Lily Yan

Department of Psychology & Neuroscience Program
Interdisciplinary Science and Technology Building 4014
Michigan State University
East Lansing, MI 48824

Phone: 517.432.8189
Fax: 517.432.2744
Email: yanl@msu.edu
http://yanlab.psy.msu.edu

Education

Kobe University School of Medicine, Kobe, Japan — M.D./Ph.D., 2000

China Medical University, Shenyang, China — Bachelor of Medicine, 1993

Professional Experience

Aug/2022 – present
Professor, Michigan State University, Department of Psychology & Neuroscience Program

Aug/2015 – July/2022:
Associate Professor (Tenured), Michigan State University, Department of Psychology & Neuroscience Program

Aug/2011 – July/2015:
Assistant Professor (Tenure-track), Michigan State University, Department of Psychology & Neuroscience Program

Jan/2008 – Aug/2011:
Assistant Professor (Fixed-term), Michigan State University, Department of Psychology & Neuroscience Program

Nov/2003 - Dec/2007:
Associate Research Scientist, Columbia University, Department of Psychology.

Nov/2000 - Oct/2003:
Postdoctoral Research Scientist, Columbia University, Department of Psychology.

Oct/1995 - Oct/1996:
Visiting Researcher, Kyushu University School of Medicine, Department of Obstetrics and Gynecology, Japan.

Aug/1993 - Oct/1995:
Resident Doctor (Obstetrics and Gynecology), The Third Clinical College and Affiliated Hospital, China Medical University.

Research Support

Current support:

NIH/NINDS R21 NS125449 9/15/2021-2/29/2024
Role: co-PI with S. Iwase (U of Michigan) total costs: $443,728; MSU: $227,750
Title: Diurnal experimental models to investigate neural mechanisms of sleep disturbance in Smith-Magenis Syndrome.

NIH/NIMH R21 MH131527 1/1/2023-11/30/2024
Role: co-I, with PI B. Watson (U of Michigan) total costs: $443,728; MSU: $118,968
Title: Electrophysiologic characterization of circadian rhythms of prefrontal cortical network states in a diurnal rodent.

Completed support:

NIH/NIMH R01 MH111276 9/16/2016-7/31/2023
Role: co-PI with J.S. Lonstein (MSU) total cost: $1,902,498
Title: Neural Basis of Light-dependent Depression and Anxiety

College of Social Science Dr. Gwen Andrew Faculty Initiative Fund. 5/16/2021-5/15/2022
Role: PI total costs: $8,916
Title: Generating the first genetically tractable diurnal model for a neurodevelopmental disorder.

NIH/NINDS R21 NS098173 4/1/2017-9/30/2021
Role: PI with co-I: A.A.Nunez (MSU) total cost: $419,824
Title: Shedding light on orexinergic modulation of the hippocampus.

NIH/NINDS R21 NS098173-S1 4/1/2017-3/31/2019
Role: PI with co-I: A.A. Nunez (MSU), trainee: Joel Soler total cost: $108,199
Title: Shedding light on orexinergic modulation of the hippocampus. Administrative supplement to enhance diversity in biomedical research force.

NSF IOS1147187. Aug 2012-July 2017
Role: PI of subaward from University of Alaska total costs: $188,167
Title: Persistence, entrainment and function of circadian rhythms in arctic ground squirrels.

NSF IOS1051919. Feb 2011-Dec 2016
Role: Co-PI with A.A. Nunez, L. Smale (MSU) total costs: $600,000
Title: Chronotype differences in the acute behavioral responses to light and darkness and their neural substrates.

NIH R03MH093760. Apr 2012-Mar 2015
Role: PI total costs: $147,828
Title: Neural basis of SAD: development of a diurnal model.

College of Social Science Dr. Gwen Andrew Faculty Initiative Fund. July 2014-June 2015
Role: PI total costs: $7,270
Title: Neural basis underlying light-dependent depression and anxiety.

MSU IRGP Award, Jan 2009-June 2010
Role: PI direct costs: $40,000
Title: Neural mechanisms underlying circadian rhythm perturbation.

UC Mexus-Conacyt Collaborative Grant. July 2010-Dec 2011
Role: PI of subaward from UC Berkeley direct costs: $7,500
Title: How does feeding synchronize the circadian timing system.

MSU Provost Undergraduate Research Initiative Award.
Role: Faculty Mentor total award: $7,000
To support the following undergraduate research assistants working in lab: Ashley Tomczak (2009), Amy Campbell (2009), Greg Leach (2011) and Andrew Schmidt (2013).

MSU College of Natural Science Undergraduate Research Support Scholarship.
Role: Faculty Mentor total award: $1,000
To support the undergraduate research assistant Widya Adidharma working in my lab in 2012.

Undergraduate and Graduate Courses Taught

Brain and Behavior, PSY 209
Laboratory in Behavioral Neuroscience, PSY 413
Chronobiology and Mental Health, PSY 493
Advanced Behavioral Neuroscience, PSY 811
System and Behavioral Neuroscience I, NEU 802

***Ad hoc* reviewer for professional journals**

AJP: Regulatory, Integrative and Comparative Physiology
Behavioral Brain Research
Behavioral Neuroscience
Behavioral Processes
Brain Research
Brain Structures and Function
Chronobiology International
ChronoPhysiology and Therapy
Dove Medical Press
Neuroscience
European Journal of Neuroscience
Experimental Neurology
Frontiers in Endocrinology
Frontiers in Neuroscience
Frontiers in Psychiatry
Journal of Biological Rhythms
Metabolic Brain Disorder
Nature Scientific Reports
Neuroscience

Neuroscience Letters
Obesity
Plos Computational Biology
PLoS One
Philosophical Transaction B
Physiology & Behavior
Psychiatry Research
Psychoneuroendocrinology
Physiology and Behavior
Schizophrenia Research

Editorial Board

Frontiers in Endocrinology
Frontiers in Neuroscience

Reviewer for grant proposals

UK Medical Research Council (MRC)	2012
Vienna Science and Technology Fund	2013
National Science Foundation, Modulation II pre-proposal review panel	2014
National Science Foundation	2014, 2015
US-Israel Binational Science Foundation	2016
Biotechnology and Biological Sciences Research Council (BBSRC, UK)	2016
Nation Institute of Health, NNRS Study Section	2018, 2020
National Science Foundation, Neural System review panel	2020
Israel Science Foundation	2020
National Institute of Health, BNRS Study Section	2021
National Institute of Health, Training and Education Review Panel	2023

MSU University/Department Service

University Undergraduate Research and Art Forum, judge	2008, 2010, 2011, 2014, 2015
University Jurisdictional Appeal Panel	2019
University Committee on Graduate Studies (UCGS)	2021 - 2023
UCGS Academic Research Policy Subcommittee	2021 - 2022
University Graduate and Graduate-Professional Judiciaries	2021 – 2022
UCGS Grad Instruction, Employment and Mentoring Subcommittee	2022 – 2023
Psychology Department Laboratory Animal committee, member	2011 to present
Psychology Department's Behavioral Neuroscience (BNS) group chair	2012 to 2014, 2017
Psychology Department Safety Committee	2016 to present
Psychology Department Fixed-term Faculty Review Committee	2017 to present
Psychology Department Graduate Studies Policy Committee	2018 to 2020
Psychology Department Undergraduate Studies Policy Committee	2021 -
Psychology Department's BNS Graduate Program Admissions chair	2016, 2018, 2022

Professional Memberships

Society for Neuroscience
Society for Research on Biological Rhythms
Society for Behavioral Neuroendocrinology

Students Mentored at MSU

Undergraduates: Amy Campbell (2008-2010), Ashley Tomczak (2008-2010), Madison Operacz (2010-2011), Mona Shah (2010-2011), Kathleen Thomas (2010-2011), Jennifer Kott (2011-2012), Greg Leach(2011-2014), Widya Adidharma (2011-2015), Andrew Schmidt (2013-2014), Chris Rausch (2014), Emily Chambers (2014), James Hong (2014-2015), Nadia Chupka (2014-2015), Shenee Martin (2015), Alex Schulte (2015), Sara Golidy (2015-2016), Julian Johnson (2016-2017), Valerie Russell (2016-2017), Faiez Samad (2017-2020), Hang Xiong (2017-2020), Margaret Stumpfig (2017-2019), Christine Lee (2017-2018), Kiersten George (2019), Samhar Daoud (2019), Nyimasata Danjo (2019), Anna Moody (2019-2020), Carleigh Van Den Brook (2020~2022), Evie Fang (2020), Sarah Hoogstraten (2021), Emma Beaver (2021~2022), Lauren Gizinski (2021~2022), Jamie Shi (2022~), Meena Kannan (2022~), Nolan Lucera (2022~)

Graduate students: Sean Deats (2013~2015), Joel Soler (2014-2019), Celibets Colon-Ortiz (2015), Athanasios Kondilis (2016), Stephanie Phillips (2018-2020), Allison Costello (2019~), Madeline Rees (2021)

Publications

[*MSU undergraduate students; ^ MSU graduate students; # MSU post-docs; C indicates corresponding authorship]
Total citations: 5068; h-index: 34; i10-index: 56 (Google Scholar as of Sep 2023)

Peer-reviewed journal articles

67. ^Costello A, Linning-Duffy K, *Vandenbrook C, Lonstein JS, Yan L [C]. Effects of bright light therapy on neuroinflammatory and neuroplasticity markers in a diurnal rodent model of Seasonal Affective Disorder. Ann Med. 2023;55(2):2249015 IF: 5.435

66. Kim AB, *Beaver EM, ^Collins SG, Kriegsfeld LJ, Lockley SW, Wong KY [C], Yan L [C]. S-cone photoreceptors regulate daily rhythms and light-induced arousal/wakefulness in diurnal grass rats (Arvicanthis niloticus). J Biol Rhythms. 2023 Aug 38 (4): 366-378 IF: 3.65

65. ^Costello A, Linning-Duffy K, *Vandenbrook C, Donohue K, O'Hara BF, Kim A, Lonstein JS, Yan L [C]. Effects of light therapy on sleep/wakefulness, daily rhythms, and the central orexin system in a diurnal rodent model of seasonal affective disorder. J. Affective Disord, 332 (2023) 299-308 IF: 6.53

64. ^Costello A, Linning-Duffy K, *Vandenbrook C, Lonstein JS, Yan L [C]. Daytime Light Deficiency Leads to Sex- and Brain Region-Specific Neuroinflammatory Responses in a Diurnal Rodent. Cell Mol. Neurobiol. 2023 April 43(3): 1369-1384 IF: 5.046

63. Huishi Toh , Atefeh Bagheri , Colin Dewey , Ron Stewart , Lili Yan , Dennis Clegg , James A Thomson , Peng Jiang. A Nile rat transcriptomic landscape across 22 organs by ultra-deep sequencing and comparative RNA-seq pipeline (CRSP). Comput Biol Chem. Feb/2023, 102:107795 IF: 3.69

62. Huishi Toh, Chentao Yang, Giulio Formenti, Kalpana Raja, Lily Yan, Alan Tracey, William Chow, Kerstin Howe, Lucie A. Bergeron, Guojie Zhang, Bettina Haase, Jacquelyn Mountcastle, Olivier Fedrigo, John Fogg, Bogdan Kirilenko, Chetan Munegowda, Michael Hiller, Aashish Jain, Daisuke Kihara, Arang Rhie, Adam M. Phillippy, Scott A. Swanson, Peng Jiang, Dennis O. Clegg, Erich D. Jarvis, James A. Thomson, Ron Stewart, Mark J. P. Chaisson, Yury V. Bukhman. A haplotype-resolved genome assembly of the Nile rat facilitates exploration of the genetic basis of diabetes. BMC Biology 20: 245 (2022) IF: 5.914

61. Wu H-S, Gao F, Yan L, Given C. Evaluating chronotypically tailored light therapy for breast cancer survivors: Preliminary findings on fatigue and disrupted sleep. Chronobiology International, 2022, 39(2): 221-232. IF: 2.486

60. ^Soler JE, *Xiong H, *Samad F, Mandredsson F, Robison AJ, Núñez AA, Yan L [C]. Orexin (hypocretin) mediates light-dependent fluctuation of hippocampal function in a diurnal rodent. Hippocampus, 2021 Oct 31(10):1104-1114 IF: 3.899

59. Lonstein JS, Linning-Duffy K, Tang YP, *Moody A, Yan L [C]. Impact of daytime light intensity on the central orexin (hypocretin) system of a diurnal rodent (*Arvicanthis niloticus*). EJN, 2021 July 54 (1): 4167-4181 IF: 3.386

58. Yan L [C], Smale L, Nunez AA. Circadian and photic modulation of daily rhythms in diurnal mammals. Eur J Neurosci. 2020 Jan;51(1):551-566 IF: 3.386

57. *Adidharma W, ^Deats SP, [#]Ikeno T, Lipton JW, Lonstein JS, Yan L [C]. Orexinergic modulation of serotonin neurons in the dorsal raphe of a diurnal rodent, Arvicanthis niloticus. Horm Behav. 2019 Nov 116:104584 IF: 3.684

56. Lonstein JS, Linning-Duffy K, Yan L [C]. Low Daytime Light Intensity Disrupts Male Copulatory Behavior, and Upregulates Medial Preoptic Area Steroid Hormone and Dopamine Receptor Expression, in a Diurnal Rodent Model of Seasonal Affective Disorder. Front Behav Neurosci. 2019 Apr 12;13:72. IF: 2.512

55. ^Soler JE, *Stumpfig M, Tang YP, Robison AJ, Núñez AA, Yan L [C]. Daytime Light Intensity Modulates Spatial Learning and Hippocampal Plasticity in Female Nile Grass Rats (Arvicanthis niloticus). Neuroscience. 2019 April 404:175-183. IF: 3.056

54. Yan L [C], Lonstein JS, Nunez AA. Light as a modulator of emotion and cognition: Lessons learned from studying a diurnal rodent. Horm Behav. 2019 May 111:78-86 IF: 3.684

53. ^Langel J, [#]Ikeno T, Yan L, Nunez AA, Smale L. Distributions of GABAergic and glutamatergic neurons in the brains of a diurnal and nocturnal rodent. Brain Res. 1700:152-159 (2018). IF: 2.929

52. #Ikeno T, Yan L [C]. A comparison of the orexin receptor distribution in the brain between diurnal Nile grass rats (Arvicanthis niloticus) and nocturnal mice (Mus musculus). Brain Res. 1690:89-95 (2018). IF: 2.929

51. Nunez AA, Yan L, Smale L. The Cost of Activity during the Rest Phase: Animal Models and Theoretical Perspectives. Front Endocrinol (Lausanne). 9:72 (2018). IF: 3.675

50. ^Soler JE, Robison AJ, Núñez AA, Yan L [C]. Light modulates hippocampal function and spatial learning in a diurnal rodent species: A study using male nile grass rat (Arvicanthis niloticus). Hippocampus. 28(3):189-200. (2018) IF: 3.267

49. Williams CT, Barnes BM, Yan L, Buck CL. Entraining to the polar day: circadian rhythms in arctic ground squirrels. J Exp Biol. 220:3095-3102 (2017). IF: 3.32

48. #Gall AJ, Khacherian OS, Ledbetter B, ^Deats SP, Luck M, Smale L, Yan L, Nunez AA. Normal behavioral responses to light and darkness and the pupillary light reflex are dependent upon the olivary pretectal nucleus in the diurnal Nile grass rat. Neuroscience. 355:225-237 (2017). IF: 3.382

47. #Ikeno T, Williams CT, Buck CL, Barnes BM, Yan L [C]. Clock Gene Expression in the Suprachiasmatic Nucleus of Hibernating Arctic Ground Squirrels. J Biol Rhythms. 32: 246-56 (2017). IF: 3.906

46. ^Zheng F, ^Zhang M, Moon C. Ding Q, Sethna F, Yan L, Wang H. Voluntary running depreciates the requirement of Ca2+-stimulated cAMP signaling in synaptic potentiation and memory formation. Learning & Memory, 23: 442-9 (2016). IF: 3.543

45. #Ikeno T, Yan L [C]. Chronic Light Exposure in the Middle of the Night Disturbs the Circadian System and Emotional Regulation. J Biol Rhythms. 31: 452-64 (2016). IF: 3.243

44. #Ikeno T, ^Deats SP, ^Soler J, Lonstein JS, Yan L [C]. Decreased daytime illumination leads to anxiety-like behaviors and HPA axis dysregulation in the diurnal grass rat (Arvicanthis niloticus). Behav Brain Res. 300:77-84 (2016). IF: 3.324

43. #Gall AJ, ^Shuboni DD, Yan L, Nunez AA, Smale L. Suprachiasmatic Nucleus and Subparaventricular Zone Lesions Disrupt Circadian Rhythmicity but Not Light-Induced Masking Behavior in Nile Grass Rats. J Biol Rhythms. 31:170-81 (2016). IF: 3.243

42. Yan L [C], Silver R. Neuroendocrine underpinnings of sex differences in circadian timing systems. J Steroid Biochem Mol Biol. 160: 118-26 (2016). Review. PMID: 26472554 IF:4.561

41. ^Deats SP, *Adidharma W, Yan L [C]. Hypothalamic dopaminergic neurons in an animal model of seasonal affective disorder. Neurosci Lett. 602:17-21 (2015 Aug/18). PMID: 261168212. IF: 2.405

40. ^Shuboni DD, *Cramm SL, Yan L, #Ramanathan C, Cavanaugh BL, Nunez AA, Smale L. Acute effects of light on the brain and behavior of diurnal Arvicanthis niloticus and nocturnal Mus musculus. Physiol Behav. 138:75-86 (2015). PMID: 25447482 IF: 2.822

39. #Gall AJ, Yan L, Smale L, Nunez AA. Intergeniculate leaflet lesions result in differential activation of brain regions following the presentation of photic stimuli in Nile grass rats. Neurosci Lett. 579:101-5 (2014). IF: 2.030

38. ^Langel J, Yan L, Nunez AA, Smale L. Behavioral Masking and cFos Responses to Light in Day- and Night-Active Grass Rats. J Biol Rhythms. 29:192-202 (2014). IF: 3.133

37. Wang Q, Tikhonenko M, Bozack SN, Lydic TA, Yan L, Panchy NL, McSorley KM, Faber MS, Yan Y, Boulton ME, Grant MB, Busik JV. Changes in the daily rhythm of lipid metabolism in the diabetic retina. PLoS One. 15;9(4):e95028 (2014). IF: 3.70

36. *Donlin M, ^Cavanaugh BL, *Spagnuolo OS, Yan L, Lonstein JS. Effects of sex and reproductive experience on the number of orexin A-immunoreactive cells in the prairie vole brain. Peptides. 57:122-8 (2014). IF: 2.618

35. ^Deats SP, Adidharma W, Lonstein JS, Yan L [C]. Attenuated orexinergic signaling underlies depression-like responses induced by daytime light deficiency. Neuroscience. 11;272:252-60 (2014) IF: 2.079

34. #Gall AJ, Smale L, Yan L, Nunez AA. Lesions of the Intergeniculate Leaflet Lead to a Reorganization in Circadian Regulation and a Reversal in Masking Responses to Photic Stimuli in the Nile Grass Rat. PLoS One. 8(6):e67387 (2013). IF: 4.065

33. *Leach G, *Adidharma W, Yan L [C]. Depression-like responses induced by daytime light deficiency in the diurnal grass rat (Arvicanthis niloticus). PLoS One. 8(2):e57115 (2013). IF: 4.065

32. *Leach G, #Ramanathan C, ^Langel J, Yan L [C]. Responses of brain and behavior to changing day-length in the diurnal grass rat (Arvicanthis niloticus). Neuroscience. 234:31-9 (2013). IF: 3.327

31. *Adidharma W, *Leach G, Yan L [C]. Orexinergic signaling mediates light-induced neuronal activation in the dorsal raphe nucleus. Neuroscience. 220: 201-7 (2012). IF: 3.122

30. *Kott J, *Leach G, Yan L [C]. Direction-dependent effects of chronic "jet-lag" on hippocampal neurogenesis. Neurosci Lett. 515:177-80 (2012). IF: 2.026

29. ^Shuboni DD, *Cramm S, Yan L, Nunez AA, Smale L. Acute behavioral responses to light and darkness in nocturnal Mus musculus and diurnal Arvicanthis niloticus. J Biol Rhythms. 27: 299-307 (2012). IF: 3.641

28. Yan L [C]. Structural and functional changes in the suprachiasmatic nucleus following chronic circadian rhythm perturbation. Neuroscience. 183:99-107 (2011). IF: 2.738

27. ^Shuboni D, Yan L [C]. Nighttime dim light exposure alters the responses of the circadian system. Neuroscience. 170: 1172-8 (2010). IF: 3.515

26. Yan L [C], Silver R, Gorman M. Reorganization of suprachiasmatic nucleus networks under 24-h LDLD conditions. J Biol Rhythms. 25: 19-27 (2010). IF: 3.505

25. Yan L [C]. Expression of clock genes in the suprachiasmatic nucleus: effect of environmental lighting conditions. Rev Endocr Metab Disord. 10: 301-10 (2009). IF: 6.219

24. [#]Ramanathan C, *Campbell A, *Tomczak A, Nunez AA, Smale L, Yan L [C]. Compartmentalized expression of light-induced clock genes in the suprachiasmatic nucleus of the diurnal grass rat (Arvicanthis niloticus). Neuroscience. 161: 960-9 (2009). IF: 3.546

23. Yan L [C], Silver R. Day-length encoding through tonic photic effects in the retinorecipient SCN region. Eur J Neurosci. 28: 2108-15 (2008). IF: 2.573

22. Kriegsfeld LJ, Mei DF, Yan L, Witkovsky P, Le Sauter J, Hamada T, Silver R. Targeted mutation of the calbindin D28K gene disrupts circadian rhythmicity and entrainment. Eur J Neurosci. 27: 2907-21 (2008). IF: 2.573

21. Yan L, Karatsoreos I, LeSauterJ, Welsh DK, Kay S, Foley D, Silver R. Exploring spatiotemporal organization of SCN circuits. Cold Spring Harb Symp Quant Biol. 72: 527-41 (2007). IF: NA

20. Witkovsky P, Svenningsson P, Yan L, Bateup H, Silver R. Cellular localization and function of DARPP-32 in the rodent retina. European Journal of Neuroscience, 25: 3233-42 (2007). IF: 2.495

19. Yan L, Bobula JM, Svenningsson P, Greengard P, Silver R. DARPP-32 involvement in the photic pathway of the circadian system. Journal of Neuroscience, 26(37):9434-8 (2006) IF: 8.209

18. Yan L, Foley N, Bobula JM, Kriegsfeld L, Silver R. Two antiphase oscillations occur in each suprachiasmatic nucleus of behaviorally split hamsters. Journal of Neuroscience, 25(39):9017-26 (2005) IF; 8.221

17. Yan L, Silver R. Resetting the brain clock: time course and localization of mPER1 and mPER2 protein expression in suprachiasmatic nuclei during phase shifts. European Journal of Neuroscience, 19(4) 1105-9 (2004) IF: 2.414

16. Karatsoreos IN, Yan L, LeSauter J, Silver R. Phenotype matters: identification of light-responsive cells in the mouse suprachiasmatic nucleus. Journal of Neuroscience, 24(1): 68-75 (2004) IF: 8.311

15. Hamada T, LeSauter J, Lokshin M, Romero M, Yan L, Venuti J, Silver R. Calbindin influences response to photic input in suprachiasmatic nucleus. Journal of Neuroscience, 23(26): 8820-26 (2003) I F: 8.582

14. Witkovsky P, Veisenberger E, LeSauter J, Yan L, Johnson M, Zhang D, McMahon D, Silver R. Cellular Location and Circadian Rhythm of Expression of the Biological Clock Gene Period 1 in the Mouse Retina. Journal of Neuroscience, 23(20): 7670-76 (2003) IF: 8.582

13. Yan L, Hochstetler K, Silver R, Bult-Ito A. Phase shifts and Per gene expression in mouse suprachiasmatic nucleus. Neuroreport, 14(9): 1247-51 (2003) IF: 1.404

12. LeSauter J, Yan L, Vishnubhotla B, Quintero J, Kuhlman S, McMahon D, Silver R. A short half-life GFP mouse model for analysis of suprachiasmatic nucleus organization. Brain Research, 946(2): 279-87 (2003). IF: 2.569

11. Ishida Y, Yokoyama C, Inatomi T, Yagita K, Dong X, Yan L, Yamaguchi S, Nagatsu I, Komori T, Kitahama K, Okamura H. Circadian rhythm of aromatic L-amino acid decarboxylase in the rat suprachiasmatic nucleus: gene expression and decarboxylating activity in clock oscillating cells. Genes Cells, 7(5): 447-59 (2002). IF: 3.925

10. Yan L, Silver R. Differential induction and localization of mPer1 and mPer2 during advancing and delaying phase shifts. European Journal of Neuroscience, 16: 1531-40 (2002). IF: 4.101

9. Yan L, Okamura H. Gradients in the circadian expression of Per1 and Per2 genes in the rat suprachiasmatic nucleus. European Journal of Neuroscience, 15: 1153-62 (2002) IF: 4.101

8. Takekida S, Yan L, Maywood E, Hastings M, Okamura H. Differential adrenergic regulation of the circadian expression of the clock gene Period1 and Period2 in the rat pineal grand. European Journal of Neuroscience, 12: 4557-4561 (2000) IF: 3.863

7. Miyake S, Sumi Y, Yan L, Takedida S, Fukuyama T, Ishida Y, Yamaguchi S, Yagita K, Okamura H. Phase-dependent responses of Per1 and Per2 genes to a light-stimulus in the suprachiasmatic nucleus of the rat. Neuroscience Letters, 294: 41-44 (2000) IF: 2.131

6. Yamaguchi S, Mitui S, Miyake S, Yan L, Onishi H, Yagita K, Suzuki M, Shibata S, Kobayashi M, Okamura H. The 5' upstream region of mPer1 gene contains two promoters and is responsible for circadian oscillation. Current Biology, 10: 873-876 (2000) IF: 7.916

5. Yamaguchi S, Mitui S, Yan L, Yagita K, Miyake S, Okamura H. Role of DBP in the circadian oscillatory mechanism. Molecular and Cellular Biology, 20(13): 4773-4781 (2000) IF: 9.683

4. Yan L, Miyake S, Okamura H. Distribution and circadian expression of dbp in SCN and extra-SCN areas in the mouse brain. Journal of Neuroscience Research 59：291-295 (2000) IF: 3.314

3. Yan L, Takekida S, Shigeyoshi Y, Okamura H. Per1 and Per2 gene expression in the rat suprachiasmatic nucleus: Circadian profile and the compartment-specific response to light. Neuroscience, 94 (1): 141-150 (1999) IF: 3.924

2. Takumi T, Taguchi K, Miyake S, Sakakida Y, Takashima N, Matsubara C, Maebayashi Y, Okumura K, Takekida S, Yamamoto S, Yagita K, Yan L, Young MW, Okamura H. A light-independent oscillatory gene mPer3 in mouse SCN and OVLT. EMBO Journal, 17 (16): 4753-4759 (1998) IF: 13.171

1. Shigeyoshi Y, Taguchi K, Yamamoto S, Takekida S, Yan L, Tei H, Moriya T, Shibata S, Loros JJ, Dunlap JC, Okamura H. Light-induced resetting of a mammalian circadian clock is

associated with rapid induction of the mPer1 transcript. Cell, 91 (7): 1043-1053 (1997)
IF: 37.297

Book chapters

3. **Yan L**, Smale L, Nunez AA. Neuroendocrine Mechanisms of Circadian Rhythms in Diurnal Species. Oxford Research Encyclopedia of Neuroscience. *Subject: Neuroendocrine and Autonomic Systems* (2018).

2.Okamura-H; Yamaguchi-S; Yan-L. Clock genes in humans. (in Japanese) In Tamura-K (Ed.) Clinical Assessment of Circadian Behavior, Nagai Press: Osaka, Japan, 2000

1.Okamura-H; Yamaguchi-S; Yan-L. Circadian oscillation of Mammalian Period Gene. In Honma-K and Honma-S (Ed.) Zeitgebers, Entrainment and Masking of the Circadian system, Hokkaido University Press, Sapporo, 2001

Recent invited talks

Shining light on a diurnal brain: impact of light on mental health. Symposium "Circadian Disruption and Psychiatric Disorders". Society for Research on Biological Rhythms Biennial Conference. Amelia Island, FL, May 2022.

Seasonal rhythms in affect and cognition. University of Michigan, Molecular & Integrative Physiology, Biological Rhythms and Sleep Seminar. Nov 2019

A moody clock: circadian properties and affective behaviors in a diurnal rodent. Symposium "Biological Clocks: Diversity and common themes among vertebrates". The 10th International Congress of Comparative Physiology and Biochemistry. Ottawa, Canada. Aug 2019

How does light modulate mood and cognition? University of Alaska, Fairbanks. Institute of Arctic Biology Life Science Seminar, April 2019

The bright side of light: light as a modulator of emotion and cognition. Symposium "Circadian and seasonal changes in brain function and behavior". International Congress of Neuroendocrinology. Toronto, Canada, June 2018.

How does light modulate mood and cognition: is orexin a common mediator? University of Michigan. Department of Psychology Colloquium, Sep 2017

Seasonality in Emotion and Cognition. Symposium: The 29th Conference of the International Chronobiology Society, Oct 24-28, 2016, China

Conference Abstracts

44. Costello A, Linning-Duffy K, Vandenbrook C, Lonstein JS, Yan L. Sex differences in responses to early morning bright light therapy in central orexin, BDNF, and neuroinflammatory markers in a diurnal rodent. San Diego, CA: Society for Neuroscience, Oct 2022

43. Costello A, Vandenbrook C, Lonstein JS, Yan L. Early-morning bright light therapy improves nighttime sleep quality and upregulates central orexin and BDNF measures in male Nile grass rats (*Arvicanthis niloticus*). Atlanta, GA: Society for Behavioral Neuroendocrinology, June 2021

42. Costello A, Linning-Duffy K, Vandenbrook C, Lonstein JS, Bortolato M, Yan L. Seasonal expression of 5α-Reductase in corticolimbic brain regions of a diurnal rodent. Chicago, IL: Society for Neuroscience, Oct 2021

41. Costello A, Linning-Duffy K, Vandenbrook C, Lonstein JS, Yan L. Daytime light intensity modulates neuroinflammation in a diurnal rodent. Society for Behavioral Neuroendocrinology, July 2021.

40. Samad F, Xiong H, Daoud S, Linning-Duffy K, Manfredsson FP, Lonstein JS, Yan L. Orexinergic projection to the dorsal raphe regulates affective behaviors in an animal model of SAD. Chicago, IL: Society for Neuroscience, Oct 2019

39. Moody A, Adidharma W, George K, Linning-Duffy K, Lonstein JS, Yan L. Daily rhythm of orexin immunoreacitvity and release in a diurnal rodent model of seasonal affective disorder. Chicago, IL: Society for Neuroscience, Oct 2019

38. Phillips, SD, Xiong H., Donohue K, O'Hara B, Lonstein, JS, Yan, L. Too sad to sleep? Sleep patterns in a rodent SAD model analyzed by a piezoelectric system. Chicago, IL: Society for Neuroscience, Oct 2019

37. Yan L. A moody clock: circadian properties and affective behaviors in a diurnal rodent. The 10th International Congress of Comparative Physiology and Biochemistry. Ottawa, Canada. Aug 2019

36. Xiong H, Liu Y, Liao W, Yan L. Interaction of light, sex and gut microbiota in a diurnal model of depression. San Diego, CA: Society for Neuroscience, Nov 2018.

35. Yan L, Soler J, Nunez AA. Daytime illumination modulates spatial learning through the orexinergic pathways in the diurnal Nile grass rat (*Arvicanthis niloticus*). San Diego, CA: Society for Neuroscience, Nov 2018.

34. Tang YP, Stumpfig M, Samad F, Xiong H, Linning-Duffy K, Lonstein JS, Yan L. Sex differences in Effects of light Intensity on Orexinergic system in the diurnal Nile grass rats (*Arvicanthis niloticus*). International Congress of Neuroendocrinology. Toronto, Canada, 2018.

33. Yan L. The bright side of light: light as a modulator of emotion and cognition. International Congress of Neuroendocrinology. Toronto, Canada, 2018.

32. Soler J, Nunez AA, Yan, L. Orexin alleviates cognitive impairments induced by daytime dim light in the diurnal Nile grass rat (*Arvicanthis niloticus*). 16th Biennial Meeting, Society for Research on Biological Rhythms, Amelia Island, FL, 2018.

31. Lonstein, JS, Linning-Duffy K, Yan L. Decreased daytime illumination impairs male copulatory behavior in a diurnal rodent model of seasonal affective disorder (SAD). Washington DC: Society for Neuroscience, Nov 2017.

30. Yan L, Nunez AA. Sex Differences in the Photic Modulation of Spatial Learning and Hippocampal Plasticity in the Diurnal Grass Rat (*Arvicanthis niloticus*). Long Beach, CA: Society for Behavioral Neuroendocrinology, Sep 2017.

29. Soler J, Nunez AA, Yan, L. Light modulates spatial learning and memory in a diurnal rodent species, the nile grass rat (*Arvicanthis Niloticus*). San Diego, CA: Society for Neuroscience, Nov 2016.

28. Lily Yan. Seasonality in Emotion and Cognition (Symposium) The 29th Conference of the International Chronobiology Society, Oct 24-28, 2016, Suzhou, China

27. Ikeno T, Yan L, Williams C, Buck CL, Barnes B. Circadian molecular oscillations in arctic ground squirrels. 38th Japanese Society for Comparative Physiology and Biochemistry (JSCPB) Annual Conference, June 29, 2016

26. Lily Yan, Tomoko Ikeno, Jeanetter Moore, Cori Williams, Loren Buck, Brain Barnes. Clock gene expression in the SCN of Arctic ground squirrels.15th Biennial Meeting, Society for Research on Biological Rhythms, Palm Harbor, FL, 2016.

25. Soler J, Ikeno T, Nunez AA, Yan, L. Light as a modulator of hippocampal-dependent learning and memory. 15th Biennial Meeting, Society for Research on Biological Rhythms, Palm Harbor, FL, 2016.

24. Soler J, Ikeno T, Yan, L. Light modulates spatial learning and memory in an animal model of SAD. Chicago, IL: Society for Neuroscience, Oct 2015.

23. Ikeno T, Yan, L. Altered expression of the core circadian clock component PERIOD2 in a diurnal rodent model of seasonal affective disorder. XIV European Biological Rhythm Soceity Congress and IV World Congress of Chronobiology. Manchester, UK, Aug 2015.

22. Deats S., Yan, L. Effects of light on hypothalamic dopaminergic neurons in an animal model of SAD. Washington, DC: Society for Neuroscience, 2014.

21. Yan L., Leach G. Effects of chronic nighttime light exposure on the daily rhythms in locomotor activity and clock gene expression in the SCN. 14th Biennial Meeting, Society for Research on Biological Rhythms, Big Sky, MT, 2014.

20. Adidharma W., Yan L. Attenuated Orexinergic Signaling in a Diurnal Rodent Model of SAD. San Diego, CA: Society of Neuroscience, 2013.

19. Deats S., Yan, L. Inhibition of Orexinergic Signaling Leads to Depression-like Behaviors in Diurnal Grass Rats. San Diego, CA: Society of Neuroscience, 2013.

18. Gall A.J., Smale L., Yan L., Nunez A. Effects of intergeniculate leaflet (IGL) lesions on behavioral and brain responses to photic stimuli in diurnal grass rats. San Diego, CA: Society of Neuroscience, 2013.

17. Yan L. Effects of Light on Mood and Anxiety: An Animal Model of SAD. East Lansing, MI, Midwest Chronobiology Conference, 2013.

16. Gall A.J., Nunez A., Yan L., Smale L. Does the intergeniculate leaflet (IGL) play a role in masking responses to light in diurnal rodents? New Orleans, LA: Society for Neuroscience, 2012.

15. Van loon J., Nunez A., Yan L., Smale L. Masking in day and night active grass rats (Arvicanthis niloticus): Effects of light pulses on locomotor activity and the brain New Orleans, LA: Society for Neuroscience, 2012.

14. Martin-Fairey C.A., Bostic B., L. Yan L., Smale L., Nunez A. Daily rhythms in brain trkB

expression in the diurnal grass rat are disrupted by nocturnal wheel running. New Orleans, LA: Society for Neuroscience, 2012.

13. Yan L., Ramanathan C., Leach G., van loon J. Circadian rhythms and SAD: Novel responses of brain and behavior to changing day-lengths in the diurnal grass rat (Arvicanthis niloticus). 13th Biennial Meeting, Society for Research on Biological Rhythms, Destin, FL, 2012

12. Van Loon, J., Nunez A., Yan L., Smale L. Distinct masking responses in day- and night-active grass rats (Arvicanthis niloticus). 13th Biennial Meeting, Society for Research on Biological Rhythms, Destin, FL, 2012

11. Gall A., Shuboni D., Nunez A., Yan L., Smale L. The intergeniculate leaflet (IGL) shows differential responses to light in diurnal and nocturnal rodents and contributes to the display of a day-active profile. 13th Biennial Meeting, Society for Research on Biological Rhythms, Destin, FL, 2012

10. Shuboni D., Cramm S., Yan L., Nunez A., Smale L. Masking responses and light-induced changes in Fos expression in nocturnal and diurnal rodents. 13th Biennial Meeting, Society for Research on Biological Rhythms, Destin, FL, 2012

9. Yan L., Leach G., Adidharma W., Kott J. A diurnal rodent model of SAD. Washington, DC: Society for Neuroscience, 2011.

8. Shuboni D., Yan L. Nighttime dim light exposure alters the responses of circadian system. 12th Biennial Meeting, Society for Research on Biological Rhythms, Destin, FL, 2010

7. Yan L., Campbell, A., Tomczak A. Circadian rhythm perturbation leads to reorganization of the SCN network. Chicago, IL: Society for Neuroscience, 2009.

6. Butler M.P., Yan L., Rodriguez E., Silver R. The circadian clock coordinates time in the brain via multiple discrete output signals. Washington, DC: Society for Neuroscience, 2008.

5. Yan L., Bobula J. M., Kriegsfeld L., Silver R. Antiphase oscillation in the core and shell SCN of split hamster. Washington, DC: Society for Neuroscience, 2005

4. Yan L., Sun Z., Silver R. Characterization of mPer1 and mPer2 expression in PER2 mutant mice. New Orleans, LA: Society for Neuroscience, 2003.

3. Kriegsfeld, L. J., Mei, D., Yan, L., Hamada, T., Silver, R. Circadian phenotype in mice carrying a targeted mutation of the calbindin D28K gene. New Orleans, LA: Society for Neuroscience, 2003.

2. Karatsoreos, I. N., Yan, L., Le Sauter, J., Silver, R. Rhythmic and non-rhythmic compartments of Per1 expression in the mouse SCN. Orlando, FL: Society for Neuroscience, 2002

1. Yan, L., Silver, R. Distinct role of mPer1 and mPer2 in photic entrainment. Orlando, FL: Society for Neuroscience, 2002