

CURRICULUM VITAE

NAME: Fred W. Turek

BIRTH DATE: July 31, 1947

EDUCATION: Michigan State University BS in Biology and
East Lansing, Michigan Teaching Certificate 1965-69

Stanford University PhD in Biological
Stanford, California Sciences 1969-73 (Advisor: Colin S. Pittendrigh)

Kellogg School of Management Certificate Executive Course:
Northwestern University Management Skills for Innovative University Leaders 2008

PRESENT POSITION:

Director, Center for Sleep and Circadian Biology
Charles E. and Emma H. Morrison Professor of Biology
Department of Neurobiology
Northwestern University
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PROFESSIONAL EXPERIENCE:

1969-1970 *Teaching Assistant*, Stanford University, Stanford, CA
1973-1975 *Postdoctoral Fellow*, Department of Zoology, University of Texas (Advisors: Michael Menaker and Claude Desjardins)
1975-1980 *Assistant Professor*, Department of Biological Sciences, Northwestern University, Evanston, IL
1980-1981 *Associate Professor*, Department of Biological Sciences, Northwestern University, Evanston, IL
1/1/79-3/31/79 *Visiting Assistant Professor*, Department of Anatomy, UCLA School of Medicine (with Dr. Roger Gorski), Los Angeles, CA
1/1/81-3/31/81 *Visiting Scientist*, Department of Zoology (with Dr. Brian K. Follett), University of Bristol, Bristol, England
1981-1984 *Associate Professor*, Department of Neurobiology and Physiology, Northwestern University, Evanston, IL
1984-1986 *Professor/Associate Chairman*, Department of Neurobiology and Physiology, Northwestern University, Evanston, IL
1986-1987 *Visiting Professor*, Université Libre de Bruxelles, Institute of Interdisciplinary Research and Laboratory of Neuropathology and Neuropeptides Research, Brussels, Belgium
1987-1998 *Chairman*, Department of Neurobiology and Physiology, Northwestern University, Evanston, IL
1991-1992 *Visiting Professor*, Department of Psychiatry and Center for Experiments on Rhythms Biological (CERB), Université Libre de Bruxelles, Brussels, Belgium
1998-1999 *Visiting Professor*, Department of Psychiatry, Université Libre de Bruxelles, Brussels, Belgium
1984-Present *Professor*, Department of Neurobiology, Northwestern University, Evanston, IL
1995-Present *Director*, Center for Sleep and Circadian Biology

OTHER APPOINTMENTS AT NORTHWESTERN UNIVERSITY

1986-Present *Member*, Center for Reproductive Sciences
1991-Present *Professor*, Department of Neurology (Medical School)
1992-Present *Member*, Lurie Cancer Center (Medical School)
1993-Present *Member*, Buhler Center on Aging (Medical School)
1997-Present *Affiliate*, Transportation Center (McCormick School of Engineering)
1998-Present *Professor*, Department of Psychiatry & Behavioral Sciences (Medical School)
2002-Present *Member*, Center for Genetic Medicine (Medical School)
2002-Present *Member*, Center for Functional Genomics
2003-Present *Professor*, Department of Psychology

- 2007-Present *Member*, Northwestern Comprehensive Center on Obesity (Medical School)
2012-Present *Academic Partner*, Womens's Health Research Institute, Northwestern University
2012-Present *Member*, Leadership Council, Womens's Health Research Institute, Northwestern University
2012-Present *Member*, Bench Research Integration, Womens's Health Research Institute, Northwestern University

HONORS AND AWARDS:

- Evans Collegiate Scholarship to Michigan State University
- State of Michigan Trustee Scholarship
- Graduated with High Honors, Michigan State University
- Four-year Teaching Assistantship — Predoctoral Fellowship, Stanford University
- Recipient of two-year Postdoctoral Fellowship, National Institutes of Health (Awarded through the University of Texas from a Reproductive and Development Training Grant)
- National Research Service Award — 1975 (Not activated at request of recipient)
- NIH-Research Career Development Award, 1978-1983
- Named to Associated Student Government Faculty Honor Roll in recognition of outstanding teaching, 1980, 1984
- Award from the Underwood Fund, of the Agricultural Research Council, Great Britain to spend a 3-month sabbatical at the University of Bristol, 1981
- Elected a Fellow, American Association for the Advancement of Science, 1981
- Awarded a Senior International Fellowship, NIH Fogarty International Center (1 year sabbatical), Free University of Brussels, 1986
- Curt P. Richter Prize, International Society of Psychoneuroendocrinology, 1987
- John Simon Guggenheim Memorial Foundation Fellowship, 1991-1992
- Awarded a Senior International Fellowship, NIH Fogarty International Center (1 year sabbatical), Free University of Brussels, 9/1991-9/1992
- Belgium American Educational Foundation Senior Fellowship (BAEF), 1991-1992
- Mentor for Dr. Phyllis C. Zee as a Brookdale National Foundation Fellow, 1994-1996
- Endowed Chair Charles E. and Emma H. Morrison Professor of Biology, 1995-Present
- National Alliance for Research on Schizophrenia and Depression (NARSAD), Distinguished Senior Investigator Award, 1998-2000
- Distinguished Service Award, Society for Research on Biological Rhythms, May 19, 2008
- Pioneer Award, Institute for Women's Health Research, Feinberg School of Medicine, Northwestern University, July 31, 2008
- Annual Heart Research Center Lecture at the University of Oregon Health Science Center, 2009
- Inaugural Margaret Prine Joy Lectureship in Reproductive Sciences, Magee-Womens Research Day in Reproductive Biology and Women's Health, Magee-Womens Research Institute, 2010
- Distinguished Scientist Award, Sleep Research Society, June 2011
- Distinguished Service Award, Sleep Research Society Government Relations Committee, June 2011

SCIENTIFIC COMMITTEES / PANELS / BOARD OF DIRECTORS:

- Society for the Study of Reproduction, Awards Committee (1977-1980)
- American Physiological Society: Publications Committee (1981-1984)
- The Endocrine Society: Committee on Scientific Programs (1982-1984)
- Society for the Study of Reproduction: Program Committee for Annual Mtg (Chairman) (1982-1983)
- NIMH (National Institutes of Mental Health) Evaluation Panel on Pharmacodynamics and Psychotherapeutics (1983)
- National Academy of Sciences/National Research Council Space Studies Board Committee on Space Biology & Medicine (1987-1994); Chairman (1991-1994)
- US Congress Office of Technology Assessment Advisory Panel: New Developments in Neuroscience — Biological Rhythms and Shiftwork (1989-1991)
- NASA (National Aeronautics and Space Administration) Discipline Working Group in Regulatory Physiology, Chairman (1990-1992)
- NASA Workshop on Circadian Rhythms, Chairman (1990)
- MacArthur Foundation Mental Health Research Panel on "Biological Rhythms and Depression" (1990, 1992)

- National Academy of Sciences/National Research Council Space Studies Board (1991-1994)
- International Academy for Biomedical and Drug Research Panel on "The Medical and Social Impact of Anxiety and Insomnia" (1991)
- MacArthur Foundation Task Force on Biological Rhythms & Psychopathology (1992-1993)
- NASA — NIH (National Institutes of Health) Advisory Committee on Biomedical and Behavioral Research (1993-1995)
- "Investigator's Panel on Interactions with NIH", at NIH Midwest Regional Seminar, July, 1994.
- International Union of Physiological Sciences, Commission on Chronobiology, Chairman (1994-1998)
- NIH National Center on Sleep Disorders Research, Workshop on Molecular Biology and Genetic Approaches to Sleep and Circadian Rhythms, Co-Chair (9/95)
- Trans NIH "Workshop on Melatonin and Sleep", Co-Chair (8/96)
- NIA/Glenn Foundation "Workshop on Melatonin and Aging" (9/96)
- NIH/NHLBI National Center on Sleep Disorders Research Advisory Council (1996-2000)
- NIA (National Institute on Aging)/International Longevity Center Sponsored Workshop on "Perspectives on Longevity: Fads and Reality" (1997).
- NIH/NASA Workshop on "Aging and Spaceflight: Expanding the Science Base", Chair of session on Biological Rhythms (9/97); Workshop initiated in response to Senator John Glenn.
- NSF (National Sleep Foundation), Member, NSF Health and Scientific Council (1997-1998)
- NSF (National Sleep Foundation), Member, Board of Directors (1998-2008)
- NIH/NSF Workshop on "What is Sleep? What is it Good for?" Organizer and Chair (12/98)
- NIH/NIAAA Workshop on "Future Directions for Research on Alcohol and Sleep" (5/99)
- Program Review Panel, NIA: Neuroscience and Neuropsychology of Aging Program Extramural Program (5/99)
- Universities Space Research Association, Board of Trustees (2001-2007)
 - Member of Board of Trustees Membership Committee (2001-2006)
 - Member of Board of Trustees Program Committee (2001-2006)
 - Member of Board of Trustees Compensation Committee (2002-2007)
 - Chair of Board of Trustees Compensation Committee (2006-2007)
- NIH National Center on Sleep Disorder Research Workshop on "Bioinformatics Neuroscience and Sleep Research", Chair of Session on "Biological Rhythms and Sleep". (07/01)
- NIH National Center on Sleep Disorder Research Workshop on "Neurobiology of Sleep and Working: Implications for Insomnia", Moderator of session on "Neurobiology of Sleep Generation Maintenance and Arousal", (09/01)
- NIH/NHLBI Strategic Planning Committee, Circadian-Coupled Cellular Function and Disease in Heart, Lung and Blood Tissues, (9/07)
- NIMH Workshop "Neurobiological Basis of Circadian Rhythms: Interaction with Complex Behaviors", Role of Clock and Sleep Genes in Neurobehavioral and Metabolic Disorders, (July 2008)
- Morehouse School of Medicine Scientific Advisory Committee, Member (2008-Present)
- Sleep Research Society Government Relations Committee, Chair (2009-2011)
- Sleep Research Society NIH Liaison Group, Member (2010-2011)
- Sleep Research Society Congressional Liaison Group, Member (2010-2011)
- NIDDK Workshop "Dysregulation of sleep and circadian rhythms: Role in obesity and metabolic disorders," Circadian Rhythms & Metabolic Disease (April 2010).
- NIA Workshop "Circadian Clocks and Their Role in Aging: Molecular Mechanisms," (June 2010)
- Sleep Research Society Board of Directors (June 2011-Present)
- Sleep Research Society Board of Directors Liaison to SRS Government Relations Committee (June 2011-Present)
- NIH Obesity Research Task Force Seminar, "Rapid Evolution of Our Understanding of Circadian Rhythms/Clocks and Their Role in Obesity and Metabolic Disorders" (September 2011)

EDITORIAL BOARDS:

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|--------------|---|
| 1979-1982 | American Journal of Physiology — Endocrine and Metabolic Physiology Section |
| 1980-1986 | Biology of Reproduction |
| 1982-1992 | American Journal of Physiology — Regulatory, Integrative and Comparative Physiology Section |
| 1983-1990 | Proceedings for the Society for Experimental Biology and Medicine |
| 2002-Present | Deputy Editor, <i>Sleep</i> |

EDITOR-IN-CHIEF:

1995-2000 *Journal of Biological Rhythms*

EDITED BOOKS:

- 1999 Turek FW and Zee PC, Eds. Regulation of Sleep and Circadian Rhythms, Vol 133: *Lung Biology in Health and Disease* series. Marcel Dekker, Inc. 724 pages.
- 2001 Takahashi JS, Turek FW and Moore RY, Eds. Handbook of Behavioral Neurobiology, Vol. 12: *Circadian Clocks*. Kluwer Academic/Plenum Publishers, New York. 770 pages.

BOOK SECTION EDITOR:

- 2000 Section 4 - Chronobiology: sleep and the circadian clock. In: Principles and Practices of Sleep Medicine, Third Edition, (MH Kryger, T Roth and WC Dement, eds.). WB Saunders, New York pp 319 (2000).
- 2000 Section 8 – Disorders of Chronobiology. In: Principles and Practices of Sleep Medicine, Third Edition, (MH Kryger, T Roth and WC Dement, eds.). WB Saunders, New York pp 589 (2000).
- 2005 Section 4 - Chronobiology. In: Principles and Practices of Sleep Medicine, Fourth Edition, (MH Kryger, T Roth and WC Dement, eds.). WB Saunders, New York, pp 318-443 (2005).
- 2005 Section 8 – Disorders of Chronobiology. In: Principles and Practices of Sleep Medicine, Fourth Edition, (MH Kryger, T Roth and WC Dement, eds.). WB Saunders, New York, pp 657-701 (2005).
- 2008 Section: Animal Circadian Rhythms, Human Circadian Rhythms and Seasonal Rhythms. The New Encyclopedia of Neuroscience. (Larry Squire, Senior Ed., Nick Spitzer, Senior Ed. and FW Turek, Assoc Ed.). Elsevier (2008).
- 2010 Section 3 – Genetics of Sleep. In: Principles and Practices of Sleep Medicine, Fifth Edition, (MH Kryger, T Roth and WC Dement, eds.). Elsevier (2010).
- 2010 Section 5 – Chronobiology. In: Principles and Practices of Sleep Medicine, Fifth Edition, (MH Kryger, T Roth and WC Dement, eds.). Elsevier (2010).
- 2013 Section 3 – Genetics of Sleep. In: Principles and Practices of Sleep Medicine, Sixth Edition, (MH Kryger, T Roth and WC Dement, eds.). Elsevier (2013).
- 2013 Section 5 – Chronobiology. In: Principles and Practices of Sleep Medicine, Sixth Edition, (MH Kryger, T Roth and WC Dement, eds.). Elsevier (2013).

PRESENT SOCIETY MEMBERSHIPS:

- American Association for the Advancement of Science
- Society for the Study of Reproduction
- American Physiological Society
- The Endocrine Society
- Society for Neuroscience
- Society for Research on Biological Rhythms
- Collegium Internationale Neuro-Psychopharmacologicum
- Sleep Research Society

SOCIETY OFFICES:

1987-1992 Founding and First President, Society for Research on Biological Rhythms

PUBLICATIONS

PAPERS:

1. Turek FW. Photoperiodic phenomena in white-crowned and golden-crowned sparrows (Genus *Zonotrichia*). Ph.D. Dissertation, Stanford University, 1973.
2. Gwinner EG, Turek FW, and Smith SD. Extracellular light perception in photoperiodic responses of the white-crowned (*Zonotrichia leucophrys*) and of the golden-crowned sparrow (*Z. atricapilla*). *Z. Vergl. Physiol.* 75:323-331 (1971).
3. Gwinner EG and Turek FW. Effects of season on circadian activity rhythms of the starling. *Die Naturwissenschaften* 12:627-628 (1971).
4. Turek FW. Circadian involvement in termination of the refractory period in two sparrows. *Science* 178:1112-1113 (1972).
5. Turek FW. Circadian rhythmicity and the initiation of gonadal growth in sparrows. *J. Comp. Physiol.* 92:59-64 (1974).
6. Turek FW. Extraretinal photoreception during the gonadal photorefractory period in the golden-crowned sparrow. *J. Comp. Physiol.* 96:27-36 (1975).
7. Turek FW, Elliott JA, Alvis JD and Menaker M. The interaction of castration and photoperiod in the regulation of hypophyseal and serum gonadotropin levels in male golden hamsters. *Endocrinology* 96:854-860 (1975).
8. Turek FW. The termination of the avian photorefractory period and the subsequent gonadal response. *Gen. Comp. Endocrinol.* 26:562-564 (1975).
9. Turek FW, Desjardins C and Menaker M. Melatonin: antigonadal and progonadal effects in male golden hamsters. *Science* 190:280-282 (1975).
10. Turek FW, Elliott JA, Alvis JD and Menaker M. Effect of prolonged exposure to nonstimulatory photoperiods on the activity of the neuroendocrine-testicular axis of golden hamsters. *Biol. Reprod.* 13:475-481 (1975).
11. Turek FW, Desjardins C and Menaker M. Melatonin induced inhibition of testicular function in adult golden hamsters. *Proc. Soc. Exp. Biol. Med.* 151:502-506 (1976).
12. Turek FW, Desjardins C and Menaker M. Antigonal and progonadal effects of testosterone in male house sparrows. *Gen. Comp. Endocrinol.* 28:395-402 (1976).
13. Turek FW, Alvis JD, Elliott JA and Menaker M. Temporal distribution of serum levels of LH and FSH in adult male golden hamsters exposed to long or short days. *Biol. Reprod.* 14:630-631 (1976).
14. Turek FW, Desjardins C and Menaker M. Differential effects of melatonin on the testes of photoperiodic and nonphotoperiodic rodents. *Biol. Reprod.* 15:94-97 (1976).
15. Turek FW, McMillan JP and Menaker M. Melatonin: effects on the circadian locomotor rhythm of sparrows. *Science* 194:1441-1443 (1976).
16. Turek FW. Antigonal effect of melatonin in pinealectomized and intact male hamsters. *Proc. Soc. Exp. Biol. Med.* 155:31-34 (1977).
17. Desjardins C and Turek FW. Effects of testosterone on spermatogenesis and luteinizing hormone release in Japanese quail. *Gen. Comp. Endocrinol.* 33:293-303 (1977).
18. Turek FW. The interaction of the photoperiod and testosterone in regulating serum gonadotropin levels in castrated male hamsters. *Endocrinology* 101:1210-1215 (1977).
19. Turek FW, Alvis JD and Menaker M. Pituitary responsiveness to LRF in castrated male hamsters exposed to different photoperiodic conditions. *Neuroendocrinology* 24:140-146 (1977).
20. Turek FW and Losee, SH. Melatonin-induced testicular growth in golden hamsters maintained on short days. *Biol. Reprod.* 18:299-305 (1978).
21. Turek FW and Wolfson A. Lack of an effect of melatonin treatment via Silastic capsules on photic-induced gonadal growth and the photorefractory condition in white-throated sparrows. *Gen. Comp. Endocrinol.* 34:471-474 (1978).
22. Campbell CS, Finkelstein JS and Turek FW. The interaction of photoperiod and testosterone on the development of copulatory behavior in castrated male hamsters. *Physiol. Behav.* 21:409-415 (1978).

23. Hendel RC and Turek FW. Suppression of locomotor activity in sparrows by treatment with melatonin. *Physiol. Behav.* 21:275-278 (1978).
24. Turek FW. Diurnal rhythms and the seasonal reproductive cycle in birds. In: *Proceedings in Life Sciences: Environmental Endocrinology* (DS Farner and I Assenmacher, eds.). Springer-Verlag, New York, pp. 144-152 (1978).
25. Turek FW and Losee SH. Photoperiodic inhibition of the reproductive system: A prerequisite for the induction of the refractory period in hamsters. *Biol. Reprod.* 20:611-616 (1979).
26. Turek FW and Desjardins C. Development of Leydig cell tumors and onset of changes in the reproductive and endocrine system of aging F 344 rat. *US J. Natl. Cancer Inst.* 63:969-975 (1979).
27. Turek FW and Campbell CS. Photoperiodic regulation of neuroendocrine-gonadal activity. *Biol. Reprod.* 20:32-50 (1979).
28. Ellis GB and Turek FW. Time course of the photoperiod-induced change in sensitivity of the hypothalamic-pituitary axis to testosterone feedback in castrated male hamsters. *Endocrinology* 104:625-630 (1979).
29. Ellis GB, Losee SH and Turek FW. Prolonged exposure of castrated male hamsters to a nonstimulatory photoperiod: spontaneous change in sensitivity of the hypothalamic-pituitary axis to testosterone feedback. *Endocrinology* 104:631-635 (1979).
30. Turek FW. Role of the pineal gland in photoperiod-induced changes in hypothalamic-pituitary sensitivity to testosterone feedback in castrated male hamsters. *Endocrinology* 104:636-640 (1979).
31. Wallen EP and Turek FW. Effect of testosterone on the hypothalamic-pituitary-gonadal axis of pinealectomized and pineal-intact male rats. *Experientia* 35:705-706 (1979).
32. Turek FW. Effect of melatonin on photic-independent and photic-dependent testicular growth in juvenile and adult male golden hamsters. *Biol. Reprod.* 20:1119-1122 (1979).
33. Ellis GB and Turek FW. Changes in locomotor activity associated with the photoperiodic response of the testes in male golden hamsters. *J. Comp. Physiol.* 132:277-284 (1979).
34. Laitman RS and Turek FW. The effect of pinealectomy on entrainment of the locomotor activity rhythm in sparrows maintained on various short days. *J. Comp. Physiol.* 134:339-343 (1979).
35. Turek FW and Ellis GB. Role of the pineal gland in seasonal changes in neuroendocrine-testicular function. In: *Testicular Development, Structure, and Function* (E Steinberger and A. Steinberger, eds.). Raven Press Ltd., New York, pp. 389-393 (1980).
36. Ellis GB and Turek FW. Photoperiodic regulation of serum luteinizing hormone and follicle stimulating hormone in castrated and castrated-adrenalectomized male hamsters. *Endocrinology* 106:1338-1344 (1980).
37. Turek FW, Jacobson CD and Gorski RA. Lesions of the suprachiasmatic nuclei affect photoperiod-induced changes in the sensitivity of the hypothalamic-pituitary axis to testosterone feedback. *Endocrinology* 107:942-947 (1980).
38. Ellis GB and Turek FW. Photoperiod-induced change in responsiveness of the hypothalamic-pituitary axis to exogenous 5-dihydrotestosterone and estradiol-17B in castrated male hamsters. *Neuroendocrinology* 31:205-209 (1980).
39. Turek FW, Wolfson A and Desjardins C. Testosterone treatment blocks the termination of the gonadal photorefractory condition in white-throated sparrows maintained on short days. *Gen. Comp. Endocrinol.* 41:365-371 (1980).
40. Darrow JM, Davis FC, Elliott JA, Stetson MH, Turek FW and Menaker M. Influence of photoperiod on reproductive development in the golden hamster. *Biol. Reprod.* 22:443-450 (1980).
41. Turek FW and Pappas P. Daily melatonin injections inhibit short-day-induced testicular regression in hamsters. *Experientia* 36:1426-1427 (1980).
42. Turek FW. The role of the pineal gland in the regulation of annual reproductive cycles in birds and mammals: a comparative approach. In: *Acta XVII Congressus Internationalis Ornithologici* (R Nohring, ed.). Verlag Der Deutschen Ornithologen-Gesellschaft, Berlin, pp. 479-482 (1980).

43. Wallen EP and Turek FW. Photoperiodicity in the male albino laboratory rat. *Nature* 289:402-404 (1981).
44. Turek FW and Ellis GB. Steroid-dependent and steroid-independent aspects of the photoperiodic control of seasonal reproductive cycles in male hamsters. In: *Biological Clocks in Seasonal Reproductive Cycles* (BK and DE Follett, eds.). J. Wright & Sons Ltd., Bristol, pp. 251-260 (1981).
45. Campbell CS and Turek FW. Cyclic function of the mammalian ovary. In: *Handbook of Behavioral Neurobiology, Vol. 4: Biological Rhythms* (J Aschoff, ed.). Plenum, New York, pp. 523-545 (1981).
46. Losee SH and Turek FW. Melatonin treatment prevents the termination of the gonadal refractory condition normally observed in hamsters exposed to long days. In: *Pineal Function* (CD Matthew and RF Seamark, eds.). Elsevier/North Holland Biomedical Press, Amsterdam, pp. 67-75 (1981).
47. Ellis GB, Losee SH and Turek FW. Pinealectomy abolishes the short-photoperiodic-induced attenuated castration response in male hamsters. In: *Pineal Function* (CD Matthew and RF Seamark, eds.). Elsevier/North Holland Biomedical Press, Amsterdam, pp. 87-94 (1981).
48. Turek FW and Pickard GE. Partial inhibition of short-day induced testicular regression by small lesions of the SCN region in hamsters. In: *Photoperiodism and Reproduction*. Institute National De La Recherche Agronomique, Paris, pp. 175-187 (1981).
49. Harris MO and Turek FW. Photoperiodic control of the timing of testicular regression in white-throated sparrows. *Gen. Comp. Endocrinol.* 46:124-129 (1982).
50. Ellis GB, McKlveen RE and Turek FW. Dark pulses affect the circadian rhythm of activity in hamsters kept in constant light. *Am. J. Physiol.* 242:R44-R50 (1982).
51. Earnest DJ and Turek FW. Splitting of the circadian rhythm of activity in hamsters: Effects of exposure to constant darkness and subsequent re-exposure to constant light. *J. Comp. Physiol.* 145:405-411 (1982).
52. Pickard GE and Turek FW. Splitting of the circadian rhythm of activity is abolished by unilateral lesions of the suprachiasmatic nuclei. *Science* 215:1119-1121 (1982).
53. Swann J and Turek FW. The cycle of lordosis behavior in female hamsters whose circadian activity rhythm has split into two components. *Am. J. Physiol.* 243:R112-R118 (1982).
54. Turek FW, Earnest DJ and Swann J. Splitting of the circadian rhythm of activity in hamsters. In: *Vertebrate Circadian Systems: Structure and Physiology* (J Aschoff, S Daan and GA Groos, eds.). Springer-Verlag, Berlin, pp. 203-214 (1982).
55. Turek FW and Gwinner E. Role of hormones in the circadian organization of vertebrates. In: *Vertebrate Circadian Systems: Structure and Physiology* (J Aschoff, S Daan and GA Groos, eds.). Springer-Verlag, Berlin, pp. 173-182 (1982).
56. Aschoff J, Gerecke U, von Goetz Chr, Groos, GA and Turek FW. Phase responses and characteristics of free-running activity rhythms in the golden hamster: independence of the pineal gland. In: *Vertebrate Circadian Systems: Structure and Physiology* (J Aschoff, S Daan and G Groos, eds.). Springer-Verlag, Berlin, pp. 129-140 (1982).
57. Swanson LJ, Desjardins C and Turek FW. Aging of the reproductive system in male hamsters: behavioral and endocrine patterns. *Biol. Reprod.* 26:791-799 (1982).
58. Pickard GE, Turek FW, Lamperti AA and Silverman AJ. The effect of neonatally administered monosodium glutamate (MSG) on the development of retinofugal projections and the entrainment of circadian locomotor activity. *Behav. Neural Biol.* 34:433-444 (1982).
59. Sisk CL and Turek FW. Daily melatonin injections mimic the short-day-induced increase in negative feedback effects of testosterone on gonadotropin secretion in hamsters. *Biol. Reprod.* 27:602-608 (1982).
60. Turek FW. Rapid increase in serum FSH levels in castrated male hamsters following the transfer from short to long days or exposure to a single long day. *Endocrinology* 111:332-334 (1982).
61. Turek FW. Neurobiology of circadian rhythms in mammals. *Biol. Sci.* 33:439-444 (1983).

62. Earnest DJ and Turek FW. Effects of one-second light pulses on testicular function and locomotor activity in the golden hamster. *Biol. Reprod.* 28:557-565 (1983).
63. Earnest DJ and Turek FW. Role for acetylcholine in mediating effects of light on reproduction. *Science* 219:77-79 (1983).
64. Sisk CL and Turek FW. Gonadal growth and gonadal hormones do not participate in the development of responsiveness to photoperiod in the golden hamster. *Biol. Reprod.* 29:439-445 (1983).
65. Turek FW, Losee-Olson SH and Ellis GB. Pinealectomy and lesions of the suprachiasmatic nucleus affect the castration response in hamsters exposed to short photoperiods. *Neuroendocrinology* 36:335-339 (1983).
66. Pickard GE and Turek FW. The suprachiasmatic nuclei: two circadian clocks? *Brain Res.* 268:201-210 (1983).
67. Ellis GB and Turek FW. Testosterone and photoperiod interact to regulate locomotor activity in male hamsters. *Hormones Behav.* 17:66-75 (1983).
68. Sisk CL and Turek FW. Developmental time course of pubertal and photoperiodic changes in testosterone negative feedback on gonadotropin secretion in the golden hamster. *Endocrinology* 112:1208-1216 (1983).
69. Pickard GE and Turek FW. The hypothalamic paraventricular nucleus mediates the photoperiodic control of reproduction but not the effects of light on the circadian rhythm of activity. *Neurosci. Lett.* 43:67-72 (1983).
70. Earnest DJ and Turek FW. Periodic exposure to a brief light signal stimulates neuroendocrine-gonadal activity in golden hamsters. *J. Androl.* 5:64-69 (1984).
71. Turek FW, Swann J and Earnest DJ. Role of the circadian system in reproductive phenomena. In: *Recent Progress in Hormone Research*, Vol. 40 (RO Greep, ed.). Academic Press, New York, pp. 143-183 (1984).
72. Turek FW. Circadian neural rhythms. *Ann. Rev. Physiol.* 47:49-64 (1985).
73. Anderson KD and Turek FW. Photoperiodic control of testicular size in the golden hamster: lack of a role for the deep pineal gland. *J. Pineal Res.* 2:99-107 (1985).
74. Swann JM and Turek FW. Multiple circadian oscillators regulate the timing of behavioral and endocrine rhythms in female golden hamsters. *Science* 228:898-900 (1985).
75. Earnest DJ and Turek FW. Neurochemical basis for the photic control of circadian rhythms and seasonal reproductive cycles: Role for acetylcholine. *Proc. Natl. Acad. Sci. USA* 82:4277-4281 (1985).
76. Pickard GE and Turek FW. Effects of partial destruction on the suprachiasmatic nuclei on two circadian parameters: wheel-running activity and short-day induced testicular regression. *J. Comp. Physiol.* 156:803-815 (1985).
77. Keefe DL and Turek FW. Circadian time keeping processes in mammalian reproduction. In: *Oxford Reviews of Reproductive Biology*, Vol. 7 (JR Clarke, ed.). Oxford University Press, pp. 346-400 (1985).
78. Turek FW and Smith RD. Interactions between the circadian system, sleep and hormones. In: *Sleep '84* (WP Koella, E Rütther and H Schulz eds.). Gustav Fischer Verlag Press, New York, pp. 181-184 (1985).
79. Inouye ST and Turek FW. Horizontal knife cuts either ventral or dorsal to the hypothalamic paraventricular nucleus block testicular regression in golden hamsters maintained in short days. *Brain Res.* 370:102-107 (1986).
80. Van Cauter E and Turek FW. Depression: A disorder of time-keeping? *Pers. Biol. Med.* 29:510-519 (1986).
81. Milette JJ and Turek FW. Circadian and photoperiodic effects of brief light pulses in male Djungarian hamsters. *Biol. Reprod.* 35:327-335 (1986).
82. Turek FW and Losee-Olson S. A benzodiazepine used in the treatment of insomnia phase-shifts the mammalian circadian clock. *Nature* 321:167-168 (1986).
83. Turek FW. Circadian principles and the design of rotating shift work schedules. *Am. J. Physiol.* 251:R636-R638 (1986).
84. Earnest DJ and Turek FW. Responses of split activity components in hamsters. *Naturwissenschaften* 73:565 (1986).

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| 2. | Vol 10, No 2, Jun 1995. | Title: | Light treatment and sleep disorders: From basic research to clinical practice. |
| 3. | Vol 10, No 3, Sep 1995. | Subject: | The JBR, a vehicle for integrating basic research on plants and animals with studies on human biological rhythms. |
| 4. | Vol 10, No 4, Dec 1995. | Subject: | Fascinating biology, unexpected findings about human rhythms. |
| 5. | Vol 11, No 1, Mar 1996. | Subject: | The melatonin craze and the role of melatonin in the generation of daily and seasonal rhythms. |
| 6. | Vol 11, No 2, Jun 1996. | Subject: | A major advance in the neurosciences, the discovery of the central circadian clock in the SCN. |
| 7. | Vol 11, No 3, Sep 1996. | Title: | Entrainment: More than meets the eye. |
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| 9. | Vol 12, No 1, Feb 1997. | Title: | New opportunities in sleep and biological rhythms research. |
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| 13. | Vol 12, No 5, Oct 1997. | Title: | Linkages, Linkages, Linkages - Everywhere Linkages |
| 14. | Vol 12, No 6, Dec 1997. | Title: | Melatonin |
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| 16. | Vol 13, No 2, Apr 1998. | Title: | History for the Future |
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| 19. | Vol 13, No 5, Oct 1998. | Title: | Expected and Unexpected Directions in Biological Rhythms Research |
| 20. | Vol 13, No 6, Dec 1998. | Title: | Sleep/Rhythm, Aging and John Glenn's Return to Space at Age 77 |
| 21. | Vol 14, No 1, Feb 1999. | Title: | In the Receptor of the Beholder: Many Surprises |
| 22. | Vol 14, No 2, Apr 1999. | Title: | A Remarkable Year for Clocks Based on Many Years of Interdisciplinary Research |
| 23. | Vol 14, No 3, Jun 1999. | Title: | Lighting Up the Brain |
| 24. | Vol 14, No 4, Aug 1999. | Title: | NIH Workshop: "What is Sleep? What is it good for?" |

25. Vol 15, No 2, Apr 2000. Commentary: Recommendations from NIH/NSF Sponsored Workshop, "What is sleep? What is it good for?"

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- NASA Parabolic Flight in Zero-G on KC 135 Aircraft (40 Parabolus): Phase Shift Circadian Rhythms Studies; Hormone Measurement in Space. Houston, TX. January 1995: One flight.
- Shift Work in Steel Plant: Numerous visits to Bethelham Steel Plant, Gary Indiana as part of NSF Center on Biological Timing (UVA – CBT): Plan studies of shift-work schedules and health, safety and sick days. 1997-1999
- Towboat/Barge Studies: Two days up Ohio River on The Enterprise (Ingram Barge Co.) Towboat/Barge to gather information for new anchor sleep/nap sleep studies for 6:6:6:6 square watcher. August, 2008.
- Towboat/Barge Studies: Two days in Gulf of Mexico on Chemical Barge/Towboat (Kirby, Inc.) to gather information for new anchor sleep/nap sleep studies for 6:6:6:6 square watcher, October 2008

