VITA

Norman E. Spear

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Department of Psychology Binghamton University-SUNY Binghamton NY 13902-6000

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Present Position: Binghamton University, State University of New York

SUNY Distinguished Professor of Psychology, 1974-present Director, Center for Development and Behavioral Neuroscience

Phone: 607-777-2663

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Clinical Professor, Department of Psychiatry Clinical Campus of Upstate Medical Center

Personal: Married; two children, five grandchildren

Education: Northwestern University, Evanston, Illinois, 1959-1963

Ph.D. in Experimental Psychology, 1963 M.S. in Experimental Psychology, 1961

Bowling Green State University, Bowling Green, Ohio, 1955-1959

B.S. in Psychology, 1959 B.S. in Mathematics, 1959

Professional Experience:

SUNY Distinguished Professor of Psychology,

State University of New York at Binghamton, 1974 - 2014

Chairman 1976-1978; Co-Chairman 1989

Director, Center for Development and Behavioral Neuroscience (previously Center for Developmental Psychobiology),

1987-1988; 2000-present

Co-Director/Associate Director, 1988-2000

Clinical Professor, Department of Psychiatry,

Clinical Campus of Upstate Medical Center

Visiting Professor, Oxford University, England, 1973-1974

Visiting Consultant in Psychology, University of Southern California,

January-March, 1971

Professor of Psychology, Rutgers University, 1969-1974

Associate Professor of Psychology, Rutgers University, 1965-1969

Assistant Professor of Psychology, Rutgers University, 1963-1965

Activities and Honors:

Advisory:

Member, National Science Foundation Advisory Panel for Psychobiology: 1972-1975, 1984-1985;

Member, NIMH Psychobiology and Behavior Research Review Committee 1989-1994 (Chairman, 1992-94)

Member, NIDA Research Review Committee, Basic Behavioral Sciences (1996-1999)

Ad-hoc Member of Study Section, Site Visitor or Member of Special Review Committee:

Cognition, Emotion & Personality Res. Rev. Comm., NIMH, 1981;

Basic Neuropsychology Res. Rev. Comm. Subcomm., NIMH, 1984

Psychological Sciences Subcommittee, NIMH, 1984

Basic Neuropsychology Res. Rev. Comm. Subcomm., NIMH, 1984

Psychological Sciences Subcommittee, NIMH, 1986

Site Visit & Special Review Committees, NIH, 1985; NIAAA, 1990, 2002;

NIMH: 1985, 1989 (June, Sept.); 1990 (Feb., May);

1991 (Feb., May, October); Since 1991 served on about 1-3 such study sections each year for federal, state or private granting agencies

Offices Held in National Research Organizations:

International Society for Developmental Psychobiology

President, 1987-1988

Council, 1986-1989

Eastern Psychological Association

President, 1993-1994

Executive Committee, 1993-1995

Program Committee, 1980-1983

Board of Directors, 1981-1984, 1985-1988

Midwestern Psychological Association

President, 1989-1990

Secretary-Treasurer, 1985-1988

Council, 1985-1991

American Psychological Association

President, Division of Behavioral Neuroscience (Div.6), 2002-2003

Board of Scientific Affairs, 2005-2007

Chair, Division 3 Fellows Committee, 1997-1998

Psychonomic Society

Governing Board, 1985-1990

Federation of Behavioral, Psychological and Cognitive Sciences

Board member (1985-1990)

Editorial:

Co-Editor: American Journal of Psychology, 1973-1989

Associate Editor:

Animal Learning & Behavior, 1976-1981;

Hormones and Behavior, 1973-1985;

Learning and Motivation, 1972-1975;

Editorial Board:

Journal of Experimental Processes: Animal Behavior Processes, 1974-1985;

Behavioural Processes: An International Journal of

Comparative and Physiological Processes, 1975-1984;

Behavioral and Neural Biology, 1978-1994

Blackwell Encyclopedic Dictionary of Psychology, 1982-1987;

Developmental Psychobiology, 1987-1999;

Psychobiology, 1997 - 2000;

American Journal of Psychology, 1989 - present;

Neurobiology of Learning and Memory, 1994 - present;

Review of General Psychology, 1997 - present

Ad-hoc consultant for:

Developmental Psychology, Psychology and Aging, Behavioral Neuroscience, Journal of Social Behavior & Personality, Journal of Comparative and Physiological Psychology, Physiology and Behavior, Psychological Review, Psychological Bulletin, British Journal of Psychology, Behavioral Brain Research, Pharmacology, Biochemistry and Behavior, Journal of Abnormal Psychology, American Psychologist, National Science Foundation, National Research Council of Canada, National Institutes of Health.

Other:

Election to Society of Experimental Psychologists
University Award for Excellence in Research, 1994-95
Awarded Howard Crosby Warren Medal from the
Society of Experimental Psychologists, 2001

State University of New York Award for Research and Scholarship, 2005-2006
The Cabeza de Vaca Basin (Mexico) subspecies of the lizard
Sceloporus undulatus was named "Sceloporus undulatus speari"
by its discoverer, Dr. David Chiszar

Senior Research Award from International Society for Developmental Psychobiology, (2012)

Lois B. DeFleur Award for Academic Achievement at Binghamton University, 2013

Major Research Grants:

Simultaneous and successive contrasts in reinforcement.

NIMH: MH 08770, 1963-1964

Contiguity and mediation in verbal learning

NIMH: MH10194, 1964-1965

Performance after a change in reinforcement

NIMH: MH 12064, 1964-1967

Disruption of effects of conditions of reinforcement

NIMH: MH 12064, 1966-1971

Research Scientist Development Award, Type II (salary only)

NIMH: MH 47359, 1969-1974

Memory and retrieval failure in the rat

NIMH: MH 18619, 1970-1973

Memory and retrieval failure National Science Foundation: BNS 74-24194, 1973-1978, \$326,000

Ontogeny, forgetting and retention

NSF: BNS 78-02360, 1978-1981, \$150,000

Alcohol, emotion and state-dependent memory (with Dr. Stephen Lisman)

NIAAA: 5 ROI, AA03141, 1978-1981, \$144,000 (direct costs),

Acute fetal ethanol and behavioral development (with Dr. Juan Molina) ADAMHA Small Grant Program: I ROI AA06605, 1985-1986 \$15,000 (direct costs)

Effects of early experience on responsiveness to ethanol NIAAA: RO1AA10223, 1994-1999, \$748,640 (total costs)

Consequences of acute ethanol exposure during ontogeny (with Dr. Linda Spear) NIAAA: ROI AA06634, 1988-1992, \$186,107 (direct costs) Continuation of NIAAA 1 RO1 AA06634: 1992-1995, \$428,987 (total costs)

Consequences of ethanol as the newborn's first meal NIAAA: R21AA12384, 2000-2002, \$172,603 (total costs)

Stimulus selection and infantile amnesia alleviation

NIMH: R0I MH35219, 1980-1985, \$306,127 (direct costs)
Continuation of NIMH ROI MH 35219: 1985-1990, \$445,061 (direct costs)
MERIT Award for continuation of NIMH RO1 MH35219
1990-1995, \$749,801 (total costs); 1995-2000, \$912,562 (total costs)
Continuation of NIMH ROI MH 35219: 2001-2006, \$1,128,750 (total costs)

Early experience and adolescents' responses to ethanol NIAAA: R21AA12762, 2001-2005, \$449,700 (total costs)

Early ethanol: Analysis and persistence of consequences NIAAA: RO1AA11960, 1998-2003, \$1,003,290 (total costs) Renewal 2004-2009, \$1,161,990 (total costs)

Ontogeny of response to ethanol after prenatal ethanol NIAAA: R01AA015992, 2006-2011, \$1,557,885 (total costs)

Ethanol intake and reinforcement in infant rats
NIAAA: RO1AA13098, 2002-2007, \$1,128,750 (total costs)
Renewal 2008-2013, \$1,688,335 (total costs)

Developmental Exposure Alcohol Research Center, NIAAA: 1P50AA017823, 2009-2014 Ontogeny of response to ethanol after prenatal ethanol, N. Spear:

Main Project III 2009-2010, \$264,887 (total costs, Year 1) 2010-2011, \$290,490 (total costs, Year 2) 2011-2012, \$281,242 (total costs, Year 3) 2012-2013, \$562,484 (anticipated total costs for Years 4-5)

Several intramural grants for research and other scholarly activities (symposia) have been received from Rutgers or SUNY Binghamton through Biomedical Sciences Support Grants, the University Research Council, or similar in-house funding agencies, and 35-40 federal grants for predoctoral and postdoctoral fellowships for students in my laboratory, as well as instrumentation grants, also have been awarded.

Samples of Recent Service on University Committees:

Ad-Hoc Publications Committee

Distinguished Dissertations Committee

Ad-Hoc Committee for Evaluation of the Proposed MA Program in Nursing

Governing Committee for Ph.D. Program in History and Philosophy

of the Social and Behavioral Sciences

Graduate Council

University Personnel Committee

Arts and Sciences Personnel Committee

Graduate Council Budget Committee

Graduate Council Committee on Admissions and Academic Standards

School of Management Senior Personnel Committee

Department of Geography Senior Personnel Committee

Administration Review Committee

Committee on Organized and Sponsored Research Chair, 1978-80

Search Committee for Vice President for Academic Affairs (twice)

Committee on Computer Involvement in the Curriculum

Department of Anthropology Senior Personnel Committee (twice)

Linguistics Program Senior Personnel Committee

Screening and Advisory Committee, Honorary Degrees Program

Review Committee for SUNY Distinguished Professor Awards

Search Committee for Dean of Arts and Sciences and Harpur College Deputy Chairperson, 1981-82

School of Advanced Technology Senior Personnel Committee

Honors Scholars Program

Search Committee for Provost for Graduate Studies and Research Chairman, 1982-83

Biomedical Research Support Grant Committee

University Director, 1987-93

Search Committee for Vice President for Academic Affairs Chairman, 1988-89

President's Strategic Planning Group on Graduate Education and Research Mission, 1988-90

Search Committee for President of SUNY Binghamton

Chairman, 1989-90

Intercollegiate Athletic Board, 1989-present

Presidential Commission on Free Speech and Academic Freedom, 1991-92

Ad-Hoc Review Committee for Women's Basketball Team (re NCAA Violations)
Chairman, 1993

Ad-Hoc Committee for Review of Faculty Research Grant applications Chairman, 1991-present

Advising Committee for Program in Philosophy

and Computer & Systems Sciences (PACSS), 1990-present

University Distinguished Dissertation Committee

Science and Mathematics Division, 1997

Provost's Research Advisory Council, 1997-present

Search Committee for Vice Provost for Graduate Studies & Research Chair. 1998-1999

Search Committee, Athletic Director, 2011

Bibliography Books:

- 1. Flaherty CF, Hamilton LW, Gandelman R, Spear NE (1977) *Learning and Memory*. New York: Rand McNally, 525 pages.
- 2. Spear NE (1978) <u>Processing Memories: Forgetting and Retention.</u> Hillsdale, NJ: Erlbaum, 560 pages.
 - (1980) <u>L'evolution des souvenirs: Oubli et Memoire.</u> Translated by B. Deweer. Paris: MEDSI.
- 3. Spear NE, Campbell BA, Eds. (1979) <u>Ontogeny of Learning and Memory</u>. Hillsdale, NJ: Erlbaum, 321 pages.
- 4. Spear NE, Miller RR, Eds. (1981) *Information Processing in Animals: Memory Mechanisms*. Hillsdale, NJ: Erlbaum, 390 pages.
- 5. Isaacson RL, Spear NE, Eds. (1982) <u>The Expression of Knowledge</u>. NY: Plenum Press, 423 pages.
- 6. Kail R, Spear NE, Eds. (1984) <u>Comparative Perspectives on the Development of Memory.</u> Hillsdale, NJ: Erlbaum, 374 pages.
- 7. Miller RR, Spear NE, Eds. (1985) *Information Processing in Animals: Conditioned Inhibition*. Hillsdale, NJ: Erlbaum.
- 8. Spear NE, Riccio DC (1994) *Memory: Phenomena and Principles*. Needham Heights, MA: Allyn & Bacon.
- 9. Spear NE, Spear LP, Woodruff M (Eds.) (1995) <u>Neurobehavioral Plasticity: Learning,</u> <u>Development and Response to Brain Insults.</u> Hillsdale, NJ: Erlbaum.
- 10. Hannigan JH, Goodlett C, Spear LP, Spear NE (1999) *Alcohol and Alcoholism: Brain and Development*. Hillsdale, NJ: Erlbaum.

Invited Chapters:

- 1. Spear NE (1970) Verbal learning and retention. In M.R. D'Amato, Ed., *Experimental Psychology: Methodology, Psychophysics, and Learning*. New York: McGraw-Hill, 543-638.
- Spear NE (1971) Forgetting as retrieval failure. In W.K.Honig & P.H.R. James, Eds., <u>Animal Memory.</u> New York: Academic Press, 45-109.
- 3. Spear NE (1976) Retrieval of memories: A psychobiological approach. In W.K. Estes, Ed., <u>Handbook of Learning and Cognitive Processes, Vol. IV, Attention and Memory.</u> Hillsdale, NJ: Erlbaum, 17-90.
- Spear NE, *Parsons P (1976) Analysis of a reactivation treatment: Ontogenetic determinants of alleviated forgetting. In D. Medin, W. Roberts & D. Davis, Eds., <u>Processes in</u> Animal Memory. Hillsdale, NJ: Erlbaum, 135-166.

- 5. Spear NE (1979) Experimental analysis of infantile amnesia. In JF Kihlstrom & FJ Evans, Eds., *Functional Disorders of Memory*. Hillsdale, NJ: Erlbaum, 75-101.
- *Concannon JT, *Smith GJ, Spear NE, Scobie SR (1979) Drug cues, drug states, and infantile amnesia. In F.C. Colpaert & J.A. Rosencrans, Eds., <u>First International</u> <u>Symposium on Drugs as Discriminative Stimuli.</u> Amsterdam: Elsevier, 353-396.
- 7. Spear NE (1979) Memory storage factors in infantile amnesia. In G. Bower, Ed., <u>The Psychology of Learning and Motivation</u>, <u>Vol. 13.</u> New York: Academic Press, 91-154.
- 8. Spear NE, Gordon WC (1981) Sleep, dreaming and the retrieval of memories. In W. Fishbein, Ed., *Recent Advances in Sleep Research, Vol. IV, Learning and Memory.* New York: Spectrum Publications, 183-203.
- 9. Spear NE (1981) Extending the domain of memory retrieval. In N.E. Spear & R. R. Miller, Eds., *Information Processing in Animals: Memory Mechanisms*. Hillsdale, NJ: Erlbaum, 341-378.
- 10. Spear NE, Isaacson RL (1982) The problem of expression. In R.L. Isaacson & N. E. Spear, Eds., *The Expression of Knowledge*. New York: Plenum Press, 1-32.
- 11. Isaacson RL, Spear NE (I982) Neural and mental capacities. In R.L. Isaacson & N. E. Spear, Eds., *The Expression of Knowledge*. New York: Plenum Press, 391-417.
- 12. Spear NE (1984) The future study of learning and memory from a psychobiological perspective. In V. Sarris & A. Parducci, Eds., <u>Perspectives in Psychological Experimentation</u>. Hillsdale, NJ: Erlbaum, 87-103.
- 13. Spear NE, Mueller CW (1984) Consolidation as a function of memory retrieval. In H. Weingartner & E.S. Parker, Eds., *Memory Consolidation: Toward a Psychobiology of Cognition*. Hillsdale, NJ: Erlbaum, 111-147.
- 14. Spear NE, *Kucharski D (1984) Ontogenetic differences in the processing of multi-element stimuli: Potentiation and overshadowing. In H. Roitblatt, T. Bever & H. Terrace, Eds., *Animal Cognition*. Hillsdale, NJ: Erlbaum,545-567.
- 15. Spear NE, *Kucharski D (1984) The ontogeny of stimulus selection: Developmental differences in what is learned. In R. Kail & N.E. Spear, Eds., <u>Comparative</u>

 <u>Perspectives on the Development of Memory.</u> Hillsdale, NJ: Erlbaum, 227-252.
- Spear NE (1984) Ecologically determined dispositions control the ontogeny of learning and memory. In R. Kail & N.E. Spear, Eds., <u>Comparative Perspectives on the</u> <u>Development of Memory</u>. Hillsdale, NJ: Erlbaum, 325-358.
- 17. Spear NE, *Kucharski D, *Hoffmann H (1985) Contextual influences on conditioned taste aversion in the developing rat. In N. Braverman & P. Bronstein, Eds., <u>Experimental Assessments and Clinical Applications of Conditioned Food Aversions</u>. New York: NY Academy of Sciences, 42-53.
- 18. Spear NE (1985) Psychobiological and cognitive studies relevant to the issue of a unitary memory system. In T. M.Schlecter & M.P. Toglia, Eds., *New Directions in Cognitive Sciences*. Norwood, NJ: Ablex, 33-46.

- 19. Spear NE, Molina JC (1987) The role of sensory modality in the ontogeny of stimulus selection. In N. Krasnegor, E.M. Blass, M.A. Hofer & W.P. Smotherman, Eds., <u>Perinatal Development: A Psychobiological Perspective</u>. NY: Academic Press, 85-110.
- 20. Spear NE, Kraemer PJ, Molina JC, *Smoller DE (1988) Developmental change in learning and memory: Infantile dispositions for "unitization". In J. Delacour & J.C.S. Levy, Eds., Systems with Learning and Memory Abilities: Proceedings of the Workshop Held in Paris, June 15-19, 1987. Amsterdam: Elsevier/North Holland, 27-52.
- 21. Spear NE, Miller JS (1989) Ontogeny of spontaneous alternation behavior. In W. Dember & C. Richman, Eds., *Spontaneous Alternation Behavior*. New York: Springer-Verlag Press, 131-144.
- 22. Spear NE, Miller JS, *Jagielo JA (1990) Animal memory and learning. In Annual Review of Psychology, Vol. 41. Palo Alto, CA: <u>Annual Reviews</u>, 169-211.
- 23. Riccio DC, Spear NE (1991) Changes in memory for aversively motivated learning. In M.R. Denny, Ed., *Aversive Events and Behavior*. Hillsdale, NJ: Erlbaum, 231-258.
- 24. Spear NE, Rudy J (1991) Tests of learning and memory in the developing rat. In H.N. Shair, G.A. Barr & M.A. Hofer, Eds., <u>Developmental Psychobiology: Current Methodological and Conceptual Issues</u>. NY: Oxford University Press, 84-113.
- 25. Spear NE, Hyatt L (1993) How the timing of experience can affect the ontogeny of learning. In G. Turkewitz & D. DeVenny (Eds.), <u>Timing as an Initial Condition of Development</u>. Hillsdale, NJ: Erlbaum, 167-209.
- 26. Kraemer PJ, Spear NE (1993) Retrieval processes and conditioning. In T. Zentall & W. Maki (Eds.), *Animal Cognition: Essays in Honor of Donald A. Riley*. Hillsdale, NJ: Erlbaum, 87-107.
- 27. Spear NE (1993) Learning and memory in early development: Infantile amnesia.(Aprendizaje y memoria en el desarrollo temprano: La amnesia infantil) In J.I. Navarro Guzman (Ed.), <u>Aprendizaje y Memoria Humana: Aspectos Basicos y Evolutivos</u>. Madrid, Spain: McGraw-Hill, 147-170.
- 28. Spear NE, *McKinzie DL, *Arnold HM (1994) Suggestions from the infant rat about brain dysfunction and memory. In J. Delacour (Ed.), <u>The Memory System of the Brain.</u> Singapore: World Scientific Publishing, 278-315.
- 29. Spear NE, *McKinzie DL (1995) Intersensory integration in the infant rat. In D.J. Lewkowicz & R. Lickliter (Eds.), *The Development of Intersensory Perception:*<u>Comparative Perspectives</u>. Hillsdale, NJ: Erlbaum, 133-161.
- 30. Arnold HM, Spear NE (1997) Infantile amnesia: Using animal models to understand forgetting.. In P.J.B. Slater, J.S. Rosenblatt, C.T. Snowden & M. Milinksi (Eds.), *Advances in the Study of Behavior, Vol. 26* NY: Academic Press, 251-284.
- Sarbaum JK, Polachek SW, Spear NE (1999) The effects of price changes on alcohol consumption in alcohol-experienced rats. In W. Bickel, F. Chaloupka, M. Grossman & H. Saffer (Eds.), *The Economic Analysis of Substance Use and Abuse: An Integration of Econometric and Behavioral Economic Research.* Chicago: University of Chicago Press, 75-101.

32. Spear NE, Molina JC (2001). Consequences of early exposure to alcohol: How animal studies reveal later patterns of use and abuse in humans. In M. Carroll & B. Overmier (Eds.), *Linking Animal Research and Human Psychological Health*. Washington, DC: APA Publishers, 85-99.

All Publications:

- Spear NE (1962) Comparison of the reinforcing effect of brain stimulation on Skinner Box, runway, and T-maze performance. J Comp Physiol Psychol 55: 679-84. PMID: 13989950 [PubMed - indexed for MEDLINE]
- 2. Spear NE, Hill WF (1962) Methodological note: Excessive weight loss in rats living in activity wheels. Psychol Rep 11: 437-438.
- Hill WF, Spear NE, Clayton KN (1962) T-maze reversal learning after several different overtraining procedures. J Exp Psychol 64: 533-40. PMID: 13954553 [PubMed indexed for MEDLINE]
- 4. Hill WF, Spear NE (1962) Resistance to extinction as a joint function of reward magnitude and the spacing of extinction trials. J Exp Psychol 64: 636-9. PMID: 13954554 [PubMed - indexed for MEDLINE]
- 5. Spear NE, Hill WF, O'Sullivan DJ (1963) Spontaneous alternation with and without reward in hooded albino rats. Psychological Reports 12: 441-442.
- 6. Hill WF, Spear NE (1963) A replication of overlearning and reversal in a T-maze. J Exp Psychol Mar 65: 317. PMID: 13954551 [PubMed indexed for MEDLINE]
- Hill WF, Spear NE (I963) Extinction in a runway as a function of acquisition levels and reinforcement percentage. J Exp Psychol 65: 495-500. PMID: 13954552 [PubMed indexed for MEDLINE]
- 8. Hill WF, Spear NE (1963) Choice between magnitudes of reward in a T-maze. J Exp Psychol 68: 44-52. PMID: 14177680 [PubMed indexed for MEDLINE]
- 9. Spear NE (1964) Choice between magnitude and percentage of reinforcement. J Exp Psychol. 68: 44-52. PMID: 14177680 [PubMed indexed for MEDLINE]
- 10. Spear NE, Ekstrand B, Underwood BJ (1964) Association by contiguity. Journal of Experimental Psychology, 67, 151-161.
- 11. Spear NE, Hill WF, Campbell DT (1964) Effect of unconsumed reward on subsequent alternation of choice. Psychological Reports, 15, 407-411.
- 12. O'Sullivan DJ, Spear NE (1964) Comparison of hooded and albino rats on the visual cliff. Psychonomic Science I: 87-88.
- 13. Spear NE, Hill WF (1965) Adjustment to new reward: Simultaneous and successive contrast effects. J Exp Psychol 70(5): 510-9. No abstract available. PMID: 5833673 [PubMed indexed for MEDLINE]
- 14. Spear NE, Hill WF, O'Sullivan DJ (1965) Acquisition and extinction after initial trials without reward. J Exp Psychol 69: 25-9. PMID: 14256243 [PubMed indexed for MEDLINE]
- 15. Spear NE (1965) Replication report: Absence of a successive contrast effect on instrumental running behavior after a shift in sucrose concentration.. Psychological Reports, 16, 393-394.

- 16. Hill WF, Spear NE, Erlebacher A (1965) Reminiscence and forgetting in a runway. J Exp Psychol 70: 201-9. PMID: 14341753 [PubMed indexed for MEDLINE]
- 17. Spear NE, Pavlik WB (1966) Percentage reinforcement and reward effects in a T-maze between and within Ss. J Exp Psychol. 71(4): 521-8 PMID: 5909077 [PubMed indexed for MEDLINE]
- 18. Spear NE, Mikulka P, Podd M (1966) Transfer as a function of time to mediate. J Exp Psychol. 72(1): 40-6. PMID: 5967730 [PubMed indexed for MEDLINE]
- 19. Spear NE, *Spitzner JH (1966) Simultaneous and successive contrast effects of reward magnitude in selective learning. Psychological Monographs, 80, No. 10.
- 20. *Vogel J, Mikulka P, Spear NE (1966) Effect of interpolated extinction and level of training on the "depression effect". Journal of Experimental Psychology, 72, 51-60.
- 21. *Vogel J, Spear NE (1966) Interaction of reward magnitude and conditioned fear on the consummatory response. Psychonomic Science, 5, 263-264.
- 22. *Heckelman SB, Spear NE (1967) Supplementary report: The effect of intralist similarity on free learning in children. Journal of Verbal Learning and Verbal Behavior, 6, 448-451.
- 23. *Podd M, Spear NE. (1967) Stimulus relatedness an coding. Journal of Verbal Learning and Verbal Behavior, 6, 55-60.
- 24. Spear NE, *Spitzner JH (1967) PRE in a T-maze brightness discrimination within and between Ss. J Exp Psychol 73: 320-322.
- 25. *Forrester WB, Spear NE (1967) Coding processes in verbal learning as a function of response integration. J Exp Psychol 74: 586-588.
- 26. Spear NE, *Spitzner JH (1967) Effect of initial nonrewarded trials: Factors responsible for increased resistance to extinction. J Exp Psychol 74(4): 525-37. PMID: 6065473 [PubMed indexed for MEDLINE]
- 27. *Cakmak M, Spear NE (1967) Acquisition of discrimination between rewards. Psychonomic Science 7: 97-98.
- 28. Spear NE (1967) Retention of reinforcer magnitude. Psychological Review, 74, 216-234.
- 29. Spear NE, *Spitzner JH (1967) PRE within Ss: Conventional effect on differential speeds, reverse effect on choices. Psychonomic Science 7: 99-100.
- 30. *Mikulka PJ, *Vogel JR, Spear NE (1967) Postconsummatory delay and goal box confinement. Psychonomic Science 9: 381-382.
- 31.Spear NE, *Spitzner JH (1968) Residual effects of reinforcer magnitude. J Exp Psychol 77(1): 135-49. PMID: 5663584 [PubMed indexed for MEDLINE]
- 32. *Chiszar DA, Spear NE (1968) Proactive interference in a T-maze brightness discrimination task. Psychonomic Science 11: 107-108.

- 33. *Vogel JR, *Mikulka PJ, Spear NE (1968) Effects of shifts in sucrose and saccharin concentrations on licking behavior in the rat. J Comp Physiol Psychol 66(3): 661-6. PMID: 5721493 [PubMed indexed for MEDLINE]
- 34. *Chiszar DA, Spear NE (1968) Proactive interference in retention of nondiscriminative learning. Psychonomic Science 12: 87-88.
- 35. Hill WF, Cotton JW, Spear NE, Duncan DP (1969) Retention of T-maze learning after varying intervals following partial and continuous reinforcement. J Exp Psychol 79: 584-585.
- 36. Spear NE, *Spitzner JH (1969) Influence of degree of training and prior reinforcer magnitude on contrast effects and resistance to extinction within Ss. J Comp Physiol Psychol 68: 427-433.
- 37. *Burrill MF, Spear NE (1969) Choice between magnitude of reward as a function of free- vs. forced-trial procedures. Psychonomic Science, 14, 135-136.
- 38. Spear NE, *Spitzner JH (1969) Simultaneous and successive shifts in reinforcer magnitude and the influence of discrimination task. J Comp Physiol Psychol 69: 160-165.
- 39. Fraunfelker B, Spear NE (1969) Phonetic compatibility and verbal learning. Journal of Educational Psychology 60: 355-360.
- 40. *Chiszar DA, Spear NE (1969) Stimulus change, reversal learning, and retention in the rat. J Comp Physiol Psychol 69: 190-195.
- 41. *Miller RR, Spear NE (1969) Memory and the extensor phase of convulsions induced by electroconvulsive shock. Psychonomic Science 15: 164-166.
- 42. *Klein SB, Spear NE (1969) Influence of age on short-term retention of active-avoidance learning. J Comp Physiol Psychol 69: 583-589.
- 43. *Forrester WE, Spear NE (1969) Sound coding in verbal learning with and without restrictions on decoding. Psychonomic Science 17: 91-92.
- 44. Spear NE, *Spitzner JH (1969) Extinction effects of percentage reinforcement and reinforcer magnitude within Ss: The influence of discrimination task. Psychonomic Science Monograph Supplement: 19-24.
- 45. Spear NE (1970) Verbal learning and retention. In M.R. D'Amato, Ed., Experimental Psychology: Methodology, Psychophysics and Learning. New York: McGraw-Hill, 543-638.
- 46. *Klein SB, Spear NE (1970) Forgetting by the rat after intermediate retention intervals ("Kamin Effect" as retrieval failure. J Comp Physiol Psychol 71: 165-170.
- 47. *Burrill MF, Spear NE. (1970) Choice between reward magnitude as a function of sequence of prior exposures to differing rewards. J Comp Physiol Psychol 71: 298-302.
- 48. *Klein SB, Spear NE (1970) Reactivation of avoidance-learning memory in the rat after intermediate retention intervals. J Comp Physiol Psychol 72: 498-504.

- 49. *Feigley DA, Spear NE (1970) Effect of age and punishment condition on long-term retention by the rat of active- and passive-avoidance learning. J Comp Physiol Psychol 73(3): 515-26. PMID: 5514687 [PubMed indexed for MEDLINE]
- 50. Spear NE (1971) Forgetting as retrieval failure. In W.K. Honig & P.H.R. James, Eds., Animal Memory. New York: Academic Press, 45-109.
- 51. Spear NE, *Klein SB, Riley EP (1971) The Kamin Effect as "state dependent learning": Memory retrieval in the rat. J Comp Physiol Psychol 74: 416-425.
- 52. *Bronstein PM, Spear NE (1972) The acquisition of a spatial discrimination by rats as a function of age. J Comp Physiol Psychol 78(2): 208-12. PMID: 5058459 [PubMed indexed for MEDLINE]
- 53. *Feigley DA, *Parsons PJ, Hamilton LW, Spear NE (1972) Development of habituation to novel environments in the rat. J Comp Physiol Psychol 79: 443-452.
- 54. Spear NE, *Gordon WC, *Chiszar DA (1972) Interaction between memories in the rat: The effect of degree of prior conflict learning on forgetting after short intervals. Journal of Comparative and Physiological Psychology, 78, 471-477.
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Papers (Abstracts) Presented at Meetings of Professional Societies (* indicates student co-author)

- 1. Spear NE, Glickman SE (1962) Comparison of the reinforcing effect of brain stimulation on Skinner Box, runway, and T-maze performance. Presented at meetings of the Midwestern Psychological Association.
- 2. Spear NE, Hill WF, Cotton JW (1962) T-maze performance as a function of percentage reinforcement and interval between acquisition and extinction. Presented at meetings of the Psychonomic Society.
- 3. Spear NE, Hill WF, O'Sullivan DJ (1963) Extinction after "frustrating" and "nonfrustrating" nonreward. Presented at meetings of Midwestern Psychological Association.
- 4. Ekstrand BR, Spear NE, Underwood BJ (1963) Association by contiguity. Presented at meetings of the Midwestern Psychological Association.
- 5. Hill WF, Spear NE (1963) Reminiscence and forgetting in a runway. Presented at meetings of the Psychonomics Society.
- 6. Spear NE, Hill, W.F. (1964) Choice between magnitude and percentage of reinforcement. Presented at meetings of the Midwestern Psychological Association.
- 7. Spear NE, Hill WF (1964) Choice behavior an accompanying speed measures after a change in nominal reward: Simultaneous and successive contrast effects. Presented at meetings of the Psychonomics Society.
- 8. Spear NE (1965) Proactive interference effects of initial nonrewarded trials. Presented at meetings of the Midwestern Psychological Association.
- 9. Spear NE, *Spitzner JH. (1965) Characteristics of simultaneous and successive contrast effects of reward magnitude. Presented at meetings of the Psychonomic Society.
- *Cakmak M, Spear NE (sponsor) (1965) Extinction vs. reversal of a position discrimination with differing amount of reward in alternative goal boxes. Presented at meetings of the Eastern Psychological Association.
- 11. Abate M, Spear NE (sponsor) (1965) Extinction as a function of effortfulness of responding: A new approach. Presented at meetings of the Eastern Psychological Association.
- 12. Podd N, Spear NE (sponsor) (1965) Stimulus relatedness, strategies and coding in paired-associate learning. Presented at meetings of the Eastern Psychological Association.
- 13. *Vogel J, Spear NE (sponsor) (1965) Effect of interpolated extinction and level of training on the "depression effect". Presented at meetings of the Eastern Psychological Association.
- 14. Spear NE, *Spitzner, J.H. (1966) Retention of the effect of reinforcer magnitude. Presented at meetings of the Psychonomic Society.
- 15. *Cakmak MB, Spear NE (sponsor) (1966) A comparison of free and forced trial procedures in discriminated learning. Presented at meetings of Eastern Psychological Association.

- 16. *Forrester W, Spear NE (sponsor) (1966) The effect of frequency and pronounceability on coding processes in free learning. Presented at meetings of Eastern Psychological Association.
- 17. *Heckelman SG, Spear NE (sponsor) (1966) Associative and orthographic intralist similarity in free recall of elementary school grades two to six. Presented at meetings of Eastern Psychological Association.
- 18. *Vogel J, Spear NE (sponsor) (1966) The effect of post-consummatory delay on acquisition and extinction of the running response. Presented at meetings of Eastern Psychological Association.
- 19. *Spitzner JH, Spear NE (1967) Studies of proactive interference in retention of the rat. Presented at meetings of the Psychonomics Society.
- *Cakmak MB, Spear NE (sponsor) (1967) Discrimination between rewards as a function of pattern of previous experience. Presented at meetings of Eastern Psychological Association.
- 21. *Kirk RJ, Spear NE (sponsor) (1967) Effects of shock on the within-Ss partial reinforcement effect. Presented at meetings of the Eastern Psychological Association.
- 22. *Vogel JR, Spear NE (sponsor) (1967) The effects of shifts in sucrose concentration on instrumental licking behavior in the rat. Presented at meetings of the Eastern Psychological Association.
- 23. Spear NE (1968) Participant in Symposium, Empirical and Theoretical Problems in the Analysis of Shifts of Reinforcement Parameter, at meetings of the Eastern Psychological Association.
- 24. Spear NE, *Chiszar DA (1968.) Interference and forgetting in the infant rat. Presented at meetings of the Psychonomics Society.
- 25. *Chiszar DA, Spear NE (sponsor) (1968) Reversal learning and retention as a function of intertrial interval and contextual change. Presented at meetings of the Eastern Psychological Association.
- 26. Spear NE (1969) Participant in Symposium, Animal Retention, at meetings of the Midwestern Psychological Association.
- 27. *Feigley D, Spear NE (sponsor) (1969) Effects of age and shock intensity on the acquisition and retention of a one-way active avoidance response. Presented at meetings of the Eastern Psychological Association.
- 28. *Chiszar DA, Spear NE (sponsor) (1969) Retroactive interference as a function of contextual change between original and interpolated learning. Presented at meetings of the Eastern Psychological Association.
- 29. *Klein SB, Spear NE (sponsor) (1969) Influence of age on retention of incomplete active-avoidance learning. Presented at meetings of the Eastern Psychological Association.
- 30. *Miller RR, Spear NE (sponsor) (1969) The prevention of ECS-induced amnesia through pretraining environmental familiarization. Presented at meetings of the Eastern Psychological Association.

- 31. *Riley E, Hasak P, Petersen F, Spear NE (sponsor) (1969) Consummatory and exploratory behaviors in rats and gerbils. Presented at meetings of the Eastern Psychological Association.
- 32. *Klein SB, Spear NE (sponsor) (1970) Reinstatement of the memory of one-way active avoidance learning after intermediate retention intervals. Presented at meetings of the Eastern Psychological Association.
- 33. *Chiszar DA, *Kappel HK, Spear NE (sponsor) (1970) Changes in offspring survival and maternal prolificacy with increasing parity in closely and remotely related rodent strains. Presented at meetings of Eastern Psychological Association.
- 34. *Feigley D, Spear NE (sponsor) (1970) Effects of age and shock on the acquisition and retention of a passive avoidance response. Presented at meetings of the Eastern Psychological Association.
- 35. *Parsons PJ, Spear NE (sponsor) (1970) Habituation to light reinforcement as a function of age. Presented at meetings of the Eastern Psychological Association.
- 36. Spear NE (1971) Participant in Symposium, Multiple Memory Processes, at meetings of the Western Psychological Association.
- 37. *Bronstein PM, Spear NE (sponsor) (1971) Activity differences in the albino rat as a function of age and apparatus experience. Presented at meetings of the Eastern Psychological Association.
- 38. *Feigley DA, Spear NE (sponsor) (1971) Instrumental exploratory responding and the effects of response-contingent light stimulation as a function of age. Presented at meetings of the Eastern Psychological Association.
- 39. *Parsons PJ, Spear NE (sponsor) (1971) Long term retention of active and passive avoidance by weanling rats as a function of environmental enrichment. Presented at meetings of the Eastern Psychological Association.
- 40. *Gordon WC, Spear NE (sponsor) (1972) Enhancing a passive avoidance memory with posttraining injections of strychnine sulfate. Presented at meetings of the Eastern Psychological Association.
- 41. *Parsons PJ, Spear NE(sponsor) (1972) Short-term retention of habituation by 15-day old, 25-day old, and adult rats. Presented at meetings of the Eastern Psychological Association.
- 42. *Martin P, Spear NE (sponsor) (1972) Effects of proactive interference and retrieval cues on the retention of passive avoidance learning. Presented at meetings of the Eastern Psychological Association.
- 43. *Gordon WC, Spear NE (sponsor) (1973) The effect of strychnine on a reactivated passive avoidance memory. Presented at meetings of the Eastern Psychological Association.
- 44. *Parsons PJ, Spear NE (sponsor) (1974) Sequential cues and reactivation of the memory of fear conditioning as a function of age. Presented at meetings of the Eastern Psychological Association.

- 45. *Bryan R, Spear NE (sponsor) (1974) Time dependent memory deficits in a brightness discrimination task. Presented at meetings of the Eastern Psychological Association.
- 46. Spear NE (1975) Participant in Symposium, Working Memory in Animals, at Canadian Psychological Association.
- 47. Spear NE (1975) Lecture Series on Frontiers of Psychobiology, University of Illinois.
- 48. Spear NE (1976) Participant in Symposium, Sleep, Dreams and Memory, at Graduate Center, CUNY.
- 49. *Hamberg JM, Spear NE (1976) Reactivation as a function of the age of the original memory. Presented at meetings of the Psychonomic Society.
- 50. *Concannon JT, *Hamberg JM, Spear NE, Scobie SR (1976)Pentobarbitol state-dependent retrieval of infantile memories. Presented at meetings of the Psychonomic Society.
- 51. *Hamberg JM, Spear NE (sponsor) (1976) Reactivation following forgetting of discrimination learning. Presented at meetings of the Eastern Psychological Association.
- 52. *Macht ML, Spear NE (sponsor) (1976) The effects of manipulations of affective state on free recall performance. Presented at meetings of the Eastern Psychological Association.
- 53. *Stoloff ML, Spear NE (sponsor) (1976) Effect of shock intensity upon discriminated escape behavior in infant and adolescent albino rats. Presented at meetings of the Eastern Psychological Association.
- 54. *Sherr A, *Ditkowich D, Spear NE (sponsor) (1976) Determinants of the forgetting of conditioned fear. Presented at meetings of the Eastern Psychological Association.
- 55. *Infurna RN, *Steinert PA *Freda J, Spear NE (1977) Strength of illness induced taste aversion as a function of drug dose and phase of the illumination cycle. Presented at meetings of the Psychonomic Society.
- 56. *Smith G, Spear NE (1977) Alleviation of forgetting of avoidance learning by interpolated exposure to repetitive operant conditioning. Presented at meetings of the Psychonomic Society.
- 57. *Freda JS, Spear NE (sponsor) (1977) The US post-exposure effect in learned taste aversion when the intensity of the US is manipulated. Presented at meetings of the Eastern Psychological Association.
- 58. *Concannon JT, *Smith GJ, *Toves CY, Spear NE (sponsor) (1977) Amphetamine protection of 24-hour retention of T-maze behavior in infant rats. Presented at meetings of the Eastern Psychological Association.
- 59. *Macht ML, Spear NE (sponsor) (1977) A reactivation paradigm for the alleviation of forgetting in humans. Presented at meetings of the Eastern Psychological Association.
- 60. *Smith GJ, Spear NE (sponsor) (1977) Reactivation of an active avoidance task in the neonatal rat: Evidence for retrieval failure. Presented at meetings of the Eastern Psychological Association.

- 61. *Infurna RN, *Steinert, P.A., *vonSchwerin, D., *Daly, D.& Spear, N. E. (sponsor) (1978) Contextual determinants of the magnitude of a learned taste aversion in preweaning rats. Presented at meetings of the Eastern Psychological Association.
- 62. *Smith GJ, Spear NE (sponsor) (1978) The influence of home environmental cues in withholding responses in infant rats. Presented at meetings of the Eastern Psychological Association.
- 63. *Solheim GS, *Hamberg JM, Spear NE (1978) Effects of prior conditioning to elements of the compound cue on active avoidance acquisition in weanling rats. Presented at meetings of the Midwestern Psychological Association.
- 64. *Steinert PA, *Freda JS, *Infurna RN, Spear NE (1978) Contextual influences during conditioning, interpolation and testing of a taste-illness association. Presented at meetings of the Midwestern Psychological Association.
- 65. *Wallace J, *Steinert PA, Spear NE, Scobie SR, Howard J (1978) Modality effects in short-term retention of an operant conditional discrimination in rats. Presented at meetings of the Midwestern Psychological Association.
- 66. *Steinert PA, *Infurna RN, Van Auken E, Spear NE (1978) The effects of context on longdelay taste aversion learning in infant rats. Presented at meetings of the Psychonomic Society.
- 67. *Smith GJ, *Barkoff N, Spear NE (1978) The effects of home environmental cues on learning and retention. Presented at meetings of the Psychonomic Society.
- 68. *Gibralter JC, Spear NE (sponsor) (1979) Reactivation of both appetitive and aversive memories as a function of olfactory cues. Presented at meetings of the Eastern Psychological Association.
- 69. *Caza PA, *Steinert PA, *Infurna RN, Spear NE (1979) Dose dependent circadian susceptibility indexed by taste aversion learning and retention in preweanling rats. Presented at meetings of the Eastern Psychological Association.
- 70. Lisman SA, *Goldstein E, Spear NE, *Borden KA (1979) Alcohol and levels of processing Storage or retrieval? Presented at meetings of the Eastern Psychological Association.
- 71. *Smith GJ, *Greenfield R, Spear NE (1979) Effects of home environmental cues on learning a shock-escape spatial discrimination in neonatal rats. Presented at meetings of the Midwestern Psychological Association.
- 72. *Steinert PA, *Infurna RN, Spear NE (1979) Age-related effects of CS concentration on long-delay taste aversion learning. Presented at meetings of the Psychonomic Society.
- 73. *Smith GJ, Spear NE, Horowitz G (1979) Conditioned odor aversion with isolation from the home litter as the UCS. Presented at meetings of the International Society for Developmental Psychobiology.
- 74. *Steinert PA, Spear NE, *Infurna RN (1980) Infantile amnesia for conditioned taste aversion. Presented at meetings of the Eastern Psychological Association.

- 75. *Tynan WD, *Caza PA, *Solheim GS, Spear NE (1980) Chronic early isolation experience alters subsequent behavior in rats. Presented at meetings of the Eastern Psychological Association.
- 76. *Smith GJ, *Bromberg R, Spear NE (1980) Reactivation treatments that alleviate forgetting of instrumental compared to classical conditioning. Presented at meetings of the Eastern Psychological Association.
- 77. *Solheim GS, *Hensler JG, Spear NE (1980) Age-dependent contextual effects on short-term retention of active avoidance in rats. Presented at meetings of the Eastern Psychological Association.
- 78. *Wigal T, *Smith GJ, Spear NE (1980) Effects of home environmental cues on retention of conditioned place aversion. Presented at meetings of the Eastern Psychological Association.
- 79. Mueller C, Lisman SA, Spear NE (1980) Alcohol and memory: When drinking helps. Presented at meetings of the Western Psychological Association.
- 80. Mueller C, *Steinert P, *Goldstein E, Lisman SA, Spear NE (I980) Alcohol rehearsal and decrements in memory performance. Presented at meetings of the Psychonomic Society.
- 81. *Corby J, *Caza P, Spear NE (I981) Ontogenetic differences in the ability of home nest odor to serve as a conditioned stimulus. Presented at meetings of the Eastern Psychological Association.
- 82. *Barrett BA, *Caza P, Spear LP, Spear NE (I981) Psychopharmacological effects of damphetamine in the presence of odors from the home nest. Presented at meetings of the Eastern Psychological Association.
- 83. *Guttenberg J, *Weiss R, *Wigal T, Spear NE (I981) Effects of pup home vs parental home context on conditioned place aversion in infant and adolescent rats. Presented at meetings of the Eastern Psychological Association.
- 84. *Wigal T, *Morotti W, Spear NE (1981) Alleviating infantile forgetting of discriminated escape. Presented at meetings of the Eastern Psychological Association.
- 85. *Schare ML, Lisman SA, Spear NE (I981) Mood variation and state dependent retention. Presented at meetings of the Eastern Psychological Association.
- 86. Spear NE (I981) What is remembered and what is forgotten. Presented at Psychobiology of Cognition (NIH) Conference, Washington, D.C.
- 87. Spear NE (I981) The future study of learning and memory from a psychobiological perspective. Presented at international symposium, Perspectives in Psychological Research: Experimental Psychology in the Year 2000, Bad Hamburg, West Germany.
- 88. Spear NE (I981) Preliminary studies of the ontogeny of stimulus selection. Presented as participant in symposium, Ontogeny of Learning, meetings of the International Society for Developmental Psychobiology.

- 89. Mueller CW, *Schare ML, Lisman SA, Spear NE (I981) Does alcohol inhibit the intrusion of incidental memories? Presented at meetings of the Association for Advancement of Behavior Therapy.
- 90. *Schare ML, Mueller CW, Lisman SA, Spear NE (I981) A demonstration of mood statedependent retention. Presented at meetings of Association for Advancement of Behavior Therapy.
- 91. Mueller CW, Lisman SA, Spear NE (1981) Alcohol, rehearsal and decrements in recognition memory. Presented at meetings of the Psychonomic Society.
- 92. *Wigal T, *Goodlett CR, *Eisenberg SB, Spear NE, *Hannigan JH, Donovick PJ, Burright RG, Isaacson RL (I981) The effects of home contextual cues on spontaneous alternation and conditioned place aversion in rats with septal or hippocampal lesions. Presented at meetings of the Society for Neuroscience.
- 93. *Barrett B, Spear LP, Spear NE (1981) Catecholaminergic antagonists and home nest odors attenuate shock-induced wall climbing in 10-day old rat pups. Presented at meetings of the International Society for Developmental Psychobiology.
- 94. *Kucharski D, *Caza PA, Spear NE (I981) Taste aversion learning with compound stimuli in infant and adult rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 95. Mueller CW, Lisman SA, Spear NE (1982) Additional evidence that alcohol increases confusion among memories. Presented at meetings of the Western Psychological Association.
- 96. Mueller CW, Lisman SA, Spear NE (1982) Alcohol and memory: A test of the aging hypothesis. Presented at meetings of the Western Psychological Association.
- 97. *Kokot L, *Caza PA, Richter N, Spear NE (I982) Ontogenetic changes in CS- and CS+ conditioning in infant rats. Presented at meetings of the Eastern Psychological Association.
- 98. *Barrett B, *Rizzo T, Spear LP, Spear NE (I982) Ontogenetic differences in response to contextual stimuli. Presented at meetings of the Eastern Psychological Association.
- 99. *Newman S, *Caza PA, Spear NE (I982) Ontogenetic differences in response to contextual stimuli. Presented at meetings of the Eastern Psychological Association.
- 100. *Caza PA, Spear NE (I982) Effects of beta-adrenergic agonist, isoproteronol, on the ontogeny of blocking during classical conditioning. Presented at meetings of Eastern Psychological Association.
- 101. *Kucharski D, Spear NE (I982) Within-compound associations in infant and adult rats. Presented at meetings of the Eastern Psychological Association.
- 102. Spear NE (I982) Biological aspects of cognitive functioning. Keynote address presented at SUNY Cortland Conference, Current Trends in Cognitive Science.
- 103. Spear NE (I982) Introduction and historical comments. Presented at Purdue University Symposium on Early Development of Memory.

- 104. Spear NE (I982) Ontogenetic increase in learning and memory: Observations and orientation common to studying children and animals. Presented at Purdue University Symposium on Early Development of Memory.
- 105. Spear NE (I982) The ontogeny of stimulus selection: Developmental differences in what is learned. Presented at Harry Frank Guggenheim Conference on Animal Cognition, Columbia University.
- 106. Mueller CW, Lisman SA, Spear NE (I982) Alcohol enhancement of recall versus recognition. Presented at meetings of the American Psychological Association.
- 107. Mueller CW, Lisman SA, Spear NE (I982) A human memory procedure to investigate drug discriminations and state dissociations simultaneously. Presented at Second International Symposium on Drugs as Discriminative Stimuli, Belgium.
- 108. *Kucharski D, *Brandt J, *Meehan S, Spear NE (I982) Determinants and characteristics of odor-footshock conditioning in the developing rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 109. *Yuhl DE, Donovick PJ, Burright RG, Spear NE. (I982) The effects of toxocara canis on odor-discrimination in mice. Presented at meetings of Society for Neuroscience.
- 110. *Tynan D, *Weiss R, *Osborn W, Spear NE. (I982) Arousal state, activity, and learning in ten-week old infants. Presented at meetings of the Association for Advancement of Behavior Therapy.
- 111. *Brandt JP, *Stoller D, Spear NE (I983) Ontogenetic differences in the acquisition of a stimulus-stimulus associations. Presented at meetings of the Eastern Psychological Association.
- 112. *Barrett BA, Spear NE, Spear LP (I983) The effects of home nest odors on clonidine-induced wall climbing in 10-day old rat pups. Presented at meetings of the Eastern Psychological Association.
- 113. *Kucharski D, Spear NE (I983) Ontogenetic differences in the potentiation of a conditioned odor aversion in the rat. Presented at meetings of the Eastern Psychological Association.
- 114. Emory EK, Spear NE (1983) Evidence linking prematurity and respiratory distress to startle suppression in human infants. Presented at meetings of the Eastern Psychological Association.
- 115. *Perdue VP, Spear NE (1983) The contribution of infancy research to twin study. Presented at meetings of the Society for Behavior Genetics, London.
- 116. *Meehan S, Spear LP, Spear NE (I983) Ontogenetic alterations in preference for home an adult shavings an conditioning in the 25-, 35-, and 45-day old rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 117. *Kucharski D, Spear NE (I983) CS- exposures promote conditioning of an odor-footshock association in preweanling and adult rats. Presented at meetings of the International Society for Developmental Psychobiology.

- 118. *Newman S, Spear NE (I983) Ontogenetic differences in cross-modality processing of multi-element stimuli. Presented at meetings of the International Society for Developmental Psychobiology.
- 119. *Brandt JP, Spear NE (I983) The influence of neonatal ACTH 4-9 analog administration on stimulus selection in preweanling rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 120. Molina JC, Moyano HF, Spear NE (I983) Acute alcohol exposure during gestational day 8 in the rat: Effects upon physical and behavioral parameters. Presented at meetings of the International Society for Developmental Psychobiology.
- 121. Spear NE (I984) Ontogeny of memory for temporally disparate events. Presented at meetings of the Eighth Winter Conference on Neurobiology of Learning and Memory.
- 122. *Perdue V, *DeMarco RJ, *Taylor JC, Spear NE (I984) Temperament and response to contingency shifts during instrumental learning in human infants. Presented at meetings of the Eastern Psychological Association.
- 123. Markiewicz B, Spear NE (1984) Ambient temperature as the CS in aversive conditioning of 12-day old rats. Presented at meetings of the Eastern Psychological Association.
- 124. Molina JC, *Serwatka J, Spear NE (I984) Changes in alcohol consumption resulting from prior reinforced and nonreinforced experiences with alcohol odor in preweanling rats. Presented at meetings of the Eastern Psychological Association.
- 125. *Hoffmann H, Spear NE (I984) Behavioral indices of a conditioned discrimination in 12-day old rats. Presented at meetings of the Eastern Psychological Association.
- 126. *Brandt JP, Spear NE (I984) The influence of ACTH 4-9 analogue administration during early development upon conditioned sensory aversions and retention. Presented at meetings of the Eastern Psychological Association.
- 127. *Kucharski D, Spear NE (1984) Exposure to a CS- facilitates the acquisition of both odorfootshock and brightness-footshock associations in preweanling and adult rats. Presented at meetings of the Eastern Psychological Association.
- 128. Spear NE, *Kucharski D, *Hoffmann H (1984) Contextual influences on conditioned taste aversions in the developing rat. Presented at meetings of the New York Academy of Sciences Conference on Experimental Assessments and Clinical Applications of Conditioned Food Aversions (NY).
- 129. Spear NE, *Kucharski D (I984) Qualitative and quantitative determinants of simple conditioning in the developing rat. Presented at the Seventh Symposium on Quantitative Analyses of Behavior (Harvard).
- 130. *Hoffmann H, Molina JC, Spear NE (I984) Ethanol aversions decrease subsequent ethanol consumption in 5- and 10-day old rat pups. Presented at meetings of the International Society for Developmental Psychobiology.
- 131. Molina JC, *Serwatka J, Spear LP, Spear NE (I984) Ethanol odor experiences affect ethanol intake in preweanling but not adult rats. Presented at meetings of the International Society for Developmental Psychobiology.

- 132. *Kucharski D, Molina JC, *Hoffmann H, Spear NE (I984) Sucrose and saccharin aversions in the preweanling rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 133. *Meehan S, Spear NE. (I985) The effects of CS- duration and CS- to CS+ intervals on conditioning to the CS+ in 15-day old rats. Presented at meetings of the Eastern Psychological Association.
- 134. *Kucharski D, Spear NE (I985) Ontogeny of a memory system for odor- footshock associations in the rat. Presented at meetings of the Eastern Psychological Association.
- 135. Spear NE, Molina JC (1985) Ontogenetic differences in the content of memory. Presented at NICHD Conference, Psychobiological Aspects of Behavioral Development.
- 136. Spear NE (I985) Representation of stimuli by infant animals. Presented at Columbia University Seminar on the Psychobiology of Animal Cognition.
- 137. Markiewicz B, *Paul S, Spear NE (I985) The effect of home cage stimuli on the acquisition of aversive tasks using a vibrotactile CS. Presented at meetings of the International Society for Developmental Psychobiology.
- 138. Molina JC, *Hoffmann H, *Serwatka JC, *Lariviere N, *Meehan S, Spear NE (1985)

 Transfer across sensory modalities in preweanling rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 139. *Hoffmann H, Molina JC, Spear LP, Spear NE (I985) Prenatal alcohol exposure during gestational day 8 affects sensorimotor maturation and alcohol responsiveness in rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 140. *Lariviere N, Spear NE (I985) Ontogenetic differences in transfer of conditioning between two different odors of equal familiarity. Paper presented at meetings of the International Society for Developmental Psychobiology.
- 141. Spear NE (I986) Moderator and discussant for session, "Ontogeny of Leaning and Memory". Current Issues in Developmental Psychobiology Symposium, Marathon, Florida.
- 142. *Hoffmann H, Spear NE (I986) Effects of prior experience on the subsequent associability of the pre-exposed cue in preweanling rats .Paper presented at meetings of the Eastern Psychobiological Association.
- 143. *Lariviere N, Spear NE (I986) Transfer of learning between two discriminable odorants with equivalent relative affect. Presented at meetings of the Eastern Psychological Association.
- 144. Kraemer PJ, Spear NE(I986) Spontaneous recovery of a conditioned flavor aversion following generalized extinction. Presented at meetings of the Eastern Psychological Association.
- 145. *Meehan SM, Spear NE (I986) Learning and retention of thermal cues in 15- and 25-day old rats: Evidence for encoding of affective attributes. Presented at meetings of the Eastern Psychological Association.

- 146. Spear NE (I986) Discussant for Symposium, "Affect, Conditioning and Cognition" at meetings of the Midwestern Psychological Association.
- 147. *Hoffmann H, *Smoller DE, Spear NE (I986) Conditioned taste aversions in the 5-day old rat: Studies of ontogenetic differences in biological constraints. Presented at meetings of the International Society for Developmental Psychobiology.
- 148. *Lariviere NA, *Wipf SA, Spear NE (I9086) Ontogenetic differences in the effects of context on learning and retention. Presented at meetings of the International Society for Developmental Psychobiology.
- 149. *Pumo J, Spear NE (I986) The affective value of the context determines retention of Pavlovian conditioning in the 7-day old rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 150. Markiewicz B, *Juncker S, Spear NE (I986) An exploration of interstimulus transfer in 12day old and 60-day old rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 151. Kraemer PJ, *Lariviere NA, Spear NE (I986) Ontogenetic differences in taste aversions conditioned with odor-flavor compounds. Paper presented at meetings of the International Society for Developmental Psychobiology.
- 152. *Kirstein CL, Spear NE, Riley EP, Spear LP (I986) Effects of prenatal ethanol exposure on forebrain and hindbrain dopamine, serotonin and 5-hydroxyindoleacetic acid levels in 21-day old rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 153. Kraemer P, *Hoffmann H, Spear NE (I987) The effects of US devaluation in 10-day old rat pups. Presented at meetings of the Eastern Psychological Association.
- 154. *Smoller DE, Spear NE (I987) Ontogenetic differences in mediated sensory preconditioning. Presented at meetings of the Eastern Psychological Association.
- 155. *Lariviere NA, Spear NE (I987) Some determinants of sensory preconditioning in the infant rat. Presented at meetings of the Eastern Psychological Association.
- 156. Spear LP, *Kirstein CL, *Bell J, *Greenbaum R, *O'Shea J, *Yoottanasumpun V, *Hoffmann H, Spear NE (I987) Effects of prenatal cocaine on behavior during the early postnatal period in rats. Presented at meetings of the Behavioral Teratology Society.
- 157. *Smoller DE, *Serwatka J, Spear NE (I987) Second-order conditioning and "unitization" in the developing rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 158. *Kirstein CL, *Greenbaum R, *Hoffmann H, Spear NE, Spear LP (I987) Effects of prenatal cocaine exposure: I. Initial observation and reflex development. Presented at meetings of the Society for Neuroscience.
- 159. Spear LP, *Bell J, *O'Shea J, *Yootanasumpun V, *Hoffmann H, Spear NE, *Kirstein CL (1987) Effects of prenatal cocaine exposure: II. Behavior, learning and retention of appetitive and aversive odor conditioning in infancy. Presented at meetings of Society for Neuroscience.

- 160. Kraemer PJ, *Pudiak C, Spear NE (I988) Ontogenetic differences in stimulus selection associated with the expression of a discrimination. Presented at meetings of the Eastern Psychological Association.
- 161. *Smoller DE, *Chen WJ, Spear NE (1988) Unitization of texture and odor in the 16-day old rat. Presented at meetings of the Eastern Psychological Association.
- 162. *Hunt PS, Spear NE (I988) A further investigation of intermodal transfer in the infant rat. Presented at meetings of the Eastern Psychological Association.
- 163. *Lariviere NA, *Chen WJ, Spear NE (I988) Implications for the formation of context-US associations in the preweanling rat. Presented at meetings of the Eastern Psychological Association.
- 164. Miller JS, *Smoller DE, Spear NE (I988) Short-term retention in 16-day old rats. Presented at meetings of the Eastern Psychological Association.
- 165. Mellon RC, Kraemer PJ, Spear NE (I988) Age-related differences in conditioning to tones, light and tone-light compounds in the rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 166. Miller JS, *Jagielo JA, Spear NE (I988) Age-related differences in short-term retention of separable elements of an odor aversion. Presented at meetings of the International Society for Developmental Psychobiology.
- 167. *Hoffmann H, *Hunt PS, Spear NE (I988) Examination of cue-consequence specificity and comparisons among gustatory aversions established by different reinforcers in preweaning rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 168. *Jagielo JA, Miller JS, Spear NE(I988) Ontogenetic differences in the expression of conditioned visual aversions. Presented at meetings of the International Society for Developmental Psychobiology.
- 169. *Smoller DE, Spear NE (I988) Sensory preconditioning and "unitization" in the developing rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 170. *Lariviere NA, *Hoffmann H, Riley EP, Spear LP, Spear NE (I988) Effects of prenatal alcohol exposure on conditioning and retention of an odor preference and aversion. Presented at meetings of the International Society for Developmental Psychobiology.
- 171. Spear NE (I988) Infantile learning and memory in the rat. Presidential Address, presented at meetings of the International Society for Developmental Psychobiology.
- 172. Spear LP, *Frambes N, *Kirstein CL, *Bell J, *Rogers L, *Yoottanasumpun V, Spear NE (1988) Chronic cocaine exposure during gestation results in neurobehavioral deficits evident early in ontogeny. Presented at meetings of Committee on Problems of Drug Dependence.
- 173. Spear NE (I989) Infantile characteristics of learning and memory in the developing rat. Invited Address presented at meetings of the Southern Society for Philosophy and Psychology.

- 174. *Smoller DE, Spear NE (1989) Unitization: Implications for Pavlovian conditioning in early ontogeny. Presented at meetings of the Eastern Psychological Association.
- 175. *Hunt PS, Spear NE (1989) State-dependency in ethanol-mediated taste aversions in 16day old rats. Presented at meetings of the Eastern Psychological Association.
- 176. Miller JS, *Jagielo JA, Gisquet-Verrier P, Spear NE (I989) Backward excitatory conditioning can determine the role of the CS- in aversion learning. Presented at meetings of the Midwestern Psychological Association.
- 177. Spear NE (I989) Infantile disposition for unitization. Presented as part of symposium, Perinatal competences for perception and acquisition in animals and humans. Meetings of the International Society for the Study of Behavioral Development, Finland.
- 178. Spear LP, *Kirstein CL, *Frambes NA, Moody CA, Miller JS, Spear NE (1989)

 Neurobehavioral teratogenic effects of gestational cocaine exposure. Presented at meetings of the American Psychological Society.
- 179. *Hunt PS, Spear NE (I989) Hypothermia and ethanol-mediated taste aversions in infant rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 180. *Lariviere NA, Miller JS, Spear NE (I989) Encoding of affective attributes during appetitive conditioning in the 10-day old rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 181. *Chen WJ, Spear NE (I989) A moderate dose of ethanol facilitates the learning of an odor-odor relationship in infant and juvenile rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 182. Miller JS, Jagielo JA, Spear NE. (1990) Retrievability of associations to elements of the compound CS determine the expression of overshadowing. Presented at meetings of the Eastern Psychological Association.
- 183. Spear NE (I990) Sensory dominance and equivalence in the developing rat. Participant in symposium, Comparative Aspects of Intersensory Interactions in Early Development. Meetings of the International Conference on Infant Studies.
- 184. Spear NE (1990) Infantile encoding, learning and memory. Presidential Address presented at meetings of the Midwestern Psychological Association.
- 185. Kraemer PJ, Miller JS, Jagielo JA, Spear NE (1990) Transfer of training in weanling rats. Presented at meetings of the Midwestern Psychological Association.
- 186. *McKinzie DL, Miller JS, Spear NE (1990) Influence of a variable versus a fixed ITI on conditioning in preweanling rats. Presented at meetings of the Midwestern Psychological Association.
- 187. Miller JS, Molina JC, Spear NE (1990) Ontogenetic differences in the expression of odor-aversion learning. Presented at meetings of the Midwestern Psychological Association.

- 188. Jagielo JA, Miller JS, *Hunt PS, Spear LP, Spear NE (I990) The effects of conditioned brightness aversions in preweanling rats. Presented at meetings of the Research Society on Alcoholism.
- 189. *Heyser CJ, *Chen WJ, Miller JS, Spear NE, Spear LP (I990) The effects of prenatal cocaine exposure on sensory preconditioning in infant, preweanling and weanling rat pups. Presented at meetings of the International Society for Developmental Psychobiology.
- 190. *Hunt PS. Spear NE(I990) Appetitive conditioning of alcohol odor: Test of transfer to alcohol ingestion in 8-, 12- and 16-day old rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 191. Spear NE (1990) What is infantile about the infant rat's memory? Invited Address presented at meetings of the American Psychological Association.
- 192. *Hunt PS, Spear NE (1991) An ontogenetic profile of ethanol-mediated conditioned taste aversions and induced hypothermia in preweanling rats. Presented at meetings of the Midwestern Psychological Association.
- 193. *Chen WJ, Spear NE (1991) Effects of DSP4 and central noradrenergic depletion on conditioning in developing rats are opposite those of ethanol. Presented at meetings of the Midwestern Psychological Association.
- 194. Spear NE (1991) Lessons from the infant rat about brain dysfunction and memory. Symposium participant at meetings of the American Psychological Society.
- 195. Lariviere NA, Spear NE (1991) The effects of early learning experience on subsequent learning in preweanling rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 196. Hyatt L, Spear NE (1991) Rearing condition affects acquisition and retention of conditioned odor aversions in preweanling rats (8, 12 days postnatal). Presented at meetings of the International Society for Developmental Psychobiology.
- 197. *Chen WJ, Spear NE (1991) A novel texture can mediate the association of temporal disparate stimuli in developing rats.Presented at meetings of the International Society for Developmental Psychobiology.
- 198. *Kraebel KS, *Hunt PS, Spear NE (1991) Potentiation of conditioned fear to an auditory stimulus by an olfactory cue in pre-, but not postweanling rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 199. *Hunt PS, *McKinzie DL, Spear NE (1991) Conditioned fear to auditory and visual stimuli in Sprague-Dawley rat pups: The interactive effects of age and CS intensity.

 Presented at meetings of the International Society for Developmental Psychobiology.
- 200. *Arnold HM, Spear NE (1991) Reactivation of memory in 18-day old rat pups. Presented at meetings of the International Society for Developmental Psychobiology.
- 201. *Heyser CJ, Miller JS, Spear NE, Spear LP (1991) Prenatal exposure to cocaine disrupts cocaine-induced conditioned place preference. Presented at meetings of Neurobehavioral Teratology Society.

- 202. *Rajachandran L, *Chen WJ, *Goodwin GA, *Moody CA, Spear NE, Spear LP (1991)

 Prenatal cocaine exposure alters reactivity to tactile stimulation, but not other social cues. Presented at meetings of Neurobehavioral Teratology Society.
- 203. Spear NE, Kraemer PJ (1991) Retrieval processes and conditioning. Symposium participant at Animal Cognition: A Conference Honoring Donald A. Riley.
- 204. Spear NE, Miller JS, *Arnold HM (1991) Alleviation of forgetting in the infant rat. Presented at meetings of the Psychonomic Society.
- 205. *Heyser CJ, Spear NE, Spear LP (1992) Effects of prenatal exposure to cocaine on discrimination learning in adult rats. Committee on Problems of Drug Dependence. Keystone, CO.
- 206. *Arnold HM, *McKinzie DL, Spear NE (1992) A reactivation treatment is as effective as a complete conditioning trial. Presented at meetings of the Eastern Psychological Association.
- 207. *McKinzie DL, *Chen WJ, Spear NE (1992) The expression of tone and light conditioning in preweanling rats after 5 min or 24 hr intervals as a function of US intensity and number of conditioning trials. Presented at meetings of the Eastern Psychological Association.
- 208. Miller JS, Jagielo JA, Spear NE (1992) Reactivation of memory by CS- depends on the temporal relationship between CS- and CS+ during conditioning. Presented at meetings of the Midwestern Psychological Association.
- 209. *Goodwin GA, *Heyser CJ, *Moody CA, *Rajachandran L, Molina VA, *Arnold HM, *McKinzie DL, Spear NE, Spear LP (1992) A fostering study of the effects of prenatal cocaine exposure: II. Offspring behavioral measures. Presented at meetings of the Neurobehavioral Teratology Society.
- 210. Miller JS, Jagielo JA, Spear NE (1992) Reactivation of memory by CS- depends on the temporal relationship between CS- and CS+ during conditioning. Presented at meetings of the Midwestern Psychological Association.
- 211. *Bannoura MD, Spear LP, Spear NE (1992) The effects of early ethanol selfadministration on periadolescent and adult ethanol intake. Presented at meetings of the International Society for Developmental Psychobiology
- 212. *Kraebel KS, *Roepe S, Spear NE (1992) Appetitive conditioning in 12-day old rat pups produces conditioning to context but not to a (more predictive) CS. Presented at meetings of the International Society for Developmental Psychobiology
- 213. *McKinzie DL, Spear NE (1992) Age-related differences in context and CS conditioning as a result of context saliency and CS-US interval. Presented at meetings of the International Society for Developmental Psychobiology
- 214. Chen WJ, Spear NE (1992) Ontogenetic differences in nonreinforced associative learning: Potentiation and overshadowing. Presented at meetings of the International Society for Developmental Psychobiology.
- 215..*McKinzie DL, *Chen WJ, Spear NE (1992) Latent inhibition from exposure to compound stimuli in developing rats. Presented at meetings of the Psychonomic Society.

- 216. *Rajachandran, L., Spear, N.E. & Spear, L.P. (1992) Acute ethanol disrupts pattern conditioning but not context conditioning in adolescent and adult animals. Presented at meetings of Society for Neuroscience.
- 217. *Heyser CJ, *Rajachandran L, Spear NE, Spear LP (1992) The effects of prenatal exposure to cocaine on the discriminative properties of cocaine in adult rats. Society for Neuroscience.
- 218. *Brasser SM, *McKinzie DL, Molina JC, Spear LP, Spear NE (1993) Ethanol intoxication promotes odor and texture aversions in the infant rat: Presented at meetings of the Midwestern Psychological Association.
- 219. *McKinzie DL, *Lee J, Spear LP, Spear, NE (1993) The effects of ethanol on conditioning to CS and context in the preweanling rat. Presented at meetings of the Midwestern Psychological Association.
- 220. Miller JS, *McKinzie DL, *Kraebel KS, Spear NE (1993) Blocking and overshadowing represent selective memory retrieval not selective associations. Presented at meetings of the Midwestern Psychological Association.
- 221. Miller JS, Jagielo JA, Spear NE (1993) The influence of retention interval on the US preexposure effect: Changes in contextual blocking over time. Presented at meetings of the Midwestern Psychological Association.
- 222. Spear NE (1993) Reflections on infantile amnesia. Invited participant, Symposium on Animal Memory. Meetings of the Midwestern Psychological Association.
- 223. *Bannoura MD, Spear LP, Spear NE (1993) The effects of early ethanol exposure on later ethanol preference. Presented at meetings of Research Society on Alcoholism.
- 224. *Heyser CJ, *McKinzie DL, * F, Spear NE, Spear LP (1993) The effects of prenatal exposure to cocaine on heart rate and nonassociative learning in infant rats. Presented at meetings of Society for Neuroscience.
- 225. *Wagner JM, *Brasser SM, *Kaufman MR, *Roepe SB, Spear NE, Spear LP (1993)
 Greater negative transfer of passive to active avoidance learning in animals prenatally exposed to cocaine. Presented at meetings of Society for Neuroscience.
- 226. *Arnold HM, Spear NE (1993) Memory in the preweanling rat is influenced by home cage stimuli. Presented at meetings of International Society for Developmental Psychobiology.
- 227. *Bannoura MD, *Arnold HM, Chotro MG, Molina JC, Spear NE (1993) Devaluation of the aversive properties of ethanol using sucrose infusion. Presented at meetings of International Society for Developmental Psychobiology.
- 228. *Brasser SM, *McKinzie DL, Spear NE (1993) CS-US contiguity in the infant rat: Facilitative effects of context saliency. Presented at meetings of International Society for Developmental Psychobiology.
- 229. *Jonisch R, *Arnold HM, Spear NE (1993) Reactivation of memory in the 12-day old rat: Differences in learning result in differences in reactivation. Presented at meetings of International Society for Developmental Psychobiology.

- 230. *Lee J, *McKinzie DL, Spear NE (1993) Enhanced context and simultaneous compounds alleviate the deleterious effects of alcohol on learning in the preweanling rat.

 Presented at meetings of International Society for Developmental Psychobiology.
- 231. *Lonstein JS, *Chen WJ, Spear LP, Spear NE (1993) Ethanol antagonist, RO 15-4513, failed to disrupt latent inhibition in preweanling and periadolescent rats. Presented at meetings of International Society for Developmental Psychobiology.
- 232. *McKinzie DL, *Roepe S, Spear NE (1993) Prevalence of "litter effects" as assessed through multiple measures: Implications for ontogenetic studies. Presented at meetings of International Society for Developmental Psychobiology.
- 233. *Kraebel KS, *McKinzie DL, Chotro MG, *Wurtzel NL, Molina JC, Spear NE (1993)
 Chronic prenatal exposure to ethanol influences later reponsivity to the chemosensory
 cues of ethanol in infant rat pups. Presented at meetings of International Society for
 Developmental Psychobiology.
- 234. *Heyser CL, *McKinzie DL, *Athalie F, Spear NE, Spear LP (1993) The effects of prenatal exposure to cocaine on heart rate and nonassociative learning in infant rats. Presented at meetings of Society for Neuroscience.
- 234. *Wagner JM, *Brasser SM, *Kaufman MR, *Roepe SB, Spear NE, Spear LP (1993)
 Greater negative transfer of passive to active avoidance learning in animals prenatally exposed to cocaine. Presented at meetings of Society for Neuroscience.
- 235. Spear NE (1994) Foundations for the development of memory. Presidential Address, presented at meetings of Eastern Psychological Association.
- 236. *Wurtzel N, *Arnold HM, Spear NE (1994) Retention and reactivation in the 12-day old rat. Presented at meetings of the Eastern Psychological Association.
- 237. *Brasser S, McKinzie DL, Spear NE (1994) Training context preexposure impairs CS conditioning in the preweanling rat. Presented at meetings of the Midwestern Psychological Association.
- 238. *McKinzie DL, Hunt PS, Spear NE (1994) Light conditioning in the 12-day old rat pup: Facilitative influences of CS and context saliency. Presented at meetings of the Midwestern Psychological Association.
- 239. *Kraebel K, Vizvary L, Lau H, Spear NE (1994) Behavioral and physiological characteristics of the mouthing response in infant rat pups. Presented at meetings of the Midwestern Psychological Association.
- 240. Heyser CJ, Spear NE, Spear LP (1994) Effects of prenatal exposure to cocaine on spatial learning in adult rats. College of the Problems of Drug Dependence, Palm Beach, Florida.
- 241. *Bannoura MD, Richter NG, Spear NE (1994) Factors influencing context conditioning in preweanling rats. Presented at meetings of the International Society for Developmental Psychobiology.

- 242. *Brasser SM, Spear NE (1994) Developmental changes in the relationship between context and CS learning from P15 to adulthood in the rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 243. Chotro MG, *Kraebel KS, *McKinzie DL, Spear NE (1994) Postnatal exposure to ethanol via the siblings produced a tachycardic response to alcohol in infant rats. Presented at meetings of the International Society for Developmental Psychobiology.
- 244. *Esmoris-Arranz FJ, *Brasser SM, Spear NE (1994) Effect of post-training context extinction on the expression of CS fear conditioning in 17-day old rat pups. Presented at meetings of the International Society for Developmental Psychobiology.
- 245. *Kraebel KS, *Vizvary LM, Spear NE (1994) Context salience influences the amodal processing of intensity in a heart-rate habituation paradigm. Presented at meetings of the International Society for Developmental Psychobiology.
- 246. *Wurtzel NL, *Kraebel KS, Spear NE (1994) Learning and retention of an aversion to home nest odor in the 16-day old rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 247. *Hecht GS, *Athalie F, Spear NE, Spear LP (1994) The effects of prenatal exposure to cocaine and maternal separation on heart rate and nonassociative learning in infant rats. Presented at meetings of Society for Neuroscience.
- 248. *Brasser SM, Spear NE (1995) The role of arousal state in the facilitative influence of a salient context on infantile learning. Presented at meetings of the Midwestern Psychological Association.
- 249. Chotro MG, Spear NE (1995) Fetal behavior as a function of maternal alcohol ingestion and previous exposure to alcohol in the rat. Presented at meetings of the International Behavioral Neuroscience Society.
- 250. *Esmoris-Arranz FJ, *Brasser SM, Spear NE (1995) Effect of post-training context and conditioned stimulus extinction on the expression of context and conditioned stimulus fear conditioning in 17-day old rat pups. Presented at meetings of the International Behavioral Neuroscience Society.
- 250. *Bannoura MD, Varlinskaya EI, Petrov ES, Spear LP, Spear NE (1995) Early social experience, alcohol intake and aggression. Presented at meetings of the Research Society on Alcoholism.
- 251. Chotro MG, *Carpenter H, Spear NE (1995) Prenatal alcohol exposure changes responses to alcohol taste in the rat fetus. Presented at meetings of the Research Society on Alcoholism.
- 252. *Esmoris-Arranz FJ, Mendez C, Spear NE (1995) Differences between young and infant rats in the context and CS post-training extinction effect on the expression of the fear conditioned response to the context and CS. Presented at meetings of the Seventh Congress of the Spanish Society for Comparative Psychology.
- 253. *Bannoura MD, Spear NE (1995) Changes in ethanol consumption across age.

 Presented at meetings of International Society for Developmental Psychobiology.

- 254. *Brasser SM, Spear NE (1995) The influence of context salience on learning, activity, ultrasound, and startle in the preweanling rat. Presented at meetings of International Society for Developmental Psychobiology.
- 255. *Hecht GS, *Riccio LJ, Spear NE, Spear LP (1995) Intravenous self-administration of cocaine in pregnant and lactating rats. Presented at meetings of International Society for Developmental Psychobiology.
- 256. *Kraebel KS, *Vizvary L, Spear NE (1995) Amodal encoding of intensity in preweanling rats. Presented at meetings of International Society for Developmental Psychobiology.
- 257. *Hecht GS, Riccio L, Spear LP, Spear NE (1995) Effects of prenatal cocaine on stress-induced grooming. Presented at meetings of Society for Neuroscience.
- 258. Spear NE (1996) Context and learning in infant rats. Presented at meetings of Society of Experimental Psychologists, Brown University.
- 259. Spear NE (1996) Context and target learning by rat pups: Do they interact? Participant in symposium, New Perspectives on Context Learning and Forgetting: Theory and Data. Meetings of Eastern Psychological Association.
- 260. *Hembrooke H, Spear NE (1996) Holistic processing in infancy: Implications for theories of infantile amnesia. Presented at meetings of the International Conference on Infant Studies.
- 261. *Johnson J, Randall CK, Spear NE (1996) Context preexposure enhances one-trial context conditioning in 21-day old rats. Presented at meetings of Midwestern Psychological Association.
- 262. *Pepino Y, Spear NE, Molina JC (1996) Infantile intake of alcohol compounded with milk: Lack of differential responsiveness as a function of physiological concentrations of the drug in the nutrient. Presented at meetings of Research Society on Alcoholism.
- 263. *Bannoura MD, Molina JC, Spear NE (1996) Ethanol tolerance in early ontogeny. Presented at meetings of Research Society on Alcoholism.
- 264. *Kraebel KS, Molina JC, *Bushnoe L, Spear NE (1996) Ontogenetic differences in preweanling rats' autonomic and behavioral detection of ethanol in milk. Presented at meetings of Research Society on Alcoholism.
- 265. *Lee JS, *Lin J, Molina JC, Spear NE (1996) The motivational properties of alcohol ingestion in the preweanling rat. Presented at meetings of Research Society on Alcoholism, Washington, DC.
- 266. *Brasser SM, Molina JC, Spear NE (1996) Antistressor effects of alcohol in infants assessed through devaluation of an aversive memory. Presented at meetings of Research Society on Alcoholism, Washington, DC.
- 267. *Kraebel KS, Spear NE (1996) Infant rats respond to a low intensity light as if it were a low intensity tone for both orienting and learning. Presented at meetings of the International Society for Developmental Psychobiology.

- 268. *Bannoura MD, Spear LP, Spear NE (1996) Ontogenetic differences in the development of ethanol tolerance in the rat. Presented at meetings of the International Society for Developmental Psychobiology.
- 269. *Heron J, Chotro MG, *Chu A, Spear NE (1996) Neonatal responsiveness to alcohol odor after prenatal alcohol exposure in the rat: Conditioned responses? Presented at meetings of the International Society for Developmental Psychobiology.
- 270. Chotro MG, *Heron J, *Chu A, Spear NE (1996) Effect of prenatal exposure to alcohol on postnatal learning about alcohol. Presented at meetings of the International Society for Developmental Psychobiology.
- 271. *Wurtzel NL, *Rosenblum SE, Spear NE (1996) Differential age-related effects of isolation on the maintenance of a conditioned odor aversion in the preweanling rat. Presented at meetings of the International society for Developmental Psychobiology.
- 272. *Johnson JA, Randall CK, Spear NE (1996) Effects of premature visual experience on conditioned context fear and context discriminanda. Presented at meetings of International Society for Developmental Psychobiology.
- 273. Spear NE (1997) Participant in Langfeld Conference, "Current Issues in Comparative and Developmental Psychobiology", Princeton University, April.
- 274. Spear NE (1997) Context can facilitate trace conditioning in infant rats. Invited paper presented at meetings of the Midwestern Psychological Association.
- 275. Randall CK, Zentall TR, Spear NE (1997) Acquisition and delay performance of the winstay and win-shift behavior: A comparative study of pigeons and rats. Presented at meetings of the Midwestern Psychological Association.
- 276. *Lopez MF, Spear NE, Molina JC (1997) Disruptive effects of alcohol upon infantile expression of associative memories: Re-exposure to attributes of the original memory attenuates ethanol-induced deficits. Presented at meetings of the Research Society on Alcoholism.
- 277. *Pepino MY, *Lopez MF, Spear NE, Molina JC (1997) Nursing and learning experiences involving low alcohol concentrations promote later behavioral detection of alcohol in milk. Presented at meetings of the Research Society on Alcoholism.
- 278. *Bannoura MD, Spear LP, Spear NE. (1997) Effects of stress on ontogenetic differences in the expression of ethanol tolerance. Presented at meetings of the International Society for Developmental Psychobiology.
- 279. *Brasser SM, *Kraebel KS, *Campbell JO, Spear LP, Spear NE (1997) Developmental differences in temporal patterns and potentiation of isolation-induced ultrasonic vocalizations. Presented at meetings of the International Society for Developmental Psychobiology.
- 280. *Crawford J, *Bannoura MD, Molina JC, Spear NE (1997) Expired ethanol odor as a cue in the development of tolerance in periadolescent rats. Presented at meetings of the International Society for Developmental Psychobiology.

- 281. Varlinskaya EI, Spear NE (1997) Modification of social behavior and play fighting: Role of environmental and social factors. Presented at meetings of the International Society for Developmental Psychobiology.
- 282. Randall CK, Spear NE (1998) The effects of alcohol on time perception in rats. Presented at meetings of the Midwestern Psychological Association.
- 283. Sarbaum J, Polachek S, Spear NE (1998) The effects of price changes on the consumption of alcohol in alcohol experienced rats. Presented at meetings of The Economic Analysis of Substance Use and Abuse: An Integration of Econometric and Behavioral Economic Research (sponsored by National Bureau of Economic Research).
- 284. Spear NE (1998) Perinatal exposure to ethanol affects the rat's responsiveness to ethanol later in life. Presented as participant in symposium, Teratogenic and Genetic Influences on Adolescent and Adult Alcohol Use and Abuse, at meetings of the Research Society on Alcoholism.
- 285. *Pepino MY, *Johnson JM, Spear NE, Molina JC (1998) Behavioral changes in the developing rat as a function of ethanol processing within the nursing context. Presented at meetings of the Research Society on Alcoholism.
- 286. *Kraebel KS, *Cheslock SJ, Molina JC, Spear NE (1998) Ethanol cardiac recognition and intake as a function of prenatal and/or nursing experiences with ethanol. Presented at meetings of the Research Society on Alcoholism.
- 287. Varlinskaya EI, Petrov ES, Spear NE (1998) Ontogeny of the reinforcing properties of ethanol: Newborn rats ingest ethanol through a surrogate nipple. Presented at meetings of the Research Society on Alcoholism.
- 288. Hecht GS, Spear NE, Spear LP (1998) Effects of reproductive cycle on operant responding for cocaine and sucrose. Presented at meetings of International Study Group Investigating Drugs as Reinforcers.
- 289. Varlinskaya EI, *Kraebel KS, *Cheslock SJ, Spear NE (1998) Ethanol and social behavior of adolescent rats: Role of prenatal and early postnatal experience with alcohol. Presented at meetings of Society for Neuroscience.
- 290. *Kraebel KS, Spear NE (1999) Age-related response dissociation to stimulus intensity: Behavioral vs. autonomic indices. Presented at meetings of International Behavioral Neuroscience Society, Nancy, France.
- 291. *Brasser SM, Spear NE (1999) Increased acoustic startle-induced ultrasonic vocalizing in adolescent rats during ethanol withdrawal. Presented at meetings of Research Society on Alcoholism, Santa Barbara.
- 292. *Cheslock SJ, Varlinskaya EI, Silveri MM, Petrov ES, Spear LP, Spear NE (1999) Alcohol exposure and the first suckling episode in the neonatal rat. Presented at meetings of Research Society on Alcoholism, Santa Barbara.
- 293. Varlinskaya EI, Petrov ES, Spear NE (1999) Endogenous opioid systems and the reinforcing properties of ethanol in the newborn rat. Presented at meetings of Research Society on Alcoholism, Santa Barbara.

- 294. Land CL, Spear NE (1999) Ethanol enhances memory for aversively-motivated classical conditioning in infant rats. Presented at meetings of Research Society on Alcoholism, Santa Barbara.
- 295. Land CL, Spear NE (1999) Ethanol impairs memory of an appetitive discrimination in periadolescent rats at doses that leave adult memory unaffected. Presented at meetings of the International Society for Developmental Psychobiology, Coral Gables, FL.
- 296. *Cheslock SJ, Varlinskaya EI, Petrov ES, Spear NE (1999) Olfactory conditioning with milk in newborns promotes nonnutritive suckling. Presented at meetings of the International Society for Developmental Psychobiology, Coral Gables., FL.
- 297. *Nizhnikov ME, Petrov ES, Spear NE (1999) Responsiveness to the surrogate nipple providing primary tastants in newborn rats. Presented at meetings of the International Society for Developmental Psychobiology, Coral Gables, FL.
- 298. *Douglas LA, Varlinskaya EI, Spear NE, Spear LP (1999) Variations in periadolescent social play behavior due to housing conditions and partner activity. Presented at meetings of the International Society for Developmental Psychobiology, Coral Gables, FL.
- 299. *Truxell EM, Land CL, *Pepino MY, Molina JC, Spear NE (1999) Ethanol as an internal cue for predicting reward and nonreward in periadolescent rats. Presented at meetings of the International Society for Developmental Psychobiology, Coral Gables, FL
- 300. *High JM, *Cheslock SJ, Spear NE (1999) Experience does not modify ethanol selfadministration in infant rats. Presented at meetings of the International Society for Developmental Psychobiology, Coral Gables, FL
- 301. *Cheslock SJ, Varlinskaya EI, Petrov ES, Spear NE (1999) The reinforcing properties of alcohol in the first suckling episode. Presented at meetings of the Society for Neuroscience, Miami Beach, FL.
- 302. *Pepino MY, *Abate P, Spear NE, Molina JC (2000) Infant rats breastfed by alcohol-intoxicated dams: Impact upon preweanling and periadolescent patterns of alcohol consumption. Presented at meetings of Research Society on Alcoholism, Denver, CO.
- 303. *Abate P, Spear NE, Molina JC (2000) Infantile consumption of a flavored solution (cineole) as a function of fetal experiences defined by the association between this chemosensory cue and alcohol's unconditioned properties. Presented at meetings of Research Society on Alcoholism, Denver, CO.
- 304. Land CL, Spear NE (2000) Ethanol administered following learning modulates stimulus selection in periadolescent rats. Presented at meetings of Research Society on Alcoholism, Denver, CO.
- 305. *Pepino MY, Land CL, *Campbell J, Spear NE, Molina JC (2000) Infantile experience with an alcohol-intoxicated mother: Responsiveness to isolation and to specific social interactions. Presented at meetings of Research Society on Alcoholism, Denver, CO.

- 306. Petrov ES, Varlinskaya EI, Spear NE (2000) Self-administration of ethanol and saccharin in newborn rats: Effects on suckling plasticity. Presented at meetings of the International Society for Developmental Psychobiology, New Orleans.
- 307. Varlinskaya EI, Spear LP, Spear NE (2000) Acute effects of ethanol on behavior of adolescent rats: Role of social context. Presented at meetings of the International Society for Developmental Psychobiology, New Orleans.
- 308. *Nizhnikov ME, Petrov ES, Varlinskaya EI, Spear NE (2000) Responsiveness to primary tastants and behavioral plasticity in the context of suckling. Presented at meetings of the International Society for Developmental Psychobiology, New Orleans.
- 309. *Truxell EM, Spear NE (2000) Effect of ethanol concentration and age on selfadministration of ethanol in infant rats. Presented at meetings of the International Society for Developmental Psychobiology, New Orleans.
- 310. *Cheslock SJ, *High JM, Varlinskaya EI, Spear NE (2000) Perceptual configuration in newborn rats: Sensory preconditioning and second order conditioning. Presented at meetings of the International Society for Developmental Psychobiology, New Orleans.
- 311. Land CL, Pauly J, Spear NE (2000) Ethanol impairs Pavlovian conditioning in periadolescent rats. Presented at meeting of Society for Neuroscience, New Orleans.
- 312. Spear NE (2001) Alcohol and learning in the newborn rat. Invited presentation at Society for Experimental Psychologists, Princeton University, Princeton, NJ.
- 313. Petrov ES, Varlinskaya EI, Spear NE (2001) Reinforcement from ethanol's pharmacological effects in newborn rats. Presented at meetings of Research Society on Alcoholism, Quebec.
- 314. *Pautassi RM, Spear NE, Molina JC (2001) Alcohol-mediaed taste aversion in infant rats: Inhibitory effects of a stimulus paired with the onset of the state of intoxication. Presented at meetings of Research Society on Alcoholism, Quebec.
- 315. *Pepino MY, *Abate P, Spear NE, Molina JC (2001) Maternal alcohol metabolic adaptation during the nursing period in the rat: Gastric origin? Presented at meetings of Research Society on Alcoholism, Quebec.
- 316. *Pepino MY, *Abate P, Spear NE, Molina JC (2001) Nursing experiences with an alcohol-intoxicated dam modify infant rats' behavioral and metabolic responsiveness to an alcohol challenge. Presented at meetings of Research Society on Alcoholism, Quebec.
- 317. *Abate P, *Cheslock SJ, Varlinskaya EI, Molina JC, Spear NE (2001) Alcohol-mediated olfactory conditioning in utero: Effects upon the first suckling response in neonatal rats. Presented at meetings of Research Society on Alcoholism, Quebec.
- 318. *Abate P, *Pepino MY, Spear NE, Molina JC (2001) Fetal associative learning with alcohol: Maternal hypothermia predicts neonatal responsiveness to chemosensory cues of the drug. Presented at meetings of Research Society on Alcoholism, Quebec.
- 319. *Nizhnikov M, Petrov ES, Varlinskaya EI, *Evin E, Spear NE (2001) Incentive and reinforcing properties of basic macronutrients in the context of suckling in the rat.

- Presented at meetings of International Society for Developmental Psychobiology, San Diego.
- 320. Spear NE (2001) Consequences of very early exposure to alcohol. Invited presentation for Dean's Distinguished Lecture Series, Binghamton University, November.
- 321. Spear NE (2002) Consequences of early exposure to alcohol. Invited presentation for Psychobiology Lecture Series, Binghamton University, April.
- 322. *Ponce LF, *Pautassi RM, Spear NE, Molina JC (2002) Infantile interactions with an alcohol-intoxicated dam: Impairment in motor coordination capabilities. Presented at meetings of Research Society on Alcoholism, San Francisco.
- 323. *Pautassi RM, *Ponce LF, Spear NE, Molina JC (2002) The pharmacological consequences of alcohol support inhibitory and excitatory aversive conditioning in infant rats. Presented at meetings of Research Society on Alcoholism, San Francisco.
- 324. *Fernandez-Vidal JM, Spear NE, Molina JC (2002) Social learning and alcohol: Interactions with an intoxicated sibling generate an ethanol odor preference in periadolescent rats. Presented at meetings of Research Society on Alcoholism, San Francisco.
- 325. *Abate P, *Haymal BO, Spear NE, Molina JC. (2002) Alcohol-mediated associative learning in utero: Neonatal reactivation through re-exposure to the pharmacological effects of the drug. Presented at meetings of Research Society on Alcoholism, San Francisco.
- 326. Petrov ES, Nizhnikov ME, Varlinskaya EI, Spear NE (2002) Neonatal alcohol-preferring (P) and nonpreferring (NP) rats differ in their responsiveness to ethanol. Presented at meetings of Research Society on Alcoholism, San Francisco.
- 327. *Bordner KA, Nizhnikov ME, Petrov ES, Spear NE (2002) Continual exposure to ethanol in newborn rats in the suckling context. Presented at meetings of Research Society on Alcoholism, San Francisco.
- 328. *Truxell E, Spear NE (2002) Infant and periadolescent rats prefer high concentrations of ethanol in terms of absolute intake. Presented at meetings of Research Society on Alcoholism, San Francisco.
- 329. Kozlov AP, Kramskaya TA, *Nizhnikov ME, Petrov ES, Spear NE (2002) Early postnatal development of sucking activity in newborn rats (P0-P2) on a surrogate nipple. Presented at meetings of International Society for Developmental Psychobiology, Orlando.
- 330. *Nizhnikov ME, Petrov ES, Varlinskaya EI, Spear NE (2002) Incentive and reinforcing properties of direct central injection of dynorphin A(1-13) in newborn rats. Presented at meetings of International Society for Developmental Psychobiology, Orlando.
- 331. *Truxell E, Spear NE (2002) Concentration preference of self-administered ethanol in infant and adolescent P and NP rats. Presented at meetings of International Society for Developmental Psychobiology, Orlando.
- 332. *Bordner KA, Spear NE (2003) Reinforcing effects of ethanol in 1-day old rats. Presented at meetings of Research Society on Alcoholism, June, Fort Lauderdale.

- 333. *Nizhnikov ME, Petrov ES, Varlinskaya EI, Spear NE (2003) Prenatal exposure to ethanol modifies responsiveness to ethanol early in life. Presented at meetings of Research Society on Alcoholism, June, Fort Lauderdale.
- 334. *Fernandez-Vidal JM, *Melloni C, Spear NE, Molina JC (2003) Interactions between prenatal alcohol exposure and socially transmitted alcohol preferences in juvenile rats. Presented at meetings of Research Society on Alcoholism, June, Fort Lauderdale.
- 335. *Abate P, *Truxell E, Spear NE, Molina JC (2003) Infantile alcohol experience during breastfeeding: Possible association between a salient orosensory cue (cineole) and alcohol-related maternal disruption. Presented at meetings of Research Society on Alcoholism, June, Fort Lauderdale.
- 336. *Fernandez-Vidal JM, Spear NE, Molina JC (2003) Alcohol as an appetitive unconditioned stimulus in juvenile rats subjected to a discriminative conditioning procedure. Presented at meetings of Research Society on Alcoholism, June, Fort Lauderdale.
- 337. Spear NE (2003) Very early learning about alcohol. Presidential Address for Division 6 (Behavioral Neuroscience). Presented at meetings of American Psychological Association, August, Toronto.
- 338. *Truxell EM, Spear NE (2003) Repeated exposure to ethanol or ethanol odor, but not sweetened ethanol, increases preference for ethanol in adult and adolescent rats. Presented at meetings of International Society for Developmental Psychobiology. November, New Orleans.
- 339. *Bordner KA, *Baker CE, *Myers M, *Scotland A, *Yost M, Spear NE (2003) Trace conditioning in 1-day old rat pups. Presented at meetings of International Society for Developmental Psychobiology. November, New Orleans.
- 340. *Sedgh S, *Truxell E, Spear NE (2003) The ontogeny of bitter taste may influence ethanol consumption in infant rats. Presented at meetings of International Society for Developmental Psychobiology. November, New Orleans.
- 341. *Sanders SK, Spear NE (2003) Ethanol intake in the rat during early infancy. Presented at meetings of International Society for Developmental Psychobiology. November, New Orleans
- 342. *Nizhnikov ME, Petrov ES, Varlinskaya EI, Spear NE (2003) Central administration of dynorphin A (1-13) in newborn rat pups: Immediate behavioral consequences and reinforcing effects in newborn rats. Presented at meetings of Society for Neuroscience. November, New Orleans.
- 343. Kozlov AP, Petrov ES, Kashinsky W, Kramskaya TA, Spear NE (2003) Behavioral analysis of the effective milk extractions from surrogate nipple in newborn rats. Presented at meetings of Society for Neuroscience, November, New Orleans.
- 344. *Sanders SK, Spear NE (2004) Self-administration of ethanol and other fluids by the infant rat during early infancy. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.

- 345. *Nizhnikov ME, Spear NE (2004) Enhanced effectiveness of ethanol as a reinforcer for newborn rats as a result of prenatal ethanol exposure. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.
- 346. Youngentob SL, Kent PF, Mooney SM, Spear NE, Molina JC (2004) In utero ethanol experience and olfactory plasticity. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.
- 347. *Pueta M, *Abate P, Spear NE, Molina JC (2004) Interactions between ethanol exposure during gestation and breastfeeding upon maternal care. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.
- 348. *Abate P, *Pueta M, Spear NE, Molina JC (2004) Ethanol-mediated learning modulates neonatal responsiveness to an ethanol scented artificial nipple. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.
- 349. *Ponce LF, *Pautassi RM, Spear NE, Molina JC (2004) Nursing from an ethanol-intoxicated dam alters motor coordination capabilities and self-administration of the drug in a dose-dependent fashion. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.
- 350. *Pautassi RM, *Sanders SK, *Truxell E, Spear NE, Molina JC (2004) Ethanol devaluates an aversive memory following conditioning in infant rats. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.
- 351. *Pautassi RM, *Sanders SK, *Truxell E, *Miller S, Spear NE, Molina JC (2004) Changes in ethanol's motivational effects as a function of the development of the toxic process. Presented at meetings of Research Society on Alcoholism, June, Vancouver, British Columbia.
- 352. *Sanders SK, Spear NE (2005) Ethanol ingestion in the infant rat is increased by previous ethanol ingestion. Presented at meetings of Research Society on Alcoholism, June, Santa Barbara, CA.
- 353. *Pueta M, *Abate P, Spear NE, Molina JC (2005) Infantile ethanol intake is modulated by pre- and postnatal experiences with the drug. Presented at meetings of Research Society on Alcoholism, June, Santa Barbara, CA.
- 354. *Pautassi RM, *Melloni C, *Ponce LF, Spear NE, Molina JC (2005) Ethanol acute intoxication disrupts the acquisition of an odor aversion in infant rats. Presented at meetings of Research Society on Alcoholism, June, Santa Barbara, CA.
- 355. *March SM, *Duarte E,*Abate P, Spear NE, Molina JC (2005) Evidence of long-delay prenatal conditioning mediated by ethanol maternal-fetal intoxication. Presented at meetings of Research Society on Alcoholism, June, Santa Barbara, CA.
- 356. *Ponce LF, Spear NE, Molina JC (2005) Evidence of ethanol reinforcing properties during infancy evaluated through a second-order conditioning paradigm. Presented at meetings of Research Society on Alcoholism, June, Santa Barbara, CA.
- 357. *Pueta M, Spear NE, Molina JC (2005) Development of rapid tolerance in preweanling rats expressed through changes in motor elicited patterns. Presented at meetings of Research Society on Alcoholism, June, Santa Barbara, CA.

- 358. Bordner KA, Deak T, Spear NE (2005). Evidence for involvement of endogenous opioids in response to neonatal ethanol exposure. Presented at the annual meeting of the Society for Neuroscience, Washington, DC.
- 359. *Sanders SK, *Bordner KA, *Truxell EM, Spear NE, Molina JC (2005) Enhanced ethanol consumption following repeated ethanol experiences in varying social conditions during infantile development. Presented at meetings of International Society for Developmental Psychobiology, November, Washington, DC.
- 360. *Truxell EM, *Ponce L, Spear NE, Molina JC (2005) Appetitive responsiveness to chemosensory cues associated with acute ethanol intoxication in infant rats. Presented at meetings of International Society for Developmental Psychobiology, November, Washington, DC.
- 361. *Bordner KA, *Myers ML, *Gottesman D, Spear NE (2005) Olfactory learning in the one-day old rat: Reinforcing effects of isoproterenol. Presented at meetings of International Society for Developmental Psychobiology, November, Washington, DC.
- 362. Kozlov AP, Kramskaya TA, Spear NE (2005) Classical conditioning in the infant rat with ethanol odor as the CS. Presented at meetings of Society for Neuroscience, November, Washington, DC.
- 363. Nizhnikov ME, Varlinskaya EI, Petrov ES, Spear NE (2005) Reinforcing properties of ethanol in neonatal rats: Involvement of the opiate system. Presented at meetings of Society for Neuroscience, November, Washington, DC.
- 364. Kozlov AP, Varlinskaya EI, Spear NE (2006) New probe for taste responsiveness to ethanol in the infant rat. Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 365. Nizhnikov ME, Molina JC, Boehm SL, Spear NE (2006) Effects of ethanol and midazolam on ultrasound emissions in the isolated infant rat pup. Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 366. *March SM, Abate P, Haymal OB, Spear NE, Molina, J.C. (2006) Operant conditioning in neonate rats as a function of an ethanol-mediated associative fetal memory.

 Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 367. *Sanders SK, Spear NE (2006) Effects of repeated ethanol ingestion on the latency to right in the infant rat. Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 368. *Truxell EM, Molina JC, Spear NE (2006) Infant rats are sensitive to biphasic motivational properties of ethanol intoxication. Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 369. Pueta M, Abate P, Haymal OB, Spear NE, Molina JC (2006) Interactions between ethanol exposure and breastfeeding upon maternal care and metabolic profiles.

 Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 370. Ponce LF, Pautassi RM, Spear NE, Molina JC (2006) Ethanol reinforcing properties during infancy in the rat: Operant self-administration of the drug. Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.

- 371. Arias C, *Sanders SK, Chotro MG, Molina JC, Spear NE (2006) Differential motivational properties of a high ethanol dose as a function of early postnatal development. Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 372. *Bordner KA, Molina JC, Spear NE (2006) Operant conditioning supported by ethanol reinforcement in the newborn rat. Presented at meetings of Research Society on Alcoholism, June, Baltimore, MD.
- 373. Spear NE (2006) How ISDP changed my life: Tests of ethanol intake and reinforcement in early ontogeny. Past President Address. Presented at meetings of International Society for Developmental Psychobiology, October, Atlanta, GA.
- 374. Arias C, Molina A, Spear NE, Molina JC (2006) Operant conditioning in 5-day old rats: Changes in milk self-administration patterns. Presented at meetings of International Society for Developmental Psychobiology, October, Atlanta, GA.
- 375. Chotro MG, Arias C, Spear NE (2006) Prenatal ethanol exposure interferes with postnatal learning about ethanol as a function of age in rats pups. Presented at meetings of International Society for Developmental Psychobiology, October, Atlanta, GA.
- 376. *Miller SS, Spear NE (2006) Associative and nonassociative learning soon after birth. Presented at meetings of International Society for Developmental Psychobiology, October, Atlanta, GA.
- 377. Molina JC, Pautassi RM, *Truxell EM, Spear NE (2006) Locomotive and thermal effects of ethanol underlying the acquisition of ethanol-mediated second-order conditioning. Presented at meetings of International Society for Developmental Psychobiology, October, Atlanta, GA.
- 378. Nizhnikov ME, Varlinskaya EI, Spear NE (2006) Reinforcing effects of central ethanol injections in newborn rat pups: Classical olfactory conditioning with lemon odor. Presented at meetings of International Society for Developmental Psychobiology, October, Atlanta, GA.
- 379. Pautassi RM, *Truxell EM, Molina JC, Spear NE (2006) Motivational properties of ethanol in preweanling rats assessed by means of a novel operant learning tasks. Presented at meetings of International Society for Developmental Psychobiology, October, Atlanta, GA.
- 380. *Bordner KA, Deak T, Spear NE (2006) Alterations in the endogenous opioid system across early ontogeny and following acute ethanol administration. Presented at annual meeting of Society for Neuroscience, October, Atlanta.
- 382. Pautassi RM, Nizhnikov ME, Molina JC, Spear NE (2007) Differential effects of ethanol and midazolam in the devaluation of an early aversive memory. Presented at annual meeting of Research Society on Alcoholism, July, Chicago.
- 383. Pautassi RM, Molina JC, Spear NE (2007) Rat pups reject ethanol's sensory cues and are positively reinforced by the drug's postabsortive effects. Presented at annual meeting of Research Society on Alcoholism, July, Chicago.
- 384. Arias C, Pautassi RM, Murphy H, Molina JC, Spear NE (2007) Similarity between conditioned aversion to ethanol and to lithium chloride in preweanling rats. Presented at annual meeting of Research Society on Alcoholism, July, Chicago.

- 385. *Bordner KA, *Richey LM, Deak T, Spear NE (2007) Assessment of brain opioid-related mRNA in the one-day-old infant rat following prenatal and/or postnatal ethanol exposure. Presented at annual meeting of Research Society on Alcoholism, June, Chicago.
- 386. * Sanders SK (2007) Ethanol intoxication has little effect on ethanol intake in the infant rat. Presented at annual meeting of Research Society on Alcoholism, June, Chicago.
- 387. *Myers ML, *Miller SS, Molina JC, Spear NE (2007) High affinity for ethanol ingestion during the course of early ontogeny in genetically heterogeneous rats. Presented at annual meeting of Research Society on Alcoholism, June, Chicago.
- 388. *Ponce LF, Pautassi RM, Spear NE, Molina JC (2007) Operant infantile self-administration of ethanol: Role of prior exposure to the drug and effects upon adolescent ethanol intake. Presented at annual meeting of Research Society on Alcoholism, June, Chicago.
- 389. *March SM, Abate P, Spear NE, Molina JC (2007) Late prenatal ethanol experiences increase neonatal operant behavior reinforced with the drug. Presented at annual meeting of Research Society on Alcoholism, June, Chicago.
- 390. *Pueta M, Abate P, Haymal OB, Spear NE, Molina JC (2007) Effects of prenatal ethanol experienced upon maternal metabolism and pup/dam interactions during breastfeeding. Presented at annual meeting of Research Society on Alcoholism, June, Chicago.
- 391. Arias C, Mlewski C, Pautassi R, Spear NE, Molina JC (2007) Infantile behavioral sensitivity to ethanol as a function of late prenatal exposure to the drug. Presented at annual meeting of Research Society on Alcoholism, June, Chicago.
- 392. *Myers ML, Pautassi RM, Molina JC, Spear, LP, Spear NE (2007) Adolescent rats are sensitive to the positive rewarding effects of ethanol. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego.
- 393. Arias C, Mlewski EC, Spear NE, Molina JC (2007) Activating effects of ethanol during the course of early ontogeny in the rat. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego.
- 394. *Miller SS, Arias C, Molina JC, Spear NE (2007) Breathing rate response to ethanol and a novel odor after prenatal exposure to ethanol in 1- and 13-day old rats. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego.
- 395. *Bordner KA, Molina JC, Spear NE (2007) Operant learning in the newborn rat:
 Persistence of responding. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego
- 396. *Sanders SK, Boehm SL, Spear NE (2007) Ethanol intake in both DBA/2J and C57BL/6J infant mice is greater than water intake. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego.

- 397. Kozlov AP, Varlinskaya EI, Kramskaya TA, Spear NE (2007) Pharmacological effects of ethanol on ingestive behavior of the preweanling rat. Presented at annual meeting of Society for Neuroscience, November, San Diego.
- 398. *Sanders SK, *Zarmon, *Spencer RL, Spear NE (2007) Ontogenetic differences insensitivity and acute tolerance to ethanol in infant rats. Presented at annual meeting of Society for Neuroscience, November, San Diego.
- 399. *March SM, Abate P, Spear NE, Molina JC (2008) Further examination of neonatal learning mediated by ethanol as a function of prenatal experience with the drug. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 400. Pautassi RM, Nizhnikov ME, Molina JC, Spear NE (2008) Inhaled ethanol induces conditioned preference and aversion in infant rats. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 401. *Seo B, Pautassi RM, Molina JC, Spear NE (2008) Acute and conditioned effects of ethanol upon breathing patterns in preweanlings. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 402. *Bordner KA, Deak T, Spear NE (2008) Prenatal ethanol exposure: Age-dependent alterations in later ethanol intake. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 403. Arias C, Mlewski EC, Molina JC, Spear NE (2008) Naloxone and baclofen attenuate motor activating effects of ethanol in preweanling Sprague-Dawley rats. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 404. Eade AM, Molina JC, Spear NE, Kent LM, Youngentob LM, Youngentob SL (2008) Fetal ethanol-induced olfactory plasticity: The effect of adolescent ethanol re-exposure on the olfactory response to ethanol odor. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 405. *Sanders SK, *Spencer RL, *Fontanetta R, *Lee K, *Gardon M, Spear NE (2008) Agerelated effects of picrotoxin on ethanol intake in the infant rat. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 406. *Sanders SK, Boehm SL, Spear NE (2008) The ontogeny of ethanol consumption in DBA/2J and C57BL/6J mice. Presented at annual meeting of Research Society on Alcoholism, June, Washington, DC.
- 407. Miller SS, Arias C, Spear NE (2008) Baseline locomotor activity and prenatal ethanol predict ethanol intake in preweanling heterogeneous rats. Presented at annual meeting of International Society for Developmental Psychobiology, November, Washington, D.C.
- 408. Zawadzka SM, Miller SS, Spear NE (2008) Effect of dam presence on retention of olfactory learning soon after birth. Presented at annual meeting of International Society for Developmental Psychobiology, November, Washington, D.C.
- 409. Kozlov AP, Kramskaya TA, Nizhnikov ME, Varlinskaya EI, Spear NE (2008) Ingestion of saccharin in preweanling rats and endogenous activity at mu opioid receptors.

- Presented at annual meeting of Society for Neuroscience, November, Washington, D.C.
- 410. Nizhnikov ME, Pautassi RM, Molina JC, Spear NE (2008) First-order tactile conditioning induced by ethanol in infant rats. Presented at annual meeting of Society for Neuroscience, November, Washington, D.C.
- 411. Myers ML, Pautassi RM, Nizhnikov ME, Spear LP, Molina JC, Spear NE (2009) Highdose ethanol induces second-order aversive conditioning in adolescent and adult Sprague-Dawley rats. Presented at annual meeting of Research Society on Alcoholism, June, San Diego, CA.
- 412. Pautassi RM, Nizhnikov ME, Spear NE (2009) Ethanol-induced conditioned place preference in infant rats is inhibited by opioid antagonists. Presented at annual meeting of Research Society on Alcoholism, June, San Diego, CA.
- 413. Cullere ME, Pautassi RM, Ponce LF, Spear NE, Abate P, Molina JC (2009) Low- and high-ethanol doses change the appetitive hedonic value of a natural reinforcer in infant rats: Inflation and deflation effects. Presented at annual meeting of Research Society on Alcoholism, June, San Diego, CA.
- 414. Arias C, Molina JC, Spear NE (2009) Role of mu, delta and kappa receptors upon ethanol intake and ethanol-mediated locomotor stimulation in preweanling rats. Presented at annual meeting of Research Society on Alcoholism, June, San Diego, CA.
- 415. Miller SS, Arias C, Spear NE (2009) Adolescent rats are sensitive to ethanol-induced locomotor stimulation. Presented at annual meeting of Research Society on Alcoholism, June, San Diego, CA.
- 416. Sanders SK, Spencer RL, Yee K, Gardon M, Fontanetta R, Spear NE (2009) Ethanol sensitivity and acute tolerance in the infant rat. Presented at annual meeting of Research Society on Alcoholism, June, San Diego, CA.
- 417. Miranda Morales RS, Molina JC, Spear NE, Abate P (2009). Participation of the opioid system in acquisition of prenatal ethanol related memories: effects upon neonatal and infantile responsiveness to the drug. Presented at annual meeting of Research Society on Alcoholism. San Diego, CA, USA. June, 2009.
- 418. Solari AC, Arias C, Mlewski C, Molina JC & Spear NE (2009) Stress as modulator of alcohol stimulating effects. XII Congreso Nacional y I Encuentro Internacional de la Asociación Argentina de Ciencias del Comportamiento. Buenos Aires, Argentina. August, 2009.
- 419. Arias C, Mlewski C, Miller S, Hansen C, Molina JC, Spear NE (2009). Infant high and low responders to novelty: Differential sensitivity to ethanol-mediated stimulation. . XII Congreso Nacional y I Encuentro Internacional de la Asociación Argentina de Ciencias del Comportamiento. Buenos Aires, Argentina. August, 2009.
- 420. Pautassi RM, Nizhnikov M & Spear NE (2009). High but not low ethanol doses induce corticosterone release in infant rats". XII Reunión Nacional y I Encuentro Internacional de la Asociación Argentina de Ciencias del Comportamiento. Buenos Aires Argentina. August, 2009.

- 421. Pautassi RM., Molina JC, Spear LP, Spear NE (2009) "Operant self-administration of alcohol and sucrose in adolescent rats". IRCN, First Joint Meeting of the Argentine Society for Neurosciences (SAN) and the Argentine Workshop in Neurosciences (TAN) Huerta Grande, September, 2009.
- 422. Solari AC, Arias C, Molina JC & Spear NE (2009). Social Isolation enhances ethanol-mediated locomotor stimulation in preweanling rats. Argentinean Society of Neurosciences. Córdoba, Argentina. September, 2009.
- 423. Kozlov AP, Kramskaya ME, Nizhnikov ME, Varlinskaya EI, Spear NE (2009) Agedependent effects of low dose ethanol in infant rats depends on stress, opioid activity and sex. Presented at annual meeting of Society for Neuroscience, October, Chicago.
- 424. Miller SS, Spear NE (2010) The effects of moderate prenatal ethanol exposure in neonates, preweanlings and weanlings: A longitudinal design. Presented at annual meeting of Research Society on Alcoholism, June, San Antonio, TX.
- 425. Sanders SK, Spear NE (2010) Daily ethanol intake is high in the rat during infancy.

 Presented at annual meeting of Research Society on Alcoholism, June, San Antonio,
 TX.
- 426. Nizhnikov ME, Varlinskaya EI, Spear NE (2010) Ontogenetic differences in ethanol's motivational properties. Presented at annual meeting of Research Society on Alcoholism, June, San Antonio, TX.
- 427. March SM, Cullere ME, Abate P, Spear NE, Molina JC (2010) Central acetaldehyde supports appetitive conditioning in newborn rats. Presented at annual meeting of Research Society on Alcoholism, June, San Antonio, TX.
- 428. Cullere ME, March SM, Spear NE, Molina JC. (2010) Effects of pre- and postnatal ethanol exposure upon maternal behavior and infantile ultrasonic vocalizations. Presented at annual meeting of Research Society on Alcoholism, June, San Antonio, TX.
- 429. Pautassi RM, Nizhnikov ME, Spear NE (2010) Ethanol-mediated appetitive reinforcement and behavioral stimulation in infant rats is inhibited by an acetaldehyde-sequestering agent. Presented at 2010 World Congress of International Society for Biomedical Research on Alcoholism. September, Paris, France.
- 430. Arias C, Solari AC, Molina JC, Spear NE (2010) The synergism between ethanol and stress is mediated by CRF1 receptors in preweanling rats. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego, CA.
- 431. Revillo DA, Molina JC, Spear NE, Arias C (2010) Ontogeny of amphetamine- and LiCl-induced conditioned taste avoidance in the infant rat. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego, CA.
- 432. Miller SS, Darnieder L, Lynn D, Spear NE (2010) The effect of neonatal ethanol on conditioned taste aversion learning in preweanlings. Presented at annual meeting of International Society for Developmental Psychobiology, November, San Diego, CA.

- 433. Kozlov AP, Nizhnikov ME, Varlinskaya EI, Spear NE (2010) Endogenous activity at mu opioid receptors and ethanol-induced effects in preweanling rat pups. Presented at annual meeting of Society for Neuroscience, November, San Diego, CA.
- 434. Acevedo MB, Spear NE, Pautassi RM (2011) Sensitivity to ethanol stimulation and ethanol intake in adolescent and adult rats. Meeting of the Latin-American Society for Biomedical Research on Alcoholism. March 31-April 1, San Paulo, SP, Brazil.
- 435. Fabio MC, Spear NE, Pautassi RM (2011) Passive initiation to alcohol during adolescence influences later voluntary alcohol consumption. Meeting of the Latin-American Society for Biomedical Research on Alcoholism. March 31-April 1, San Paulo, SP, Brazil.
- 436. Spear NE (2011) Ontogeny of ethanol reinforcement. Colloquium presentation at University of Kentucky, April, Lexington, KY.
- 437. Sanders SK, Waters DH, Goldberg A, Ghose I, Arana N, Spear NE (2011) Ethanol intake increases sharply with development during the first two postnatal weeks, then rapidly decreases. Presented at annual meeting of Research Society on Alcoholism, June, Atlanta, GA.
- 438. March SM, Abate P, Spear NE, Molina JC (2011) The role of acetaldehyde in ethanol reinforcement assessed through classical conditioning in rat neonates. Presented at annual meeting of Research Society on Alcoholism, June, Atlanta, GA.
- 439. Cullere ME, Spear NE, Molina JC (2011) Ethanol exposure during late gestation: Longterm sensitization to hedonic properties of a natural reinforcer. Presented at annual meeting of Research Society on Alcoholism, June, Atlanta, GA.
- 440. Nizhnikov ME, Pautassi RM, Varlinskaya EI, Rahmani P, Spear NE. (2011) Ontogenetic differences in kappa opioid mediation of ethanol's motivation properties. Presented at First Conference on the Therapeutic Potential of Kappa Opioids in Pain and Addiction (Kappa Therapeutics), July, Seattle, WA.
- 441. Bobbio A, Castello DA, Revillo DA, Orellana E, Spear NE, Arias C (2011) The unconditioned stimulus pre-exposure effect in preweanling rats in taste aversion learning: Lack of context dependence. Presented at annual meeting of International Society for Developmental Psychobiology, November, Washington, DC.
- 442. Arias C, Revillo DA, Spear NE (2011) The unconditioned stimulus pre-exposure effect induced by ethanol, and cross-familiarization between LiCl and ethanol in preweanling rats. Presented at annual meeting of International Society for Developmental Psychobiology, November, Washington, DC.
- 443. Kozlov AP, Nizhnikov ME, Spear NE (2012) Ultrasound vocalization and independent ingestive activity during social isolation in preweanling rats. Presented at 17th Multidisciplinary International Conference on Neuroscience and Biological Psychiatry, "Stress and Behavior", ISBS conference, May, St. Petersburg, Russia.
- 444. Pautassi RM, Nizhnikov ME, Spear NE (2012) Prenatal ethanol alters the postnatal expression of ethanol-induced appetitive and aversive reinforcement. Presented at annual meeting of Research Society on Alcoholism, June, San Francisco.

- 445. Fabio MC, Spear NE, Pautassi RM (2012) Adolescent but not adult alcohol initiation influence alcohol consumption after a short period of deprivation. Presented at annual meeting of Research Society on Alcoholism, June, San Francisco.
- 446. Acevedo MB, Nizhnikov ME, Spear NE, Pautassi RM (2012) Assessment of anxiolytic and motor stimulant effects of ethanol in adolescent and adult Wistar rats. Presented at annual meeting of Research Society on Alcoholism, June, San Francisco.
- 447. Miranda Morales RS, Spear NE, Abate P (2012) Modulation of operant self-administration of ethanol by mu and delta opioid receptors in two-week old rats. Presented at annual meeting of Research Society on Alcoholism, June, San Francisco.
- 448. Miranda Morales RS, Waters D, Spear NE (2012) Role of NOP opioid receptors on ethanol intake and activating effects in infant rats. Presented at annual meeting of International Society for Developmental Psychobiology, October, New Orleans.
- 449. Sanders SK, Waters DH, Spear NE (2012) Ontogenetic differences in intake and reinforcement of sweet and bitter fluids in infant rats. Presented at annual meeting of International Society for Developmental Psychobiology, October, New Orleans.
- 450. Sanders SK, Waters DH, Goldberg A, Arana N, Villaluna T, Mendola D, Liriano F, Spear, NE (2012) During early ontogeny age and picrotoxin determine ethanol intake and reinforcement, and whether ethanol is aversive or appetitive. Presented at annual meeting of Society for Neuroscience, October, New Orleans.
- 451. Acevedo, MB, Spear, NE, Pautassi RM (2013) Voluntary ethanol consumption patterns as a function of inborn anxiety and restraint-induced stress in adolescent rats. Presented at first joint meeting of the Latin America Research Network in Drug Abuse (LARNEDA) and the Latin American Society for Biomedical Research on Alcoholism (LASBRA), October, Concepcion, Chile. October 16-19, 2013.
- 452. Fabio, MC, Molina, JC, Spear, NE, Pautassi, RM (2013) Prenatal ethanol exposure affects learning and extinction in adolescent rats. Presented at first joint meeting of the Latin America Research Network in Drug Abuse (LARNEDA) and the Latin American Society for Biomedical Research on Alcoholism (LASBRA), October, Concepcion, Chile. October 16-19, 2013.
- 453. Miranda Morales RS, Nizhnikov ME, Waters DH, Spear NE. (2013) New evidences of ethanol anxiolytic properties in the infant rat. Presented at first joint meeting of the Latin America Research Network in Drug Abuse (LARNEDA) and the Latin American Society for Biomedical Research on Alcoholism (LASBRA), October, Concepcion, Chile. October 16-19, 2013.
- 454. Miranda Morales RS, Spear NE, Abate P. (2013) Ethanol intake during infancy: modulation by the opioid system and long term effects of this experience. XIV National Meeting of the Argentinian Association for Behavioral Sciences. Cordoba, Argentina. August 21-23, 2013.

Samples of Invited Colloquia and Symposia

Kent State University

Ohio State University

Purdue University

Northwestern University

University of California at Irvine

University of Southern California

North Carolina State University

Rutgers University - Douglass College

Oxford University (England)

University of Sussex (England)

National Hospital for Nervous Diseases (London)

Susquehanna University

Old Dominion University

University of Florida

Rockefeller University

University of Illinois

Concordia University (Montreal)

Massachusetts Institute of Technology Neurosciences Research Program

Bowling Green State University

Brooklyn College

University of Toronto

Princeton University

University of Utah

Kansas State University

Cambridge University (England)

University of Utrecht (The Netherlands)

University of Minnesota

McMaster University (Ontario)

Harvard University

New York Academy of Sciences

Union College

University of Colorado at Boulder

NICHD Conference at Leesburg, Virginia

Institute of Animal Behavior

Columbia University

University of Paris

Centre National de la Recherche Scientifique (France)

Delos Wickens Lecture, Ohio State University

Benedictine College

University of Arkansas

Villanova University

Edinboro University of Pennsylvania

University of Kentucky

Syracuse University

Brown University

University of Massachusetts - Amherst

Duke University

University of Manitoba