

CURRICULUM VITAE

Ralph Mistlberger

Current position and address

Professor, Department of Psychology
Simon Fraser University, Burnaby, BC
Canada, V5A 1S6

DEGREES

B.A. 1979 (Honors 1st class, Psychology) - McGill University, Montreal
Ph.D. 1984 (Behavioral Science) - University of Chicago, Chicago, USA.

ACADEMIC EMPLOYMENT

1984-86 National Science and Engineering Research Council (NSERC) Postdoctoral Fellow,
Dept Psychology, Dalhousie University, Halifax, Nova Scotia, Canada.
1986-88 Senior Research Fellow, Dept Physiology & Biophysics, Harvard Medical School
and Institute for Circadian Physiology, Boston, MA, USA.
1988-92 Assistant Professor (NSERC University Research Fellow), Department of
Psychology, Simon Fraser University, Burnaby, BC, Canada.
1992-98 Associate Professor, Department of Psychology, Simon Fraser University.
1998- Professor, Department of Psychology, Simon Fraser University.

AWARDS/HONORS

1976-77	McGill University Entrance Scholarship
1977-79	McGill University Scholarship.
1978-79	McGill University, Dow Hicks Scholarship in Psychology
1979-81	Quebec Ministry of Education Master's Scholarship.
1979-83	NSERC Postgraduate Scholarship.
1981-84	Fonds FCAR (Quebec) Doctoral Scholarship.
1988-1997	NSERC University Research Fellowship, 9 year salary award
2008	Faculty of 1000 Biology
2009	Fellow of the American Psychological Association
2009-12	NSERC Discovery Grant Accelerator Supplement

RESEARCH FUNDING

National Science and Engineering Research Council, Canada
Canadian Institutes for Health Research
Worksafe BC

PROFESSIONAL SERVICE

Editorial/Review Boards (active)
Faculty of 1000 Biology – Faculty Member
Frontiers in Sleep and Chronobiology
Journal of Biological Rhythms
Journal of Circadian Rhythms
The Open Physiology Journal
Sleep

Ad hoc reviewer: Journals

American Journal of Physiology; Behavioural Brain Research; Behavioral Processes; Biological Psychology; Biological Reviews; Biomednet Central Journal of Circadian Rhythms; Brain

Research; Brain Research Bulletin; Chronobiology International; Comparative Biochemistry and Physiology; European Journal of Neuroscience; The FASEB Journal; Fish Biology; Genes to Cells; Hormones and Behavior; Innovations; Integrative Physiological and Behavioral Science; International Journal of Obesity; Journal of Applied Physiology; Journal of Biological Rhythms; Journal of Experimental Psychology; Journal of Neurochemistry; Journal of Neuroendocrinology; Journal of Neurophysiology; Journal of Neuroscience; Journal of Veterinary Medicine; Journal of Zoology; Life Sciences; Naturwissenschaften; Neuroscience; Neuroscience and Biobehavioral Reviews; Neuroscience Letters; Nutrition; Nutritional Neuroscience; Pharmacology Biochemistry and Behavior; Physiology and Behavior; Proceedings of the National Academy of Science, USA; Progress in Brain Research; Psychobiology; Psychological Reports: Perceptual and Motor Skills; PloS Biology; Science; Sleep; Sleep Research Online; Theoretical Biology and Medical Modeling; Trends in Neurosciences.

Ad hoc reviewer: Book publishers

Macmillan (Nature), Oxford University Press, Sinauer

Ad hoc reviewer: Research grants

Canadian Institute for Health Research (CIHR)
Department of Employment, Research Grants Section, Australia
Ernst Schering Foundation, Germany
Israel Science Foundation (ISF)
Medical Research Council (MRC), Canada
National Institute of Health (NIH), USA
National Science Foundation (NSF), USA
Natural Sciences and Engineering Research Council (NSERC), Canada
Netherlands Organization for Scientific Research (NWO).
Nova Scotia Health Research Foundation
Wellcome Research Fund, UK

Grant review committee membership:

CIHR, Behavioural Sciences A (BSA), external/internal reviewer (telecon), 2001, 02, 04
CIHR, BSA, committee member, Ottawa, May 2003
CIHR, BSA, committee to establish BSA committee membership (telecon), April, 2006
NASA Peer Review Panel: Performance, Sleep & Chronobiology, Washington DC, Nov 2003
NASA Peer Review Panel: Behavior, Performance, & Sleep, Washington DC, Nov3-4, 2004
NIH-NMB (Neurobiology of motivated behavior) Special Emphasis Panel, telecon, March 2007
NIH-NINDS Special Emphasis Panel, Site Visit, Atlanta, July 18-19 2007
NSERC GSC12 (Psychology)/EG1502 committee member, (2007-2010)

Professional society committees:

Abstract review committee, Association of Professional Sleep Societies, Annual meeting, 1987
Society for Research on Biological Rhythms (SRBR), conference site selection committee, 2001
SRBR, Chair, Local Organizing Committee, 2004 biennial conference, 2002-04
SRBR Program Committee, 2004 conference, 2002-04
Canadian Sleep Society (CSS), Student abstracts prize committee, 2nd Annual meeting, QC, 2004
CSS, Student abstracts prize committee, APSS annual meeting, Denver June, 2005
Specialized Neuroscience Research Programs conference, Judging panel, N.E.U.R.O.N. Poster competition, Fairbanks, Alaska, June 1, 2006.
SRBR Communications Committee, 2007-2009
SRBR Trainee Travel Awards Selection Committee, 2008 biennial conference.

UNIVERSITY ADMINISTRATION

Departmental Committees:

Graduate Studies Committee, 1994-96; 2008-ongoing.

Chair, Graduate Admissions, 1994-96.

Department Associate Chair (Acting), Sept. 1995- April, 1996.

Experimental Program Committee, 1994-96.

Appointments Planning Committee, 1992-94; 94-96; 98-99.

Resource Allocation Committee, 1992-94.

Department Associate Chair, Graduate Program Chair (Acting) , Sept.2002-Aug.2003.

Cognitive and Biological Psychology Area Coordinator, Sept 2003 – Aug 2005

Thesis defense committee, 2004-2009

University Committees:

NSERC representative for Psychology (1998-)

Faculty of Arts Equity Committee (2001-2003)

Dean of Graduate Studies, Acting (July, 2003)

Graduate Studies ad hoc committee, CIHR Canada Graduate Scholarship ranking, 2007-08.

PUBLICATIONS

Forthcoming

1. Hsu JL, Yu L, Sullivan E, Bowman M, Mistlberger RE, Tecott LH. Enhanced food anticipatory activity is associated with enhanced activation of extrahypothalamic neural substrates in serotonin_{2C} receptor knockout mice. PloS One.
2. Mistlberger RE, Antle MC. Entrainment of circadian clocks in mammals by arousal and food. Essays in Biochemistry: Chronobiology, H. Piggins (Editor).

2010

1. Webb IC, Patton DF, Landry GJ, Mistlberger RE. Circadian clock resetting by behavioral arousal: Neural correlates in the midbrain raphe nuclei and locus coeruleus. Neuroscience, 166(3): 739-751, 2010.

2009

2. Mistlberger RE. Entrainment of circadian rhythms by food: concepts and methods. European Journal of Neuroscience, 30(9): 1718-1729, 2009.
3. Mistlberger RE, Rusak B. Circadian rhythms in mammals: Formal properties and environmental influences. Chapter 32, In: Principles and Practise of Sleep Medicine, Fifth Edition, MH Kryger, T Roth, WC Dement (eds), W.B. Saunders Co: Philadelphia, 2009.
4. Mistlberger RE, Buijs RM, Challet E, Escobar C, Landry GJ, Kalsbeek A, Pevet P, Shibata S. Food anticipation in Bmal1^{-/-} and AAV-Bmal1 rescued mice: a reply to Fuller et al. Journal of Circadian Rhythms. 7:1-10, 2009.
5. Mistlberger RE, Buijs RM, Challet E, Escobar C, Landry GJ, Kalsbeek A, Pevet P, Shibata S. Standards of evidence in chronobiology: Critical review of a report that restoration of *Bmal1* expression in the dorsomedial hypothalamus is sufficient to restore circadian food anticipatory rhythms in *Bmal1*^{-/-} mice. Journal of Circadian Rhythms, 7:1-13, 2009.
<http://www.jcircadianrhythms.com/content/7/1/3>
6. Moriya T, Aida R, Kudo T, Akiyama M, Doi M, Hayasaka N, Nakahata N, Mistlberger RE, Okamura H, Shibata S. The dorsomedial hypothalamic nucleus is not necessary for food-anticipatory circadian rhythms of behavior, temperature or clock gene expression in mice. European Journal of Neuroscience, 29(7):1447-1460, 2009.

7. Mistlberger RE, Kent BA, Landry GJ. Phenotyping food-entrainment: motion sensors and telemetry are equivalent. Journal of Biological Rhythms 24(1):95-99, 2009.
8. Meerlo P, Mistlberger RE, Jacobs BL, Heller HC, McGinty D. New neurons in the adult brain: the role of sleep and consequences of sleep loss. Sleep Medicine Reviews, 13(3):187-194, 2009.

2008

9. Mistlberger RE, Yamazaki S, Pendergast JS, Landry GJ, Takumi T, Nakamura W. Comment on 'Differential rescue of light-and food-entrainable circadian rhythms'. Science 322(5902):675 2008
10. McLaughlin C, Bowman ML, Bradley CL, Mistlberger RE. A prospective study of seasonal variation in shiftwork tolerance. Chronobiology International, 25(2):455-470, 2008.
11. Mueller AD, Pollock MS, Lieblich SE, Epp J, Galea LAM, Mistlberger RE. Sleep deprivation can suppress hippocampal neurogenesis independent of adrenal stress hormones. American Journal of Physiology 294(5):R1693-703, 2008.
12. Webb IC, Patton DF, Hamson D, Mistlberger RE. Neural correlates of arousal-induced circadian clock resetting: Hypocretin/orexin and the intergeniculate leaflet. European Journal of Neuroscience, 27(4):828-35. 2008.
13. Mistlberger RE. Food entrainment. In: Binder, M.D, Hirokawa, N, Windhorst, U (eds). Encyclopedia of Neuroscience. Springer, Berlin Heidelberg New York 2008.
14. Mistlberger RE. Internal desynchrony. In: Binder, M.D, Hirokawa, N, Windhorst, U (eds). Encyclopedia of Neuroscience. Springer, Berlin Heidelberg New York 2008.

2007

15. Landry GJ, Mistlberger RE. Food-entrainment: methodological issues. Journal of Biological Rhythms, 22(6):484-487, 2007.
16. Landry GJ, Yamakawa GR, Webb IC, Mear RJ, Mistlberger RE. The dorsomedial hypothalamic nucleus is not necessary for the expression of circadian food-anticipatory activity in rats. Journal of Biological Rhythms, 22(6): 467-478, 2007.
17. Landry GJ, Yamakawa GRS, Mistlberger RE. Robust food anticipatory circadian rhythms in rats with complete ablation of the thalamic paraventricular nucleus. Brain Research, Apr 13;1141:108-18, 2007.

2006

18. Mistlberger RE. Circadian rhythms: PERTurbing a food-entrained clock. Current Biology, 16(22):R968-969, 2006.
19. Mistlberger RE. Editorial focus: Illuminating serotonergic gateways for strong resetting of the mammalian circadian clock. American Journal of Physiology, 291:R177-179, 2006.
20. Mistlberger RE, Antle MC. The enigma of behavioral inputs to the circadian clock: A test of function using restraint. Physiology and Behavior, 87(5):948-54, 2006.
21. Webb IC, Pollock MS, Mistlberger RE. Modafinil [(Diphenylmethyl)sulfinyl]acetamide] and circadian rhythms in Syrian Hamsters: assessment of the chronobiotic potential of a novel alerting Compound. Journal of Pharmacology and Experimental Therapeutics, 317(2):882-9, 2006.
22. Mistlberger RE, Webb IC, Simon MM, Tse D, Su C. Effects of food deprivation on locomotor activity, plasma glucose and circadian clock resetting in Syrian hamsters. Journal of Biological Rhythms, 21(1):33-44, 2006.
23. Landry GJ, Simon M, Webb IC, Mistlberger RE. Persistence of a behavioral food anticipatory circadian rhythm following dorsomedial hypothalamic ablation in rats. American Journal of Physiology, 290(6):R1527-34, 2006.

2005

24. Landry GS and Mistlberger RE. Differential effects of constant light on circadian clock resetting by photic and nonphotic stimuli in Syrian hamsters. Brain Research, 1059:52-58, 2005
25. Mistlberger RE. Circadian regulation of mammalian sleep: role of the suprachiasmatic nucleus. Brain Research Reviews, 49(3):429-454, 2005.
26. Mistlberger RM and Skene DJ. Nonphotic entrainment in humans? Journal of Biological Rhythms 20(4):339-352, 2005
27. Pollock MS, Mistlberger RE. Microinjection of neostigmine into the pontine reticular formation of the mouse: Further evaluation of a proposed REM sleep enhancement technique. Brain Research, 1031:253-267, 2005.
28. Mistlberger RE, Rusak B. Circadian rhythms in mammals: Formal properties and environmental influences. In: Principles and Practise of Sleep Medicine, Fourth Edition, MH Kryger, T Roth, WC Dement (eds), W.B. Saunders Co: Philadelphia, pp. 321-334, 2005 (substantially revised and updated from Third Edition)
29. Mistlberger RE, Rusak B. Biological rhythms and behavior. In Animal Behavior, J.J.Bolhuis, L-A, Giraldeau (Eds.), Blackwell Publishing, pp. 71-96, 2005.

2004

30. Mistlberger RE, Skene DJ. Social influences on mammalian circadian rhythms: animal and human studies. Biol Rev Camb Philos Soc. 79(3):533-56, 2004.
31. Knoch M, Gobes S, Pavlovska I, Su C, Mistlberger RE, Glass JD. Brief exposure to constant light promotes strong (Type 0) circadian phase resetting responses to nonphotic stimuli in Syrian hamsters. European Journal of Neuroscience, 19:2779-2790, 2004.
32. Holmes MM, Galea L, Mistlberger RE, Kemperman G. Adult hippocampal neurogenesis and voluntary running activity: circadian and dose dependent effects. Journal of Neuroscience Research, 76:216-222, 2004.
33. Antle MC, Mistlberger RE. Circadian rhythms. The Behaviour of the Laboratory Rat: A handbook with tests. IQ Whishaw, B Kolb (Eds.), MIT press, 2004.

2003

34. Mistlberger RE, Antle MC, Webb IC, Jones M, Weinberg J, Pollock MS. Circadian clock resetting by arousal: The role of stress and activity. American Journal of Physiology. 285(4):R917-25, 2003
35. Mistlberger RE, Antle M.C., Kilduff T.S., Jones M. Food- and light-entrained circadian rhythms in rats with hypocretin-2-saporin ablations of the lateral hypothalamus. Brain Research, 980: 161-168, 2003.
36. Antle MC, Ogilvie M, Pickard GE, Mistlberger RE. Response of the mouse circadian system to 5HT_{1a/2/7} agonists in vivo: Surprisingly little. Journal of Biological Rhythms, Apr;18(2):145-58, 2003.
37. Pollock MS, Mistlberger RE. Rapid eye movement sleep induction by microinfusion of the GABA-A antagonist bicuculline into the dorsal subcoeruleus area of the rat. Brain Research, 962:68-77, 2003.

2002

38. Mistlberger RE, Belcourt J, Antle MC. Circadian clock resetting by sleep deprivation without exercise: Dark pulses revisited. Journal of Biological Rhythms, 17(3):227-237, 2002.
39. Antle MC, Ludgate S, Mistlberger RE. Effects of melatonin on circadian phase and nonphotic phase resetting in hamsters. Neuroscience Letters, 317(1):5-8, 2002.
40. Mistlberger RE. Circadian Rhythms. In: Encyclopedia of Cognitive Science, Macmillan Reference Ltd: London, 2002.

2001

41. Mistlberger RE, Antle MC, Oliverio, Coffman, Morris M. Angiotensin 1a receptor null mutation: Effects on circadian rhythms in the mouse. Physiology and Behavior, 74(4-5):457-464, 2001.
42. Mistlberger, RE, Marchant EG, Kippin TE. Food-entrained circadian rhythms in rats are insensitive to deuterium oxide. Brain Research, 919: 283-291, 2001.
43. Antle MC, Steen NM, Mistlberger RE. Adenosine and nonphotic phase resetting of circadian rhythms in hamsters Neuroreport, 12(13):2901-5, 2001.
44. Mistlberger RE. Circadian Clocks, In: The Discovery of Time, S. McCready (ed), MQ Publications, London, 2001.

2000

45. Antle MC, Mistlberger RE Circadian clock resetting by sleep deprivation without exercise in the Syrian hamster. Journal of Neuroscience 20(24):9326-32, 2000.
46. Antle MC, Glass JD, Mistlberger RE. 5-HT_{1a} autoreceptor antagonist-induced 5-HT release in the hamster suprachiasmatic nuclei: effects on Circadian clock resetting. Neuroscience Letters, 282:97-100, 2000.
47. Grossman G, Mistlberger RE, Antle MC, Glass JD. Sleep deprivation stimulates serotonin release in the suprachiasmatic nucleus. NeuroReport, 11:1929-32, 2000.
48. Holmes MM, Mistlberger RE. Regulation of circadian phase by restricted feeding in the BALBc mouse. Physiology and Behavior, 68:655-666, 2000.
49. Klerman EB, Boulos Z, Edgar DM, Mistlberger RE, Moore-Ede MC. EEG-delta activity during undisturbed sleep in the squirrel monkey. Sleep Research OnLine, 3(3):113-119, 2000.
50. Mistlberger RE, Holmes MM. Behavioral feedback regulation of circadian rhythm phase angle in light-dark entrained mice. American Journal of Physiology, 279:R813-821, 2000.
51. Mistlberger RE, Antle MC, Glass JD, Miller, JD. Behavioral and serotonergic regulation of circadian rhythms. Biological Rhythm Research, 31:240-283, 2000.
52. Harrington ME, Mistlberger RE. Anatomy and physiology of the mammalian circadian system. In: Principles and Practise of Sleep Medicine, Third Edition, MH Kryger, T Roth, WC Dement (eds), W.B. Saunders Co: Philadelphia, pp. 334-345 2000. revised and updated
53. Mistlberger RE, Rusak B. Circadian rhythms in mammals: Formal properties and environmental influences. In: Principles and Practise of Sleep Medicine, Third Edition, MH Kryger, T Roth, WC Dement (eds), W.B. Saunders Co: Philadelphia, pp. 321-333, 2000 (revised and updated from Edition 2)

1999

54. Mistlberger RE, Antle MC. Neonatal MSG alters photic masking and circadian organization of feeding and food anticipatory activity in the rat. Brain Research, 842:73-83, 1999.
55. Mistlberger RE, Holmes MM. Morphine-induced activity attenuates phase shifts to light pulses in C57BL/6j mice. Brain Research, 829:113-119, 1999.
56. Mistlberger RE, Marchant EG. Enhanced food anticipatory circadian rhythms in the genetically obese Zucker rat. Physiology and Behavior, 66:329-335, 1999.
57. Sur S, Li P, Mistlberger RE, Morris M. Circadian blood pressure and heart rate rhythms in mice. American Journal of Physiology, 276:R500-504, 1999.
58. Klerman EB, Boulos Z, Edgar DM, Mistlberger RE, Moore-Ede MC. Circadian and homeostatic contributions to sleep timing and EEG content after sleep deprivation in the squirrel monkey. Sleep, 21:45-59, 1999.

1998

59. Antle MC, Marchant EG, Niel L, Mistlberger RE. Serotonin antagonists do not attenuate activity-induced phase shifts of circadian rhythms in the Syrian hamster. Brain Research, 813:139-149, 1998.
60. Mistlberger RE, Bossert JM, Holmes MM, Marchant EG. Serotonin and feedback effects of behavioral activity on circadian rhythms in mice. Behavioral Brain Research, 96:93-99, 1998.
61. Mistlberger RE, Lukman H., Nadeau BG. Circadian rhythms in the Zucker obese rat: assessment and intervention. Appetite, 30: 255-267, 1998.
62. Mistlberger RE, Antle MC. Inhibition of light-induced circadian phase resetting by running activity is phase and serotonin dependent. Brain Research, 786:31-38, 1998.

1997

63. Mistlberger, R.E., Landry, G., Marchant, E.G. Sleep deprivation can attenuate light-induced phase shifts of circadian rhythms in hamsters. Neuroscience Letters 238: 5-8, 1997.
64. Sinclair SV, Mistlberger RE. Activity reorganizes circadian phase of Syrian hamsters under full and skeleton photoperiods. Behavioral Brain Research 87:127-137, 1997.
65. Marchant EG, Watson NV, Mistlberger RE. Both neuropeptide Y and serotonin are necessary for entrainment of circadian rhythms in mice by daily treadmill running schedules. Journal of Neuroscience, 17:7974-7987, 1997.
66. Marchant EG, Mistlberger RE. Anticipation and entrainment to feeding time in intact and SCN-ablated C57BL/6j mice. Brain Research, 765:273-282,1997.
67. Mistlberger RE, Sinclair SV, Marchant EG, Neil L. Circadian phase shifts to food deprivation and refeeding in the Syrian hamster are mediated by running activity. Physiology and Behavior, 61: 273-278, 1997.

1996

68. Mistlberger, RE., de Groot MH, Bossert J, Marchant EG. Discrimination of circadian phase in intact and SCN ablated rats. Brain Research,739: 12-18, 1996.
69. Marchant EG, Mistlberger RE. Entrainment and shifting of circadian rhythms in mice by forced treadmill running. Physiology and Behavior, 60:657-663, 1996.
70. Mistlberger, RE, Marchant EG, Sinclair SV. Nonphotic phase shifting and the motivation to run: Cold exposure reexamined. Journal of Biological Rhythms 11:208-215, 1996.
71. Mistlberger RE. Aschoff type II method: Commentary. Chronobiology International, 13:393-394, 1996.
72. Mistlberger RE. Circadian organization of locomotor activity in rodents. In: Motor Activity and Movement Disorders. Paul R. Sanberg, Klaus-Peter Ossenkopp, Martin Kavaliers; Humana Press Inc., Totowa, NJ, 1996, pp. 81-109.

1995

73. Marchant EG, Mistlberger RE. Morphine phase shifts circadian rhythms in mice: Role of behavioral activation. NeuroReport, 7:209-212, 1995.
74. Mistlberger RE, Marchant EG . Computational and entrainment models of circadian food-anticipatory activity: Evidence from non-24 h feeding schedules. Behavioral Neuroscience, 109:790-798, 1995.

1994

75. Mistlberger RE. Circadian food anticipatory activity: Formal models and physiological mechanisms. Neuroscience and Biobehavioral Reviews, 18: 171-195, 1994.
76. Mistlberger RE, Rusak B. Circadian rhythms in mammals: Formal properties and environmental influences. In: Principles and Practise of Sleep Medicine, Second Edition, MH

Kryger, T Roth, WC Dement (eds), W.B. Saunders Co: Philadelphia, 1994, pp. 277-285.
(revised and updated from Edition 1)

77. Harrington ME, Rusak B, Mistlberger RE. Anatomy and physiology of the mammalian circadian system. In: Principles and Practise of Sleep Medicine, Second Edition, MH Kryger, T Roth, WC Dement (eds), W.B. Saunders Co: Philadelphia, 1994, pp. 286-300.

1993

78. Mistlberger RE. Effects of scheduled food and water access on circadian rhythms of hamsters in constant light, dark, and light:dark. Physiology and Behavior, 53:509-516, 1993.
79. Mistlberger RE, Circadian properties of anticipatory activity to restricted water access in suprachiasmatic nuclei ablated hamsters. American Journal of Physiology, 264:R22-29, 1993.

1992

80. Mistlberger RE, Nadeau J. Ethanol and circadian rhythms in the Syrian hamster: Effects on entrained phase, reentrainment rate and period. Pharmacology, Biochemistry and Behavior, 43:159-165, 1992.
81. Mistlberger RE, Anticipatory activity rhythms under daily schedules of water access in the rat. Journal of Biological Rhythms, 7:149-160, 1992.
82. Mistlberger RE, Mumby D. The limbic system and food-anticipatory circadian rhythms in the rat: Ablation and dopamine blocking studies. Behavioral Brain Research, 47:159-168, 1992.
83. Mistlberger RE, Non-photic entrainment of circadian activity rhythms in suprachiasmatic nuclei-ablated hamsters. Behavioral Neuroscience, 102:192-202, 1992.

1991

84. Mistlberger RE, Scheduled daily exercise or feeding alters the phase of photic entrainment in syrian hamsters. Physiology and Behavior, 50:1257-1260, 1991.
85. Mistlberger RE, Houpt TA, Moore-Ede MC. The benzodiazepine triazolam phase shifts circadian activity rhythms in a diurnal primate, the squirrel monkey (*Saimiri sciureus*). Neuroscience Letters, 124:27-30, 1991.
86. Mistlberger RE. Effects of daily schedules of forced activity on free-running circadian rhythms in the rat. Journal of Biological Rhythms, 6:71-80, 1991.

1990

87. Mistlberger RE, Houpt TA, Moore-Ede MC. Characteristics of food entrained circadian rhythms in rats during long-term exposure to constant light. Chronobiology International, 7:383-391, 1990.
88. Mistlberger RE, Houpt TA, Moore-Ede MC. The effects of aging on food entrained circadian rhythms in the rat. Neurobiology of Aging, 11:619-624, 1990.
89. Mistlberger RE. Circadian pitfalls in experimental paradigms employing food restriction. Psychobiology, 18:23-29,1990.
90. Mistlberger RE, Houpt TA, Moore-Ede MC. Food-anticipatory rhythms under 24 h schedules of limited access to single macronutrients. Journal of Biological Rhythms, 5:35-46,1990.

1989

91. Mistlberger R, Rusak B. Mechanisms and models of the circadian timekeeping system. In: Principles and Practise of Sleep Medicine, MH Kryger, T Roth, WC Dement (eds), W.B. Saunders Co: Philadelphia, 1989, pp 141-152.

1988

92. Rusak B, Mistlberger RE, Losier B, Jones CH. Daily hoarding opportunity entrains the pacemaker for hamster activity rhythms. Journal of Comparative Physiology A, 164:165-171, 1988.
93. Mistlberger RE, Rusak B. Food anticipatory circadian rhythms in paraventricular and lateral hypothalamic lesioned rats. Journal of Biological Rhythms, 3:277-292, 1988.
94. Rechtschaffen A, Bergmann BM, Mistlberger RE. Importance of both amplitude and incidence measures in time-domain analysis. Sleep, 11:572, 1988.

1987

95. Mistlberger RE, Rusak B. Palatable daily meals entrain anticipatory activity rhythms in free-feeding rats: Dependence on meal size and nutrient content. Physiology and Behavior, 41:219-226, 1987.
96. Mistlberger RE, Bergman B, Rechtschaffen A. Period/amplitude analysis of EEG in intact and suprachiasmatic nuclei lesioned rats: Effects of sleep deprivation and exercise. Sleep, 10:508-522, 1987.
97. Mistlberger RE, Bergman B, Rechtschaffen A. Relationships among wake episode lengths, contiguous sleep episode lengths and electroencephalographic delta waves in rats with suprachiasmatic nucleus lesions. Sleep, 10:12-24, 1987.
98. Bergman B, Mistlberger RE, Rechtschaffen A. Period/amplitude analysis of EEG in the rat: Diurnal and stage variations and effects of suprachiasmatic nuclei lesions. Sleep, 10:523-5366, 1987.

1983-86

99. Mistlberger RE, Rusak B. Carbachol induced phase shifts of circadian activity rhythms in ovariectomized rats. Neuroscience Letters, 72:357-362, 1986.
100. Mistlberger RE, Rechtschaffen A. Restricted water access is not a potent zeitgeber for circadian locomotor rhythms in the rat. Physiology and Behavior, 34:17-22, 1985.
101. Mistlberger RE, Rechtschaffen A. Recovery of anticipatory activity to restricted feeding in ventromedial hypothalamic lesioned rats. Physiology and Behavior, 33:227-235, 1984.
102. Eastman C, Mistlberger RE, Rechtschaffen A. Suprachiasmatic nuclei lesions eliminate circadian temperature and sleep rhythms in the rat. Physiology and Behavior, 32:357-368, 1984.
103. Mistlberger R, Bergmann B, Waldenar W, Rechtschaffen A. Recovery sleep following sleep deprivation in normal and suprachiasmatic nuclei lesioned rats. Sleep, 6:217-233, 1983.

Invited addresses and symposia

1. Invited symposium presenter: Methodological issues in food entrainment. Symposium on Why we eat when we eat: mechanisms underlying meal entrainment. 18th Annual meeting of the Society for the Study of Ingestive Behavior, July 13-17, 2010.
2. Invited seminar: Topic: Regulation of circadian rhythms by food. Dept Veterinary and Comparative Anatomy and Physiology, Washington State University, Pullman WA Nov 5, 2009.
3. Invited speaker: Topic: Neurobiology of food-entrainment. 10th meeting of the Latin American Symposium on Chronobiology, Natal, Brazil, Oct 21-24, 2009.
4. Invited workshop organizer and presenter: Topic: Food-entrainment: consensus and controversy. 11th meeting of the European Biological Rhythms Society, Strasbourg, FR, Aug 21-28, 2009.
5. Invited symposium presenter: Topic: Neurobiology of food-entrainment: current controversies. Chair: Weiqun Lu, Annual meeting of the Society for Experimental Biology, Marseille France, July 8, 2008.

6. Invited seminar: Topic: Phenotyping food-entrainment: methodological issues. Host: . Dr. E. Challet, Department of Chronobiology, CNRS, Strasbourg, France, July 4, 2008.
7. Invited seminar: Michael Smith Lecture: Neurobiology of food-entrainment. Host: Professor H. Piggins, Department of Biological Sciences, University of Manchester, UK, July 2, 2008.
8. Invited workshop presenter: Topic: Trainee day; Grants and grantsmanship: the Canadian scene. Society for Research on Biological Rhythms 11th Biannual Meeting, Sandestin, Florida, May 17, 2008.
9. Invited 'Meet the professor' lunch: Society for Research on Biological Rhythms 11th Biannual Meeting, Sandestin, Florida, May 19, 2008.
10. Invited seminar: Nonphotic regulation of circadian rhythms. UBC Department of Ophthalmology & Visual Sciences, host R. Douglas, March 11, 2008.
11. Invited colloquium: Topic: Circadian adaptations for finding food (and other rewards?). Indiana University Behavior Colloquia, host W. Timberlake, Feb 22, 2008.
12. Invited symposium presenter: Topic: Sleep deprivation and neurogenesis. Chair: Peter Meerlo. 5th World Congress of the World Federation of Sleep Research and Sleep Medicine Societies. Cairns, Australia, 2-6 Sept 2007.
13. Invited seminar: Topic: Using principles of chronobiology to help shiftworkers. The School of Occupational and Environmental Hygiene, University of British Columbia, weekly research seminar open to all members of the University community and to the public. Nov 10, 2006.
14. Invited symposium presenter: Topic: Sites and mechanisms of action of serotonergic drugs in resetting the circadian system. Chair: Marilyn J. Duncan (Kentucky), Serotonin Club 10th Annual meeting, Hokkaido University, Sapporo, Japan, June 30, 2006
15. Invited seminar: Localizing a food-entrainable pacemaker in mammals. Dept. Physiology, Hokkaido University Graduate School of Medicine. Host: Saito Honma (Hokkaido). June 28, 2006.
16. Invited symposium presenter: Topic: Sleep, depression and neurogenesis: testing a novel hypothesis in an animal model. 2006 National Specialized Neuroscience Research Programs, University of Alaska, Fairbanks, Alaska, June 1, 2006.
17. Invited symposium presenter: Topic: Extra-SCN oscillators: Localizing a food-entrainable pacemaker in mammals. Chair: Teri Lee (Michigan). Society for Research on Biological Rhythms 10th Biannual Meeting, Sandestin, Florida, May 22, 2006.
18. Invited colloquium: Photic and nonphotic regulation of circadian rhythms in humans. Dept of Psychiatry Rounds, University Hospital, University of British Columbia, March 7, 2006.
19. Invited symposium presentation: Nonphotic regulation of circadian rhythms in adults and youths: review and research agenda. International Conference on Developmental Chronopsychology, Center for Biological Timing and Cognition, University of Toronto, May 26-28, 2005.
20. Invited symposium presentation: Circadian clocks and metabolism. Chair: S. Pitts (Columbia), Society for Neuroscience, San Diego, Oct 25 2004 annual meeting.
21. Invited symposium presentation: Circadian clocks and metabolism: Behavioral Analysis. In: From clocks to metabolism and back. Chair: J. Gubultowitz (Oregon). Society for Research on Biological Rhythms biannual meeting, Whistler BC June 25, 2004.
22. Workshop co-organizer and presenter: Very large phase shifts of the circadian clock. Chair: J.D.Miller (USC), Society for Research on Biological Rhythms biannual meeting, Whistler BC June 26, 2004.
23. Invited symposium presentation: Sleep and arousal effects on the circadian pacemaker. In: Circadian interactions with sleep-wake, Chair: B. Rusak. 2nd Meeting of the Canadian Sleep Society, Quebec City, May 13-15, 2004.
24. Invited seminar: Shiftwork: Consequences and Countermeasures. Worker's Compensation Board of BC Research Secretariat, Richmond BC, Jan 20, 2004.

25. Invited colloquium: Regulation of circadian rhythms by scheduled feeding. Institute of Arctic Biology, University of Alaska Fairbanks, Dec 5, 2003
26. Invited symposium co-chair and presenter: SCN-independent rhythms: Molecular to behavioral analysis. 1st World Congress of Chronobiology, Sapporo, Japan September 9-12, 2003.
27. Invited symposium presentation: Memories of mealtime: Finding food in a periodic world. Symposium: The Chronobiological Environment of Mammals (R. Refinetti, chair), Federation of Experimental Biology Societies, Annual meeting, San Diego CA, May, 2003
28. Invited colloquium: Behavioral regulation of circadian rhythms. Mood Disorders Clinic Grand Rounds, University Hospital, University of British Columbia, Dec, 2002
29. Invited symposium presentation: Sleep and arousal effects on the circadian pacemaker. Joint meeting of the Sleep Research Society and the Society for Research on Biological Rhythms on 'Circadian Rhythms and Sleep: Views to the Future'. Amelia Island Plantation, May 22, 2002.
30. Symposium organizer, Chair and presenter. A view of the mammalian circadian system from the midbrain raphe. 35th Annual Winter Conference on Brain Research, Snowmass, CO., Jan. 25, 2002
31. Workshop co-organizer and presenter: Functional effects of sleep-wake on circadian rhythms. CIHR New Frontiers Program - Health Effects of Disrupted Sleep and Circadian Rhythms: A Review and Evaluation of Canadian Research Capacities and Needs. Workshop, Halifax, Dec., 2001.
32. Invited symposium presentation. Interactions between the sleep-wake and circadian systems: Sleep deprivation effects. Gordon Conference on Chronobiology, Rhode Island, July, 2001.
33. Invited colloquium: Behavioral regulation of circadian rhythms in mammals, Program in Neuroscience, University of British Columbia, Nov, 23 2000.
34. Invited colloquium. Behavioral and Serotonergic regulation of circadian rhythms. Department of Pharmacology and Toxicology, Wright State University Medical School, Dayton OH June 26, 1999.
35. Invited symposium. Direct behavioral effects of light and the circadian system. Association of Professional Sleep Societies Annual Meeting, Orlando, FL, June 23, 1999.
36. Invited symposium Phase control of circadian rhythms in mice by spontaneous locomotor activity. FASEB Summer Conference on Vertebrate Entrainment Mechanisms, Aspen CO July 11-16, 1998.
37. Invited symposium presentation, Gordon Conference on Chronobiology, Italy, May3, 1995
38. Invited Lecturer, Erasmus European School of Chronobiology, Rufina, Italy, April 25-28, 1995.
39. Invited symposium organizer and presenter. Hot topics in circadian rhythms, Canadian Spring Conference in Brain and Behaviour, Whistler BC, April 14, 1991.
40. Invited colloquium, University of British Columbia, Ophthalmology, Feb, 1991
41. Invited colloquium, University of British Columbia, Medicine, March 15, 1991.
42. Guest Lectures on chronobiology, University of British Columbia, Program in Neuroscience, Neuroscience 501 (graduate course), invited lectures given in 1991, 92, 93, 94.
43. Invited colloquium, University of British Columbia, Department of Psychology, Vancouver, Canada, April, 1989.
44. Invited colloquium, Neural and environmental control of circadian rhythms in mammals. "Les Ecologists", Simon Fraser University, Department of Biology, Burnaby, Canada, Dec. 1989.
45. Invited symposium, Homeostatic features of sleep in the intact and suprachiasmatic nuclei lesioned rat. Fifth International Congress of Sleep Research Society Abstracts Copenhagen, June, 1987.
46. Invited colloquium, Department of Psychology, Dalhousie University, Halifax, NS, May, 1985.