

Stanford



Seiji Nishino

Professor (Research) of Psychiatry & Behavioral Sciences, Emeritus

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

Bio

ACADEMIC APPOINTMENTS

- Professor Emeritus, Psychiatry and Behavioral Sciences - Stanford Center for Sleep Sciences and Medicine

LINKS

- SCN lab: <http://med.stanford.edu/school/Psychiatry/scn/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The research focus of the Sleep and Circadian Neurobiology (SCN) Laboratory is the study of the sleep and circadian physiology using various animal models. A portion of the research is carried out using rodent models of narcolepsy and circadian rhythm sleep disorders. The laboratory also carries out pharmacological studies aiming to develop new treatments for these sleep disorders.

Publications

PUBLICATIONS

- **High rebound mattress toppers facilitate core body temperature drop and enhance deep sleep in the initial phase of nocturnal sleep** *PLOS ONE*
Chiba, S., Yagi, T., Ozono, M., Matsumura, M., Sekiguchi, H., Ganeko, M., Uchida, S., Nishino, S.
2018; 13 (6): e0197521
- **An overview of hypocretin based therapy in narcolepsy** *EXPERT OPINION ON INVESTIGATIONAL DRUGS*
Takenoshita, S., Sakai, N., Chiba, Y., Matsumura, M., Yamaguchi, M., Nishino, S.
2018; 27 (4): 389–406
- **Advances in pharmaceutical treatment options for narcolepsy** *EXPERT OPINION ON ORPHAN DRUGS*
Takahashi, T., Noriaki, S., Matsumura, M., Li, C., Takahashi, K., Nishino, S.
2018; 6 (10): 597–610
- **Low dose of aripiprazole advanced sleep rhythm and reduced nocturnal sleep time in the patients with delayed sleep phase syndrome: an open-labeled clinical observation** *NEUROPSYCHIATRIC DISEASE AND TREATMENT*
Omori, Y., Kanbayashi, T., Sagawa, Y., Imanishi, A., Tsutsui, K., Takahashi, Y., Takeshima, M., Takaki, M., Nishino, S., Shimizu, T.
2018; 14: 1281–86
- **Mast cell involvement in glucose tolerance impairment caused by chronic mild stress with sleep disturbance** *SCIENTIFIC REPORTS*
Chikahisa, S., Harada, S., Shimizu, N., Shiuchi, T., Otsuka, A., Nishino, S., Sei, H.
2017; 7: 13640
- **N-Methyl-D-aspartate receptor antibody could be a cause of catatonic symptoms in psychiatric patients: case reports and methods for detection** *NEUROPSYCHIATRIC DISEASE AND TREATMENT*

- Tsutsui, K., Kanbayashi, T., Takaki, M., Omori, Y., Imai, Y., Nishino, S., Tanaka, K., Shimizu, T.
2017; 13: 339-345
- **Wake-promoting effects of ONO-4127Na, a prostaglandin DP1 receptor antagonist, in hypocretin/orexin deficient narcoleptic mice.** *Neuropharmacology*
Sagawa, Y., Sato, M., Sakai, N., Chikahisa, S., Chiba, S., Maruyama, T., Yamamoto, J., Nishino, S.
2016; 110: 268-276
 - **Decline of CSF orexin (hypocretin) levels in Prader-Willi syndrome.** *American journal of medical genetics. Part A*
Omokawa, M., Ayabe, T., Nagai, T., Imanishi, A., Omokawa, A., Nishino, S., Sagawa, Y., Shimizu, T., Kanbayashi, T.
2016; 170A (5): 1181-1186
 - **Decline of CSF orexin (hypocretin) levels in Prader-Willi syndrome.** *American journal of medical genetics. Part A*
Omokawa, M., Ayabe, T., Nagai, T., Imanishi, A., Omokawa, A., Nishino, S., Sagawa, Y., Shimizu, T., Kanbayashi, T.
2016; 170 (5): 1181-1186
 - **A PERIOD3 variant causes a circadian phenotype and is associated with a seasonal mood trait** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Zhang, L., Hirano, A., Hsu, P., Jones, C. R., Sakai, N., Okuro, M., McMahon, T., Yamazaki, M., Xu, Y., Saigoh, N., Saigoh, K., Lin, S., Kaasik, et al
2016; 113 (11): E1536-E1544
 - **The pathogenesis of narcolepsy, current treatments and prospective therapeutic targets** *EXPERT OPINION ON ORPHAN DRUGS*
Maruyama, T., Matsumura, M., Sakai, N., Nishino, S.
2016; 4 (1): 63-82
 - **Basal forebrain circuit for sleep-wake control.** *Nature neuroscience*
Xu, M., Chung, S., Zhang, S., Zhong, P., Ma, C., Chang, W., Weissbourd, B., Sakai, N., Luo, L., Nishino, S., Dan, Y.
2015; 18 (11): 1641-1647
 - **Residual effects of zolpidem, triazolam, rilmazafone and placebo in healthy elderly subjects: a randomized double-blind study.** *Sleep medicine*
Uemura, S. I., Kanbayashi, T., Wakasa, M., Satake, M., Ito, W., Shimizu, K., Shioya, T., Shimizu, T., Nishino, S.
2015; 16 (11): 1395-1402
 - **Relationship of orexin (hypocretin) system and astrocyte activation in Parkinson's disease with hypersomnolence** *SLEEP AND BIOLOGICAL RHYTHMS*
Takahashi, Y., Kanbayashi, T., Hoshikawa, M., Imanishi, A., Sagawa, Y., Tsutsui, K., Takeda, Y., Kusanagi, H., Nishino, S., Shimizu, T.
2015; 13 (3): 252-260
 - **The Sleep-Promoting and Hypothermic Effects of Glycine are Mediated by NMDA Receptors in the Suprachiasmatic Nucleus** *NEUROPSYCHOPHARMACOLOGY*
Kawai, N., Sakai, N., Okuro, M., Karakawa, S., Tsuneyoshi, Y., Kawasaki, N., Takeda, T., Bannai, M., Nishino, S.
2015; 40 (6): 1405-1416
 - **Apnea during Cheyne-Stokes-like breathing detected by a piezoelectric sensor for screening of sleep disordered breathing** *SLEEP AND BIOLOGICAL RHYTHMS*
Koyama, T., Sato, S., Kanbayashi, T., Kondo, H., Watanabe, H., Nishino, S., Shimizu, T., Ito, H., Ono, K.
2015; 13 (1): 57-67
 - **Chronic Powder Diet After Weaning Induces Sleep, Behavioral, Neuroanatomical, and Neurophysiological Changes in Mice.** *PLoS one*
Anegawa, E., Kotorii, N., Ishimaru, Y., Okuro, M., Sakai, N., Nishino, S.
2015; 10 (12)
 - **Noninvasive detection of sleep/wake changes and cataplexy-like behaviors in orexin/ataxin-3 transgenic narcoleptic mice across the disease onset** *EXPERIMENTAL NEUROLOGY*
Sato, M., Sagawa, Y., Hirai, N., Sato, S., Okuro, M., Kumar, S., Kanbayashi, T., Shimizu, T., Sakai, N., Nishino, S.
2014; 261: 744-751
 - **Noninvasive detection of sleep/wake changes and cataplexy-like behaviors in orexin/ataxin-3 transgenic narcoleptic mice across the disease onset.** *Experimental neurology*
Sato, M., Sagawa, Y., Hirai, N., Sato, S., Okuro, M., Kumar, S., Kanbayashi, T., Shimizu, T., Sakai, N., Nishino, S.
2014; 261: 744-751
 - **Association between heart rate variability, blood pressure and autonomic activity in cyclic alternating pattern during sleep.** *Sleep*

- Kondo, H., Ozone, M., Ohki, N., Sagawa, Y., Yamamichi, K., Fukuju, M., Yoshida, T., Nishi, C., Kawasaki, A., Mori, K., Kanbayashi, T., Izumi, M., Hishikawa, et al
2014; 37 (1): 187-194
- **[Anti-NMDA encephalitis in psychiatry; malignant catatonia, atypical psychosis and ECT].** *Rinsho shinkeigaku = Clinical neurology*
Kanbayashi, T., Tsutsui, K., Tanaka, K., Omori, Y., Takaki, M., Omokawa, M., Mori, A., Kusanagi, H., Nishino, S., Shimizu, T.
2014; 54 (12): 1103-1106
 - **Greatly Increased Numbers of Histamine Cells in Human Narcolepsy with Cataplexy** *ANNALS OF NEUROLOGY*
John, J., Thannickal, T. C., McGregor, R., Ramanathan, L., Ohtsu, H., Nishino, S., Sakai, N., Yamanaka, A., Stone, C., Cornford, M., Siegel, J. M.
2013; 74 (6): 786-793
 - **Histamine from Brain Resident MAST Cells Promotes Wakefulness and Modulates Behavioral States** *PLOS ONE*
Chikahisa, S., Kodama, T., Soya, A., Sagawa, Y., Ishimaru, Y., Sei, H., Nishino, S.
2013; 8 (10)
 - **Wake-promoting effects of ONO-4127, a prostaglandin DP1 receptor antagonist, in hypocretin deficient narcoleptic mice** *21st Congress of the European-Sleep-Research-Society*
Sagawa, Y., Sakai, N., Chikahisa, S., Sato, M., Chiba, S., Nishino, S.
WILEY-BLACKWELL.2012: 266-266
 - **Predictors of Hypocretin (Orexin) Deficiency in Narcolepsy Without Cataplexy** *SLEEP*
Andlauer, O., Moore, H., Hong, S., Dauvilliers, Y., Kanbayashi, T., Nishino, S., Han, F., Silber, M. H., Rico, T., Einen, M., Kornum, B. R., Jennum, P., Knudsen, et al
2012; 35 (9): 1247-1255
 - **Muscleblind-like 2-Mediated Alternative Splicing in the Developing Brain and Dysregulation in Myotonic Dystrophy** *NEURON*
Charizanis, K., Lee, K., Batra, R., Goodwin, M., Zhang, C., Yuan, Y., Shiue, L., Cline, M., Scotti, M. M., Xia, G., Kumar, A., Ashizawa, T., Clark, et al
2012; 75 (3): 437-450
 - **Anti-NMDA-receptor antibody detected in encephalitis, schizophrenia, and narcolepsy with psychotic features** *BMC PSYCHIATRY*
Tsutsui, K., Kanbayashi, T., Tanaka, K., Boku, S., Ito, W., Tokunaga, J., Mori, A., Hishikawa, Y., Shimizu, T., Nishino, S.
2012; 12
 - **Time-course of cerebrospinal fluid histamine in the wake-consolidated squirrel monkey** *JOURNAL OF SLEEP RESEARCH*
Zeitzer, J. M., Kodama, T., Buckmaster, C. L., Honda, Y., Lyons, D. M., Nishino, S., Mignot, E.
2012; 21 (2): 189-194
 - **Familial narcolepsy in the Lipizzaner horse: a report of three fillies born to the same sire** *VETERINARY QUARTERLY*
Ludvikova, E., Nishino, S., Sakai, N., Jahn, P.
2012; 32 (2): 99-102
 - **SUPRACHIASMATIC NUCLEUS IS ESSENTIAL FOR SLEEP-IMPROVING EFFECTS OF GLYCINE** *26th Annual Meeting of the Association-of-Professional-Sleep-Societies (APSS)*
Sakai, N., Deguzman, C., Bannai, M., Nishino, S.
AMER ACAD SLEEP MEDICINE.2012: A7-A7
 - **Using iPSC-derived neurons to uncover cellular phenotypes associated with Timothy syndrome** *NATURE MEDICINE*
Pasca, S. P., Portmann, T., Voineagu, I., Yazawa, M., Shcheglovitov, A., Pasca, A. M., Cord, B., Palmer, T. D., Chikahisa, S., Nishino, S., Bernstein, J. A., Hallmayer, J., Geschwind, et al
2011; 17 (12): 1657-U176
 - **Recent Advances in the Treatment of Narcolepsy** *CURRENT TREATMENT OPTIONS IN NEUROLOGY*
Hirai, N., Nishino, S.
2011; 13 (5): 437-457
 - **Refeeding after a 24-hour fasting deepens NREM sleep in a time-dependent manner** *PHYSIOLOGY & BEHAVIOR*
Shimizu, N., Chikahisa, S., Kitaoka, K., Nishino, S., Sei, H.
2011; 104 (3): 480-487
 - **The Pathophysiologic Basis of Secondary Narcolepsy and Hypersomnia** *CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS*

- Kanbayashi, T., Sagawa, Y., Takemura, F., Ito, S., Tsutsui, K., Hishikawa, Y., Nishino, S.
2011; 11 (2): 235-241
- **Narcolepsy and cataplexy.** *Handbook of clinical neurology*
Nishino, S., Mignot, E.
2011; 99: 783-814
 - **CHANGES IN BLOOD AMINO ACID LEVEL ASSOCIATED WITH SLEEP DEPRIVATION IN RATS** *25th Anniversary Meeting of the Associated-Professional-Sleep-Societies (APSS)*
Sakai, N., Bannai, M., Nishino, S.
AMER ACAD SLEEP MEDICINE.2011: A107–A107
 - **BRAIN RESIDENT MAST CELLS AFFECT SLEEP/WAKE PHYSIOLOGY AND PHARMACOLOGY** *25th Anniversary Meeting of the Associated-Professional-Sleep-Societies (APSS)*
Chikahisa, S., Sagawa, Y., ISHIMARU, Y., Sakai, N., Okuro, M., Nishino, S.
AMER ACAD SLEEP MEDICINE.2011: A45–A45
 - **Hypothalamus, hypocretins/orexin, and vigilance control.** *Handbook of clinical neurology*
Nishino, S.
2011; 99: 765-782
 - **Tuning arousal with optogenetic modulation of locus coeruleus neurons** *NATURE NEUROSCIENCE*
Carter, M. E., Yizhar, O., Chikahisa, S., Nguyen, H., Adamantidis, A., Nishino, S., Deisseroth, K., de Lecea, L.
2010; 13 (12): 1526-U117
 - **Clinical and Therapeutic Aspects of Childhood Narcolepsy-Cataplexy: A Retrospective Study of 51 Children** *SLEEP*
Aran, A., Einen, M., Lin, L., Plazzi, G., Nishino, S., Mignot, E.
2010; 33 (11): 1457-1464
 - **Effects of sleep on the cardiovascular and thermoregulatory systems: a possible role for hypocretins** *JOURNAL OF APPLIED PHYSIOLOGY*
Schwimmer, H., Stauss, H. M., Abboud, F., Nishino, S., Mignot, E., Zeitzer, J. M.
2010; 109 (4): 1053-1063
 - **Effects of Paraxanthine and Caffeine on Sleep, Locomotor Activity, and Body Temperature in Orexin/Ataxin-3 Transgenic Narcoleptic Mice** *SLEEP*
Okuro, M., Fujiki, N., Kotorii, N., Ishimaru, Y., Sokoloff, P., Nishino, S.
2010; 33 (7): 930-942
 - **Loss of polyubiquitin gene Ubb leads to metabolic and sleep abnormalities in mice** *NEUROPATHOLOGY AND APPLIED NEUROBIOLOGY*
Ryu, K., Fujiki, N., Kazantzis, M., Garza, J. C., Bouley, D. M., Stahl, A., Lu, X., Nishino, S., Kopito, R. R.
2010; 36 (4): 285-299
 - **Hypocretin Ligand Deficiency in Narcolepsy: Recent Basic and Clinical Insights** *CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS*
Ritchie, C., Okuro, M., Kanbayashi, T., Nishino, S.
2010; 10 (3): 180-189
 - **Emerging treatments for narcolepsy and its related disorders** *EXPERT OPINION ON EMERGING DRUGS*
Nishino, S., Okuro, M.
2010; 15 (1): 139-158
 - **Hypocretin/orexin and narcolepsy: new basic and clinical insights** *ACTA PHYSIOLOGICA*
Nishino, S., Okuro, M., Kotorii, N., Anegawa, E., ISHIMARU, Y., Matsumura, M., Kanbayashi, T.
2010; 198 (3): 209-222
 - **THE NEUROCHEMISTRY OF AWAKENING: FINDINGS FROM SLEEP DISORDER NARCOLEPSY** *SCIENCE OF AWAKENING*
Nishino, S., Sagawa, Y.
2010; 93: 229-255
 - **WAKE PROMOTING EFFECTS OF SELECTIVE ADENOSINE RECEPTOR ANTAGONISTS IN OREXIN/ATAXIN-3 NARCOLEPTIC MICE**
Song, Y., Soya, A., Okuro, M., Nishino, S.
AMER ACAD SLEEP MEDICINE.2010: A54–A54

- **Symptomatic Narcolepsy in Patients With Neuromyelitis Optica and Multiple Sclerosis New Neurochemical and Immunological Implications** *ARCHIVES OF NEUROLOGY*
Kanbayashi, T., Shimohata, T., Nakashima, I., Yaguchi, H., Yabe, I., Nishizawa, M., Shimizu, T., Nishino, S.
2009; 66 (12): 1563-1566
- **Amyloid-beta Dynamics Are Regulated by Orexin and the Sleep-Wake Cycle** *SCIENCE*
Kang, J., Lim, M. M., Bateman, R. J., Lee, J. J., Smyth, L. P., Cirrito, J. R., Fujiki, N., Nishino, S., Holtzman, D. M.
2009; 326 (5955): 1005-1007
- **Rebound Hypersomnolence, Stimulant Abuse, and DAT-Mediated Dopamine Release** *SLEEP*
Nishino, S.
2009; 32 (11): 1407-1409
- **Orexin Neurons Are Necessary for the Circadian Control of REM Sleep** *SLEEP*
Kantor, S., Mochizuki, T., Janisiewicz, A. M., Clark, E., Nishino, S., Scammell, T. E.
2009; 32 (9): 1127-1134
- **The Transcriptional Repressor DEC2 Regulates Sleep Length in Mammals** *SCIENCE*
He, Y., Jones, C. R., Fujiki, N., Xu, Y., Guo, B., Holder, J. L., Rossner, M. J., Nishino, S., Fu, Y.
2009; 325 (5942): 866-870
- **Specificity of direct transition from wake to REM sleep in orexin/ataxin-3 transgenic narcoleptic mice** *EXPERIMENTAL NEUROLOGY*
Fujiki, N., Cheng, T., Yoshino, F., Nishino, S.
2009; 217 (1): 46-54
- **Decreased CSF Histamine in Narcolepsy With and Without Low CSF Hypocretin-1 in Comparison to Healthy Controls** *SLEEP*
Nishino, S., Sakurai, E., Nevsimalova, S., Yoshida, Y., Watanabe, T., Yanai, K., Mignot, E.
2009; 32 (2): 175-180
- **CSF Histamine Contents in Narcolepsy, Idiopathic Hypersomnia and Obstructive Sleep Apnea Syndrome** *SLEEP*
Kanbayashi, T., Kodama, T., Kondo, H., Satoh, S., Inoue, Y., Chiba, S., Shimizu, T., Nishino, S.
2009; 32 (2): 181-187
- **FUNCTIONAL ROLE OF BRAIN MAST CELL-DERIVED HISTAMINE OF MICE IN SLEEP-WAKE REGULATION** *23rd Annual Meeting of the Associated-Professional-Sleep-Societies (APSS)*
Soya, A., Song, Y., Okuro, M., Kotorii, N., Fujiki, N., Nishino, S.
AMER ACAD SLEEP MEDICINE.2009: A6-A7
- **[The US Government's effort in decreasing the cost of sleep-related problems and its outcome].** *Journal of UOEH*
Song, Y. H., Nishino, S.
2008; 30 (3): 329-352
- **Hypocretin receptor expression in canine and murine narcolepsy models and in hypocretin-ligand deficient human narcolepsy** *SLEEP*
Mishima, K., Fujiki, N., Yoshida, Y., Sakurai, T., Honda, M., Mignot, E., Nishino, S.
2008; 31 (8): 1119-1126
- **Armodafinil for excessive daytime sleepiness** *DRUGS OF TODAY*
Nishino, S., Okuro, M.
2008; 44 (6): 395-414
- **Sleep and EEG features in genetic models of Down syndrome** *NEUROBIOLOGY OF DISEASE*
Colas, D., Valletta, J. S., Takimoto-Kimura, R., Nishino, S., Fujiki, N., Mobley, W. C., Mignot, E.
2008; 30 (1): 1-7
- **CSF histamine levels in rats reflect the central histamine neurotransmission** *NEUROSCIENCE LETTERS*
Soya, A., Song, Y. H., Kodama, T., Honda, Y., Fujiki, N., Nishino, S.
2008; 430 (3): 224-229
- **CSF orexin-A/hypocretin-1 concentrations in patients with intracerebral hemorrhage (ICH)** *REGULATORY PEPTIDES*
Dohi, K., Ripley, B., Fujiki, N., Ohtaki, H., Yamamoto, T., Goto, Y., Nakamachi, T., Shioda, S., Aruga, T., Nishino, S.

2008; 145 (1-3): 60-64

- **CSF histamine levels in narcolepsy, idiopathic hypersomnia and obstructive sleep APNEA syndrome** *22nd Annual Meeting of the Associated-Professional-Sleep-Societies*
Kanbayashi, T., Kodama, T., Kondo, H., Satoh, S., Inoue, Y., Chiba, S., Iijima, S., Hishikawa, Y., Shimizu, T., Nishino, S.
AMER ACAD SLEEP MEDICINE.2008: A215-A215
- **The hypocretin/orexin receptor: therapeutic prospective in sleep disorders** *EXPERT OPINION ON INVESTIGATIONAL DRUGS*
Nishino, S.
2007; 16 (11): 1785-1797
- **Acute effects of zolpidem on daytime alertness, psychomotor and physical performance** *NEUROSCIENCE RESEARCH*
Ito, S., Kanbayashi, T., Takemura, T., Kondo, H., Inomata, S., Szilagyi, G., Shimizu, T., Nishino, S.
2007; 59 (3): 309-313
- **Review of pathophysiology and clinical management of narcolepsy in dogs** *VETERINARY RECORD*
Tonokura, M., Fujita, K., Nishino, S.
2007; 161 (11): 375-380
- **The hypothalamic peptidergic system, hypocretin/orexin and vigilance control** *NEUROPEPTIDES*
Nishino, S.
2007; 41 (3): 117-133
- **Clinical and neurobiological aspects of narcolepsy** *SLEEP MEDICINE*
Nishino, S.
2007; 8 (4): 373-399
- **Sleep/wake fragmentation disrupts metabolism in a mouse model of narcolepsy** *JOURNAL OF PHYSIOLOGY-LONDON*
Zhang, S., Zeitzer, J. M., Sakurai, T., Nishino, S., Mignot, E.
2007; 581 (2): 649-663
- **Reduced expression of TAC1, PENK and SOCS2 in Hcrtr-2 mutated narcoleptic dog brain** *BMC NEUROSCIENCE*
Lindberg, J., Saetre, P., Nishino, S., Mignot, E., Jazin, E.
2007; 8
- **Histamine H-3 receptor antagonists: From target identification to drug leads** *BIOCHEMICAL PHARMACOLOGY*
Bonaventure, P., Letavic, M., Dugovic, C., Wilson, S., Aluisio, L., Pudiak, C., Lord, B., Mazur, C., Kamme, F., Nishino, S., Carruthers, N., Lovenberg, T.
2007; 73 (8): 1084-1096
- **Neuropeptides as possible targets in sleep disorders: special emphasis on hypocretin-deficient narcolepsy.** *CNS & neurological disorders drug targets*
Fujiki, N., Nishino, S.
2007; 6 (1): 45-62
- **Neuropeptides as possible targets in sleep disorders** *EXPERT OPINION ON THERAPEUTIC TARGETS*
Nishino, S., Fujiki, N.
2007; 11 (1): 37-59
- **Cerebrospinal fluid histamine levels in rats across 24 hours and after various behavioral and pharmacological manipulations** *21st Annual Meeting of the American-Professional-Sleep-Societies*
Soya, A., Song, Y., Kodama, T., Honda, Y., Fujiki, N., Nishino, S.
AMER ACAD SLEEP MEDICINE.2007: A60-A60
- **Narcolepsy: Pathophysiology and pharmacology** *JOURNAL OF CLINICAL PSYCHIATRY*
Nishino, S.
2007; 68: 9-15
- **Addiction and arousal: Alternative roles of hypothalamic peptides** *JOURNAL OF NEUROSCIENCE*
de Lecea, L., Jones, B. E., Boutrel, B., Borgland, S. L., Nishino, S., Bubser, M., DiLeone, R.
2006; 26 (41): 10372-10375
- **Sex difference in body weight gain and leptin signaling in hypocretin/orexin deficient mouse models** *PEPTIDES*

- Fujiki, N., Yoshida, Y., Zhang, S., Sakurai, T., Yanagisawa, M., Nishino, S.
2006; 27 (9): 2326-2331
- **CSF versus serum leptin in narcolepsy: Is there an effect of hypocretin deficiency?** *SLEEP*
Arnulf, I., Lin, L., Zhang, J., Russell, I. J., Ripley, B., Einen, M., Nevsimalova, S., Bassetti, C., Bourgin, P., Nishino, S., Mignot, E.
2006; 29 (8): 1017-1024
 - **CSF orexin A concentrations and expressions of the orexin-1 receptor in rat hippocampus after cardiac arrest** *NEUROPEPTIDES*
Dohi, K., Nishino, S., Nakamachi, T., Ohtaki, H., Morikawa, K., Takeda, T., Shioda, S., Aruga, T.
2006; 40 (4): 245-250
 - **The neurobiology of hypocretins (orexins), narcolepsy and related therapeutic interventions** *TRENDS IN PHARMACOLOGICAL SCIENCES*
Zeitler, J. M., Nishino, S., Mignot, E.
2006; 27 (7): 368-374
 - **Expression pattern of FOS in orexin neurons during sleep induced by an adenosine A(2A) receptor agonist** *BEHAVIOURAL BRAIN RESEARCH*
Satoh, S., Matsumura, H., Kanbayashi, T., Yoshida, Y., Urakami, T., Nakajima, T., Kimura, N., Nishino, S., Yoneda, H.
2006; 170 (2): 277-286
 - **An activation of parvocellular oxytocinergic neurons in the paraventricular nucleus in oxytocin-induced yawning and penile erection** *NEUROSCIENCE RESEARCH*
Kita, I., Yoshida, Y., Nishino, S.
2006; 54 (4): 269-275
 - **Diurnal variation in CSF Orexin-A in healthy male subjects** *SLEEP*
Grady, S. P., Nishino, S., Czeisler, C. A., Hepner, D., Scammell, T. E.
2006; 29 (3): 295-297
 - **Conditions of primary excessive daytime sleepiness** *NEUROLOGIC CLINICS*
Black, J. E., Brooks, S. N., Nishino, S.
2005; 23 (4): 1025-?
 - **[An old and new focal symptom, hypothalamus and hypersomnia, orexin system and narcolepsy].** *Rinsho shinkeigaku = Clinical neurology*
Kanbayashi, T., Kondo, H., Shimizu, T., Nishino, S.
2005; 45 (11): 824-827
 - **Enhanced antinociception by intracerebroventricularly administered orexin A in histamine H1 or H2 receptor gene knockout mice** *PAIN*
Mobarakeh, J. I., Takahashi, K., Sakurada, S., Nishino, S., Watanabe, H., Kato, M., Naghdi, N., Yanai, K.
2005; 118 (1-2): 254-262
 - **CSF hypocretin-1/orexin-A concentrations in patients with subarachnoid hemorrhage (SAH)** *PEPTIDES*
Dohi, K., Ripley, B., Fujiki, N., Ohtaki, H., Shioda, S., Aruga, T., Nishino, S.
2005; 26 (11): 2339-2343
 - **Hypersomnolence and increased REM sleep with low cerebrospinal fluid hypocretin level in a patient after removal of craniopharyngioma** *SLEEP MEDICINE*
Tachibana, N., Taniike, M., Okinaga, T., Ripley, B., Mignot, E., Nishino, S.
2005; 6 (6): 567-569
 - **Symptomatic narcolepsy, cataplexy and hypersomnia, and their implications in the hypothalamic hypocretin/orexin system** *SLEEP MEDICINE REVIEWS*
Nishino, S., Kanbayashi, T.
2005; 9 (4): 269-310
 - **Polymorphisms within the canine MLP gene are associated with dilute coat color in dogs** *BMC GENETICS*
Philipp, U., Hamann, H., Mecklenburg, L., Nishino, S., Mignot, E., Gunzel-Apel, A. R., Schmutz, S. M., Leeb, T.
2005; 6
 - **Emerging therapies in narcolepsy-cataplexy** *SLEEP*
Mignot, E., Nishino, S.
2005; 28 (6): 754-763

- **Enhanced antinociception by intracerebroventricularly and intrathecally-administered orexin A and B (hypocretin-1 and-2) in mice** *PEPTIDES*
Mobarakeh, J. I., Takahashi, K., Sakurada, S., Nishino, S., Watanabe, H., Kato, M., Yanai, K.
2005; 26 (5): 767-777
- **Hypocretin deficiency in Prader-Willi syndrome** *EUROPEAN JOURNAL OF NEUROLOGY*
Nevsimalova, S., Vankova, J., Stepanova, I., Seemanova, E., Mignot, E., Nishino, S.
2005; 12 (1): 70-72
- **The anticataplectic effect of milnacipran, a new serotonin noradrenaline reuptake inhibitor, on human and canine narcolepsy** *19th Annual Meeting of the Associated-Professional-Sleep-Societies*
Kaneko, Y., Inoue, Y., Fujiki, N., Kondo, H., Aizawa, R., Iijima, S., Kanbayashi, T., Inaniwa, C., Nishino, S., Shimizu, T.
AMER ACAD SLEEP MEDICINE.2005: A215-A216
- **Hypersomnia and low cerebrospinal fluid hypocretin levels in acute disseminated encephalomyelitis** *PEDIATRIC NEUROLOGY*
Yoshikawa, S., Suzuki, S., Kanbayashi, T., Nishino, S., Tamai, H.
2004; 31 (5): 367-370
- **Narcolepsy and syndromes of primary excessive daytime somnolence** *SEMINARS IN NEUROLOGY*
Black, J. E., Brooks, S. N., Nishino, S.
2004; 24 (3): 271-282
- **The diurnal rhythm of hypocretin in young and old F344 rats** *SLEEP*
Desarnaud, F., Murillo-Rodriguez, E., Lin, L., Xu, M., Gerashchenko, D., Shiromani, S. N., Nishino, S., Mignot, E., Shiromani, P. J.
2004; 27 (5): 851-856
- **Mistaken diagnosis of psychogenic gait disorder in a man with status cataplecticus ("limp man syndrome")** *MOVEMENT DISORDERS*
Simon, D. K., Nishino, S., Scammell, T. E.
2004; 19 (7): 838-840
- **Lesions of the suprachiasmatic nucleus eliminate the daily rhythm of hypocretin-1 release** *SLEEP*
Zhang, S. W., Zeitzer, J. M., Yoshida, Y., Wisor, J. P., Nishino, S., Edgar, D. M., Mignot, E.
2004; 27 (4): 619-627
- **The roles of midbrain and diencephalic dopamine cell groups in the regulation of cataplexy in narcoleptic Dobermans** *NEUROBIOLOGY OF DISEASE*
Okura, M., Fujiki, N., Kita, L., Honda, K., Yoshida, Y., Mignot, E., Nishino, S.
2004; 16 (1): 274-282
- **FOS expression in orexin neurons following muscimol perfusion of preoptic area** *NEUROREPORT*
Satoh, S., Matsuura, H., Fujioka, A., Nakajima, T., Kanbayashi, T., Nishino, S., Shigeyoshi, Y., Yoneda, H.
2004; 15 (7): 1127-1131
- **Narcolepsy caused by acute disseminated encephalomyelitis** *ARCHIVES OF NEUROLOGY*
Gledhill, R. F., Bartel, P. R., Yoshida, Y., Nishino, S., Scammell, T. E.
2004; 61 (5): 758-760
- **Hypocretin-1 CSF levels in anti-Ma2 associated encephalitis** *NEUROLOGY*
Overeem, S., Dalmau, J., Bataller, L., Nishino, S., Mignot, E., Verschuuren, J., Lammers, G. J.
2004; 62 (1): 138-140
- **Increased hypocretin-1 levels in cerebrospinal fluid after REM sleep deprivation** *BRAIN RESEARCH*
Pedrazzoli, M., D'Almeida, V., Martins, P. J., Machado, R. B., Ling, L., Nishino, S., Tufik, S., Mignot, E.
2004; 995 (1): 1-6
- **CSF histamine and noradrenaline contents in narcolepsy and other sleep disorders** *18th Annual Meeting of the Associated-Professional-Sleep-Societies*
Kanbayashi, T., Kodama, T., Kondo, H., Satoh, S., Miyazaki, N., Kuroda, K., Abe, M., Nishino, S., Inoue, Y., Shimizu, T.
AMER ACAD SLEEP MEDICINE.2004: 236-236
- **Diurnal variations of CSF hypocretin (HCRT) and changes in gene expression as detected by microarrays in young and old rats** *18th Annual Meeting of the Associated-Professional-Sleep-Societies*
Desarnaud, F., Murillo-Rodriguez, E., Xu, M., Gerashchenko, D., Lu, J., Shiromani, S. N., Lin, L., Nishino, S., Mignot, E., Shiromani, P.

AMER ACAD SLEEP MEDICINE.2004: 382-382

- **Effects of IV and ICV hypocretin-1 (Orexin A) in hypocretin receptor-2 gene mutated narcoleptic dogs and IV hypocretin-1 replacement therapy in a hypocretin-ligand-deficient narcoleptic dog** *SLEEP*
Fujiki, N., Yoshida, Y., Ripley, B., Mignot, E., Nishino, S.
2003; 26 (8): 953-959
- **Relationship between CSF hypocretin levels and hypocretin neuronal loss** *EXPERIMENTAL NEUROLOGY*
Gerashchenko, D., Munillo-Rodriguez, E., Lin, L., Xu, M., Hallett, L., Nishino, S., Mignot, E., Shiromani, P. J.
2003; 184 (2): 1010-1016
- **CSF hypocretin levels in Guillain-Barre syndrome and other inflammatory neuropathies** *NEUROLOGY*
Nishino, S., Kanbayashi, T., Fujiki, N., Uchino, M., Ripley, B., Watanabe, M., Lammers, G. J., Ishiguro, H., Shoji, S., Nishida, Y., Overeem, S., Toyoshima, I., Yoshida, et al
2003; 61 (6): 823-825
- **Differential kinetics of hypocretins in the cerebrospinal fluid after intracerebroventricular administration in rats** *NEUROSCIENCE LETTERS*
Yoshida, Y., Fujiki, N., Maki, R. A., Schwarz, D., Nishino, S.
2003; 346 (3): 182-186
- **The hypocretin/orexin system in health and disease** *BIOLOGICAL PSYCHIATRY*
Nishino, S.
2003; 54 (2): 87-95
- **Diurnal variation of cerebrospinal fluid hypocretin-1 (orexin-A) levels in control and depressed subjects** *16th Annual Meeting of the Associated-Professional-Sleep-Societies*
Salomon, R. M., Ripley, B., Kennedy, J. S., Johnson, B., Schmidt, D., Zeitzer, J. M., Nishino, S., Mignot, E.
ELSEVIER SCIENCE INC.2003: 96-104
- **Narcolepsy in a hypocretin/orexin-deficient chihuahua** *VETERINARY RECORD*
Tonokura, M., Fujita, K., Morozumi, M., Yoshida, Y., Kanbayashi, T., Nishino, S.
2003; 152 (25): 776-779
- **Sleep disturbances and hypocretin deficiency in Niemann-Pick disease type C** *SLEEP*
Vankova, J., Stepanova, I., Jech, R., Elleder, M., Ling, L., Mignot, E., Nishino, S., Nevsimalova, S.
2003; 26 (4): 427-430
- **Inhibition of rostral basal forebrain neurons promotes wakefulness and induces FOS in orexin neurons** *EUROPEAN JOURNAL OF NEUROSCIENCE*
Satoh, S., Matsumura, H., Nakajima, T., Nakahama, K., Kanbayashi, T., Nishino, S., Yoneda, H., Shigeyoshi, Y.
2003; 17 (8): 1635-1645
- **The narcoleptic borderland: a multimodal diagnostic approach including cerebrospinal fluid levels of hypocretin-1 (orexin A)** *SLEEP MEDICINE*
Bassetti, C., Gugger, M., Bischof, M., Mathis, J., Sturzenegger, C., Werth, E., Radanov, B., Ripley, B., Nishino, S., Mignot, E.
2003; 4 (1): 7-12
- **Measurement of hypocretin/orexin content in the mouse brain using an enzyme immunoassay: the effect of circadian time, age and genetic background** *PEPTIDES*
Lin, L., Wisor, J., Shiba, T., Taheri, S., Yanai, K., Wurts, S., Lin, X., Vitaterna, M., Takahashi, J., Lovenberg, T. W., Koehl, M., Uhl, G., Nishino, et al
2002; 23 (12): 2203-2211
- **Transient total sleep loss in cerebral Whipple's disease: a longitudinal study** *JOURNAL OF SLEEP RESEARCH*
Voderholzer, U., Riemann, D., Gann, H., Hornyak, M., Juengling, F., Schumacher, M., Reincke, M., Von Herbay, A., Nishino, S., Mignot, E., Berger, M., Lieb, K.
2002; 11 (4): 321-329
- **Sleeping with the hypothalamus: emerging therapeutic targets for sleep disorders** *NATURE NEUROSCIENCE*
Mignot, E., Taheri, S., Nishino, S.
2002; 5: 1071-1075
- **The role of cerebrospinal fluid hypocretin measurement in the diagnosis of narcolepsy and other hypersomnias** *ARCHIVES OF NEUROLOGY*
Mignot, E., Lammers, G. J., Ripley, B., Okun, M., Nevsimalova, S., Overeem, S., Vankova, J., Black, J., Harsh, J., Bassetti, C., Schrader, H., Nishino, S.
2002; 59 (10): 1553-1562

- **Increased CSF hypocretin-1 (orexin-A) in restless legs syndrome** *NEUROLOGY*
Allen, R. P., Mignot, E., Ripley, B., Nishino, S., Earley, C. J.
2002; 59 (4): 639-641
- **Article reviewed: Plasma orexin-A is lower in patients with narcolepsy.** *Sleep medicine*
Nishino, S., Mignot, E.
2002; 3 (4): 377-378
- **HLA and hypocretin studies in Korean patients with narcolepsy** *SLEEP*
Hong, S. C., Leen-Kim, Park, S. A., Han, J. H., Lee, S. P., Lin, L., Okun, M., Nishino, S., Mignot, E.
2002; 25 (4): 440-444
- **Hypocretin stimulates [(35)]GTP gamma S binding in Hcrtr 2-transfected cell lines and in brain homogenate** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
Shiba, T., Ozu, M., Yoshida, Y., Mignot, E., Nishino, S.
2002; 294 (3): 615-620
- **Analysis of onset location, laterality and propagation of cataplexy in canine narcolepsy** *26th Annual Meeting of the Japanese-Society-of-Sleep-Research*
Fujiki, N., Morris, L., Mignot, E., Nishino, S.
WILEY-BLACKWELL.2002: 275-76
- **Hypocretin-1 (orexin-A) concentrations in cerebrospinal fluid are low in patients with Guillain-Barre syndrome** *26th Annual Meeting of the Japanese-Society-of-Sleep-Research*
Kanbayashi, T., Ishiguro, H., Aizawa, R., Saito, Y., Ogawa, Y., Abe, M., Hirota, K., Nishino, S., Shimizu, T.
WILEY-BLACKWELL.2002: 273-74
- **CSF hypocretin-1 levels in schizophrenics and controls: relationship to sleep architecture** *PSYCHIATRY RESEARCH*
Nishino, S., Ripley, B., Mignot, E., Benson, K. L., Zarcone, V. P.
2002; 110 (1): 1-7
- **Hypocretin-1 (Orexin-A) levels in human lumbar CSF in different age groups: Infants to elderly persons** *SLEEP*
Kanbayashi, T., Yano, T., Ishiguro, H., Kawanishi, K., Chiba, S., Aizawa, R., Sawaishi, Y., Hirota, K., Nishino, S., Shimizu, T.
2002; 25 (3): 337-339
- **Diurnal variation of CSF hypocretin-1 (orexin A) levels in control and depressed subjects**
Salomon, R. M., Ripley, B., Kennedy, J. S., Schmidt, D., Zeitzer, J., Nishino, S., Mignot, E.
AMER ACAD SLEEP MEDICINE.2002: A12-A13
- **CSF hypocretin-1 (orexin-A) levels in narcolepsy without cataplexy and idiopathic hypersomnia.**
Kanbayashi, T., Inoue, Y., Chiba, S., Aizawa, R., Saito, Y., Tsukamoto, H., Fujii, Y., Kubota, H., Nishino, S., Shimizu, T.
AMER ACAD SLEEP MEDICINE.2002: A356-A356
- **CSF hypocretin-1 (orexin-A) concentrations in narcolepsy with and without cataplexy and idiopathic hypersomnia** *JOURNAL OF SLEEP RESEARCH*
Kanbayashi, T., Inoue, Y., Chiba, S., Aizawa, R., Saito, Y., Tsukamoto, H., Fujii, Y., Nishino, S., Shimizu, T.
2002; 11 (1): 91-93
- **CSF hypocretin/orexin levels in narcolepsy and other neurological conditions** *NEUROLOGY*
Ripley, B., Overeem, S., Fujiki, N., Nevsimalova, S., Uchino, M., Yesavage, J., Di Monte, D., DOHI, K., Melberg, A., Lammers, G. J., Nishida, Y., Roelandse, F. W., Hungs, et al
2001; 57 (12): 2253-2258
- **Decreased brain histamine content in hypocretin/orexin receptor-2 mutated narcoleptics dogs** *NEUROSCIENCE LETTERS*
Nishino, S., Fujiki, N., Ripley, B., SAKURAI, E., Kato, M., Watanabe, T., Mignot, E., Yanai, K.
2001; 313 (3): 125-128
- **Fluctuation of extracellular hypocretin-1 (orexin A) levels in the rat in relation to the light-dark cycle and sleep-wake activities** *EUROPEAN JOURNAL OF NEUROSCIENCE*
Yoshida, Y., Fujiki, N., Nakajima, T., Ripley, B., Matsumura, H., Yoneda, H., Mignot, E., Nishino, S.
2001; 14 (7): 1075-1081

- **Low cerebrospinal fluid hypocretin (orexin) and altered energy homeostasis in human narcolepsy** *ANNALS OF NEUROLOGY*
Nishino, S., Ripley, B., Overeem, S., Nevsimalova, S., Lammers, G. J., Vankova, J., Okun, M., Rogers, W., Brooks, S., Mignot, E.
2001; 50 (3): 381-388
- **Low cerebrospinal fluid hypocretin levels found in familial narcolepsy** *SLEEP MEDICINE*
Hartwig, G., Harsh, J., Ripley, B., Nishino, S., Mignot, E.
2001; 2 (5): 451-453
- **Low cerebrospinal fluid hypocretin levels found in familial narcolepsy.** *Sleep medicine*
Hartwig, G., Harsh, J., Ripley, B., Nishino, S., Mignot, E.
2001; 2 (5): 451-453
- **A hypersomnolent girl with decreased CSF hypocretin level after removal of a hypothalamic tumor** *NEUROLOGY*
Arii, J., Kanbayashi, T., Tanabe, Y., ONO, J., Nishino, S., Kohno, Y.
2001; 56 (12): 1775-1776
- **Narcolepsy and low CSF orexin (hypocretin) concentration after a diencephalic stroke** *NEUROLOGY*
Scammell, T. E., Nishino, S., Mignot, E., SAPER, C. B.
2001; 56 (12): 1751-1753
- **Narcoleptic canines display periodic leg movements during sleep** *25th Annual Meeting of the Japanese-Society-of-Sleep-Research (JSSR)*
Okura, M., Fujiki, N., Ripley, B., Takahashi, S., Amitai, N., Mignot, E., Nishino, S.
WILEY-BLACKWELL.2001: 243-44
- **Hypocretin levels in sporadic and familial cases of canine narcolepsy** *NEUROBIOLOGY OF DISEASE*
Ripley, B., Fujiki, N., Okura, M., Mignot, E., Nishino, S.
2001; 8 (3): 525-534
- **Changes in CSF hypocretin-1 (orexin A) levels in rats across 24 hours and in response to food deprivation** *NEUROREPORT*
Fujiki, N., Yoshida, Y., Ripley, B., Honda, K., Mignot, E., Nishino, S.
2001; 12 (5): 993-997
- **Diagnostic value of low CSF hypocretin/orexin levels in human narcolepsy**
Nishino, S., Ripley, B., Overeem, S., Nevsimalova, S., Lammers, G. J., Vankova, J., Okun, M., Rogers, W., Brooks, S., Mignot, E.
AMER ACAD SLEEP MEDICINE.2001: A95-A96
- **Dopaminergic role in stimulant-induced wakefulness** *JOURNAL OF NEUROSCIENCE*
Wisor, J. P., Nishino, S., Sora, I., Uhl, G. H., Mignot, E., Edgar, D. M.
2001; 21 (5): 1787-1794
- **The role of histamine in a hypocretin (orexin)-deficient sleep disorder, narcolepsy** *5th International Histamine Symposium*
Nishino, S., Honda, K., Fujiki, N., Wurts, S. W., SAKURAI, E., Kato, M., Watanabe, T., Mignot, E., Yanai, K.
ELSEVIER SCIENCE BV.2001: 247-251
- **Hypocretin deficiency in familial symptomatic narcolepsy** *ANNALS OF NEUROLOGY*
Melberg, A., Ripley, B., Lin, L., Hetta, J., Mignot, E., Nishino, S.
2001; 49 (1): 136-137
- **Is narcolepsy a REM sleep disorder? Analysis of sleep abnormalities in narcoleptic Dobermans** *NEUROSCIENCE RESEARCH*
Nishino, S., Riehl, J., Hong, J., Kwan, M., REID, M., Mignot, E.
2000; 38 (4): 437-446
- **Sulpiride, a D2/D3 blocker, reduces cataplexy but not REM sleep in canine narcolepsy** *NEUROPSYCHOPHARMACOLOGY*
Okura, M., Riehl, J., Mignot, E., Nishino, S.
2000; 23 (5): 528-538
- **A mutation in a case of early onset narcolepsy and a generalized absence of hypocretin peptides in human narcoleptic brains** *NATURE MEDICINE*
Peyron, C., Faraco, J., Rogers, W., Ripley, B., Overeem, S., Charnay, Y., Nevsimalova, S., Aldrich, M., Reynolds, D., Albin, R., Li, R., Hungs, M., Pedrazzoli, et al
2000; 6 (9): 991-997

- **Chronic oral administration of CG-3703, a thyrotropin releasing hormone analog, increases wake and decreases cataplexy in canine narcolepsy** *NEUROPSYCHOPHARMACOLOGY*
Riehl, J., Honda, K., Kwan, M., Hong, J., Mignot, E., Nishino, S.
2000; 23 (1): 34-45
- **Narcolepsy: genetic predisposition and neuropharmacological mechanisms. REVIEW ARTICLE.** *Sleep medicine reviews*
Nishino, S., Okura, M., Mignot, E.
2000; 4 (1): 57-99
- **Inheritance of von Willebrand's disease in a colony of Doberman Pinschers** *AMERICAN JOURNAL OF VETERINARY RESEARCH*
Riehl, J., Okura, M., Mignot, E., Nishino, S.
2000; 61 (2): 115-120
- **Narcolepsy: genetic predisposition and neuropharmacological mechanisms** *SLEEP MEDICINE REVIEWS*
Nishino, S., Okura, M., Mignot, E.
2000; 4 (1): 57-99
- **Hypocretin (orexin) deficiency in human narcolepsy** *LANCET*
Nishino, S., Ripley, B., Overeem, S., Lammers, G. J., Mignot, E.
2000; 355 (9197): 39-40
- **Implication of dopaminergic mechanisms in the wake-promoting effects of amphetamine: A study of D- and L-derivatives in canine narcolepsy** *NEUROSCIENCE*
Kanbayashi, T., Honda, K., Kodama, T., Mignot, E., Nishino, S.
2000; 99 (4): 651-659
- **Dopamine D3 agonists into the substantia nigra aggravate cataplexy but do not modify sleep (vol 10, pg 3111, 1999)** *NEUROREPORT*
Honda, K., Riehl, J., Mignot, E., Nishino, S.
1999; 10 (17): 3717-3724
- **Drug treatment of patients with insomnia and excessive daytime sleepiness - Pharmacokinetic considerations** *CLINICAL PHARMACOKINETICS*
Nishino, S., Mignot, E.
1999; 37 (4): 305-330
- **Dopamine D-3 agonists into the substratia nigra aggravates cataplexy but does not modify sleep** *NEUROREPORT*
Honda, K., Riehl, J., Mignot, E., Nishino, S.
1999; 10 (14): 3111-3118
- **The sleep disorder canine narcolepsy is caused by a mutation in the hypocretin (orexin) receptor 2 gene** *CELL*
Lin, L., Faraco, J., Li, R., KADOTANI, H., Rogers, W., Lin, X. Y., Qiu, X. H., de Jong, P. J., Nishino, S., Mignot, E.
1999; 98 (3): 365-376
- **Neuronal activity in the cholinceptive basal forebrain of freely moving narcoleptic dobermans** *NEUROREPORT*
Nishino, S., Honda, K., Riehl, J., Okura, M., Mignot, E.
1998; 9 (16): 3653-3661
- **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
- **Cerebrospinal fluid prostaglandins and corticotropin releasing factor in schizophrenics and controls: relationship to sleep architecture** *PSYCHIATRY RESEARCH*
Nishino, S., Mignot, E., Benson, K. L., Zarcone, V. P.
1998; 78 (3): 141-150
- **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
- **Increased dopaminergic transmission mediates the wake-promoting effects of CNS stimulants.** *Sleep research online : SRO*
Nishino, S., Mao, J., Sampathkumaran, R., Shelton, J.
1998; 1 (1): 49-61
 - **Central administration of vitamin B-12 aggravates cataplexy in canine narcolepsy** *NEUROREPORT*
Honda, K., Riehl, J., Inoue, S., Mignot, E., Nishino, S.
1997; 8 (18): 3861-3865
 - **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
 - **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
 - **Pharmacological aspects of human and canine narcolepsy** *PROGRESS IN NEUROBIOLOGY*
Nishino, S., Mignot, E.
1997; 52 (1): 27-78
 - **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
 - **Local administration of dopaminergic drugs into the ventral tegmental area modulates cataplexy in the narcoleptic canine** *BRAIN RESEARCH*
Reid, M. S., Tafti, M., Nishino, S., Sampathkumaran, R., Siegel, J. M., Mignot, E.
1996; 733 (1): 83-100
 - **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
 - **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
 - **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
 - **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

- **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 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
- **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
- **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
- **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
- **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
- **SERUM PROLACTIN RESPONSE TO A D2 ANTAGONIST IN NARCOLEPTIC AND CONTROL CANINES** *SLEEP*
Nishino, S., Arrigoni, J., Sharp, L. H., Shelton, J. D., Dement, W. C., Mignot, E.
1992; 15 (5): 474-475
- **STRATEGIES FOR THE DEVELOPMENT OF NEW TREATMENTS IN SLEEP DISORDER MEDICINE** *WORKSHOP ON TARGET RECEPTORS FOR ANXIOLYTICS AND HYPNOTICS : FROM MOLECULAR PHARMACOLOGY TO THERAPEUTICS*
Mignot, E., Edgar, D. M., Miller, J. D., Prosser, R. A., VANGELDER, R. N., Nishino, S., Dement, W. C.
KARGER.1992: 129-150
- **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
- **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
- **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
- **PROSTAGLANDIN-E2 LEVELS IN CEREBROSPINAL-FLUID OF NORMAL AND NARCOLEPTIC DOGS** *BIOLOGICAL PSYCHIATRY*
Nishino, S., Mignot, E., Kilduff, T. S., Sakai, T., Hayaishi, O., Dement, W. C.

1990; 28 (10): 904-910

- **EFFECTS OF CENTRAL ALPHA-2 ADRENERGIC COMPOUNDS ON CANINE NARCOLEPSY, A DISORDER OF RAPID EYE-MOVEMENT SLEEP** *JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS*
Nishino, S., Haak, L., Shepherd, H., Guilleminault, C., Sakai, T., Dement, W. C., Mignot, E.
1990; 253 (3): 1145-1152
- **NORADRENERGIC AND CHOLINERGIC CONTROL OF CATAPLEXY - PHARMACOLOGICAL EVIDENCE** *2ND INTERNATIONAL SYMPOSIUM ON ENDOGENOUS SLEEP FACTORS*
Mignot, E., Nishino, S., Guilleminault, C., Dement, W. C.
S P B ACADEMIC PUBL.1990: 203-215
- **EFFECTS OF INTRAVENOUS ADMINISTRATION OF PROSTAGLANDINS ON CANINE NARCOLEPSY** *2ND INTERNATIONAL SYMPOSIUM ON ENDOGENOUS SLEEP FACTORS*
Nishino, S., Mignot, E., Fruhstorfer, B., Kilduff, T. S., Ueno, R., Hayaishi, O., Dement, W. C.
S P B ACADEMIC PUBL.1990: 77-83
- **CANINE NARCOLEPSY IS ASSOCIATED WITH AN ELEVATED NUMBER OF ALPHA-2-RECEPTORS IN THE LOCUS COERULEUS** *BRAIN RESEARCH*
Fruhstorfer, B., Mignot, E., Bowersox, S., Nishino, S., Dement, W. C., Guilleminault, C.
1989; 500 (1-2): 209-214
- **CENTRAL ALPHA-1 ADRENOCEPTOR SUBTYPES IN NARCOLEPSY-CATAPLEXY - A DISORDER OF REM-SLEEP** *BRAIN RESEARCH*
Mignot, E., Guilleminault, C., Bowersox, S., FRUSTHOFER, B., Nishino, S., Maddaluno, J., CIARANELLO, R., Dement, W. C.
1989; 490 (1): 186-191
- **PROSTAGLANDIN-E2 AND ITS METHYL-ESTER REDUCE CATAPLEXY IN CANINE NARCOLEPSY** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Nishino, S., Mignot, E., Fruhstorfer, B., Dement, W. C., Hayaishi, O.
1989; 86 (7): 2483-2487