano, F., *Platt, T., & Miller, R.R. (2004). Interference and time: A brief review and an integration. *Reviews in the Neurosciences*, *15*, 415-438. Invited article.
- *Escobar, M., & Miller, R.R. (2004). A review of the empirical laws of basic learning in Pavlovian conditioning. *International Journal of Comparative Psychology, 17*, 279-303. Invited article.
- Kirsch, I., Lynn, S.J., Vigorito, M., & Miller, R.R. (2004). The role of cognition in classical and operant conditioning. *Journal of Clinical Psychology, 60*, 369-392.
- Miller, R.R. (2004). Interference. Reprinted in W.E. Craighead & C. Nemeroff (Eds.), *The concise Corsini encyclopedia of psychology and behavioral science, 3rd ed.* (pp. 481-483). New York: John Wiley & Sons.
- Pineño, O., & Miller, R.R. (2004). Signaling a change in cue-outcome relations in human associative learning. *Learning & Behavior, 32*, 360-375.
- Savastano, H.I., & Miller, R.R. (2004). Behavioral momentum in Pavlovian conditioning. *Behavioral and Brain Sciences*, *27*, 694-695 (a commentary).
- Stout, S.C., *Escobar, M., & Miller, R.R. (2004). Trial number and temporal relationship as joint determinants of second-order conditioning and conditioned inhibition. *Learning & Behavior, 32*, 230-239.
- Stout, S.C., & Miller, R.R. (2004). Effects of amount of context extinction on revaluation of a target CS. *Behavioural Processes*, *66*, 7-16.
- Urushihara, K., Stout, S.C., & Miller, R.R. (2004). The basic laws of conditioning differ for elemental cues and cues trained in compound. *Psychological Science*, *15*, 268-271.
- Urushihara, K., *Wheeler, D.S., & Miller, R.R. (2004). Outcome pre- and post-exposure effects: Retention interval interacts with primacy and recency. *Journal of Experimental Psychology: Animal Behavior Processes, 30*, 283-298.

- *Wheeler, D.S., Stout, S.C., & Miller, R.R. (2004). Interaction of retention interval with CS-preexposure and extinction effects: Symmetry with respect to primacy. *Learning & Behavior, 32*, 335-347.
- Wilson, D.S., *Timmel, J.J., & Miller, R.R. (2004). Cognitive cooperation: When the going gets rough, think as a group. *Human Nature*, *15*, 225-250.
- *Amundson, J.C., *Wheeler, D.S., & Miller, R.R. (2005). Enhancement of Pavlovian conditioned inhibition achieved by posttraining inflation of the training excitor. *Learning and Motivation*, *36*, 331-352.
- Arcediano, F., *Escobar, M., & Miller, R.R. (2005). Bidirectional associations in humans and rats. *Journal of Experimental Psychology: Animal Behavior Processes*, *31*, 301-318.
- Arcediano, F., Matute, H., *Escobar, M., & Miller, R.R. (2005). Competition between antecedent and between subsequent stimuli in causal judgments. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 31*, 228-237.
- Beckers, T., DeHouwer, J., Pineno, O., & Miller, R.R. (2005). Outcome additivity and outcome maximality influence cue competition in human causal learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 31*, 238-249.
- *Escobar, M., Arcediano, F., & Miller, R.R. (2005). Disruption of latent inhibition by interpolation of task-irrelevant stimulation between preexposure and conditioning. *Learning & Behavior*, 33, 371-385.
- *O'Gorman, R., Wilson, D.S., & Miller, R.R. (2005). Altruistic punishing and helping differ in sensitivity to relatedness, friendship, and future interactions. *Evolution and Human Behavior, 26*, 375-287.
- Pineño, O., *Denniston, J.C., Beckers, T., Matute, H., & Miller, R.R. (2005). Contrasting predictive and causal values of predictors and of causes. *Learning & Behavior, 33*, 184-196. Invited article.
- Pineño, O., & Miller, R.R. (2005). Primacy and recency effects in extinction and latent inhibition: A selective review with implications for models of learning. *Behavioural Processes*, 69, 223-235. Invited article.
- Pineño, O., Urushihara, K., & Miller, R.R. (2005). Spontaneous recovery from forward and backward blocking. *Journal of Experimental Psychology: Animal Behavior Processes, 31*, 172-183.
- Stout, S.C., *Amundson, J.C., & Miller, R.R. (2005). Trial order and retention interval in human predictive judgment. *Memory & Cognition, 33*, 1368-1376.
- Urushihara, K., *Wheeler, D.S., Pineno, O., & Miller, R.R. (2005). An extended comparator hypothesis account of superconditioning. *Journal of Experimental Psychology: Animal Behavior Processes, 31*, 184-198.
- *Vadillo, M.A., Miller, R.R., & Matute, H. (2005). Causal and predictive-value judgments, but not predictions, are based on cue-outcome contingency. *Learning & Behavior, 33*, 172-183. Invited article.

- *Wheeler, D.S., & Miller, R.R. (2005). Recovery from blocking between outcomes. *Journal of Experimental Psychology: Animal Behavior Processes*, *31*, 467-476.
- Wilson, D.S., *Timmel, J.J., & Miller, R.R. (2005). Cognitive cooperation: When the going gets rough, think as a group. In N. Gold (Ed.), *Teamwork: Multi-disciplinary perspectives* (pp. 33-55). New York, NY: Palgrave Macmillan.
- Beckers, T., Miller, R.R., DeHouwer, J., & Urushihara, K. (2006). Reasoning rats: Forward blocking in Pavlovian conditioning is sensitive to constraints of causal inference. *Journal of Experimental Psychology: General, 135*, 92-102.
- *Lipatova, O., *Wheeler, D.S., *Vadillo, M.A., & Miller, R.R. (2006). Recency-to-primacy shift in cue competition. *Journal of Experimental Psychology: Animal Behavior Processes, 32*, 396-406.
- Miller, R.R. (2006). Challenges facing contemporary associative approaches to acquired behavior. *Comparative Cognition & Behavior Reviews, 1*, 77-93. Retrieved from http://psyc.queensu.ca/ccbr/index.html doi: 10.3819/ccbr.2008.10005 Invited article.
- Miller, R.R., & Matzel, L.D. (2006). Retrieval failure vs. memory loss in experimental amnesia: Definitions and processes. *Learning and Memory*, *13*, 491-497. Invited article.
- Pineño, O., De la Casa, L.G., Lubow, R.E., & Miller, R.R. (2006). Some determinants of latent inhibition in human predictive learning. *Learning and Motivation*, *37*, 42-65.
- Pineño, O., Urushihara, K., Stout, S., *Fuss, J., & Miller, R.R. (2006). When more is less: Extending training of the blocking association following compound training attenuates the blocking effect. *Learning & Behavior*, *34*, 21-36.
- *Urcelay, G.P., & Miller, R.R. (2006a). A comparator view of Pavlovian and differential inhibition. *Journal of Experimental Psychology: Animal Behavior Processes*, 32, 271-283.
- *Urcelay, G.P., & Miller, R.R. (2006b). Counteraction between overshadowing and degraded contingency treatments: Support for the extended comparator hypothesis. *Journal of Experimental Psychology: Animal Behavior Processes*, *32*, 21-32.
- Urushihara, K., & Miller, R.R. (2006). Overshadowing and the outcome-alone exposure effect counteract each other. *Journal of Experimental Psychology: Animal Behavior Processes, 32*, 253-270.
- *Wheeler, D.S., *Amundson, J.A., & Miller, R.R. (2006). Generalization decrement in human contingency learning. *Quarterly Journal of Experimental Psychology, 59*, 1212-1223.
- *Amundson, J.C., & Miller, R.R. (2007). Similarity in spatial origin of information facilitates cue competition and interference. *Learning and Motivation*, *38*, 155-171.
- Denniston, J.C., & Miller, R.R. (2007). Timing of omitted events: An analysis of temporal control of inhibitory behavior. *Behavioural Processes*, 74, 274-285. Invited article.
- Pineño, O., & Miller, R.R. (2007). Comparing associative, statistical, inferential reasoning, and hybrid accounts of human contingency learning. *Quarterly Journal of Experimental Psychology*, 60,

- 310-329. Invited article.
- *Stout, S.C., & Miller, R.R. (2007). Sometimes competing retrieval (SOCR): A formalization of the comparator hypothesis. *Psychological Review*, *114*, 759-783.
- Urushihara, K., & Miller, R.R. (2007). CS-duration and partial-reinforcement effects counteract overshadowing in select situations. *Learning & Behavior*, *35*, 201-213.
- *Wheeler, D.S., & Miller, R.R. (2007a). Contrasting reduced overshadowing and blocking. *Journal of Experimental Psychology: Animal Behavior Processes*, *33*, 349-359.
- *Wheeler, D.S., & Miller, R.R. (2007b). Interactions between retroactive interference and context-mediated treatments that impair Pavlovian conditioned responding. *Learning & Behavior, 35*, 27-35.
- *Wheeler, D.S., & Miller, R.R. (2007c). Primacy effects induced by temporal or physical context shifts are attenuated by a preshift test trial. *Quarterly Journal of Experimental Psychology*, 60, 191-210.
- *Witnauer, J.E., & Miller, R.R. (2007). Degraded contingency revisited: Posttraining extinction of a cover stimulus attenuates a target cue's behavioral control. *Journal of Experimental Psychology: Animal Behavior Processes, 33,* 440-450.
- *Amundson, J.C., & Miller, R.R. (2008). Associative interference in Pavlovian conditioning: A function of similarity between interfering and target associative structures. *Quarterly Journal of Experimental Psychology, 61*, 1340-1355.
- *Amundson, J.C., & Miller, R.R. (2008). CS-US temporal relations in blocking. *Learning & Behavior*, *36*, 92-103.
- *Amundson, J.C., *Witnauer, J.E., Pineno, O., & Miller, R.R. (2008). An inhibitory within-compound association attenuates overshadowing. *Journal of Experimental Psychology: Animal Behavior Processes*, *34*, 133-143.
- Guez, D., & Miller, R.R. (2008). Blocking and pseudoblocking: The reply of Rattus norvegicus to Apis mellifera. *Quarterly Journal of Experimental Psychology, 61*, 1186-1198.
- *O'Gorman, R., Wilson, D.S., & Miller, R.R. (2008). An evolved cognitive bias for social norms. *Evolution and Human Behavior*, *29*, 71-78.
- Pineno, O., *Zilski, J.M., & Miller, R.R. (2008). Habituation of unconditioned fear can be attenuated by the presence of a safe stimulus: Assessment using the neophobic response of the rat. *Behavioural Processes*, 77, 55-60.
- *Urcelay, G.P., & Miller, R.R. (2008). Counteraction between two kinds of conditioned inhibition training. *Psychonomic Bulletin & Review, 15*, 103-107.
- *Urcelay, G.P., & Miller, R.R. (2008). Retrieval from memory. In *Learning theory and behavior*, R. Menzel, Ed., Vol. 1 (pp. 53-74) of *Learning and memory A comprehensive reference*, J.H. Byrne, Ed-in-Chief. Oxford, UK: Elsevier. Reprinted in (2009) *Concise learning and memory: The editor's selection*, J.H. Byrne, Ed. (pp. 665-685). London, UK: Academic Press.

- *Urcelay, G.P., *Perelmuter, O., & Miller, R.R. (2008). Pavlovian backward conditioned inhibition in humans: Summation and retardation tests. *Behavioural Processes*, 77, 299-305.
- *Wheeler, D.S., Beckers, T., & Miller, R.R. (2008). The effect of subadditive pre-training on blocking: Limits of generalization. *Learning & Behavior, 36*, 341-351.
- *Wheeler, D.S., & Miller, R.R. (2008). Determinants of cue interactions. *Behavioural Processes*, 78, 191-203. Invited paper.
- *Witnauer, J.E., *Urcelay, G.P., & Miller, R.R. (2008). Reduced blocking as a result of increasing the number of blocking cues. *Psychonomic Bulletin & Review, 15*, 651-655.
- Matzel, L.D., & Miller, R.R. (2009). Parsing storage and retrieval in experimentally induced amnesia. *Learning and Memory, 16*, 670-671.
- *McConnell, B.L., *Wheeler, D.S., *Urcelay, G.P., & Miller, R.R. (2009). Protection from latent inhibition provided by a conditioned inhibitor. *Journal of Experimental Psychology: Animal Behavior Processes*, *35*, 498-508.
- Miller, R.R. (2009). A serendipitous odyssey into learning, memory, and cognition. *Experimental Psychology Bulletin*, *13*, 1-4.
- Miller, R.R. (2009). Funding of psychological research in America today. *Experimental Psychology Bulletin*, 13, 12-14.
- *Sissons, H.S, & Miller, R.R. (2009a). Overexpectation and trial massing. *Journal of Experimental Psychology: Animal Behavior Processes*, *35*, 186-196.
- *Sissons, H.S., & Miller, R.R. (2009b). Spontaneous recovery of excitation and inhibition. Journal of Experimental Psychology: Animal Behavior Processes, 35, 419-426.
- *Sissons, H.S., *Urcelay, G.P., & Miller, R.R. (2009). Overshadowing and CS-duration: Counteraction and a reexamination of the role of within-compound associations in cue competition. *Learning & Behavior*, *37*, 254-268.
- *Urcelay, G.P., *Lipatova, O., & Miller, R.R. (2009). Constraints on enhanced extinction resulting from extinction treatment in the presence of an added excitor. *Learning and Motivation, 40*, 343-363.
- *Urcelay, G.P., & Miller, R.R. (2009). Potentiation and overshadowing in Pavlovian fear conditioning. *Journal of Experimental Psychology: Animal Behavior Processes*, *35*, 340-356.
- *Urcelay, G.P., *Wheeler, D.S., & Miller, R.R. (2009). Spacing extinction trials alleviates renewal and spontaneous recovery. *Learning & Behavior, 37*, 60-73.
- Urushihara, K., & Miller, R.R. (2009). Stimulus competition between a discrete cue and a training context: Cue competition does not result from the division of a limited resource. *Journal of Experimental Psychology: Animal Behavior Processes*, 35, 197-211.
 - *Witnauer, J.E., & Miller, R.R. (2009). Contrasting the overexpectation and extinction effects.

- Behavioural Processes, 81, 322-327.
- *Witnauer, J.E., *Urcelay, G.P, & Miller, R.R. (2009). A one-system theory that is not propositional. *Behavioral and Brain Sciences*, *32*, 228-229.
- Escobar, M., & Miller, R.R. (2010). Latent inhibition: Acquisition or performance deficit? In R.E. Lubow & I. Weiner (Eds.), *Latent inhibition: Cognition, neuroscience, and applications to schizophrenia* (pp. 62-93). Cambridge, UK, Cambridge University Press.
- *McConnell, B.L., & Miller, R.R. (2010). Pavlovian conditioning. In I. Weiner & W.E. Craighead (Eds.), *The Corsini encyclopedia of psychology, 4th ed., vol. 3* (pp. 1171-1173). New York: John Wiley & Sons.
- *McConnell, B.L., & Miller, R.R. (2010). Protection from extinction provided by a conditioned inhibitor. *Learning & Behavior*, *38*, 68-79.
- *McConnell, B.L., Urushihara, K., & Miller, R.R. (2010). Contrasting predictions of the extended comparator hypothesis and acquisition-focused models of learning concerning retrospective revaluation. *Journal of Experimental Psychology: Animal Behavior Processes, 36,* 137-147.
- Miller, R.R. (2010). Animal models of learning and memory. In G.F. Koob, M. Le Moal, & R.F. Thompson (Eds.), *Encyclopedia of behavioral neuroscience, vol. 1* (pp. 76-82). Oxford, UK: Academic Press.
- Miller, R.R. (2010). Interference. In I. Weiner & W.E. Craighead (Eds.), *The Corsini encyclopedia of psychology, 4th ed., vol. 2* (pp. 846-848). New York: John Wiley & Sons.
- Miller, R.R. (2010). The oft ignored tension between psychological science and individual responsibility. *Experimental Psychology Bulletin*, *14*, 1-3.
- Molet, M., Jozefowiez, J., & Miller, R.R. (2010). Integration of spatial relationships and temporal relationships in humans. *Learning & Behavior*, *38*, 27-34.
- Molet, M., *Urcelay, G.P., *Miguez, G., & Miller, R.R. (2010). Using context to resolve temporal ambiguity. *Journal of Experimental Psychology: Animal Behavior Processes, 36*, 126-136.
- *Orinstein, A., *Urcelay, G.P., & Miller, R.R. (2010). Expanding the intertrial interval during extinction: Response cessation and recovery. *Behavior Therapy, 41*, 14-29.
- *Urcelay, G.P., & Miller, R.R. (2010). On the generality and limits of abstraction in rats and humans. *Animal Cognition*, *13*, 21-32.
- *Urcelay, G.P., & Miller, R.R. (2010). Two roles of the context in Pavlovian fear conditioning. *Journal of Experimental Psychology: Animal Behavior Processes, 36,* 268-280.
- Urushihara, K., & Miller, R.R. (2010). Backward blocking in first-order conditioning. *Journal of Experimental Psychology: Animal Behavior Processes*, 36, 281-295.
- *Witnauer, J.E., & Miller, R.R. (2010). Within-compound associations: Models and data. In Schmajuk, N.A. (Ed.), *Computational models of conditioning (*pp. 108-149). Cambridge, UK: Cambridge University Press.

- *Gallup, A.C., Miller, R.R., & Clark, A.B. (2011). Changes in ambient temperature trigger yawning but not stretching in rats. *Ethology*, *117*, 145-153.
- Jozefowiez, J., *Witnauer, J.E., & Miller, R.R. (2011). Two components of responding in Pavlovian lick suppression. *Learning & Behavior*, 39, 138-145.
- *Laborda, M.A., *McConnell, B.L., & Miller, R.R. (2011). Behavioral techniques to reduce relapse after exposure therapy: Applications of studies of experimental extinction. In T.R. Schachtman & S. Reilly (Eds.), *Associative learning and conditioning theory: Human and non-human applications* (pp. 79-103). Oxford, UK: Oxford University Press.
- *Laborda, M.A., & Miller, R.R. (2011). S-R associations, their extinction, and recovery in an animal model of anxiety: A new associative account of phobias without recall of original trauma: S-R associations, their extinction, and recovery. *Behavior Therapy*, *42*, 153-169.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. (2011). Contrasting AAB and ABC renewal: The role of context associations. *Learning & Behavior*, 39, 46-56.
- Miller, R.R., & *Laborda, M.A. (2011). Preventing recovery from extinction and relapse: A product of current retrieval cues and memory strengths. *Current Directions in Psychological Science*, 20, 325-329.
- *Witnauer, J.E., & Miller, R.R. (2011). Some determinants of second-order conditioning. *Learning & Behavior*, 39, 12-26.
- *Witnauer, J.E., & Miller, R.R. (2011). The role of within-compound associations in learning about absent cues. *Learning & Behavior*, *39*, 146-162.
- Blaisdell, A. P., & Miller, R.R. (2012). Causal learning. In N. M. Seel (Ed.), *Encyclopedia of the sciences of learning, Vol.* 3 (pp. 520-523). Heidelberg, Germany: Springer.
- Craddock, P., Molet, M., & Miller, R.R. (2012). Reaction time as a measure of human associative learning. *Behavioural Processes*, *90*, 189-197.
- Escobar, M., & Miller, R.R. (2012). Associative accounts of causal judgments. In T.R. Zentall & E.A. Wasserman (Eds.), *The Oxford handbook of comparative cognition* (pp. 157-174). New York, NY: Oxford University Press.
- Jozefowiez, J., *Witnauer, J.E., & Miller, R.R. (2012). The temporal pattern of responding in conditioned bar-press suppression: The role of the context switch and training mode. *Behavioural Processes*, 89, 239-243.
- *Laborda, M.A., *Miguez, G., *Polack, C.W., & Miller, R.R. (2012). Animal models of psychopathology: Historical models and the Pavlovian contribution. *Terapia Psicológica*, 30, 45-59. (Invited paper)
- *Laborda, M.A., & Miller, R.R. (2012). Reactivated memories compete for expression after Pavlovian extinction. *Behavioural Processes*, *90*, 20-27. (Invited paper)
 - *Miguez, G., *Cham, H.X., & Miller, R.R. (2012). Spontaneous recovery and ABC renewal

- from retroactive cue interference. Learning & Behavior, 40, 42-53.
- *Miguez, G., *Witnauer, J.E., & Miller, R.R. (2012). The role of contextual associations in producing the partial reinforcement acquisition deficit. *Journal of Experimental Psychology: Animal Behavior Processes, 38,* 40-51.
- Miller, R.R. (2012). An assessment of Gallistel's (2012) rationalistic account of extinction phenomena. *Behavioural Processes*, *90*, 81-83.
- Miller, R.R., & Grace, R.C. (2012). Conditioning and learning. In *Experimental psychology* (A.F. Healy & R.W. Proctor, Eds.), *Vol 4* (pp. 357-392) of *Handbook of Psychology, 2nd edition* (I.B. Weiner, Ed.). Hoboken, NJ: John Wiley & Sons. Invited chapter.
- Miller, R.R., & *Witnauer, J.E. (2012). Comparator hypothesis of associative learning. In N. M. Seel (Ed.), *Encyclopedia of the sciences of learning, Vol.* 3 (pp. 661-665). Heidelberg, Germany: Springer.
- Molet, M., *Gambet, B., *Bugallo, M., & Miller, R.R. (2012). Learning, storing, retrieval, and use of ambiguous spatial information under contextual control. *Learning and Motivation, 43*, 1-7.
- Molet, M., *Miguez, G., *Cham, H.X., & Miller, R.R. (2012). When does integration of independently acquired temporal relationships take place? *Journal of Experimental Psychology: Animal Behavior Processes, 38, 369-380.*
- *Polack, C.W., *Laborda, M.A., & Miller, R.R. (2012). Extinction context as a conditioned inhibitor. *Learning & Behavior, 40,* 24-33.
- *Urcelay, G.P., *Witnauer, J.E., & Miller, R.R. (2012). The dual role of the context in postpeak performance decrements resulting from extended training. *Learning & Behavior, 40*, 476-493.
- *Witnauer, J.E., & Miller, R.R. (2012). Associative status of the training context determines the effectiveness of compound extinction. *Journal of Experimental Psychology: Animal Behavioral Processes*, 38, 52-65.
- *Witnauer, J.E., *Wojick, B.M., *Polack, C.W., & Miller, R.R. (2012). Performance factors in associative learning: Assessment of the sometimes competing retrieval model. *Learning & Behavior,* 40, 347-366.
- *Laborda, M.A., & Miller, R.R. (2013). Preventing recovery from extinction in an animal model of anxiety: Additive effects of massive extinction and extinction in multiple contexts. *Behavior Therapy, 44,* 249-261.
- *McConnell, B.L., *Miguez, G., & Miller, R.R. (2013). Extinction with multiple excitors. *Learning & Behavior, 41*, 119-137.
- *Polack, C.W., *Laborda, M.A., & Miller, R.R. (2013). On the differences in degree of renewal produced by the different renewal designs. *Behavioural Processes*, *99*, 112-120.
- *Polack, C.W., *McConnell, B.L., & Miller, R.R. (2013). Associative foundation of causal learning in rats. *Learning & Behavior*, *41*, 25-41.

- *Polack, C.W., Molet, M., *Miguez, G., & Miller, R.R. (2013). Associative structure of integrated temporal relationships. *Learning & Behavior, 41*, 443-454.
- *Witnauer, J.E., & Miller, R.R. (2013). Conditioned suppression is an inverted-U function of footshock intensity. *Learning & Behavior, 41,* 94-106.
- Craddock, P., & Miller, R.R. (2014). Attention as an acquisition and performance variable (AAPV). *Learning & Behavior*, *42*, 105-122.
- Jozefowiez, J., *Polack, C.W., Machado, A., & Miller, R.R. (2014). Trial frequency effects in human temporal bisection: Implications for theories of timing. *Behavioural Processes*, *101*, 81-88.
- *Laborda, M.A., *Polack, C.W., *Miguez, G., & Miller, R.R. (2014). Behavioral techniques for attenuating the expression of fear associations in an animal model of anxiety. *Journal of Behavior Therapy and Experimental Psychiatry*, *45*, 343-350.
- *McConnell, B.L., & Miller, R.R. (2014). Associative theories of extinction and recovery-from-extinction effects. *Learning & Motivation*, *46*, 1-15.
- *Miguez, G., *Laborda, M.A., & Miller, R.R. (2014). Classical conditioning and pain: Conditioned analgesia and hyperalgesia. *Acta Psychologica, 145,* 10-20.
- *Miguez, G., *Laborda, M.A., & Miller, R.R. (2014). Enhancement and reduction of associative retroactive cue interference by training in multiple contexts. *Learning & Behavior, 42*, 318-329.
- *Miguez, G., *Laborda, M.A., & Miller, R.R. (2014). Retrospective revaluation of associative retroactive cue interference. *Learning & Behavior, 42*, 47-57.
- *Miguez, G., *Mash, L.E., *Polack, C.W., & Miller, R.R. (2014). Failure to observe renewal following retrieval-induced forgetting. *Behavioural Processes*, *103*, 43-51.
- *Miguez, G., *Witnauer, J.E., *Laborda, M.A., & Miller, R.R. (2014). Trial spacing during extinction: The role of context-US associations. *Journal of Experimental Psychology: Animal Behavior Processes*, *40*, 81-91.
- Molet, M., & Miller, R.R. (2014). Timing: An attribute of associative learning. *Behavioural Processes*, *101*, 4-14.
- Unrod, M., Drobes, D.J., Stasiewicz, P.R., Ditre, J.W., Heckman, B., Miller, R.R., Sutton, S.K., & Brandon, T.H. (2014). Decline in cue-provoked craving during cue-exposure therapy for smoking cessation. *Nicotine & Tobacco Research*, *16*, 306-315.
- Urcelay, G.P., & Miller, R.R. (2014). The functions of context in associative learning. *Behavioural Processes*, *104*, *2-12*.
- *Witnauer, J.E., Urcelay, G., & Miller, R.R. (2014). The error in total error reduction. *Neurobiology of Learning and Memory, 108*, 119-135.
- *Miguez, G., *Soares, J.S., & Miller, R.R. (2015). The role of test context in latent inhibition of conditioned inhibition: Part of a search for general principles of associative interference. *Learning & Behavior*, 43, 228-242.

- Miller, R.R., *Laborda, M.A., *Polack, C.W., & *Miguez, G. (2015). Comparing context specificity of extinction and latent inhibition. *Learning & Behavior, 43*, 384-395.
- *Laborda, M.A., *Schofield, C.A., *Johnson, E.M., *Shubert, J.R., *George-Denn, D., Coles, M.E., & Miller, R.R. (2016). The extinction and return of fear of public speaking. *Behavior Modification*, 40, 901-921.
- Miller, R.R. (2016). The construct of attention and beyond. In *Associative learning and cognition. Homage to Professor N. J. Mackintosh. In memoriam (1935-2015)* (pp. 13-20). J. B. Trobalon & V. D. Chamizo, Eds. Barcelona, Spain: University of Barcelona Press.
- Miller, R.R., & Witnauer, J.E. (2016). Retrospective revaluation: The phenomenon and its theoretical implications. *Behavioural Processes*, *123*, 15-25.
- Molet, M., Kosinski, T., Craddock, P., *Miguez, G., *Mash, L.E., & Miller, R.R. (2016). Attenuating social affective learning effects with memory suppression manipulations. *Acta Psychologica*, *164*, 136-143.
- *Soares, J.S., *Polack, C.W., & Miller, R.R. (2016). Retrieval-induced vs. context-induced forgetting: Does retrieval-induced forgetting depend on context shifts? *Journal of Experimental Psychology: Learning, Memory, and Cognition, 42, 366-378.*
- El Haj, M., Nandrino, J-L., Coello, Y., Miller, R.R., & Antoine, P. (2017). Source monitoring in Korsakoff's syndrome: "Did I touch the toothbrush or I did I imagine doing so?" *Cortex*, *91*, *262-270*.
- *Polack, C.W., Jozefowiez, J., & Miller, R.R. (2017). Stepping back from 'persistence and relapse' to see the forest: Associative interference. *Behavioural Processes*, 141, 128-136.
- *Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. (2017). Role of spatial contiguity in sensory preconditioning with humans. *Behavioural Processes, 142,* 141-145.
- Urcelay, G.P., & Miller, R.R. (2017). Retrieval from memory. In *Learning theory and behavior*, R. Menzel, Ed., Vol. 1 (pp. 53-73) of *Learning and memory A comprehensive reference*, 2nd edition, J.H. Byrne, Ed-in-Chief. Oxford, UK: Elsevier.
- Urushihara, K., & Miller, R.R. (2017). Causal super learning arising from interactions among cues. *Journal of Experimental Psychology: Animal Learning and Cognition, 43,* 183-196.
- Witnauer, J.E., *Hutchings, R., & Miller, R.R. (2017). Methods of comparing associative models and an application to retrospective revaluation. *Behavioural Processes*, *144*, 20-32.
- Brandon, T.H., Unrod, M., Drobes, D.J., Sutton, S.K., Hawk, L., Simmons, V., Brandon, K.O., Roetzheim, R.C., Meltzer, L.R., Miller, R.R., & Cahill, S.P. (2018). Facilitated extinction training to improve pharmacotherapy for smoking cessation: A pilot feasibility trial. *Nicotine & Tobacco Research*, 20, 1189-1197.
- Craddock, P., *Wasserman, J.S., *Polack, C.W., Kosinski, T., *Renaux, C., & Miller, R.R. (2018). Associative structure of second-order conditioning in humans using affectively neutral outcomes. *Learning & Behavior*, *46*, 171-181.

- El Haj, M., & Miller, R.R. (2018). Destination memory: The relationship between memory and social cognition. *Psychological Research*, 82, 1027-1038.
- El Haj, M. & Miller, R.R. (2018). The communicative function of destination memory. *Behavioral and Brain Sciences, 41,* 24-25. (a commentary)
- *Miguez, G., *McConnell, B., *Polack, C.W., & Miller, R.R. (2018). Proactive interference by cues presented without outcomes: Differences in context specificity of latent inhibition and conditioned inhibition. *Learning & Behavior, 46, 265-280.*
- Miller, R.R., & *Polack, C.W. (2018). Sources of maladaptive behavior in 'normal' organisms. *Behavioural Processes*, *154*, 4-12.
- *Polack, C.W., & Miller, R.R. (2018). Inhibition and mediated activation between conditioned stimuli: Parallels between perceptual learning and associative conditioning. *Journal of Experimental Psychology: Animal Learning and Cognition, 44*, 194-208.
- *Seitz, B.M., *Polack, C.W., & Miller, R.R. (2018). Adaptive memory: Is there a reproductive processing effect? *Journal of Experimental Psychology: Learning, Memory and Cognition, 44*, 1167-1179.
- *Polack, C.W., & Miller, R.R. (2019). Associative structure of conditioned inhibition produced by inhibitory perceptual learning treatment. *Learning & Behavior, 47,* 166-176.
- *Prevel, A., Rivière, V., Darcheville, J.-D., Urcelay, G.P., & Miller, R.R. (2019). Excitatory second-order conditioning using a backward first-order conditioned stimulus: A challenge for prediction error reduction. *Quarterly Journal of Experimental Psychology*, 72, 1453-1465.
- *Seitz, B.M., Blaisdell, A.P., Polack, C.W., Miller, R.R. (2019). The role of biological significance in human learning and memory. *International Journal of Comparative Psychology*, 32, 1-15.
- *Factor, Z.Z, *Polack, C.W., & Miller, R.R. (2020). Face gender guides crossmodal selective attending to the gender-congruent voice during dichotic listening. *Experimental Psychology, 67,* 246-254.
- Jozefowiez, J., *Berruti, A.S., *Moshchenko, Y., *Pena, T., Polack, C.W., & Miller, R.R. (2020). Retroactive interference: Counterconditioning and extinction with and without biologically significant outcomes. *Journal of Experimental Psychology: Animal Learning and Cognition, 46*, 443–459.
- Miller, R.R., *Laborda, M.A., & *Polack, C.W. (2020). Extinction training makes the extinction context a stimulus-specific inhibitor: A potential mechanism of experimental renewal. *Learning and Motivation*, 70, 1-7.
- *Polack, C.W., *Laborda, M.A., & Miller, R.R. (2020). Extinction of a Pavlovian conditioned inhibitor leads to stimulus-specific inhibition. *Learning & Behavior, 48*, 234-245.
- *Seitz, B.M., *Polack, C.W., & Miller, R.R. (2020). Adaptive memory: Generality of the parent processing effect and effects of biological relatedness on recall. *Evolutionary Psychological Science*, 6, 246-260.

- *Wasserman, J.S., *Polack, C.W., *Casado, C.V., Brunel, M., El Haj, M., & Miller, R.R. (2020). Bystander reporting: Effects of early testing and accuracy assessment for critical content. *Journal of Cognitive Psychology*, 32, 598-614.
- Miller, R.R. (2021). Failures of memory and the fate of forgotten memories. *Neurobiology of Learning and Memory, 181*, 1-16. https://doi.org/10.1016/j.nlm.2021.107426
- Molet, M., Craddock, P., *Osroff, A.J., *Li, P., *Livingston, T.L., & Miller, R.R. (2021). Mere exposure effect is sometimes insensitive to mood inductions. *Experimental Psychology, 68*(2), 81-93.
- *Castiello, S., Miller, R.R., Witnauer, J.E., *Alcaide, D.M., *Fung, E., *Morrissey, D., & Murphy, R.A. (2022). Benefitting from trial spacing without the cost of prolonged training: Frequency, not duration, of trials with absent stimuli enhances perceived contingency. *Journal of Experimental Psychology: General, 151*, 1772-1792.
- Jozefowiez, J., Urcelay, G.P., & Miller, R.R. (2022). Signal detection analysis of contingency assessment: Associative interference and nonreinforcement impact cue-outcome contingency sensitivity, whereas cue density affects bias. *Journal of Experimental Psychology: Animal Learning and Cognition*, 48, 190-202.
- *Miguez, G., & Miller, R.R. (2022). Blocking is not 'pure' cue competition: Renewal-like effects in forward and backward blocking indicate contributions by associative cue interference. *Journal of Experimental Psychology: Animal Learning and Cognition, 48, 145-159.*
- Murphy, R.A., Witnauer, J.E., *Castiello, S., *Tsvetkov, A., *Li, A., *Alcaide, D.M, & Miller, R.R. (2022). More frequent, shorter trials enhance acquisition in a training session: There is a free lunch! *Journal of Experimental Psychology: General, 151,* 41–64.
- *Polack, C.W., & Miller, R.R. (2022). Testing improves performance as well as assesses learning: A review with implications for models of learning. *Journal of Experimental Psychology: Animal Learning and Cognition, 48,* 222-241.
- Miller, R.R. (2023). The illusion of pure reason in science: A cautionary note. *Behavioural Processes*, 207, 104863 https://doi.org/10.1016/j.beproc.2023.104863.
- Witnauer, J.E., *Castiello, S., *Fung, E., Murphy, R.A., & Miller, R.R. (2023). Determinants of extinction. *Quarterly Journal of Experimental Psychology*, 76, 1155-1176.
- Zentall, T. R., & Miller, R. R. (2023). In celebration of the 30th meeting of the Conference on Comparative Cognition. *Comparative Cognition & Behavior Reviews, 18,* 1-7. DOI:10.3819/CCBR.2023.180001
- Alcalá, J.A., Miller, R.R., Kirkden, R., & Urcelay G.P. (in press). Contiguity and overshadowing interactions in the rapid-streaming procedure. *Learning & Behavior*.
- Jozefowiez, J. & Miller, R. R. (in press). Cue duration and trial spacing effects in contingency assessment. Journal of Experimental Psychology: Animal Learning and Cognition.
- Alfei, J. M., Miller, R. R., Ryan, T., & Urcelay, G. P. (2023). *Rethinking memory reconsolidation: Forgetting as a retrieval failure*. Manuscript submitted for publication.

- *Jain, R., *Huang, J., *Artus, K. P., *Castiello, S., Witnauer, J. E., Murphy, R. A., Miller, R. R. The role of irrelevant stimuli presented between associative learning trials. Manuscript submitted for publication.
- Jozefowiez, J., Witnauer, J.E., *Moshchenko, Y., *McCrea, C.M., *Stenstrom, K.A., & Miller, R.R. (2023). *Renewal in the cognitive and emotional domains: Comparing novelty-facilitated extinction with counterconditioning and extinction*. Manuscript submitted for publication.
- Jozefowiez, J., Witnauer, J.E., *Huang, J., *Silverstein, J.W., *Woltag, S., *Chew, S., & Miller, R.R. (2023). *Associative interference and nonreinforcement in human contingency learning*. Manuscript submitted for publication.
- Jozefowiez, J., Witnauer, J.E., *Woltag, S., & Miller, R.R. (2023). *Comparing latent inhibition, partial reinforcement, and extinction in human associative learning.* Manuscript submitted for publication.
- *Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. (2023). *Unimpaired avoidance learning in dementia as assessed by eye-tracking in an associative task.* Manuscript submitted for publication.
- Witnauer, J.E., *Chew, S., *Powell, J., *Elengickal, D., *Darko, N., Murphy, R.A., Miller, R.R. (2023). *Trial Frequency trumpsand trial duration of trials in associative learninga cued recall procedure: Generality and boundary conditions.* Manuscript submitted for publication.

Papers presented, coauthored, or sponsored at professional meetings with a published abstract: (* = student)

- Miller, R.R., & Lewis, D.J. Electroconvulsive shock as a US in one-trial conditioning. Eastern Psychological Association, Boston, MA, 1967.
- Lewis, D.J., Misanin, J.R., & Miller, R.R. Return of memory following experimental amnesia. Psychonomic Society, St. Louis, MO, 1968.
- Miller, R.R., Lewis, D.J., & Misanin, J.R. Mediation between learning and ECS. Eastern Psychological Association, Washington, D.C., 1968.
- Miller, R.R. The prevention; of ECS-induced amnesia through pretraining environmental familiarization. Eastern Psychological Association, Philadelphia, PA. 1969.
- Miller, R.R., & *Springer, A.D. Specificity of stimuli that induce recovery from experimental amnesia. Psychonomic Society, St. Louis, MO, 1971.
- *Springer, A.D., & Miller, R.R. Retrieval failure following electroconvulsive shock. Eastern Psychological Association, Atlantic City, NJ, 1971.
- *Malinowski, B., & Miller, R.R. State-dependent models of ECS-induced amnesia. Eastern Psychological Association, Boston, MA, 1972.
- Miller, R.R., & *Springer, A.D. Stimulus-induced memory restoration for appetitive and aversive tasks. Psychonomic Society, St. Louis, MO, 1972.

- Miller, R.R., *Springer, A.D., & *Vega, D.C. Conditions for stimulus-induced -recovery from experimental amnesia. Society for Neuroscience, Houston, TX, 1972.
- *Springer, A.D., *Puk, G, & Miller, R.R. Facilitated return of memory after ECS with stimulus qualitatively different from training stimuli. Eastern Psychological Association, Boston, MA, 1972.
- *Ott, C.A., & Miller, R.R. The effects of reinstatement on weaning rats as measured by shuttlebox performance. Eastern Psychological Association, Washington, D.C., 1973.
- *Raith, D., & Miller, R.R. Effectiveness of apparatus cues in restoring appetitive memory after ECS. Eastern Psychological Association, Washington, D.C., 1973.
- Miller, R.R., & *Springer, A.D. Effects of electroconvulsive shock on conditioned autonomic and skeletal responses in rats. Society for Neuroscience, San Diego, CA, 1973.
- *Berk, A.M., *Levy, J.D., & Miller, R.R. Successive reversals of a discriminated preference for signaled shock. Eastern Psychological Association, Philadelphia, PA, 1974.
- *Daniel, D., & Miller, R.R. The effects of pretraining stress on ECS-induced amnesia. Eastern Psychological Association, Philadelphia, PA, 1974.
- Miller, R.R., *Daniel, D., & *Berk, A.M. Recovery from ECS-induced amnesia for one-trial classical conditioning. Psychonomic Society, Boston, MA, 1974.
- *Small, D.J., *Ott, C.A., & Miller, R.R. Problems in interanimal chemical transfer of acquired information. Eastern Psychological Association, Philadelphia, PA, 1974.
- *Holzman, A.D., *Ling, D., & Miller, R.R. Effects of behavioral index in the study of preparedness. Eastern Psychological Association, New York, NY, 1975.
- Miller, R.R. Experimental amnesia and its reversal as indicated by autonomic and skeletal responses. Experimental Psychology Society (U.K.), London, UK, 1975.
- Miller, R.R., *Berk, A.M., & *Daniel, D. Retention over metamorphosis in Xenopus laevis. Psychonomic Society, Denver, CO, 1975.
- Miller, R.R., *Kraus, J.N., & *Berk, A.M. Effect of noncontingent reminder footshock on experimental amnesia indexed by autonomic and skeletal responses in rats. Society for Neuroscience, New York, NY, 1975.
- *Berk, A.M., & Miller, R.R. Juvenile amnesia: Effects of stimulus novelty and maturation. Eastern Psychological Association, New York, NY, 1976.
- Miller, R.R. Retention over metamorphosis by the African claw-toed frog. Experimental Psychology Society (U.K.), Reading, U.K., 1976.
- *Berk, A.M., & Miller, R.R. Developmental deficits in acquisition of the CER: Implications for studies of infantile amnesia. Eastern Psychological Association, Boston, MA, 1977.
 - *Berk, A.M., & Miller, R.R. A developmental comparison of CER extinction in the rat.

- Pychonomic Society, Washington, D.C., 1977.
- *Marlin, N.A., & Miller, R.R. Preference for signaled shock with and without shock modifiability. Psychonomic Society, Washington, D.C., 1977.
- *Marlin, N.A., & Miller, R.R. Relation of reinforcement onset and offset to ECS-induced retrograde amnesia gradients. Eastern Psychological Association, Boston, MA, 1977.
- Miller, R.R., *Marlin, N.A., & *Berk, A.M. Analysis of the preference-for-signaled-shock phenomenon. American Psychological Association, San Francisco, CA, 1977.
- *Berk, A.M., & Miller, R.R. Generalization of inhibition and excitation in weanling and adult rats. Psychonomic Society, San Antonio, TX, 1978.
- *Berk, A.M., *Vigorito, M., & Miller, R.R. Retroactive interference as a source of infantile amnesia in rats. Eastern Psychological Association, Washington, D.C., 1978.
- *Marlin, N.A., *Greco, C., & Miller, R.R. Preference for information concerning intensity of unmodifiable tailshock. Eastern Psychological Association, Washington, D.C., 1978.
- Miller, R.R. Infantile forgetting of acquired information. Joint Seminar in Psychology between the National Academy of Sciences of the USA and the Academy of Sciences of the USSR, Irvine, CA, 1978. (Invited address.)
- Miller, R.R., & *Marlin, N.A. Preference-for-signaled-shock: Reliability and underlying mechanisms. American Psychological Association, Toronto, Ontario, 1978. (Invited symposium presentation.)
- *Marlin, N.A., *Greco, C., & Miller, R.R. Retroactive interference by irrelevant stimuli upon spatial memory in rats. Eastern Psychological Association, Philadelphia, PA, 1979.
- Miller, R.R., & *Marlin, N.A. The physiology and semantics of consolidation. American Psychological Association, New York, NY, 1979. (Invited symposium presentation.)
- Miller, R.R., *Vigorito, M., *Greco, C., & *Marlin, N.A. Warning-signal effects on the aversiveness of fixed-electrode tailshock. Psychonomic Society, Phoenix, AZ, 1979.
- *Marlin, N.A., & Miller, R.R. Influence of contextual stimuli on long-term habituation of an acoustic startle response. Eastern Psychological Association, Hartford, CT, 1980.
- Miller, R.R. The contribution of retrievability to "acquisition curves." Eastern Psychological Association, Hartford, CT, 1980.
- Miller, R.R., *Hartl, P., *Capra, S., & *Balaz, M.A. Factors underlying contextual control of acquired behavior. Psychonomic Society, St. Louis, MO, 1980.
- *Balaz, M.A., *Cacheiro, H., *Gutsin, P., *Kasprow, W.J., & Miller, R.R. Blocking as a retrieval failure. Eastern Psychological Association, New York, NY, 1981.
- Miller, R.R., & *Balaz, M.A. Potentiation of retention by contextual cues. Eastern Psychological Association, New York, NY, 1981. (Invited symposium presentation.)

- Miller, R.R., *Kasprow, W.J., *Cacheiro, H., & *Balaz, M.A. Retrieval failure as a source of overshadowing, blocking, and latent inhibition. Psychonomic Society, Philadelphia, PA, 1981.
- *Balaz, M.A., *Storch, D., & Miller, R.R. One-trial blocking. Eastern Psychological Association, Baltimore, MD, 1982.
- *Kasprow, W.J., *Capra, S., *Cacheiro, H., *Schachtman, T., & Miller, R.R. Latent inhibition to the conditioning context: Contextual potentiation of retrieval in the absence on context-US associations. Eastern Psychological Association, Baltimore, MD, 1982.
- Miller, R.R., *Kasprow, W.J., *Schachtman, T., & *Cacheiro, H. Extinction does not depend upon degradation of event memories. Psychonomic Society, Minneapolis, MN, 1982.
- *Kasprow, W.J., *Chee, M.A., & Miller, R.R. Attenuation of experimental amnesia through pretraining administration of a dissimilar amnestic agent. Eastern Psychological Association, Philadelphia, PA, 1983.
- Miller, R.R., *Kasprow, W.J., & *Schachtman, T.R. Analysis of the comparator hypothesis of conditioned response generation. Psychonomic Society, San Diego, CA, 1983.
- *Serwatka, J.H., *Catterson, D., & Miller, R.R. Recovery from latent inhibition through the use of "reminder" treatments. Eastern Psychological Association, Philadelphia, PA, 1983.
- *Schachtman, T.R., *Gee, J-L., & Miller, R.R. Processing of the added stimulus element during compound stimulus pairings in a blocking procedure. Eastern Psychological Association, Philadelphia, PA, 1983.
- *Brown, A.M., *Feldman, L., *Gladstein, L., & Miller, R.R. Transfer of retardation from a conditioned inhibitor to a novel stimulus. Eastern Psychological Association, Baltimore, MD, 1984.
- *Kasprow, W.J., *Schachtman, T.R., & Miller, R.R. A retrograde gradient for disruption of conditioned gustatory cue aversion by ECS during the CS-US interval. Eastern Psychological Association, Baltimore, MD, 1984.
- Miller, R.R., *Sissman, M., *Schachtman, T.R., & *Brown, A.M. The relationship of latent inhibition to conditioned inhibition. Psychonomic Society, San Antonio, TX, 1984.
- *Schachtman, T.R., *Catterson, D., & Miller, R.R. Enhancement of conditioned inhibition by operational extinction. Eastern Psychological Association, Baltimore, MD, 1984.
- *Brown, A.M., *Schachtman, T.R., & Miller, R.R. Recovery of an extinguished taste aversion. Eastern Psychological Association, Boston, MA, 1985.
- *Gordon, E.L., *Sissman, M., & Miller, R.R. The roles of information reactivation and nonassociative arousal in recovery from ECS-induced retrograde amnesia. Eastern Psychological Association, Boston, MA, 1985.
- *Matzel, L.D., *Catterson, D., *Gladstein, L., & Miller, R.R. Mechanisms of retardation following conditioned inhibition training. Eastern Psychological Association, Boston, MA, 1985.

- Miller, R.R., & *Schachtman, T.R. Comparator response rules for Pavlovian conditioning obviate the need for inhibitory associations: Analysis of retarded acquisition by putative conditioned inhibitors. Experimental Psychology Society, Cambridge, UK, 1985.
- *Schachtman, T.R., *Brown, A.M., & Miller, R.R. Retroactive interference in rats: Independent effects of the time of interpolation and similarity of the intervening event to the target event. Eastern Psychological Association, 1985.
- *Brown, A.M., *List, F., & Miller, R.R. Path dependence and associative stability. Eastern Psychological Association, New York, NY, 1986.
- *Gordon, E.L., *Catterson, D., & Miller, R.R. Conditioned responding as a function of associative strength of conditioning and test contexts. Eastern Psychological Association, New York, NY, 1986.
- *Matzel, L.D., *Brown, A.M., & Miller, R.R. Recovery of an overshadowed association. Eastern Psychological Association, New York, NY, 1986.
- Miller, R.R., *Brown, A.M., & *Matzel, L.D. Contribution of the comparator process to retardation following inhibition training. American Psychological Association, Washington, D.C., 1986.
- Miller, R.R., *Gordon, E.L., & *Matzel, L.D. Sources of retardation following negative contingency conditioning. Midwestern Psychological Association, Chicago, IL, 1986.
- Miller, R.R., *Matzel, L.D., & *Schachtman, T.R. Performance, not acquisition deficits following US preexposure. Psychonomic Society, New Orleans, LA, 1986.
- *Hallam, S.C., Navarro, J., *Sloat, J., & Miller, R.R. Sources of superconditioning. Eastern Psychological Association, Washington, D.C., 1987.
- *Matzel, L.D., *Lamb, J., *Shuster, K., & Miller, R.R. Modulation of learning of conditioned opioid analgesia. Eastern Psychological Association, Washington, D.C., 1987.
- Miller, R.R., *Matzel, L.D., & *Hallam, S.C. Delayed onset of conditioned analgesia: Some behavioral consequences. Midwestern Psychological Association, Chicago, IL, 1987.
- *Matzel, L.D., & Miller, R.R. Information content of simultaneous and backward associations. Psychonomic Society, Seattle, WA, 1987.
- *Grahame, N.J., *Matzel, L.D., & Miller, R.R. Opioid hypoalgesia as a function of shock intensity and delay of testing. Eastern Psychological Association, Buffalo, NY, 1988.
- *Hallam, S.C., *Castillo, J.M., & Miller, R.R. The relative nature of inhibitory and excitatory response potentials following partially reinforced, Pavlovian conditioned inhibition training. Eastern Psychological Association, Buffalo, NY, 1988.
- *Matzel, L.D., *Schachtman, T.R., & Miller, R.R. Learned irrelevance as an independent process. Eastern Psychological Association, Buffalo, NY, 1988.
 - Miller, R.R. The US-preexposure deficit. Winter Conference on Animal Learning, Winter

- Park, CO, 1988.
- Miller, R.R. Expression of associations: Contingency in Buffalo. Eastern Psychological Association, Buffalo, NY, 1988. (Invited address.)
- Miller, R.R., *Matzel, L.D., & *Held, F.P. Increased CS responding following post-CS-training extinction of stimuli present during CS training. Midwestern Psychological Association, Chicago, IL, 1988.
- Miller, R.R., *Grahame, N.J., & *Held, F.P. Conditions favoring associative summation of CSs and excitatory contexts. Psychonomic Society, Chicago, IL, 1988.
- *Grahame, N.J., *Green, D., & Miller, R.R. Contextual occasion setting. Eastern Psychological Association, Boston, MA, 1989.
- *Hallam, S.C., *Dufore, D.S., & Miller, R.R. Mechanisms underlying the enhancement of negative summation after operational extinction of a conditioned inhibitor. Eastern Psychological Association, Boston, MA, 1989.
- Miller, R.R. A nature-nurture analysis of some dysfunctional behaviors. Winter Conference on Animal Learning, Winter Park, CO, 1989.
- Miller, R.R. Organizational Issues: Views from Division 3. American Psychological Association, New Orleans, LA, 1989.
- Miller, R.R., *Grahame, N.J., & *Hallam, S.C. Trade-offs between training contexts and punctate excitors as comparator stimuli for Pavlovian conditioned inhibitors. Psychonomic Society, Atlanta, GA, 1989.
- Miller, R.R., *Hallam, S.C., & *Grahame, N.J. Nonlinearity in contingency space. Midwestern Psychological Association, Chicago, IL, 1989.
- *Priore, S.L., *Castillo, J.M., & Miller, R.R. Higher-order occasion setting. Eastern Psychological Association, Boston, MA, 1989.
- *Arnold, H.M., *Hong, J.Y., & Miller, R.R. Higher-order discriminations in the rat: Implications for occasion setting. Eastern Psychological Association, Philadelphia, PA, 1990.
- *Barnet, R.C., Grahame, *N.J., & Miller, R.R. Simultaneous associations revealed by second-order conditioning. Eastern Psychological Association, Philadelphia, PA, 1990.
- *Grahame, N.J., *Dufore, D.S., & Miller, R.R. Inflation of comparator stimuli following CS training. Eastern Psychological Association, Philadelphia, PA, 1990.
- *Hallam, S.C., *Arnold, H.M., & Miller, R.R. Blocking of a Pavlovian conditioned inhibitor. Eastern Psychological Association, Philadelphia, PA, 1990.
- Miller, R.R. Associative structure in instrumental learning. Midwestern Psychological Association Association, Chicago, IL, 1990. (Invited symposium presentation.)
 - Miller, R.R. Associative structure in animal learning. Winter Conference on Animal Learning,

- Winter Park, CO, 1990.
- Miller, R.R., *Esposito, J.J., & *Barnet, R.C. Response rules as alternatives to models of conditioning. Midwestern Psychological Association, Chicago, IL, 1990. (Invited address.)
- Miller, R.R., *Grahame, N.J., & *Hallam, S.C. Necessary conditions for the development of inhibition. Psychonomic Society, New Orleans, LA, 1990.
- *Barnet, R.C., *Grahame, N.J., & Miller, R.R. Local context during training as a modulator of Pavlovian responding. Psychonomic Society, San Francisco, CA, 1991.
- *Barnet, R.C., *Newcomer, G.J., & Miller, R.R. Blocking of forward associations by simultaneous and forward associations. Eastern Psychological Association, New York, NY, 1991.
- *Grahame, N.J., *Seo, H.S., & Miller, R.R. Contribution of sequence learning to contextual occasion setting. Eastern Psychological Association, New York, NY, 1991.
- *Hallam, S.C., Esposito, J.J., & Miller, R.R. Comparator effects after Pavlovian training in one or two contexts. Eastern Psychological Association, New York, NY, 1991.
- Miller, R.R. Encoding temporal relationships in Pavlovian conditioning. Spanish Comparative Psychology Society, Seville, Spain, 1991. (Keynote address.)
- Miller, R.R. Latent memory and the learning-performance distinction. Winter Conference on Animal Learning, Winter Park, CO, 1991.
- Miller, R.R., *Hallam, S.C., & *Gerstman, J. Specificity of comparator stimuli that modulate responding to conditioned stimuli. Midwestern Psychological Association, Chicago, IL, 1991.
- *Barnet, R.C., *Newcomer, G.J., *Hiralall, A., & Miller, R.R. Local time horizons in Pavlovian learning. Eastern Psychological Association, Boston, MA, 1992.
- *Barnet, R.C., *Rivera, J.F., & Miller, R.R. Local training context as a modulator of Pavlovian responding: Control by events before and after a target CS. Midwestern Psychological Association, Chicago, IL, 1992.
- *Grahame, N.J., *Seo, H.S., & Miller, R.R. Latent inhibition: A performance deficit arising from CS-context associations. Eastern Psychological Association, Boston, MA, 1992.
- *Hallam, S.C., *Grahame, N.J., *Barnet, R.C., & Miller, R.R. Differences in the associate structures of serial and simultaneous negative features. Psychonomic Society, St. Louis, MO, 1992.
- Miller, R.R. Ecological determinants of acquired behavior. Winter Conference on Animal Learning, Winter Park, CO, 1992.
- Miller, R.R. Time as an attribute as well as a catalyst. Winter Conference on Animal Learning, Winter Park, CO, 1992.
- *Barnet, R.C., *Unrod, M., & Miller, R.R. Symmetrical influence on pre-trial and post-trial ITIs on the trial spacing effect. Eastern Psychological Association, Washington, DC, 1993.

- *Cole, R.P., *Barnet, R.C., & Miller, R.R. Temporal encoding in Pavlovian learning: Trace conditioning. Psychonomic Society, Washington, DC, 1993.
- *Fiori, L.M., *Grahame, N.J., & Miller, R.R. Renewal of Pavlovian conditioned inhibition. Eastern Psychological Association, Washington, DC, 1993.
- Miller, R.R. Time horizons and homeostasis. Midwestern Psychological Association, Chicago, IL, 1993. (Invited address.)
- Miller, R.R. Time horizons in Pavlovian conditioning. Winter Conference on Animal Learning, Winter Park, CO, 1993.
- *Near, D.A., Wilson, D.S., & Miller, R.R. Machiavellianism: A synthesis of the evolutionary and psychological literatures. Human Evolution and Behavior Society, Binghamton, NY, 1993.
- *Yin, H., *Barnet, R.C., & Miller, R.R. Trial spacing and trial distribution effects in Pavlovian conditioning: Contributions of the comparator hypothesis. Eastern Psychological Association, Washington, DC, 1993.
- *Barnet, R.C., *Mattes, L., & Miller, R.R. The role of pre-trial ITIs on the trial spacing effect. Eastern Psychological Association. Providence, RI, 1994.
- *Barnet, R.C., & Miller, R.R. Mediation of second-order excitation by a backward conditioned inhibitor. Psychonomic Society. St. Louis, MO, 1994.
- *Cole, R.P., *Lampenstein, E.H., & Miller, R.R. Backward and forward Pavlovian conditioning: A temporal analysis. Eastern Psychological Association. Providence, RI, 1994.
- Matute, H., Esmoris, F., & Miller, R.R. Blocking between antecedent stimuli and between subsequent stimuli. Spanish Society for Comparative Psychology. Segovia, Spain, 1994.
- Matute, H., Miller, R.R., & Arcediano, F. Backward blocking in rats. Spanish Society for Comparative Psychology. Segovia, Spain, 1994.
- Miller, R.R., *Cole, R.P., & *Barnet, R.C. Conditioned inhibition revisited. International Comparative Cognition Society. Melbourne, FL, 1994.
- Miller, R.R., & Matute, H. Causal perception: The meeting ground of cognitivism and associationism. Midwestern Psychological Association, Chicago, IL, 1994. (Invited symposium presentation.)
- Miller, R.R., & Matute, H. Causal judgments in rats and humans. International Society for Comparative Psychology, Sao Paulo, Brazil, 1994.
- *Yin, H., *Packer, W.J., & Miller, R.R. Second-order conditioning and Pavlovian conditioned inhibition: Operational similarities and differences. Eastern Psychological Association. Providence, RI, 1994.
- *Arcediano, F., Matute, H., & Miller, R.R. Competition between causes and between effects predictive and diagnostic training and testing. Spanish Society for Comparative Psychology, Bilbao, Spain, 1995.

- *Arcediano, F., Matute, H., & Miller, R.R. Conditioned blocking in humans. Spanish Society for Comparative Psychology, Bilbao, Spain, 1995.
- *Barnet, R.C., *Cole, R.P., & Miller, R.R. Memory for temporal location in Pavlovian conditioning. Experimental Psychology Society, London, UK, 1995.
- *Barnet, R.C., & Miller, R.R. Timing in conditioned inhibition. Canadian Society for Brain, Behavior, and Cognitive Science, Halifax, NS, Canada, 1995.
- *Cole, R.P., *Mattes, L., & Miller, R.R. Attenuation of the relative validity effect by posttraining extinction of the more valid cue. Eastern Psychological Association, Boston, MA, 1995.
- *Denniston, J.C., *Grimaldi, S., & Miller, R.R. Temporal coding in Pavlovian conditioning: Hall-Pearce latent inhibition. Eastern Psychological Association, Boston, MA, 1995.
- *Gunther, L.M., *Scarinci, D.R., & Miller, R.R. Renewal of comparator stimuli. Eastern Psychological Association, Boston, MA, 1995.
- Matute. H., & *Arcediano, F., & Miller, R.R. Causal judgment and Pavlovian conditioning. International Australian Learning Group Conference. Magnetic Island, Australia, 1995.
- Miller, R.R., *Cole, R.P., *Denniston, J.C. The temporal encoding hypothesis. International Comparative Cognition Society. Melbourne, FL, 1995.
- Miller, R.R., & *Gunther, L.M. Renewal of comparator stimuli in overshadowing: Conservation of associative strength violated. International Australian Learning Group Conference. Magnetic Island, Australia, 1995.
- Miller, R.R., & Matute, H. Pavlovian conditioning as a model of causal judgment. American Psychological Association, New York City, 1995. (Invited symposium presentation.)
- Miller, R.R., Matute, H., & *Gunther, L.M. What distinguishes a CS from a US? Psychonomic Society, Los Angeles, 1995.
- Oberling, P., *Denniston, J.C., & Miller, R.R. Biologically relevant stimuli do not follow the law of contingency. Society for Physiology, Strasbourg, France, 1995.
- *Blaisdell, A.P., *Bristol, A.S., & Miller, R.R. Testing the Comparator Hypothesis: Latent inhibition and overshadowing counteract each other. Psychonomic Society, Chicago, IL, 1996.
- *Blaisdell, A.P., *Cole, R.P., & Miller, R.R. Recovery from the relative stimulus validity effect. Eastern Psychological Association, Philadelphia, PA, 1996.
- *Blaisdell, A.P., & Miller, R.R. Unblocking with qualitative changes in an aversive US. International Comparative Cognition Society, Melbourne, FL, 1996.
- *Cole, R.P., *Denniston, J.C., & Miller, R.R. Behavioral recovery from the effect of one-trial overshadowing. Eastern Psychological Association, Philadelphia, PA, 1996.
 - *Denniston, J.C., *Gunther, L.M., & Miller, R.R. Generalized extinction as a result of extinction

- in multiple contexts. International Comparative Cognition Society, Melbourne, FL, 1996.
- *Denniston, J.C., Miller, R.R., & Matute, H. Biological significance as a determinant of cue competition. Eastern Psychological Association, Philadelphia, PA, 1996.
- *Gunther, L.M., *Friedman, B., & Miller, R.R. Generalized excitation as a result of training and extinction in multiple contexts. International Comparative Cognition Society, Melbourne, FL, 1996.
- *Gunther, L.M., Oberling, P., & Miller, R.R. Biological significance attenuates overshadowing, the effect of low relative stimulus validity, and the effect of degraded contingency. Eastern Psychological Association, Philadelphia, PA, 1996.
- Matute, H., & Miller, R.R. Cue competition in causal judgment. International Congress of Psychology, Montreal, 1996. (Invited symposium presentation.)
- Miller, R.R. Acquisition and expression of Pavlovian associations. Spanish Comparative Psychology Society, Malaga, Spain, 1996. (Keynote address.)
- Miller, R.R., Oberling, P., & *Gunther, L.M. Latent inhibition and overshadowing of occasion setting. International Comparative Cognition Society, Melbourne, FL, 1996.
- Miller, R.R. The temporal coding hypothesis. Midwestern Psychological Association, Chicago, IL, 1996. (Invited address.)
- Oberling, P., *Gunther, L.M., & Miller, R.R. Latent inhibition of occasion setting. European Neuroscience Association, Strasbourg, France, 1996.
- Angst, M.J., Oberling, P., Miller, R.R., & Sandner, G. Effect of amphetamine in a new model of delusion disorders in rats. Regio Neurex Meeting, Basel, Switzerland, 1997.
- *Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. Temporal coding as a determinant of overshadowing. Eastern Psychological Association, Washington, DC, 1997.
- *Blaisdell, A.P., *Gunther, L.M., & Miller, R.R. Recovery from blocking through deflation of the blocking stimulus. International Comparative Cognition Society, Melbourne, FL, 1997.
- *Bristol, A.S., *Blaisdell, A.P., & Miller, R.R. Overshadowing and latent inhibition counteract each other due to their dependence on different comparator mechanisms. Eastern Psychological Association, Washington, DC, 1997.
- *Denniston, J.C., *Kovacs, G.A., Miller, R.R. Temporal coding as a determinant of transfer of inhibition. Eastern Psychological Association, Washington, DC, 1997.
- *Denniston, J.C., Matute, H., & Miller, R.R. Blocking in humans using conditioned suppression. International Comparative Cognition Society, Melbourne, FL, 1997.
- *Friedman, B., *Vadhan, N.P., & Miller, R.R. Comparator mechanisms and conditioned inhibition. Eastern Psychological Association, Washington, DC, 1997.
- *Gunther, L.M., *Cole, R.P., & Miller, R.R. Conditioned excitation and conditioned inhibition acquired through backward conditioning. Eastern Psychological Association, Washington, DC, 1997.

- *Gunther, L.M., *Fletcher-Haynes, Z., *Consorte, D., & Miller, R.R. The contingency effect revisited: Signaling the CS alleviates the deficit. International Comparative Cognition Society, Melbourne, FL, 1997.
- Miller, R.R. What differences between acquisition and expression tell us about the contents of learning. Eastern Psychological Association, Washington, DC, 1997. (Invited symposium presentation.)
- Miller, R.R., Denniston, J.C., & Blaisdell, A.P. Comparator processes influence retrieval, not response generation. Psychonomic Society, Philadelphia, PA, 1997.
- Miller, R.R., *Gunther, L.M., *Denniston, J.C., & *Blaisdell, A.P. The comparator hypothesis: Current status. International Comparative Cognition Society, Melbourne, FL, 1997.
- Miller, R.R., & Oberling, P. Analogues between occasion setting and Pavlovian conditioning. APA sponsored Conference on Occasion Setting, Durham, NC, 1997. (Invited address.)
- Miller, R.R., & Oberling, P. Occasion setting: Basic phenomena. Eastern Psychological Association, Washington, DC, 1997. (Invited address.)
- Oberling, P., Angst, M.J., Miller, R.R., & Sander, G. Pavlovian conditioning in rats as a tool to study schizophrenia: On the role of contingency judgment in the formation of abnormal beliefs. Japanese-French Conference on Neurosciences, Cognition, and Related Fields, Strasbourg, France, 1997.
- *Blaisdell, A.P., *Wishtart, R., & Miller, R.R. Posttraining shifting of the overshadowing stimulus-US interval alleviates the overshadowing deficit. Eastern Psychological Association, Boston, MA, 1998.
- *Burger, D.C., *George, G., & Miller, R.R. Overshadowing of subsequent events. Eastern Psychological Association, Boston, MA, 1998.
- *Denniston, J.C., *Mallemat, H., & Miller, R.R. Retrospective revaluation of temporal information in conditioned inhibition. Eastern Psychological Association, Boston, MA, 1998.
- *Gunther, L.M., *Bristol, A., Matute, H., & Miller, R.R. Stimuli with acquired biological significance are protected from cue competition. Eastern Psychological Association, Boston, MA, 1998.
- Matute, H., *Pineno, O., *Ortega, N., & Miller, R.R. Interference effects from a learning-theoretic view. Spanish Society for Experimental Psychology, Granada, Spain, 1998.
- Miller, R.R. The role of models, semantics, and levels of analysis. Rutgers University Symposium on Associationism and Computational Models of Learning and Memory, New Brunswick, NJ, 1998. (Invited symposium presentation.)
- Miller, R.R. The role of timing in Pavlovian conditioning: The temporal coding hypothesis Eastern Psychological Association, Boston, MA, 1998. (Invited address.)
 - Miller, R.R., *Denniston, J.C., & *Blaisdell, A.P. New tests of the comparator hypothesis as

- applied to retrieval in Pavlovian situations. Midwestern Psychological Association, Chicago, IL, 1998. (Invited address.)
- Miller, R.R., *Denniston, J., & * Burger, D. Temporal encoding in Pavlovian inhibition. International Comparative Cognition Society, Melbourne, FL, 1998.
- Miller, R.R., *Escobar, M., Savastano, H.I., & Matute, H. Stimulus competition: Antecedent or subsequent events presented on the same or different trials. Psychonomic Society, Dallas, TX, 1998.
- Miller, R.R., & Savastano, H.I. The use of temporal information in Pavlovian behavior. Society of the Quantitative Analysis of Behavior, Orlando, FL, 1998. (Invited address.)
- Savastano, H.I., *Blaisdell, A., & Miller, R.R. Competition between potential comparator stimuli in the CS-preexposure effect. International Comparative Cognition Society, Melbourne, FL, 1998.
- Savastano, H.I., Matute, H., & Miller, R.R. Blocking between outcomes. Eastern Psychological Association, Boston, MA, 1998.
- *Blaisdell, A.P., *George, G., & Miller, R.R. Counterconditioning of an overshadowed cue attenuates overshadowing of aversive associations. Eastern Psychological Association, Providence, RI, 1999.
- *Blaisdell, A.P., Miller, R.R., & *Escobar, M. Contrasting the comparator hypothesis with acquisition-focused models of retrospective revaluation: Relative validity. Psychonomic Society, Los Angeles, CA, 1999.
- *Denniston, J.C., *Salpepi, N., Savastano, H.I., & Miller, R.R. Temporal specificity of inhibition produced through extinction. Eastern Psychological Association, Providence, RI, 1999.
- *Escobar, M., *Blaisdell, A.P., & Miller, R.R. Retrospective revaluation and the extended comparator hypothesis. Gregynog Associative Learning Symposium, Gregynog, United Kingdom, 1999.
- *Escobar, M., *Hauer, L., Matute, H., & Miller, R.R. Competition between cues trained apart. Eastern Psychological Association, Providence, RI, 1999.
- Miller, R.R. Competition between antecedent/subsequent events. European Conference on Cue Competition. Le Lignely, Belguim, 1999. (Invited address.)
- Miller, R.R., *Denniston, J.C., & *Blaisdell, A.P. Acquisition- vs. expression-deficit models of cue competition. European Conference on Cue Competition. Le Lignely, Belguim, 1999. (Invited address.)
- Miller, R.R., Savastano, H.I., *Escobar, M, & Matute, H. Interactions between antecedent events presented together and apart and between subsequent events presented together and apart. European Conference on Classic and Connectionist Approaches to Causal Inference and Social Judgment. Aix-en-Provence, France, 1999. (Invited address.)
 - Miller, R.R. Retrospective revaluation and the comparator hypothesis. Southwestern

- Psychological Association, Albuquerque, NM, 1999. (Invited symposium presentation.)
- Miller, R.R., *Denniston, J.C., & Arcediano, F. Ratings of causation versus prediction: A test of Power PC Theory. Eastern Psychological Association, Providence, RI, 1999.
- Savastano, H.I., *Blaisdell, A.P., & Miller, R.R. A comparator account of preexposure effects. Eastern Psychological Association, Providence, RI, 1999.
- Arcediano, F., *Burger, D.C., *Escobar, M., & Miller, R.R. Backward associations in humans. International Comparative Cognition Society, Melbourne, FL, 2000.
- Arcediano, F., *Escobar, M., & Miller, R.R. Temporal coding and backward associations in humans. Eastern Psychological Association, Baltimore, MD, 2000.
- Arcediano, F., *Escobar, M., & Miller, R.R. Temporal coding, backward associations and bidirectionality of associations in humans. Spanish Comparative Psychology Society, Granada, Spain, 2000.
- *Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. Recovery from the overexpectation effect: Support for performance models of retrospective revaluation. Eastern Psychological Association, Baltimore, MD, 2000.
- *Burger, D.C, *Denniston, J.C., & Miller, R.R. Temporal coding in conditioned inhibition: Retardation tests. Eastern Psychological Association, Baltimore, MD, 2000.
- *Chang, R.C., *Blaisdell, A.P., Miller, R.R. Temporal relationship as a determinant of blocking in backward conditioning. Eastern Psychological Association, Baltimore, MD, 2000.
- *Denniston, J.C., *Burger, D.C., *Escobar, M., & Miller, R.R. Timing of US omission in Pavlovian conditioned inhibition. Psychonomic Society, New Orleans, LA, 2000.
- *Denniston, J.C., *Chang, R., & Miller, R.R. Massive extinction prevents the renewal effect. Eastern Psychological Association, Baltimore, MD, 2000.
- *Escobar, M., Arcediano, F., & Miller, R.R. Latent inhibition and contextual associations. Eastern Psychological Association, Baltimore, MD, 2000.
- *Escobar, M., Arcediano, F., & Miller, R.R. Context exposure modulates the CS-preexposure effect. International Comparative Cognition Society, Melbourne, FL, 2000.
- *Escobar, M., & Miller, R.R. Contrasting retroactive interference between antecedent events and subsequent events in rats. Spanish Comparative Psychology Society, Granada, Spain, 2000.
- Miller. R.R. One hundred years of learning theory: What have we learned? Eastern Psychological Association, Baltimore, MD, 2000. (Presidential address).
- Miller, R.R. The roles of temporal relationships in Pavlovian conditioning. Pavlovian Society. Annapolis, MD, 2000. (Invited address.)
- Savastano, H.I., *Escobar, M., & Miller, R.R. The interaction of preexposure and overshadowing. Eastern Psychological Association, Baltimore, MD, 2000.

- Arcediano, F., *Escobar, M., & Miller, R.R. Backward associations and bidirectionality of associations in man and beast. International Comparative Cognition Society. Melbourne, FL, 2001.
- Arcediano, F., *Genua, J.S., Miller, R.R. Backward associations and bidirectionality in rats. Eastern Psychological Association, Washington, DC, 2001.
- Arcediano, F., & Miller, R.R. Backward associations and bidirectionality of associations in rats. Spanish Comparative Psychology Society, San Sebastian, Spain, 2001.
- *Chang, R.C., *Kelschenbach, J., & Miller, R.R. Posttraining context extinction attenuates a backward excitor and a backward inhibitor. Eastern Psychological Association, Washington, DC, 2001.
- *Chang, R.C., & Miller, R.R. The role of context in excitatory backward conditioning. International Comparative Cognition Society. Melbourne, FL, 2001.
- *Escobar, M., *Choi, D., & Miller, R.R. Retroactive interference and event temporal location. Eastern Psychological Association, Washington, DC, 2001.
- *Escobar, M., & Miller, R.R. Latent inhibition in human adults without masking. Spanish Comparative Psychology Society, San Sebastian, Spain, 2001.
- Miller, R.R. Destructive readout or multiple representations in memory? Pavlovian Society. New Brunswick, NJ, 2001. (Invited symposium presentation.)
- Miller, R.R., & *Escobar, M. Interference between cues and between outcomes in rats. Midwestern Psychological Association, Chicago, IL, 2001. (Invited address.)
- Miller, R.R., & *Escobar, M. Interference between cues and between outcomes presented together and presented apart. Society for the Quantitative Analysis of Behavior, New Orleans, 2001. (Invited address.)
- Miller, R.R., & *Escobar, M. Latent inhibition in man and beast. International Comparative Cognition Society. Melbourne, FL, 2001.
- Stout, S., & Miller, R.R. Massed trials counter overshadowing. International Comparative Cognition Society. Melbourne, FL, 2001.
- Stout, S., & Miller, R.R. Positive and negative mediated behavior: Trade-off with number of compound-CS trials. Pavlovian Society. New Brunswick, NJ, 2001.
- Stout, S., & Miller, R.R. The effect of trial spacing on cue competition. Psychonomic Society, Orlando, FL, 2001.
- *Amundson, J., *Escobar, M., & Miller, R.R. Backward blocking with humans in a nonverbal task. International Comparative Cognition Society. Melbourne, FL, 2002.
- *Amundson, J., *Escobar, M., & Miller, R.R. Proactive interference of Pavlovian associations. Eastern Psychological Association. Boston, MA, 2002.

- Arcediano, F., *Escobar, M., & Miller, R.R. Disruption of latent inhibition by context segmentation. Eastern Psychological Association. Boston, MA, 2002.
- Arcediano, *Escobar, M., & Miller, R.R. Is stimulus competition an acquisition deficit or a performance deficit? International Congress on Behaviorism and the Sciences of Behavior. Auburn, AL, 2002.
- *Chang, R.C., *Yirenchi, D.A., & Miller, R.R. Context mediation of backward and forward conditioning. Eastern Psychological Association. Boston, MA, 2002.
- *Chang, R.C., Stout, S.C., & Miller, R.R. Context mediation of excitatory backward and forward conditioning: Posttraining context extinction. International Comparative Cognition Society. Melbourne, FL, 2002.
- *Escobar, M., *Amundson, J., Arcediano, F., & Miller, R.R. Associative interference: An integrative approach. International Congress on Behaviorism and the Sciences of Behavior. Auburn, AL, 2002.
- *Escobar, M., Arcediano, F., & Miller, R.R. Latent inhibition in human adults: Is masking necessary? Eastern Psychological Association. Boston, MA, 2002.
- Miller, R.R. How temporal relationships modulate acquired behavior. International Congress on Behaviorism and the Sciences of Behavior. Auburn, AL, 2002. (Invited address.)
- Miller, R.R. Retrospective revaluation: Learning without input? American Psychological Association. Chicago, IL, 2002. (Invited symposium presentation.)
- Miller, R.R. Contrasting acquisition-focused and performance-focused models of retrospective revaluation. American Psychological Association. Chicago, IL, 2002. (Invited symposium presentation.)
- Miller, R.R., & *Escobar, M. Memory, retrieval, and interference: How some new and not so new findings in the animal laboratory inform stimulus control in clinical situations. Association for Behavioral Analysis. Toronto, Ontario, Canada, 2002. (Invited address.)
- Stout, S.C., *Escobar, M., & Miller, R.R. Trial number and temporal relationship as joint determinants of second-order conditioning and conditioned inhibition. Psychonomic Society. Kansas City, MO, 2002.
- Stout, S.C., & Miller, R.R. Mediation as a function of trial spacing and number of training trials. International Comparative Cognition Society. Melbourne, FL, 2002.
- Stout, S.C., & Miller, R.R. Trial number and temporal contiguity as determinants of cue competition. International Comparative Cognition Society. Melbourne, FL, 2002.
- Stout, S.C., & Miller, R.R. Overshadowing is transient: Role of comparator processes. Eastern Psychological Association. Boston, MA, 2002.
- *Wheeler, D., *Chang, R., *Yirenchi, D.A., & Miller, R.R. Context mediation of excitatory backward and forward conditioning: US preexposure. International Comparative Cognition Society. Melbourne, FL, 2002.

- *Wheeler, D., Savastano, H.I., & Miller, R.R. Biological significance and posttraining changes in conditioned responding. Eastern Psychological Association. Boston, MA, 2002.
- *Amundson, J.C., Stout, S.C., & Miller, R.R. Interaction of trial order and retention interval in a human contingency judgment task. Eastern Psychological Association. Baltimore, MD, 2003.
- *Amundson, J.C., Urushihara, K., & Miller, R.R. Generality of posttraining deflation and inflation of comparator stimuli on conditioned inhibition. Pavlovian Society. Bloomington, IN, 2003.
- Arcediano, F., *Escobar, M., & Miller, R.R. Responding to a blocking stimulus is reduced by compound reinforced training. International Comparative Cognition Society. Melbourne, FL, 2003.
- Arcediano, F., Matute, H., & Miller, R.R. Competition between antecedent and between subsequent stimuli. Eastern Psychological Association. Baltimore, MD, 2003.
- *Casteel, B., *Escobar, M., & Miller, R.R. The latent inhibition effect: Much more than the effects of preexposure. American Psychological Society. Atlanta, GA, 2003.
- *Escobar, M., Arcediano, F., & Miller, R.R. Irrelevant stimulation interpolated between preexposure and conditioning disrupts latent inhibition in a conditioned fear preparation with rat subjects. International Comparative Cognition Society. Melbourne, FL, 2003.
- *Escobar, M., & Miller, R.R. Temporal parameters in retroactive interference. Eastern Psychological Association. Baltimore, MD, 2003.
- Miller, R.R. Biologically significant cues are relatively immune to cue competition. International Comparative Cognition Society. Melbourne, FL, 2003.
- Miller, R.R. Lessons that I learned at Rutgers. Rutgers University Conference on the History of Psychology, New Brunswick, NJ, 2003.
- Miller, R.R., & *Escobar, M. Modeling associative interference beyond conventional cue competition. Midwestern Psychological Association. Chicago, II, 2003. (Invited address.)
- Miller, R.R., & Pineňo, O. Predictors and causes: What's the difference? Psychonomic Society. Vancouver, BC, Canada, 2003. (Invited symposium presentation.)
- Miller, R.R., & Stout, S.C. Sometimes competing retrieval (SOCR) of Pavlovian responding: A mathematical implementation of the extended comparator hypothesis. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2003. (Keynote address.)
- Miller, R.R., & Stout, S.C. Sometimes competing retrieval (SOCR) of Pavlovian responding: A mathematical implementation of the extended comparator hypothesis. Pavlovian Society. Bloomington, IN, 2003. (Invited address.)
- Pineňo, O., Denniston, J.C., & Miller, R.R. Predictive and causal learning in humans are differentially sensitive to stimulus competition. Spanish Comparative Psychology Society, Barcelona, Spain, 2003.
 - Pineňo, O., & Miller, R. R. Signaling a change in cue-outcome relations in human associative

- learning. Spanish Comparative Psychology Society, Barcelona, Spain, 2003.
- Pineňo, O., & Miller, R. R. Spontaneous recovery of responding following forward and backward blocking: The role of within-compound associations. Spanish Comparative Psychology Society, Barcelona, Spain, 2003.
- *Platt, T., *Escobar, M., & Miller, R.R. Dissociation of the effects of interpolating a retention interval versus instructions between preexposure and conditioning in a human unmasked latent inhibition paradigm. International Comparative Cognition Society. Melbourne, FL, 2003.
- Stout, S., & Miller, R.R. Sometimes competing retrieval (SOCR): A model of Pavlovian conditioning. Eastern Psychological Association. Baltimore, MD, 2003.
- Urushihara, K., *Wheeler, D. *Francis, J., & Miller, R.R. Influence of intervening retention interval on outcome pre- and post-exposure effects: Primacy and recency effects in outcome exposure paradigm. Eastern Psychological Association. Baltimore, MD, 2003.
- *Wheeler, D.S., Stout, S.C., *Scalli, L., & Miller, R.R. A super-latent inhibition effect observed in a conditioned fear preparation. Eastern Psychological Association. Baltimore, MD, 2003.
- *Amundson, J.C., *Gutter, D., & Miller, R.R. Inflation of training excitors in Pavlovian conditioned inhibition. Eastern Psychological Association. Washington, DC, 2004.
- *Amundson, J.C., & Miller, R.R. Inflation of the comparator stimulus in Pavlovian conditioned inhibition enhances inhibition. Society of the Quantitative Analysis of Behavior, Boston, MA, 2004.
- *Amundson, J.C., & Miller, R.R. Spatial contiguity facilitates cue competition and interference. Pavlovian Society. Baltimore, MD, 2004.
- Beckers, T., De Houwer, J., & Miller, R.R. Outcome additivity and relative outcome intensity as independent modulators of forward blocking in human and rat causal learning. Conference on Human Contingency Learning. Ardennes, Belgium, 2004. (Invited address.)
- Beckers, T., Miller, R.R., & De Houwer, J. Reasoning rats: Forward blocking in animal conditioning is sensitive to constraints of causal attribution. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2004.
- Beckers, T., Miller, R.R., & De Houwer, J. Is a connectionist model of cue selection feasible? Limiting evidence from humans and animals. International Conference on Social Connectionism. Brussels, Belgium, 2004.
- Beckers, T., Miller, R.R., & De Houwer, J. Reasoning rats: Inferential processes in animal Pavlovian conditioning. International Conference on Thinking. Leuven, Belgium, 2004.
- Beckers, T., Miller, R.R., De Houwer, J., Urushihara, K. Reasoning rats: Forward blocking in animal conditioning is sensitive to constraints of causal attribution. Belgian Psychological Society. Brussels, Belgium, 2004.
- Matute, H., Miller, R.R., & *Vadillo, M.A. Animal conditioning and human causal learning: similarities and differences. European Neuroscience Society. Lisbon, Portugal, 2004.

- Miller, R.R., & Pineno, O. Applying the comparator hypothesis to predictive and causal learning by humans. Conference on Human Contingency Learning. Ardennes, Belgium, 2004. (Invited address.)
- Miller, R.R., & Stout, S.C. Sometimes competing retrieval (SOCR) of Pavlovian responding: A mathematical implementation of the extended comparator hypothesis. Society for the Quantitative Analysis of Behavior. Boston, MA, 2004. (Invited address)
- Miller, R.R., Stout, S.C., *Amundson, J.C. Trial order and contingency judgement. Psychonomic Society. Minneapolis, MN, 2004.
- Pineno, O., De la Casa, L.G., Lubow, R.E., & Miller, R.R. Some determinants of latent inhibition in humans. Conference on Human Contingency Learning. Ardennes, Belgium, 2004. (Invited address.)
- Pineno, O., De la Casa, L.G., Lubow, R.E., & Miller, R.R. Some determinants of latent inhibition in humans. International Society for Comparative Psychology/Spanish Comparative Psychology Society. Oviedo, Spain, 2004.
- Pineno, O., *Fuss, J., & Miller, R.R. Attenuation of forward and backward blocking achieved by extending posttraining of the blocking association. Eastern Psychological Association. Washington, DC, 2004.
- Pineno, O., & Miller, R.R. Spontaneous recovery of responding following forward and backward blocking: The role of within-compound associations. International on Comparative Cognition Society. Melbourne, FL, 2004.
- Pineno, O., Stout, S., *Fuss, J., & Miller, R.R. Attenuation of forward and backward blocking achieved by extending posttraining of the blocking association. International Society for Comparative Psychology/Spanish Comparative Psychology Society, Oviedo, Spain, 2004.
- *Urcelay, G.P., *Karmin, M.D., & Miller, R.R. Counteractive effects of overshadowing and degraded contingency. Eastern Psychological Association. Washington, DC, 2004.
- *Urcelay, G., *Lipatova, O., & Miller, R.R. A comparator view of Pavlovian and differential inhibition. Pavlovian Society. Baltimore, MD, 2004.
- Urushihara, K., & Miller, R.R. Overshadowing and the outcome-alone exposure effect counteract each other. Society for the Quantitative Analysis of Behavior. Boston, MA, 2004.
- Urushihara, K., Pineno, O., Vadillo, M., & Miller, R.R. Nonconservation of reinforcement value across competing stimuli. Pavlovian Society. Baltimore, MD, 2004.
- Urushihara, K., *Wheeler, D., & Miller, R.R. Superconditioning in a conditioned taste aversion situation. Eastern Psychological Association. Washington, DC, 2004.
- *Wheeler, D., *Lipatova, O., & Miller, R.R. Primacy effects induced by temporal or physical shifts can be attenuated by rehearsal of recent learning. Eastern Psychological Association. Washington, DC, 2004.
 - *Wheeler, D., & Miller, R.R. Blocking between subsequent events is not a product of a

- permanent deficit. Pavlovian Society. Baltimore, MD, 2004.
- *Wheeler, D.S., & Miller, R.R. Recovery from blocking between subsequent events. Society for the Quantitative Analysis of Behavior. Boston, MA, 2004.
- *Amundson, J.C., Pineno, O., & Miller, R.R. An inhibitory within-compound association attenuates overshadowing. Eastern Psychological Association. Boston, MA, 2005.
- *Amundson, J.C., *Wheeler, D.S., & Miller, R.R. Similarity between target and interfering associations facilitates proactive interference in rats. Psychonomic Society. Toronto, Canada, 2005.
- Beckers, T., Miller, R.R., De Houwer, J., & Urushihara, K. Reasoning rats: Inference-like processing of information concerning effect additivity and ceilings. International Comparative Cognition Society. Melbourne, FL, 2005.
- *Lipatova, O., *Vadillo, M.A., & Miller, R.R. Recency to primacy shift with respect to comparator value. Eastern Psychological Association. Boston, MA, 2005.
- Miller, R.R. Stimulus interaction: Competition between stimuli trained together and interference between stimuli trained apart. Conference on Basic and Applied Learning. Santiago, Chile, 2005. (Invited address.)
- Miller, R.R., & *Escobar, M. The wide world of stimulus interaction. Eastern Psychological Association. Boston, MA, 2005. (Invited address.)
- Miller, R.R., & Stout S.C. Sometimes competing retrieval: A mathematical implementation of the extended comparator hypothesis. Conference on Associative Learning Today. Hamilton, Ontario, Canada, 2005. (Invited address.)
- Miller, R.R., *Urcelay, G.P., Urushihara, K. Laws of learning appear to differ for elemental cues and compound cues. Psychonomic Society. Toronto, Canada, 2005.
- Pineno, O., *Amundson, J.C., & Miller, R.R. An inhibitory within-compound association attenuates overshadowing. Spanish Comparative Psychology Society, Madrid, Spain, 2005.
- *Urcelay, G.P., *Cintron, S., & Miller, R.R. Extinction is influenced by the intertrial interval during nonreinforced presentations of the CS. Eastern Psychological Association. Boston, MA, 2005.
- *Urcelay, G.P., & Miller, R.R. Nonadditive effects of overshadowing and degraded contingency. International Comparative Cognition Society. Melbourne, FL, 2005.
- *Urcelay, G.P., Urushihara, K., & Miller, R.R. Counteraction between overshadowing and outcome-alone exposure effects. Spanish Comparative Psychology Society. Madrid, Spain, 2005.
- Urushihara, K., *Karmin, M., & Miller, R.R. Where has the fear gone? Cue competition is not a result of the division of a limited resource. Eastern Psychological Association. Boston, MA, 2005.
- Urushihara, K., *Lipatova, O., & Miller, R.R. Partial reinforcement and CS duration effects counteract overshadowing in select situations. Spanish Comparative Psychology Society. Madrid,

- Urushihara, K., & Miller, R.R. Investigation of the interaction between overshadowing and US-alone exposure treatment in rats. Japanese Society for Animal Psychology, 2005.
- *Vadillo, M.A., *Lipatova, O., *Wheeler, D.S., & Miller, R.R. Subsequently trained blocking stimuli are subject to recency-to-primacy shifts. Spanish Comparative Psychology Society. Madrid, Spain, 2005.
- *Wheeler, D.S., *Hessner, R.J., & Miller, R.R. Counteraction between retroactive interference and context-mediated treatments that impair conditioned responding. Eastern Psychological Association. Boston, MA, 2005.
- *Amundson, J.C., *Lipatova, O., & Miller, R. R. Similarity in spatial origin of information facilitates cue competition and interference. Eastern Psychological Association. Baltimore, MD, 2006.
- *Amundson, J.C., & Miller, R.R. CS-US temporal relations in blocking. Pavlovian Society. Philadelphia, PA, 2006.
- Beckers, T., *Wheeler, D.S., Miller, R.R., & De Houwer, J. Does fear conditioning reflect causal reasoning in rats? Symposium on Learning Psychology. Ghent, Belgium, 2006.
- Beckers, T., *Wheeler, D.S., Miller, R.R., & De Houwer, J. Does fear conditioning in rats rely on causal reasoning? International Australian Learning Group Conference. Magnetic Island, Australia, 2006.
- Guez, D., & Miller, R.R. Blocking and pseudo-blocking: The reply of Rattus norvegicus to Apis mellifera. International Australian Learning Group Conference. Magnetic Island, Australia, 2006.
- Guez, D., & Miller, R.R. Blocking and pseudo-blocking: The reply of Rattus norvegicus to Apis mellifera. Pavlovian Society. Philadelphia, PA, 2006.
- *Lipatova, O., *Urcelay, G.P., & Miller, R.R. Extinction in the presence of an excitor. Eastern Psychological Association. Baltimore, MD, 2006.
- Miller, R.R., & *Wheeler, D.S. Contrasting reduced overshadowing and forward blocking. Psychonomic Society. Houston, TX, 2006.
- *Orinstein, A.J., *Urcelay, G.P., Miller, R.R. Nonadditivity of Pavlovian and explicitly unpaired inhibition treatments. Eastern Psychological Association. Baltimore, MD, 2006.
- *Urcelay, G.P., *Amundson, J.C., & Miller, R.R. Similarity of cues and contextual stimuli influences proactive interference. Spanish Comparative Psychology Society. Malaga, Spain, 2006.
- *Urcelay, G.P., & Miller, R.R. Spacing extinction trials attenuates renewal and spontaneous recovery. International Comparative Cognition Society. Melbourne, FL, 2006.
- *Urcelay, G.P., & Miller, R.R. The role of the context in extended reinforced training. Pavlovian Society. Philadelphia, PA, 2006.

- *Urcelay, G.P., *Perelmuter, O., *Hessner, R.J., & Miller, R.R. Pavlovian backward conditioned inhibition in humans: Summation and retardation tests. Eastern Psychological Association. Baltimore, MD, 2006.
- Urushihara, K., & Miller, R.R. Timescale invariance in a compound conditioning situation: Partial reinforcement and CS duration effects counteract overshadowing only in select situations. Pavlovian Society. Philadelphia, PA, 2006.
- Urushihara, K., & Miller, R.R. Where has the fear gone?: An experimental analysis of the mechanism underlying cue competition. International Society for Comparative Psychology. Christchurch, New Zealand, 2006.
- *Wheeler, D.S., Beckers, T., Miller, R.R. The effect of subadditive pre-training on forward blocking in rats: Limits on generalization. Eastern Psychological Association. Baltimore, MD, 2006.
- *Wheeler, D.S., Beckers, T., Miller, R.R. The effect of subadditive pre-training on forward blocking in rats depends on generalization. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2006.
- *Wheeler, D.S., & Miller, R.R. Contrasting reduced overshadowing and forward blocking. Pavlovian Society. Philadelphia, PA, 2006.
- *Witnauer, J.E., & Miller, R.R. Degraded Contingency Revisited: Posttraining Extinction of a Cover Stimulus Attenuates a Target Stimulus' Excitatory Behavioral Control. Pavlovian Society. Philadelphia, PA, 2006.
- *McConnell, B.L., *Amundson, J.C, & Miller, R.R. Associative interference in Pavlovian conditioning: A function of similarity. Eastern Psychological Association. Philadelphia, PA, 2007.
- *McConnell, B.L., *Wheeler, D.S., *Urcelay, G.P., & Miller, R.R. Protection from latent inhibition provided by a conditioned inhibitor. Pavlovian Society. Austin, TX, 2007.
- Miller, R.R., & *Wheeler, D.S. Interactions between competing stimuli: Confirmation of some surprising predictions of the SOCR model of Pavlovian responding (a mathematical implementation of the extended comparator hypothesis). Society for the Quantitative Analysis of Behavior. San Diego, CA, 2007. (Invited address.)
- Miller, R. R., & *Wheeler, D.S. When a single cue has multiple competing stimuli: Confirmation of some surprising predictions of the SOCR model of Pavlovian responding. Pavlovian Society. Austin, TX, 2007. (Invited address.)
- *Sissons, H.T., Guez, D., & Miller, R.R. Blocking and pseudoblocking: The reply of Rattus norvegicus to Apis mellefera. Eastern Psychological Association. Philadelphia, PA, 2007.
- *Sissons, H.T., Guez, D., & Miller, R.R. Blocking and pseudoblocking: The reply of Rattus norvegicus to Apis mellefera. International Comparative Cognition Society. Melbourne, FL, 2007.
- *Urcelay, G.P., & Miller, R.R. A comparator view of the overtraining effect. International Comparative Cognition Society. Melbourne, FL, 2007.
 - *Urcelay, G.P., & Miller, R.R. Different ways of enhancing extinction and alleviating recovery.

- Society for Neuroscience. San Diego, CA, 2007.
- *Urcelay, G.P., *Orinstein, A., & Miller, R.R. When more is less: Increases in number of reinforced trials result in decreases in conditioned responding. Eastern Psychological Association. Philadelphia, PA, 2007.
- *Urcelay, G.P., *Sissons, H.T., & Miller, R.R. Retrospective revaluation and mediated extinction in Pavlovian fear conditioning. Pavlovian Society. Austin, TX 2007.
- *Urcelay, G.P., *Witnauer, J.E, & Miller, R.R. Parallels between second-order conditioned excitation and conditioned inhibition. Psychonomic Society. Long Beach, CA, 2007.
- Urushihara, K., *Grossman, J., & Miller, R.R. Backward blocking in first-order conditioning. Eastern Psychological Association. Philadelphia, PA, 2007.
- Urushihara, K., & Miller, R.R. Backward blocking in first-order conditioning. Psychonomic Society. Long Beach, CA, 2007.
- Urushihara, K., *Wheeler, D.S., *Amundson, J.C., & Miller, R.R. An experimental analysis of superconditioning in human contingency judgment. Japanese Psychological Association. Tokyo, Japan, 2007.
- *Wheeler, D.S., & Miller, R.R. Contrasting reduced overshadowing and forward blocking. Eastern Psychological Association. Philadelphia, PA, 2007.
- *Witnauer, J.E., *Wheeler, D.S., & Miller, R.R. Degraded contingency revisited: Posttraining extinction of a cover stimulus attenuates a target cue's behavioral control. Eastern Psychological Association. Philadelphia, PA, 2007.
- Jozefowiez, J., & Miller, R.R. Economic factors influence human temporal judgements in a temporal bisection task. Society for the Quantitative Analysis of Behavior. Chicago, III, 2008.
- Jozefowiez, J., & Miller, R.R. Inhibition of delay in fear conditioning. Pavlovian Society. New York, NY, 2008.
- Jozefowiez, J., Staddon, J.E.R., & Miller, R.R. A behavioral account of metacognition in animals. International Comparative Cognition Society. Melbourne, FL, 2008.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contrasting AAC and ABC renewal: The role of contextual associations. Pavlovian Society. New York, NY, 2008.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Some determinants of second-order conditioning. Eastern Psychological Association. Boston, MA, 2008.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. The role of CS-context and context-US associations in extinction. International Society for Comparative Psychology. Beunos Aires, Argentina, 2008.
- *McConnell, B.L., Urushihara, K., & Miller, R.R. Contrasting predictions of the extended comparator hypothesis and modified SOP. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2008.

- *McConnell, B.L., *Wheeler, D.S., *Urcelay, G.P., & Miller, R.R. Protection from latent inhibition provided by a conditioned inhibitor. Eastern Psychological Association. Boston, MA, 2008.
- Miller, R.R. Expression of knowledge. Spanish Comparative Psychology Society. Bilbao, Spain, 2008. (Keynote address.)
 - Miller, R.R. Time and time again. Psychonomic Society. Chicago, IL, 2008.
- Miller, R.R. The error of total error reduction. Society of Experimental Psychologists. Bloomington, IN, 2008. (Invited address.)
- Miller, R. R. Why evolution selected for limited retrieval rather than acquisition. Congress on Ethology and Comparative Psychology. Santiago, Chile, 2008. (Invited address.)
- Miller, R.R., & Molet, M. Navigating through life using spatiotemporal maps: Data from hairy rats and hairless apes. Invited symposium contribution.' Psychonomic Society. Chicago, IL, 2008.
- Miller, R.R., *Urcelay, G.P., & *Witnauer, J.E. There is more to acquired behavior than acquisition. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2008. (Keynote address.)
- Miller, R.R., & *Witnauer, J.E. The error of total error reduction. Psychonomic Society. Chicago, IL, 2008.
- Molet, M., & Miller, R.R. Integration of cognitive maps in humans. International Comparative Cognition Society. Melbourne, FL, 2008.
- Molet, M., & Miller, R.R. Integration of cognitive maps in humans. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2008.
- Molet, M., Miller, R.R., & Zentall, T.R. Relative judgments affect assessments of stimulus duration in humans. Eastern Psychological Association. Boston, MA, 2008.
- *Sissons, H.T., *Urcelay, G.P., & Miller, R.R. Overshadowing and CS duration: Counteraction and the role of within-compound associations on behavior after posttraining extinction. Eastern Psychological Association. Boston, MA, 2008.
- Unrod, M., Drobes, D., Stasiewicz, P., Ditre, J., Armstrong, G., Bouton, M., Miller, R., Niaura, R., & Brandon, T. Key decision-points in conducting cue-exposure therapy for smoking cessation. Society for Research on Nicotine and Tobacco. Portland, OR, 2008.
- *Urcelay, G.P., *Orinstein, A., & Miller, R.R. Double dissociation of two functional roles of the context in Pavlovian fearing condition. Eastern Psychological Association. Boston, MA, 2008.
- Urushihara, K., & Miller, R.R. Backward blocking in first-order conditioning with rats. International Society for Comparative Psychology. Buenos Aires, Argentina, 2008.
- *Witnauer, J.E., *Laborda, M.A., & Miller, R.R. Some determinants of second-order conditioning. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2008.

- *Witnauer, J.E., *Laborda, M.A., & Miller, R.R. Some determinants of second-order conditioning. International Society for Comparative Psychology. Buenos Aires, Argentina, 2008.
- *Witnauer, J.E., *Sissons, H.T., & Miller, R.R. Spontaneous recovery of excitation and inhibition. International Comparative Cognition Society. Chicago, IL, 2008.
- *Witnauer, J.E., *Urcelay, G.P., & Miller, R.R. Reduced blocking as a result of increasing the number of blocking cues. Eastern Psychological Association. Boston, MA, 2008.
- *Witnauer, J.E., *Urcelay, G.P., & Miller, R.R. Two blocking stimuli are less effective than one blocking stimulus. American Psychological Association. Boston, MA, 2008.
- Escobar, M., Miller, R.R., & Suits, W.T. Interferencia retroactiva: Una perspectiva comparativa (Retroactive interference: A comparative perspective). 2nd National Psychology Conference COLPSIC and 1st International Psychology Conference COLPSIC-ASCOFAPSI. Bogota, Colombia, 2009. (Invited address).
- Jozefowiez, J., *Witnauer, J.E., * Miller, R.R. Paradoxical timing in fear conditioning. Pavlovian Society. Burlington, VT, 2009.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contrasting AAC and ABC renewal: The role of context associations. Eastern Psychological Association. Pittsburgh, PA, 2009.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contrasting overexpectation and extinction. International Comparative Cognition Society. Melbourne, FL, 2009.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contextual associations in extinction. International Comparative Cognition Society. Melbourne, FL, 2009.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Modeling anxiety disorders: S-R associations, their extinction and relapse. International Comparative Cognition Society. Boston, MA, 2009.
- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Modeling conditioned fears without recall of causes: Stimulus-response associations, their extinction, and recovery. Pavlovian Society. Burlington, VT, 2009.
- *McConnell, B.L., & Miller, R.R. Protection from and reemergence of extinction. Pavlovian Society. Burlington, VT, 2009.
- *McConnell, B.L., Urushihara, K., *Tanaka, Y., & Miller, R.R. A novel means of differentiating between accounts of retrospective revaluation. International Comparative Cognition Society. Boston, MA, 2009.
- *McConnell, B.L., Urushihara, K., & Miller, R.R. Contrasting models of retrospective revaluation. Eastern Psychological Association. Pittsburgh, PA, 2009.
- *Miguez, G., Molet, M., & Miller, R.R. Physical and temporal contexts can disambiguate temporal information. Pavlovian Society. Burlington, VT, 2009.
 - *Miguez, G., *Sissons, H., & Miller, R.R. Second-learned associations fade faster than first-

- learned associations. Eastern Psychological Association. Pittsburgh, PA, 2009.
- Miller, R.R. Evolution as the cornerstone of contemporary psychological science. American Psychological Association. Toronto, Ontario, Canada. (Invited address.)
- Miller, R.R., & *Laborda, M. Minimizing recovery from extinction. Pavlovian Society. Burlington, VT, 2009. (Invited address.)
- Miller, R.R., & *Witnauer, J.E. Cue interactions: The role of within-compound associations. Psychonomic Society, Boston, MA 2009.
- Miller, R.R., & *Witnauer, J.E. The role of within-compound associations in cue interactions: Models and data. Duke Symposium on Computational Models of Classical Conditioning. Durham, NC, 2009. (Invited address.)
- *Polack, C.W, Jozefowiez, J., & Miller, R.R. Economic factors determine temporal judgements in a bisection task. Eastern Psychological Association. Pittsburgh, PA, 2009.
- *Polack, C.W., Jozefowiez, J., & Miller, R.R. Economic factors determine human temporal judgements in a bisection task. International Comparative Cognition Society. Melbourne, FL, 2009.
- *Polack, C.W., *Sissons, H.T., & Miller, R.R. Determinants of the overexpectation effect. International Comparative Cognition Society. Melbourne, FL, 2009.
- *Urcelay, G.P., & Miller, R.R. Potentiation and overshadowing in Pavlovian fear conditioning. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2009.
- *Urcelay, G.P., & Miller, R.R. Two functional roles of the context in Pavlovian fear conditioning: A double dissociation. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2009.
- *Witnauer, J.E., *Curtis, E.A., & Miller, R.R. Contrasting overexpectation and extinction. Eastern Psychological Association. Pittsburgh, PA, 2009.
- *Witnauer, J.E., & Miller, R.R. Total error reduction: Data and simulations. International Comparative Cognition Society. Boston, MA, 2009.
- *Laborda, M.A., *Miguez, G., *Witnauer, J.E., & Miller, R.R. Partial reinforcement acquisition deficit: The role of contextual associations. International Comparative Cognition Society, St. Louis, MO, 2010.
- *Laborda, M.A., & Miller, R.R. Additive effect of extinction in multiple contexts and massive extinction in attenuating recovery. International Comparative Cognition Society. Melbourne, FL, 2010.
- *Laborda, M.A., & Miller, R.R. Massive extinction in multiple contexts reduces fear recovery after a delayed context shift. Eastern Psychological Association. New York, NY, 2010.
- *Laborda, M.A., *Polack, C.W., *Miguez, G., & Miller, R.R. Extinction, renewal, and the comparator model. Pavlovian Society. Baltimore, MD, 2010.

- *Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Conditioned suppression is an inverted-U function of footshock intensity. Eastern Psychological Association. New York, NY, 2010.
- *McConnell, B.L., & Miller, R.R. Attenuated deepened extinction with additional conditioned excitors during extinction. International Comparative Cognition Society, St. Louis, MO, 2010.
- *McConnell, B.L., & Miller, R.R. Compound Extinction with Multiple Excitors: A Nonlinear Relationship. Pavlovian Society. Baltimore, MD, 2010.
- *McConnell, B.L., *Laborda, M., & Miller, R.R. Preventing relapse through massive extinction in multiple contexts. Association for Behavioral Analysis International. San Antonio, TX, 2010.
- *McConnell, B.L., & Miller, R.R. Contrasting conditioned inhibition and negative occasion setting. Eastern Psychological Association. New York, NY, 2010.
- *Miguez, G., *Laborda, M.A., & Miller, R.R. Retrospective revaluation of Pavlovian retroactive cue interference. Pavlovian Society. Baltimore, MD, 2010.
- *Miguez, G., *Witnauer, J.E., & Miller, R.R. Role of contextual associations in the Pavlovian partial reinforcement response deficit. Eastern Psychological Association. New York, NY, 2010.
- Miller, R.R. Functional analysis of learning and it failures: The benefits of imperfect retrieval. American Psychological Association. San Diego, CA, 2010. (Invited address.)
- Miller, R.R. Timing in conditioned inhibition: Exactly when does an event not happen? Pavlovian Society. Baltimore, MD, 2010. (Invited address.)
- Miller, R.R., & *Miguez, G. Commonalities among retroactive cue interference and other stimulus interactions in elementary learning situations" Retrospective revaluation, renewal, & spontaneous recovery. Psychonomic Society. St. Louis, MO, 2010.
- Miller, R.R., *Polack, C.W., & *McConnell, B.L. Causal learning in rats. International Comparative Cognition Society. Melbourne, FL, 2010.
- Miller, R.R., *Polack, C.W., & *McConnell, B.L. Causal learning in rats. International Australian Learning Group Conference. Darwin, Australia, 2010.
- Miller, R.R., *Polack, C.W., & *McConnell, B.L. Causal learning in rats. Society of Experimental Psychologists. Philadelphia, PA, 2010.
- Pineno, O., & Miller, R.R. Extinction in multiple contexts: Evidence for rule learning. Eastern Psychological Association. New York, NY, 2010.
- *Polack, C.W., *Miguez, G., & Miller, R.R. Renewal and spontaneous recovery of Pavlovian retroactive cue interference. Pavlovian Society. Baltimore, MD, 2010.
- *Polack, C.W., *Miguez, G., *Witnauer, J.E., & Miller, R.R. Associative history of an extinction context determines benefits/deficits of extinction trial spacing. Eastern Psychological Association. New York, NY, 2010.
 - *Polack, C.W., *Witnauer, J.E., & Miller, R.R. An inverted-U function relating stimulus control

- to footshock intensity. International Comparative Cognition Society. Melbourne, FL, 2010.
- *Witnauer, J.E., *Laborda, M.A., & Miller, R.R. Fear is an inverted-U function of US intensity. Pavlovian Society. Baltimore, MD, 2010.
- *Laborda, M.A., *Miguez, G., & Miller, R.R. Additive effects of spacing extinction trials and spacing extinction session in preventing recovery from extinction. Eastern Psychological Association. Cambridge, MA, 2011.
- *Laborda, M.A., *Miguez, G, & Miller, R.R. Spaced extinction training and recovery from extinction. International Comparative Cognition Society. Seattle, WA, 2011.
- *Laborda, M.A., & Miller, R.R. Minimizing recovery from extinction: Lessons from the experimental laboratory. Congress on the Investigation of Physiological and Experimental Psychology. Mexico City, Mexico, 2011.
- *Laborda, M.A., & Miller, R.R. Towards an enhanced-exposure therapy (EET): Behavioral techniques summate to prevent recovery in an animal model of anxiety. American Psychological Association. Washington, DC, 2011.
- *Laborda, M.A., *Polack, C.W., & Miller, R.R. An extinction context can acquire inhibitory properties: Summation and retardation data. Eastern Psychological Association. Cambridge, MA, 2011.
- *McConnell, B.L., *Miguez, G., *Laborda, M.A., & Miller, R.R. Retroactive cue interference depends on the associative status of the interfering cue. Eastern Psychological Association. Cambridge, MA, 2011.
- *Miguez, G., *Cham, H., & Miller, R.R. Parallels between renewal after blocking and after interference. Psychonomic Society. Seattle, WA, 2011.
- *Miguez, G., *Cham, H., & Miller, R.R. Spontaneous recovery and renewal of conditioned fear after retroactive cue interference in rats. International Comparative Cognition Society. Seattle, WA, 2011.
- *Miguez, G, *Laborda, M.A., *McConnell, B.L., & Miller, R.R. Contextual specificity of latent inhibition and conditioned inhibition. Chilean Congress of Psychology. Santiago, Chile, 2011.
- *Miguez, G., & Miller, R.R. The effect of training in multiple contexts on the renewal of retroactive cue interference. Eastern Psychological Association. Cambridge, MA, 2011.
- Miller, R.R. Presidential Perspectives on Psychology. Eastern Psychological Association. Cambridge, MA, 2011. (Invited address.)
- Miller, R.R., & *Laborda, M.A. Extinction and recovery: Theory, current research, and potential applications. Society for the Quantitative Analysis of Behavior. Denver, CO, 2011. (Invited address.)
- Miller, R.R., *Miguez, G., *Laborda, M.A., *McConnell, B.L., & *Polack, C.W. Understanding the renewal effect: What is context specific? Psychonomic Society. Seattle, WA, 2011.

- *Polack, C.W., *Laborda, M.A., & Miller, R. R. Extinction of Pavlovian conditioned inhibition results in stimulus-specific inhibition. Eastern Psychological Association. Cambridge, MA, 2011.
- *Polack, C.W., *Laborda, M.A., & Miller, R.R. The role of the excitatory context in renewal. International Comparative Cognition Society. Seattle, WA, 2011.
- *Polack, C.W., *Miguez, G., & Miller, R.R. Reduction in retroactive cue interference through delay and context shift. Eastern Psychological Association. Cambridge, MA, 2011.
- Unrod, M., Drobes, D.J., Stasiewicz, R.R., Ditre, J.W., Bouton. M.E., Miller, R.R., Niaura, R.S., & Brandon, T.H. Extinction of cue-provoking craving during cue-exposure therapy for smoking cessation. Society for Research on Nicotine and Tobacco. Toronto, Ontario, Canada, 2011
- *Witnauer, J.E., *Montaglione, E., & Miller, R.R. A concurrent excitor during extinction deepens extinction in a neutral context and attenuates extinction in an excitatory context. Eastern Psychological Association. Cambridge, MA, 2011.
- *Witnauer, J.E., *Wojick, B.M., & Miller, R.R. Conditioned lick suppression is an inverted-U function of US intensity. Eastern Psychological Association. Cambridge, MA, 2011.
- *Laborda, M.A., & Miller, R.R. A symposium: Mechanism of extinction and recovery from extinction. Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.
- *Laborda, M.A., *Polack, C.W., & Miller, R.R. Attenuating the contextual specificity of latent inhibition. Pavlovian Society. New York, NY, 2012.
- *Laborda, M.A., *Polack, C.W., & Miller, R.R. Preventing recovery from CS preexposure. International Comparative Cognition Society. Melbourne, FL, 2012.
- *Laborda, M.A., *Polack, C.W., & Miller, R.R. Stimulus-like roles of contexts in extinction. Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.
- *Laborda, M.A., *Polack, C.W., & Miller, R.R. Stimulus-specific conditioned inhibition and experimental renewal. Eastern Psychological Association. Pittsburgh, PA, 2012.
- *McConnell, B.L., & Miller, R.R. The effects of compound extinction on renewal. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2012.
- *Miguez, G., *Cham, H.X., & Miller, R.R. Analogies between forward blocking and proactive cue interference on context dependency. International Comparative Cognition Society. Melbourne, FL, 2012.
- *Miguez, G., *Mash, L., *Laborda, M.A., & Miller, R.R. Analogies and relations between associative cue interference and cue competition. Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.
- *Miguez, G., *Mash, L., & Miller, R.R. Reduction and enhancement of Pavlovian retroactive cue interference as a function of training in multiple contexts. Pavlovian Society. New York, NY, 2012.

- *Miguez, G., Molet, M., & Miller, R.R. Temporal integration of sensory preconditioning occurs at test. Eastern Psychological Association. Pittsburgh, PA, 2012.
- Miller, R.R., *Miguez, G., *Cham, H.X., *Burney, C., & Molet, M. When does integration of independent temporal maps take place?. International Comparative Cognition Society. Melbourne, FL, 2012.
- Miller, R.R., Molet, M., & *Miguez, G. The temporal coding hypothesis: Temporal relationships as part of associative structure. Conference on Encoding and Memory of Duration. Saint-Remyles-Chevreuse, France, 2012. (Invited address.)
- Miller, R.R., & *Cody, C.W. Parallels between perceptual learning and Pavlovian conditioning: Contrasting conditioned inhibition and second-order conditioning. Psychonomic Society. Minneapolis, MN, 2012.
- Miller, R.R., *Polack, C.W., & *McConnell, B.L. Associative bases of causal learning in rats. Pavlovian Society. New York, NY, 2012. (Invited address.)
- Molet, M., *Miguez, G., & Miller, R.R. When does integration of temporal maps take place? Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.
- Molet, M., *Miguez, G., & Miller, R.R. When does integration of independent temporal maps take place? French Society for the Study of Animal Behavior. Saint-Etienne, France, 2012.
- *Polack, C.W., *Laborda, M.A., & Miller, R.R. The basis of differences among ABA, ABC, and AAC renewal. Eastern Psychological Association. Pittsburgh, PA, 2012.
- *Polack, C.W., & Miller, R.R. Facilitation of within-compound associations. Pavlovian Society. New York, NY, 2012.
- *Polack, C.W., & Miller, R.R. Inhibition and facilitation using Espinet pretraining. International Comparative Cognition Society. Melbourne, FL, 2012.
- *Laborda, M.A., *Schofield, C., *Johnson, E.M., *Schubert, J.R., *George-Denn, D., Coles, M.E., & Miller, R.R. Public speaking fear: Its extinction and return. World Congress of Behavioural and Cognitive Therapies. Lima, Peru, 2013.
- *Mash, L.E., *Miguez, G., *Cham, H., & Miller, R.R. Assessment of physical and temporal context changes in retrieval-induced forgetting. Eastern Psychological Association. New York, NY, 2013.
- *Miguez, G., *Laborda, M.A., & Miller, R.R. Context-shift effects in extinction and latent inhibition. Eastern Psychological Association. New York, NY, 2013.
- Miller, R.R. The application of learning theory: From the laboratory to the real world. Japanese Psychological Association, Sapporo, Japan, 2013. (Keynote address.)
- Miller, R.R. The pervasiveness of contrast effects: Acquired behavior depends on post-acquisition information processing. Japanese Society for Animal Psychology. Tokyo, Japan, 2013.

- Miller, R.R., *Miguez, G., & *Laborda, M.A. Context specificity of ambiguous information. International Comparative Cognition Society. Melbourne, FL, 2013.
- Miller, R.R., Molet, M., *Miguez, G., *Mash, L.E., Craddock, R., & Kosinski, T. Attenuating evaluative conditioning: A theoretical issue with clinical implications. Psychonomic Society. Toronto, Ontario, Canada, 2013.
- Miller, R.R., & Witnauer, J.E. Rescorla and his legacy, with a focus on total-error reduction. Eastern Psychological Association. New York, NY, 2013. (Invited paper)
- *Polack, C.W., *Miguez, G., Molet, M., & Miller, R.R. The associative structure of temporally integrated representations. Eastern Psychological Association. New York, NY, 2013.
- *Mallea, J., *Miguez, G., & Miller, R.R. Context shifts affect interference with conditioned inhibition by latent inhibition. Chilean Psychological Association. Chillan City, Chile, 2014.
- *Miguez, G., *Polack, C.W., *Mash, L., & Miller, R.R. Contextual independence of retrieval-induced forgetting. Chilean Psychological Association, Chillan City, Chile, 2014.
- *Miguez, G., *Soares, J.S., & Miller, R.R. Context shifts affect interference with conditioned inhibition by latent inhibition. Eastern Psychological Association. Boston, MA, 2014.
- *Miguez, G., *Soares, J.S., & Miller, R.R. Contextual specificity of cue pre-exposure's interference with subsequently trained conditioned inhibition. International Society for Comparative Psychology. Bogota, Columbia, 2014.
- Molet, M., Miller, R.R., *Miguez, G., *Mash, L.E., Craddock, P., & Kosinski, T. Attenuating the learning of the affective values of others with memory-suppression techniques. European Association of Social Psychology. Amsterdam, NL, 2014.
- *Polack, C.W., & Miller, R.R. Inhibitory and facilitative perceptual learning. Eastern Psychological Association. Boston, MA, 2014.
- *Soares, J.S., *Polack, C.W., & Miller, R.R. Assessing the inhibition and context accounts of retrieval-induced forgetting. Psychonomic Society. Long Beach, CA, 2014.
- *Soares, J.S., *Polack, C.W., *Miguez, G., & Miller, R.R. Is retrieval-induced forgetting dependent on competition between exemplars? Eastern Psychological Association. Boston, MA, 2014.
- *Miguez, G., & Miller, R.R. The role of associative interference in blocking as assessed by analogies between cue competition and cue interference in context dependency. Eastern Psychological Association. Philadelphia, PA, 2015.
- *Miguez, G., *Soares, J. & Miller, R.R. Contextual specificity of cue pre-exposure's interference with subsequently trained conditioned inhibition. International Society for Comparative Psychology. Bogota, Colombia, 2015.
 - Miller, R.R. Implications of retrospective revaluation for models of learning and memory.

- International Comparative Cognition Society. Melbourne, FL, 2015.
- Miller, R.R. The construct of attention and beyond: Homage to N J Mackintosh. Pavlovian Society. Portland, OR, 2015. Invited address.
- *Polack, C.W., *O'Hara, S.R., & Miller, R.R. A novel assessment of inhibition between conditioned stimuli: Retardation and suppression of cue competition. Eastern Psychological Association. Philadelphia, PA, 2015.
- *Polack, C.W., *O'Hara, S.R., & Miller, R.R. Assessing inhibitory associations between cues produced by inhibitory perceptual learning treatment. Psychonomic Society. Chicago, IL, 2015.
- *Soares, J., *Polack, C.W., & Miller, R.R. Assessment of the context-shift account of retrieval-induced forgetting. Eastern Psychological Association. Philadelphia, PA, 2015.
- Miller, R.R. The role of associative interference in forgetting. East England Associative Learning Society. York, UK, 2016. Invited address.
- Miller, R.R. Sources of forgetting and the fate of forgotten memories. Spanish Society for Comparative Psychology. Barcelona, Spain, 2016. Keynote address.
- Miller, R.R. The comparator hypothesis: An associative model focused on retrieval and expression of acquired information. Dijon Conference on Human Associative Learning. Dijon, France, 2016. Keynote address.
- Miller, R.R. The role of encoded interstimulus intervals in cue competition and associative interference. Experimental Psychology Society. Durham, UK, 2016. Invited address.
- Miller, R.R., & *Polack, C.W. Stepping back from 'persistence and relapse' to see the forest: Determinants of associative interference. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2016. (Invited address.)
- *Perez, R.W., *Polack, C.W., & Miller, R.R. A unified model accounting for stimulus interaction between stimuli trained together or trained apart. Eastern Psychological Association. New York, NY, 2016.
- *Polack, C.W., *Kurian, T., *Chen, F., *Wasserman, J., *O'Hara, S., *Szabo, C., & Miller, R. R. Enhancing retrieval-induced forgetting by increasing competition. Eastern Psychological Association. New York, NY, 2016.
- *Polack, C.W., *O'Hara, S., & Miller, R.R. Associative structure of inhibitory perceptual learning. Pavlovian Society. New York, NY, 2016.
- Witnauer, J.E., & Miller, R.R. Leveling the playing field for comparing models of learning. Conference of Computational Modeling of Classical Conditioning. London, UK, 2016.
- Miller, R.R. A taxonomy of forgetting and the fates of forgotten memories. International Comparative Cognition Society. Melbourne, FL, 2017. Master lecture.
- Miller, R.R. Associative interference in Pavlovian condition. Pavlovian Society. Philadelphia, PA, 2017. A symposium.

- Miller, R.R., & *Polack, C.W. The role of associative interference in 'forgetting' and the fate of forgotten memories. Pavlovian Society. Philadelphia, PA, 2017. Invited lecture.
- Miller, R.R., & *Polack, C.W. Transfer of training. International Comparative Cognition Society. Vancouver, BC, 2017.
- Miller, RR., *Wasserman, J.S., *Polack, C.W., *Casado, C.V., Brunel, M., El Haj, M. Using contextual information to assess the accuracy of eye witness testimony. Psychonomic Society. Vancouver, BC, 2017.
- *Polack, C.W., *Seitz, B.M., & Miller, R.R. Adaptive Memory: Is there a reproductive processing effect? International Comparative Cognition Society. Melbourne, FL, 2017.
- *Polack, C.W., *Wasserman, J.S., Craddock, P., & Miller, R.R. Mediated performance or mediated extinction in sequential second-order conditioning. Eastern Psychological Association. Boston, MA, 2017.
- *Polack, C.W., Craddock, P., *Wasserman, J.S., & Miller, R.R. Mediated performance or mediated extinction in sequential second-order conditioning. Pavlovian Society. Philadelphia, PA, 2017.
- *Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. Associative learning in dementia: Implications for the role of verbal strategies in associative learning. Society for the Quantitative Analysis of Behavior. Denver, CO, 2017.
- *Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. Number of stimuli presentations in the observation of associative learning. Association for Behavior Analysis International. Paris, France, 2017.
- *Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. Spatial contiguity's contribution to the formation of associations between neutral stimuli. Association for Behavioral Analysis International. Denver, CO, 2017.
- *Seitz, B.M., Craddock, P, *Wasserman, J.S., *Polack, C.W., & Miller, R.R. Support for mediated performance over mediated extinction in sequential second-order conditioning. International Comparative Cognition Society. Melbourne, FL, 2017.
- Unrod, M., Drobes, D.J., Sutton, S.K., Brandon, K., Hawk, L., Simmons, V., Meltzer, V., Miller, R.R., & Brandon, T.H. Facilitated extinction training to improve pharmacotherapy for smoking cessation: A pilot feasibility trial. Society For Research On Nicotine and Tobacco. Florence, Italy, 2017.
- *Wasserman, J.S., *Seitz, B.M, *Polack, C.W., & Miller, R.R. Adaptive memory: Is there a reproductive processing effect? Eastern Psychological Association. Boston, MA, 2017.
- *Casado, C., *Pena, T., *Polack, C.W., *Li, P., Craddock, P., Molet, M & Miller, R.R. Mere exposure effect, but no post-peak decrement with added exposures. Eastern Psychological Association. Philadelphia, PA, 2018.

- Miller, R.R., & Polack, C.W. TOTAL PREDICTIVE Error-reduction drives ACQUISITION of associative memories: No!, No!, and No! Pavlovian Society, Iowa City, IA, 2018.
- *Morrissey, D.K., *Tsvetkov, A., *Polack, C.W., *Factor, Z., *Joseph, J., Murphy, R.A., & Miller, R.R. How does the absence of events influence peoples' learning?: The influence of temporal and spatial context on contingency learning during trials without cues or outcomes. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2018.
- *Pena, T., *Polack, C.W., *Berruti, A., *LI, A., *Villemin, Y., Jozefowiez, J., & Miller, R.R. Counterconditioning as a crucible for studying associative interference. Eastern Psychological Association. Philadelphia, PA, 2018.
- *Polack, C.W., *Wasserman, J., *Casado, C., Brunel, M., El Haj, M., & Miller, R.R. Assessment and enhancement of eyewitness testimony. Eastern Psychological Association. Philadelphia, PA, 2018.
- *Prével, A., Rivière, V., Darcheville, J-C., Urcelay, G.P., & Miller, R.R. Excitatory backward second-order conditioning in humans. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2018.
- *Prével, A., Rivière, V., Darcheville, J-C., Urcelay, G.P., & Miller, R.R. Excitatory second-order conditioning in humans using a first-order backward conditioned stimulus: A challenge to the necessity for learning of *prediction* error. Spanish Society for Comparative Psychology. Avila, Spain, 2018.
- *Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. Associative learning in nonverbal autistic children: Verbal processing hypothesized as a mediator of associative learning. Association for Behavioral Analysis International. Miami, FL, 2018.
- *Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. Associative learning in babies : Higher-order conditioning without verbal skills. Association for Behavioral Analysis International. San Diego, CA, 2018.
- *Seitz, B.M., Blaisdell, A.P., Polack, C.W., Miller, R.R. The role of biological significance in human learning & memory. International Society for Comparative Psychology. Los Angeles, CA, 2018.
- *Tsvetkov, A., *Polack, C.W., *Factor, Z.Z., *Joseph, J., *Just, D., Murphy, R.A., & Miller, R.R. How does the absence of both the cue and outcome influence cue-outcome learning? Eastern Psychological Association. Philadelphia, PA, 2018.
- *Tsvetkov, A., *Polack, C.W., *Morrissey, D., Murphy, R.A., & Miller, R.R. Counting vs. timing of intertrial intervals in conditioning. International Comparative Cognition Society. Melbourne, FL, 2018.
- *Berruti, A., Polack, C.W., *Moshchenko, Y., Jozefowiez, J., & Miller, R.R. Contrasting counterconditioning and extinction with respect to renewal. Eastern Psychological Association. New York, NY, 2019.

- Jozefowiez, J., Polack, C.W., *Berruti, A., *Pena, T., & Miller, R.R. Extinction and counterconditioning with and without biologically relevant outcomes. East England Associative Learning Society. York, UK, 2019.
- *Li, A., *Alcaide, D.M., Polack, C.W., *Morrissey, D., Murphy, R.A., & Miller, R.R. Do contingency judgements depend on counting or timing of stimuli presentations? Eastern Psychological Association. New York, NY, 2019.
- *Li, P., Molet, M., Craddock, P., *Osroff, A., Polack, C., & Miller, R. R. Comparing faces and foreign letters in the mere exposure effect. Eastern Psychological Association. New York, NY, 2019.
- *Factor, Z.Z., Polack, C.W., & Miller, R.R. Do visual cues increase attending to gender-congruent stimulus during dichotic listening? Eastern Psychological Association. New York, NY, 2019.
- Miller, R.R. Disengaging dysfunctional memories from behavior: Data, theory, and dogma. Conference on the Attenuation of Emotional Memories. Genk, Belgium, 2019.
- Miller, R.R., & Polack, C.W. ACQUISITION of associative memory is driven by TOTAL PREDICTION error-reduction: No!, No!, and No! International Australian Learning Group Conference. Magnetic Island, Queensland, Australia, 2019.
- Miller, R.R., & Polack, C.W. ACQUISITION of associative memory is driven by TOTAL PREDICTION error reduction. No! No! and No! International Comparative Cognition Society. Melbourne, FL, 2019.
- Miller, R.R., *Li, A., *Tsvetkov, A., *Alcaide, D.M., Witnauer, J.E., *Castiello, S., *Morrissey, D., Polack, C.W., & Murphy, R.A. Contingency learning with A, B, C, and D cell events: Contrasting number of trials with duration of trials. Psychonomic Society. Montreal, Canada, 2019.
- Miller, R.R., *Li, A., *Alcaide, D.M., Witnauer, J.E., *Castiello, S., Polack, C.W., & Murphy, R.A. Contrasting number of trials with duration of trials in contingency learning. Pavlovian Society. Vancouver, Canada, 2019.
- *Alcaide, D.M., *Castiello, S., Witnauer, J.E., *Li, A., *Cook, A., Murphy, R.A., & Miller, R.R. Playing off number of trials against duration of trials in contingency learning: There is a free lunch. Eastern Psychological Association, Boston, MA, 2020.
- *Castiello, S., *Jain, R., Miller, R.R., Witnauer, J.E., & Murphy, R.A. Increasing frequency of low salient absent events enhances learning. Gregynog Associative Learning Symposium, Gregynog, United Kingdom, 2020.
- Miller, R.R., *Castiello, S., Witnauer, J.E., *Cook, A., & Murphy, R.A. Benefitting from increased trial spacing and more training trials without increasing training time: There is a free lunch. International Comparative Cognition Society. Melbourne, FL, 2020. Accepted, scheduled, and prepared, but not delivered due to covid-19.

- *Moshchenko, Y., *Berruti, A.S., *Blattstein, J., Jozefowiez, J., & Miller, R.R. Retroactive interference: Counterconditioning and extinction with and without biologically significant outcomes. Eastern Psychological Association, Boston, MA, 2020.
- *Osroff, A.,*Li, P., Molet, M., Craddock, P., *Livingston, T., & Miller, R.R. The role of positive and negative affect induction on the mere exposure effect: Evidence against a reduced-neophobia account. Eastern Psychological Association, Boston, MA, 2020.
- *Satanovsky, M., *Lux, M.L., Polack, C.W., & Miller, R.R. Retrieval-induced forgetting: Does giving feedback enhance the effect? Eastern Psychological Association, Boston, MA, 2020.
- *Seitz, B.M., & Miller, R.R. Adaptive memory: Parent processing enhances retention. Society for Personality and Social Psychology. San Francisco, CA, 2020.
- *Castiello, S., Browning, M., Miller, R.R., & Murphy, R.A. Lower sensitivity to mutually absent stimuli in schizotypy. Experimental Psychology Society. London, UK, 2021.
- Miller, R.R. Repetition-induced truth effect: Consolidation, reconsolidation, and prediction error. American Psychological Association. Washington, DC (virtual), 2021. [2020 D. O. Hebb Award address.]
- *Chew, S.J., *Castiello, S., Murphy, R.A., Witnauer, J.E., & Miller, R.R. Obtaining the benefit of trial spacing without lengthening the training session. Eastern Psychological Association, New York City, NY, 2022.
- *Elengickal, D.J., Witnauer, J.E., Murphy, R.A., *Castiello, S., & Miller, R.R. Determinants of extinction. Eastern Psychological Association, New York City, NY, 2022.
- *Huang, J., *Silverstein, J., *Woltag, S., Witnauer, J.E., Jozefowiez, J., Miller, R.R. Contrasting interspersed associative interference with proactive and retroactive interference. Eastern Psychological Association, New York City, NY, 2022.
- Miller, R.R. Repetition-induced truth effect in psychological theorizing: 'Learning driven by *prediction* error' as a case study. Society of Experimental Psychologists. Chicago, IL, 2022.
- Miller, R.R. Researcher heuristics as obstacles to our understanding of learning. Society of the Quantitative Analysis of Behavior, Boston, MA, 2022. (Invited address.)
- Miller, R.R. Laboratory to clinic: Dysfunctional behaviors cannot be erased from the behavioral repertoire, but a growing stable of modification techniques collectively can reduce such behavior and impede relapse. Association for Behavioral Analysis International. Boston, MA, 2022. [2022 Invited Skinner Lecture]
- Miller, R.R., *Mccrea, C., *Moshchenko, Y., *Stenstrom, K., Witnauer, J.E., & Jozefowiez, J. Comparing novelty-facilitated extinction with counterconditioning and extinction in cognitive and emotional domains. Eastern Psychological Association, New York City, NY, 2022.

- *Artus, K. P., *Huang, J., *Piliya, R. J., *Castiello, S., Witnauer, J. E., Murphy, R. A., & Miller, R. R. Impact of 'irrelevant' information during intertrial intervals on contingency ratings. Eastern Psychological Association, Boston, MA, 2023.
- *Huang, J., *Powell, J., *Elengickal, D., *Darko, N., Witnauer, J.E., Murphy, R.A., & Miller, R.R. Quantity of interspersed target cue-outcome dyads impacts the influence of intertrial intervals on contingency judgments. Eastern Psychological Association, Boston, MA, 2023.
- Jozefowiez, J., Witnauer, J.E., *Moshchenko, Y., *McCrea, C.M., *Stenstrom, K.A., & Miller, R.R. Renewal in the cognitive and emotional domain: Comparing novelty-facilitated extinction with counterconditioning and extinction. Gregynog Associative Learning Symposium, Gregynog, United Kingdom, 2023.
- Miller, R.R. Generalizing findings in cognitive psychology to situations beyond those examined. Society of Experimental Psychologists. Philadelphia, PA, 2023.
- Miller, R.R., Witnauer, J.E., *Stentstrom, K., *Woltag, S., & Jozefowiez, J. Thumb rules mask qualifiers and boundary conditions in cognitive science as well as everyday life. International Conference on Comparative Cognition. Melbourne, FL, 2023.
- *Jain, R., *Huang, J., *Artus, K., *Castiello, S., Witnauer, J. E., Murphy, R. A., Miller, R. R. How are empty trials processed when learning the association between stimuli? Gregynog Associative Learning Symposium, Gregynog, United Kingdom, 2023.
- *Stenstrom, K., Jozefoweiz, J., *Escaldi, A., *McCrea, C.M., Witnauer, J.E., Miller, R.R. Renewal in the cognitive and emotional domains: Comparing extinction, counterconditioning, and novelty-facilitated extinction of affectively neutral and appetitive target associations. Eastern Psychological Association, Boston, MA, 2023.
- *Woltag, S., Jozefowiez, J., Witnaeur, J.E., *Hope, A., & Miller, R. R. Contrasting latent inhibition, partial reinforcement, and extinction in contingency learning. Eastern Psychological Association, Boston, MA, 2023.

Invited colloquia (in approximate chronological order) given at:

University of Florida, University of Maine, Hollins College, SUNY-Plattsburgh, CUNY-Brooklyn, SUNY-Downstate Medical Center, CUNY-Queens, University of Michigan, SUNY-Binghamton, Memorial University of Newfoundland (Canada), University of Toronto (Canada), Iowa State University, Erindale College (Canada), Cambridge University (UK), University of Milan Medical School (Italy), University of Reading (UK), University of Sussex (UK), University of Birmingham (UK), CUNY-Hunter, University of Wales (UK), Medical School of the University of Lyons (France), Oxford University (UK), University College of London (UK), National Hospital (UK), MRC Applied Psychology Unit (UK), New York University, Binghamton Conference on Ontogeny of Learning and Memory, University of California-Irvine, CUNY-Graduate Center, Fairfield University, SUNY-Stony Brook, University of Pennsylvania Medical School, Cambridge University (UK), Susquehanna University, Kings College, Rutgers University, Utah Conference on State-Dependent Behavior, University of California at Los Angeles, Columbia University, UNED (Spain), University of Cadiz Medical School

(Spain), University of Seville (Spain), SUNY-Binghamton (Biology), Indiana University, Bucknell University, University of Delaware, Hangzhou University (China), Institute of Psychology (Chinese National Academy of Sciences), Beijing University (China), American University, SUNY-Binghamton (Biology Department), University of Cadiz (Spain), University of Seville (Spain), Spanish Comparative Psychology Society, Northwestern University, Kent State University, University of New South Wales (Australia), Purdue University, INSERM 405 Strasbourg (France), University Louis Pasteur School of Medicine (France), University of Deusto (Spain), University of Pennsylvania, Cleveland State University, Rutgers University, Brooklyn College of CUNY, Duke University, University of Santiago de Compostela (Spain), University of the Basque Country (San Sebastian, Spain), University of Barcelona (Spain), University of Granada (Spain), Comprehensive University of Madrid (Spain), Clarion University, University of Seville (Spain), University of New Hampshire, SUNY-Binghamton, McGill University (Canada), University of South Florida University, Canterbury University (New Zealand), University of Waikato (New Zealand), University of Otago (New Zealand), Brown University, Greensboro University, University of North Carolina at Greensboro, Appalachian State University, University of Akron, McMaster University (Canada), McGill University (Canada), Universidad de las Americas (Chile), Syracuse University, Baldwin-Wallace College, University of Seville (Spain), Australian National University, Duke University, Universidad de Chile (Chile), University of Buffalo-SUNY, University of Guadalajara (Mexico), University of Paris Sud (France), Kwansei Gakuin University (Japan), University of New Mexico, SUNY-Brockport, University of Lille (France). Ghent University (Belgium), Catholic University (KU) of Leuven (Belgium), Ruhr University at Bochum (Germany), University of Paris Sud (France), University of York (UK), Exeter University (UK), University of the Basque Country (San Sebastian, Spain), City University of London (UK), University of Oxford (UK), University of Leicester (UK), UNED (Spain), University of Bourgogne (France), State University of New York at Binghamton (EvoS), University of Guadalajara (Mexico), University of Canterbury (New Zealand), University of Otago (New Zealand), University of California at Los Angeles, University of New South Wales (Australia), University of Sydney (Australia), University of Guadalajara (Mexico), Trinity College of the University of Dublin (Ireland), FMI Institute of University of Basel, University of Nottingham.