

# Stanford

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## William C. Dement

Lowell W. and Josephine Q. Berry Professor in the Department of Psychiatry and Behavioral Sciences, Emeritus

Psychiatry and Behavioral Sciences - Stanford Center for Sleep Sciences and Medicine

### Bio

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#### ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Psychiatry and Behavioral Sciences - Stanford Center for Sleep Sciences and Medicine

#### PROFESSIONAL EDUCATION

- D.Sc., Mount Sinai School of Medicine , Sleep Medicine (2006)
- B.S., University of Washington , Premedical, Medical Science (1951)
- M.D., University of Chicago , Physiology (1955)
- Ph. D., University of Chicago , Physiology (1957)

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

William Charles Dement is the Lowell W. and Josephine Q. Berry Professor of Psychiatry and Behavioral Sciences at the Stanford University School of Medicine, and the Division Chief of the Stanford University Division of Sleep.

A native of the state of Washington, Dement received his M.D. from the University of Chicago in 1955 and his Ph.D. in Neurophysiology from the same institution in 1957. While a medical student, he began his career in sleep research when he joined the lab of Dr. Nathaniel Kleitman. There, he helped discover and describe Rapid Eye Movement (REM) sleep. From 1954 through 1957, Dement described the relationship between REM sleep and dreaming, established the all night sleep patterns in human beings, discovered REM sleep in animals and newborn babies, and demonstrated that the patterns of specific rapid eye movements are related to the visual experience of the dream.

In 1963, Dement joined the Psychiatry Department at Stanford University, where for the past thirty-five years he has continued his studies on the neurochemistry of sleep and the functional significance of the different sleep states. In 1964, Dement initiated a special narcolepsy clinic through which he demonstrated that the syndrome of narcolepsy involves disordered REM sleep processes. In 1970, Dement started the world's first Sleep Disorders Clinic which introduced all-night polysomnographic examination of patients with sleep-related complaints, medical responsibility and management of the patient, and objective assessment of the relationship between nighttime sleep and daytime function. For the latter, Dement developed the Multiple Sleep Latency Test which remains the standard diagnostic measure of daytime sleepiness. Dement and his colleagues were the first to understand the clinical implications and high prevalence of sleep apnea syndromes, periodic leg movement, narcolepsy, delayed sleep phase syndrome, psychophysiological insomnia, drug dependency insomnia, and a host of other disorders.

In 1973, Dement discovered narcolepsy in dogs and developed the world's only research colony of animals with this disease # this colony represents one of a handful of animal models of a neurological disease in the world. Dement's basic research team has discovered and described neurochemical abnormalities associated with narcolepsy in dogs. Currently, the research is focusing on the biological clock -- the overseer of all the body's many rhythmic processes # which is located in a single brain structure (the suprachiasmatic nucleus (SCN)) and can be kept alive in a dish, or transplanted from animal to animal. Dement's human research program elucidated sleep apnea and developed new and effective treatment strategies. Dement has conducted numerous studies on insomnia, circadian rhythms, sudden infant death syndrome (SIDS), jet lag, sleep loss, and sleep hygiene. Finally, Dement has helped develop a thorough understanding of the determinants of daytime sleepiness including the demonstration that partial sleep loss is cumulative, that the circadian curve of sleepiness is biphasic, and that sleep needs must be defined in terms of daytime alertness.

Dr. Dement was co-founder of the Sleep Research Society in 1961 and founding President of the American Sleep Disorders Association (ASDA) in 1975, a position he served for 12 years. During his Presidency, the ASDA grew from five sleep disorders centers with about twenty individual members to about 140 accredited centers with over 2,000 members.

Dement is the author or co-author of approximately 500 scientific publications, including the popular overview of sleep, *Some Must Watch While Some Must Sleep*, the authoritative textbook for medical professionals, *Principles and Practices of Sleep Medicine*, and the *Portable Stanford The Sleepwatchers*.

## CLINICAL TRIALS

- Apnea Positive Pressure Long-Term Efficacy Study, Not Recruiting

## Teaching

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### COURSES

2016-17

- Sleep and Dreams: PSYC 135, PSYC 235 (Win, Spr)

## Publications

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### PUBLICATIONS

- **Senator Mark O. Hatfield: An Advocate for Sleep** *OBITUARY SLEEP*  
Dement, W. C.  
2011; 34 (10): 1443-1444
- **Armodafinil, the R-enantiomer of modafinil: Wake-promoting effects and pharmacokinetic profile in the rat** *PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR*  
Wisor, J. P., Dement, W. C., Aimone, L., Williams, M., Bozyczko-Coyne, D.  
2006; 85 (3): 492-499
- **History of sleep medicine** *NEUROLOGIC CLINICS*  
Dement, W. C.  
2005; 23 (4): 945-?
- **Sleep extension: Getting as much extra sleep as possible** *CLINICS IN SPORTS MEDICINE*  
Dement, W. C.  
2005; 24 (2): 251-?
- **The impact of extended sleep on daytime alertness, vigilance, and mood** *SLEEP MEDICINE*  
Kamdar, B. B., Kaplan, K. A., Kezirian, E. J., Dement, W. C.  
2004; 5 (5): 441-448
- **The paradox of sleep: The early years** *International Symposium on the Paradox of Sleep held in honor of Michel Jouvet*

Dement, W. C.  
UNIV PISA.2004: 333-45

- **Restless legs syndrome symptoms in primary care - A prevalence study** *ARCHIVES OF INTERNAL MEDICINE*  
Nichols, D. A., Allen, R. P., Grauke, J. H., Brown, J. B., Rice, M. L., Hyde, P. R., Dement, W. C., Kushida, C. A.  
2003; 163 (19): 2323-2329
- **Teaching family medicine medical students about sleep disorders** *FAMILY MEDICINE*  
Schillinger, E., Kushida, C., Fahrenbach, R., Dement, W., LeBaron, S.  
2003; 35 (8): 547-549
- **Tiredness versus sleepiness: Semantics or a target for public education?** *SLEEP*  
Dement, W. C., Hall, J., Walsh, J. K.  
2003; 26 (4): 485-486
- **Technical protocol for the use of esophageal manometry in the diagnosis of sleep-related breathing disorders** *SLEEP MEDICINE*  
Kushida, C. A., Giacomini, A., Lee, M. K., Guilleminault, C., Dement, W. C.  
2002; 3 (2): 163-173
- **Comparison of actigraphic, polysomnographic, and subjective assessment of sleep parameters in sleep-disordered patients.** *Sleep medicine*  
Kushida, C. A., Chang, A., Gadkary, C., Guilleminault, C., Carrillo, O., Dement, W. C.  
2001; 2 (5): 389-396
- **Cervical positioning for reduction of sleep-disordered breathing in mild-to-moderate OSAS.** *Sleep & breathing = Schlaf & Atmung*  
Kushida, C. A., Sherrill, C. M., Hong, S. C., Palombini, L., Hyde, P., Dement, W. C.  
2001; 5 (2): 71-78
- **Symptom-Based Prevalence of Sleep Disorders in an Adult Primary Care Population.** *Sleep & breathing = Schlaf & Atmung*  
Kushida, C. A., Nichols, D. A., Simon, R. D., Young, T., Grauke, J. H., Britzmann, J. B., Hyde, P. R., Dement, W. C.  
2000; 4 (1): 9-14
- **Primary Care: Is It the Setting to Address Sleep Disorders?** *Sleep & breathing = Schlaf & Atmung*  
Dement, W. C., Netzer, N. C.  
2000; 4 (1): 1-XX
- **Cervical positional effects on snoring and apneas.** *Sleep research online : SRO*  
Kushida, C. A., Rao, S., Guilleminault, C., Giraudo, S., Hsieh, J., Hyde, P., Dement, W. C.  
1999; 2 (1): 7-10
- **The study of human sleep: a historical perspective** *International Workshop on Sleep and Cardiovascular Disease*  
Dement, W. C.  
B M J PUBLISHING GROUP.1998: S2-S7
- **Effects of adrenalectomy and subsequent corticosterone replacement on rat sleep state and EEG power spectra** *2nd International Congress for the World-Federation-of-Sleep-Research-Societies*  
Bradbury, M. J., Dement, W. C., Edgar, D. M.  
AMER PHYSIOLOGICAL SOC.1998: R555-R565
- **Development of cataplexy in genetically narcoleptic Dobermans** *EXPERIMENTAL NEUROLOGY*  
Riehl, J., Nishino, S., Cederberg, R., Dement, W. C., Mignot, E.  
1998; 152 (2): 292-302
- **Neuropharmacological characterization of basal forebrain cholinergic stimulated cataplexy in narcoleptic canines** *EXPERIMENTAL NEUROLOGY*  
Reid, M. S., Nishino, S., Tafti, M., Siegel, J. M., Dement, W. C., Mignot, E.  
1998; 151 (1): 89-104
- **Breeding history of the Stanford colony of narcoleptic dogs** *VETERINARY RECORD*  
Cederberg, R., Nishino, S., Dement, W. C., Mignot, E.  
1998; 142 (2): 31-36

- **Serotonin-containing fibers in the suprachiasmatic hypothalamus attenuate light-induced phase delays in mice** *BRAIN RESEARCH*  
Bradbury, M. J., Dement, W. C., Edgar, D. M.  
1997; 768 (1-2): 125-134
- **Effects of thyrotropin-releasing hormone and its analogs on daytime sleepiness and cataplexy in canine narcolepsy** *JOURNAL OF NEUROSCIENCE*  
Nishino, S., Arrigoni, J., Shelton, J., Kanbayashi, T., Dement, W. C., Mignot, E.  
1997; 17 (16): 6401-6408
- **Serotonergic afferents mediate activity-dependent entrainment of the mouse circadian clock** *AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY*  
Edgar, D. M., Reid, M. S., Dement, W. C.  
1997; 273 (1): R265-R269
- **Circadian distribution of rest/activity in narcoleptic and control dogs: Assessment with ambulatory activity monitoring** *JOURNAL OF SLEEP RESEARCH*  
Nishino, S., Tafti, M., Sampathkumaran, R., Dement, W. C., Mignot, E.  
1997; 6 (2): 120-127
- **Extensive HLA class II studies in 58 non-DRB1\*15 (DR2) narcoleptic patients with cataplexy** *TISSUE ANTIGENS*  
Mignot, E., Kimura, A., Lattermann, A., Lin, X., Yasunaga, S., MUELLERECKHARDT, G., Rattazzi, C., Lin, L., Guilleminault, C., Dement, W. C., Underhill, P.  
1997; 49 (4): 329-341
- **Mesopontine organization of cholinergic and catecholaminergic cell groups in the normal and narcoleptic dog** *JOURNAL OF COMPARATIVE NEUROLOGY*  
Tafti, M., Nishino, S., Liao, W., Dement, W. C., Mignot, E.  
1997; 379 (2): 185-197
- **Nasal obstruction and obstructive sleep apnea: A review** *ALLERGY AND ASTHMA PROCEEDINGS*  
Kushida, C. A., Guilleminault, C., Clerk, A. A., Dement, W. C.  
1997; 18 (2): 69-71
- **Thalidomide, a hypnotic with immune modulating properties, increases cataplexy in canine narcolepsy** *NEUROREPORT*  
Kanbayashi, T., Nishino, S., Tafti, M., Hishikawa, Y., Dement, W. C., Mignot, E.  
1996; 7 (12): 1881-1886
- **Major histocompatibility class II molecules in the CNS: Increased microglial expression at the onset of narcolepsy in a canine model** *JOURNAL OF NEUROSCIENCE*  
Tafti, M., Nishino, S., Aldrich, M. S., Liao, W. N., Dement, W. C., Mignot, E.  
1996; 16 (15): 4588-4595
- **Thalidomide, immune modulation and narcolepsy** *SLEEP*  
Kanbayashi, T., Nishino, S., Tafti, M., Hishikawa, Y., Dement, W. C., Mignot, E.  
1996; 19 (2): 116-116
- **Comparative effects of modafinil and amphetamine on daytime sleepiness and cataplexy of narcoleptic dogs** *SLEEP*  
Shelton, J., Nishino, S., Vaught, J., Dement, W. C., Mignot, E.  
1995; 18 (10): 817-826
- **ALPHA-2-ADRENERGIC MODULATION OF SLEEP - TIME-OF-DAY-DEPENDENT PHARMACODYNAMIC PROFILES OF DEXMEDETOMIDINE AND CLONIDINE IN THE RAT** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*  
Seidel, W. F., Maze, M., Dement, W. C., Edgar, D. M.  
1995; 275 (1): 263-273
- **MUSCLE ATONIA IS TRIGGERED BY CHOLINERGIC STIMULATION OF THE BASAL FOREBRAIN - IMPLICATION FOR THE PATHOPHYSIOLOGY OF CANINE NARCOLEPSY** *JOURNAL OF NEUROSCIENCE*  
Nishino, S., Tafti, M., Reid, M. S., Shelton, J., Siegel, J. M., Dement, W. C., Mignot, E.  
1995; 15 (7): 4806-4814
- **SLEEP AND SLEEP-DISORDERED BREATHING IN COMMERCIAL LONG-HAUL TRUCK DRIVERS** *CHEST*  
Stoohs, R. A., BINGHAM, L. A., Itoi, A., Guilleminault, C., Dement, W. C.  
1995; 107 (5): 1275-1282

- **EFFECT OF 5-HT1A RECEPTOR AGONISTS AND ANTAGONISTS ON CANINE CATAPLEXY** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*  
Nishino, S., Shelton, J., RENAUD, A., Dement, W. C., Mignot, E.  
1995; 272 (3): 1170-1175
- **NARCOLEPSY AND IMMUNITY** *ADVANCES IN NEUROIMMUNOLOGY*  
Mignot, E., Tafti, M., Dement, W. C., GRUMET, F. C.  
1995; 5 (1): 23-37
- **AN IMMUNOGLOBULIN SWITCHLIKE SEQUENCE IS LINKED WITH CANINE NARCOLEPSY** *4th International Conference on Narcolepsy*  
Mignot, E., Bell, R. A., Rattazzi, C., LOVETT, M., GRUMET, F. C., Dement, W. C.  
AMER SLEEP DISORDERS ASSOC.1994: S68-S76
- **DQB1-ASTERISK-0602 AND DQA1-ASTERISK-0102 (DQ1) ARE BETTER MARKERS THAN DR2 FOR NARCOLEPSY IN CAUCASIAN AND BLACK-AMERICANS** *4th International Conference on Narcolepsy*  
Mignot, E., Lin, X., Arrigoni, J., Macaubas, C., Olive, F., Hallmayer, J., Underhill, P., Guilleminault, C., Dement, W. C., GRUMET, F. C.  
AMER SLEEP DISORDERS ASSOC.1994: S60-S67
- **NEUROPHARMACOLOGY AND NEUROCHEMISTRY OF CANINE NARCOLEPSY** *4th International Conference on Narcolepsy*  
Nishino, S., Reid, M. S., Dement, W. C., Mignot, E.  
AMER SLEEP DISORDERS ASSOC.1994: S84-S92
- **TRAFFIC ACCIDENTS IN COMMERCIAL LONG-HAUL TRUCK DRIVERS - THE INFLUENCE OF SLEEP-DISORDERED BREATHING AND OBESITY** *SLEEP*  
Stoohs, R. A., Guilleminault, C., Itoi, A., Dement, W. C.  
1994; 17 (7): 619-623
- **CHOLINERGIC REGULATION OF CATAPLEXY IN CANINE NARCOLEPSY IN THE PONTINE RETICULAR-FORMATION IS MEDIATED BY M2 MUSCARINIC RECEPTORS** *SLEEP*  
Reid, M. S., Tafti, M., Nishino, S., Siegel, J. M., Dement, W. C., Mignot, E.  
1994; 17 (5): 424-435
- **MODAFINIL BINDS TO THE DOPAMINE UPTAKE CARRIER SITE WITH LOW-AFFINITY** *SLEEP*  
Mignot, E., Nishino, S., Guilleminault, C., Dement, W. C.  
1994; 17 (5): 436-437
- **CHOLINERGIC MECHANISMS IN CANINE NARCOLEPSY .2. ACETYLCHOLINE-RELEASE IN THE PONTINE RETICULAR-FORMATION IS ENHANCED DURING CATAPLEXY** *NEUROSCIENCE*  
Reid, M. S., Siegel, J. M., Dement, W. C., Mignot, E.  
1994; 59 (3): 523-530
- **CHOLINERGIC MECHANISMS IN CANINE NARCOLEPSY .1. MODULATION OF CATAPLEXY VIA LOCAL-DRUG ADMINISTRATION INTO THE PONTINE RETICULAR-FORMATION** *NEUROSCIENCE*  
Reid, M. S., Tafti, M., GEARY, J. N., Nishino, S., Siegel, J. M., Dement, W. C., Mignot, E.  
1994; 59 (3): 511-522
- **CIRCADIAN-RHYTHMS IN NARCOLEPSY - STUDIES ON A 90 MINUTE DAY** *ELECTROENCEPHALOGRAPHY AND CLINICAL NEUROPHYSIOLOGY*  
Dantz, B., Edgar, D. M., Dement, W. C.  
1994; 90 (1): 24-35
- **DESMETHYL METABOLITES OF SEROTONERGIC UPTAKE INHIBITORS ARE MORE POTENT FOR SUPPRESSING CANINE CATAPLEXY THAN THEIR PARENT COMPOUNDS** *SLEEP*  
Nishino, S., Arrigoni, J., Shelton, J., Dement, W. C., Mignot, E.  
1993; 16 (8): 706-712
- **SLEEP-APNEA AND HYPERTENSION IN COMMERCIAL TRUCK DRIVERS** *3rd International Conference on Sleep and Breathing*  
Stoohs, R. A., Guilleminault, C., Dement, W. C.  
AMER SLEEP DISORDERS ASSOC.1993: S11-S14

- **CANINE CATAPLEXY IS PREFERENTIALLY CONTROLLED BY ADRENERGIC-MECHANISMS - EVIDENCE USING MONOAMINE SELECTIVE UPTAKE INHIBITORS AND RELEASE ENHANCERS** *PSYCHOPHARMACOLOGY*  
Mignot, E., RENAUD, A., Nishino, S., Arrigoni, J., Guilleminault, C., Dement, W. C.  
1993; 113 (1): 76-82
- **LIGHT-INDUCED GENE-EXPRESSION IN THE SUPRACHIASMATIC NUCLEUS OF YOUNG AND AGING RATS** *NEUROBIOLOGY OF AGING*  
SUTIN, E. L., Dement, W. C., Heller, H. C., Kilduff, T. S.  
1993; 14 (5): 441-446
- **SLEEP AND SUNDOWNING IN NURSING-HOME PATIENTS WITH DEMENTIA** *PSYCHIATRY RESEARCH*  
Bliwise, D. L., Carroll, J. S., Lee, K. A., NEKICH, J. C., Dement, W. C.  
1993; 48 (3): 277-292
- **The history of narcolepsy and other sleep disorders.** *Journal of the history of the neurosciences*  
Dement, W. C.  
1993; 2 (2): 121-134
- **ITS TIME TO WAKE UP TO THE IMPORTANCE OF SLEEP DISORDERS** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Dement, W. C., Mitler, M. M.  
1993; 269 (12): 1548-1550
- **SEROTONIN AND THE MAMMALIAN CIRCADIAN SYSTEM .2. PHASE-SHIFTING RAT BEHAVIORAL RHYTHMS WITH SEROTONERGIC AGONISTS** *JOURNAL OF BIOLOGICAL RHYTHMS*  
Edgar, D. M., Miller, J. D., Prosser, R. A., Dean, R. R., Dement, W. C.  
1993; 8 (1): 17-31
- **FURTHER CHARACTERIZATION OF THE ALPHA-1 RECEPTOR SUBTYPE INVOLVED IN THE CONTROL OF CATAPLEXY IN CANINE NARCOLEPSY** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*  
Nishino, S., Fruhstorfer, B., Arrigoni, J., Guilleminault, C., Dement, W. C., Mignot, E.  
1993; 264 (3): 1079-1084
- **HETEROZYGOSITY AT THE CANARC-1 LOCUS CAN CONFER SUSCEPTIBILITY FOR NARCOLEPSY - INDUCTION OF CATAPLEXY IN HETEROZYGOUS ASYMPTOMATIC DOGS AFTER ADMINISTRATION OF A COMBINATION OF DRUGS ACTING ON MONOAMINERGIC AND CHOLINERGIC SYSTEMS** *JOURNAL OF NEUROSCIENCE*  
Mignot, E., Nishino, S., Sharp, L. H., Arrigoni, J., Siegel, J. M., Reid, M. S., Edgar, D. M., CIARANELLO, R. D., Dement, W. C.  
1993; 13 (3): 1057-1064
- **"Somnolence: its importance in society".** *Neurophysiologie clinique = Clinical neurophysiology*  
Dement, W. C., Gelb, M.  
1993; 23 (1): 5-14
- **THE PROPER USE OF SLEEPING PILLS IN THE PRIMARY CARE SETTING** *ROUNDTABLE SYMP ON THE USE OF BENZODIAZEPINE HYPNOTICS : A SCIENTIFIC EXAMINATION OF A CLINICAL CONTROVERSY*  
Dement, W. C., Gelenberg, A. J., Balter, M. B., Walsh, J. K., NINOMURCIA, G.  
PHYSICIANS POSTGRADUATE PRESS.1992: 50-60
- **MELATONIN INFLUENCES FOS EXPRESSION IN THE RAT SUPRACHIASMATIC NUCLEUS** *MOLECULAR BRAIN RESEARCH*  
Kilduff, T. S., LANDEL, H. B., Nagy, G. S., SUTIN, E. L., Dement, W. C., Heller, H. C.  
1992; 16 (1-2): 47-56
- **DQB1-0602 (DQW1) IS NOT PRESENT IN MOST NONDR2 CAUCASIAN NARCOLEPTICS** *SLEEP*  
Mignot, E., Lin, X., Kalil, J., George, C., Singh, S., Billiard, M., Montplaisir, J., Arrigoni, J., Guilleminault, C., Dement, W. C., GRUMET, F. C.  
1992; 15 (5): 415-422
- **SLEEP HOMEOSTASIS IN SUPRACHIASMATIC NUCLEI-LESIONED RATS - EFFECTS OF SLEEP-DEPRIVATION AND TRIAZOLAM ADMINISTRATION** *BRAIN RESEARCH*  
Trachsel, L., Edgar, D. M., Seidel, W. F., Heller, H. C., Dement, W. C.  
1992; 589 (2): 253-261
- **MONOAMINERGIC UPTAKE IN SYNAPTOSOMES PREPARED FROM FROZEN BRAIN-TISSUE SAMPLES OF NORMAL AND NARCOLEPTIC CANINES** *BRAIN RESEARCH*

- VALTIER, D., Dement, W. C., Mignot, E.  
1992; 588 (1): 115-119
- **Monoaminic and metabolite levels in the cerebrospinal fluid of hibernating and euthermic marmots.** *Journal of sleep research*  
Reid, M. S., Kilduff, T. S., Romero, L. M., Florant, G. L., Dement, W. C., Heller, H. C.  
1992; 1 (1): 45-50
  - **EFFECTS OF SDZ NVI-085, A PUTATIVE SUBTYPE-SELECTIVE ALPHA-1-AGONIST, ON CANINE CATAPLEXY, A DISORDER OF RAPID EYE-MOVEMENT SLEEP** *EUROPEAN JOURNAL OF PHARMACOLOGY*  
RENAUD, A., Nishino, S., Dement, W. C., Guilleminault, C., Mignot, E.  
1991; 205 (1): 11-16
  - **REGIONAL CHANGES IN CENTRAL MONOAMINE AND METABOLITE LEVELS DURING THE HIBERNATION CYCLE IN THE GOLDEN-MANTLED GROUND-SQUIRREL** *BRAIN RESEARCH*  
Haak, L. L., Mignot, E., Kilduff, T. S., Dement, W. C., Heller, H. C.  
1991; 563 (1-2): 215-220
  - **ACTIVITY FEEDBACK TO THE MAMMALIAN CIRCADIAN PACEMAKER - INFLUENCE ON OBSERVED MEASURES OF RHYTHM PERIOD LENGTH** *JOURNAL OF BIOLOGICAL RHYTHMS*  
Edgar, D. M., Martin, C. E., Dement, W. C.  
1991; 6 (3): 185-199
  - **REGULARLY SCHEDULED VOLUNTARY EXERCISE SYNCHRONIZES THE MOUSE CIRCADIAN CLOCK** *AMERICAN JOURNAL OF PHYSIOLOGY*  
Edgar, D. M., Dement, W. C.  
1991; 261 (4): R928-R933
  - **DOPAMINE-D2 MECHANISMS IN CANINE NARCOLEPSY** *JOURNAL OF NEUROSCIENCE*  
Nishino, S., Arrigoni, J., VALTIER, D., Miller, J. D., Guilleminault, C., Dement, W. C., Mignot, E.  
1991; 11 (9): 2666-2671
  - **OBJECTIVE MEASUREMENTS OF DAYTIME SLEEPINESS AND PERFORMANCE COMPARING QUAZEPAM WITH FLURAZEPAM IN 2 ADULT-POPULATIONS USING THE MULTIPLE SLEEP LATENCY TEST** *JOURNAL OF CLINICAL PSYCHIATRY*  
Dement, W. C.  
1991; 52: 31-37
  - **MSLT-DEFINED SLEEPINESS AND NEUROPSYCHOLOGICAL TEST-PERFORMANCE DO NOT CORRELATE IN THE ELDERLY** *NEUROBIOLOGY OF AGING*  
Bliwise, D. L., Carskadon, M. A., Seidel, W. F., NEKICH, J. C., Dement, W. C.  
1991; 12 (5): 463-468
  - **OVERVIEW OF THE EFFICACY AND SAFETY OF BENZODIAZEPINE HYPNOTICS USING OBJECTIVE METHODS** *JOURNAL OF CLINICAL PSYCHIATRY*  
Dement, W. C.  
1991; 52: 27-30
  - **INFLUENCE OF RUNNING WHEEL ACTIVITY ON FREE-RUNNING SLEEP WAKE AND DRINKING CIRCADIAN-RHYTHMS IN MICE** *PHYSIOLOGY & BEHAVIOR*  
Edgar, D. M., Kilduff, T. S., Martin, C. E., Dement, W. C.  
1991; 50 (2): 373-378
  - **TRIAZOLAM FAILS TO INDUCE SLEEP IN SUPRACHIASMATIC NUCLEUS-LESIONED RATS** *NEUROSCIENCE LETTERS*  
Edgar, D. M., Seidel, W. F., Martin, C. E., Sayeski, P. P., Dement, W. C.  
1991; 125 (2): 125-128
  - **GENETIC-LINKAGE OF AUTOSOMAL RECESSIVE CANINE NARCOLEPSY WITH A MU-IMMUNOGLOBULIN HEAVY-CHAIN SWITCH-LIKE SEGMENT** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Mignot, E., Wang, C., Rattazzi, C., Gaiser, C., LOVETT, M., Guilleminault, C., Dement, W. C., GRUMET, F. C.  
1991; 88 (8): 3475-3478
  - **RELATIVE VALIDITY OF SELF-REPORTED SNORING AS A SYMPTOM OF SLEEP-APNEA IN A SLEEP CLINIC POPULATION** *CHEST*

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- Bliwise, D. L., NEKICH, J. C., Dement, W. C.  
1991; 99 (3): 600-608
- **PLATELET ALPHA-2 ADRENOCEPTORS IN HUMAN AND CANINE NARCOLEPSY** *BIOLOGICAL PSYCHIATRY*  
VALTIER, D., Nishino, S., Guilleminault, C., Dement, W. C., Mignot, E.  
1991; 29 (4): 376-382
  - **REAL-TIME AUTOMATED SLEEP SCORING - VALIDATION OF A MICROCOMPUTER-BASED SYSTEM FOR MICE** *SLEEP*  
VANGELDER, R. N., Edgar, D. M., Dement, W. C.  
1991; 14 (1): 48-55
  - **TRIAZOLAM-INDUCED SLEEP IN THE RAT - INFLUENCE OF PRIOR SLEEP, CIRCADIAN TIME, AND LIGHT DARK CYCLES** *PSYCHOPHARMACOLOGY*  
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