

Form 1 FY 2025 List of Center's Research Results

WPI papers

(1) Original articles

1. Moctezuma LA, Molinas M, Abe T; 2025; SLEEP Advances, 6, 10.1093/sleepadvances/zpaf066, From high- to low-density EEG for automatic classification of dream experiences during stage 2 of NREM.
2. Moctezuma LA, Molinas M, Abe T; 2025; BioMed Research International, 10.1155/bmri/3585125, Unlocking Dreams and Dreamless Sleep: Machine Learning Classification With Optimal EEG Channels.
3. Seol J, Iwagami M, Kayamare MCT, Yanagisawa M; 2025; Journal of Medical Internet Research, 27, 10.2196/64749, Relationship Among Macronutrients, Dietary Components, and Objective Sleep Variables Measured by Smartphone Apps: Real-World Cross-Sectional Study.
4. Sasaki H, Masutomi H, Nakamura S, Tanigawa C, Cui Y, Ishihara K, Yanagisawa M, Kokubo T; 2025; Frontiers in Nutrition, 12, 10.3389/fnut.2025.1551313, Granola consumption with multiple prebiotics in Japanese participants increases Bifidobacterium abundance and improves stress and subjective sleepiness.
5. Iwagami M, Ishimaru M, Takeuchi Y, Shinozaki T; 2025; Journal of Epidemiology, 35, 161-169, Methodological Tutorial Series for Epidemiological Studies: When and How to Split the Follow-up Time in the Analysis of Epidemiological or Clinical Studies With Follow-ups.
6. Naganuma F, Girgin B, Agu ABS, Hirano K, Nakamura T, Yanai K, Vetrivelan R, Mochizuki T, Yanagisawa M, Yoshikawa T; 2025; Sleep, 48, 10.1093/sleep/zsae244, Pharmacological inhibition of histamine N-methyltransferase extends wakefulness and suppresses cataplexy in a mouse model of narcolepsy.
7. Sugawara Y, Hirakawa Y, Iwagami M, Inokuchi R, Wakimizu R, Nangaku M; 2025; Journal of Medical Internet Research, 27, 10.2196/67929, Metrics for Evaluating Telemedicine in Randomized Controlled Trials: Scoping Review.
8. Inokuchi R, Sakamoto A, Sun Y, Iwagami M, Tamiya N; 2025; Prehospital Emergency Care, 29, 1117-1122, Combining Conventional and Telemedicine Medical Services to Reduce the Burden on Emergency Medical Services in Rural Areas: A Retrospective Cohort Study.
9. Ono N, Shimazaki K, Toda H, Takahashi H; 2025; IEEE Sensors Journal, 25, 16821-16829, Bi-Axial Micro Force Plate Utilizing Dual Laser Displacement Meters for Ground Reaction Force Measurement in Fruit Flies.
10. Ogawa M, Takeuchi Y, Iida Y, Iwagami M, Uemura K, Ono S, Michihata N, Koide D, Matsuyama Y, Yasunaga H; 2025; Pharmacoepidemiology and Drug Safety, 34, 10.1002/pds.70082, Safety Assessment of Influenza Vaccination for Neurological Outcomes Among Older Adults in Japan: A Self-Controlled Case Series Study.
11. Hayashi N, Okabe Y, Tanaka K, Kitajima M, Taniguchi K, Yanagita M, Hayashi Y; 2025; Frontiers in Neuroscience, 19, 10.3389/fnins.2025.1581494, Dynamic changes in sleep architecture in a mouse model of acute kidney injury transitioning to chronic kidney disease.
12. Ando T, Hasegawa T, Ishiguro C, Komiyama J, Kuno T, Iwagami M; 2025; Frontiers in Pharmacology, 16, 10.3389/fphar.2025.1642522, Difference in outcome event coverage between insurance-based and hospital-based databases: a methodological study of diabetes drug use and cardiovascular events in Japan.
13. Taniguchi Y, Miyawaki A, Iwagami M, Sugiyama T, Watanabe T, Ito T, Tamiya N; 2025; Journal of Epidemiology, 35, 355-363, Association Between Informal Caregiving and Changes in Cardiovascular-related Health Behaviors Among Middle-aged and Older Adults in Japan: A 15-year Panel Survey.
14. Yu J, Deki-Arima N, Saito YC, Furutani N, Nishiyama M, Nakayama KI, Niwa Y, Hirano A, Sakurai T; 2025; Frontiers in Sleep, 4, 10.3389/frsle.2025.1614100, Circadian activity and sleep architecture in autism spectrum disorder mouse model with Chd8 mutation.
15. Muroi K, Morita E, Matsumoto S, Ishihara A, Hasegawa S, Ishitsuka M, Hori D, Doki S, Takahashi T, Sasahara SI, et al.; 2025; JMIR Formative Research, 9, 10.2196/73784, Interaction of Long Working Hours and Sense of Coherence on Objective Total Sleep Time: Cross-Sectional Study From the SLEPT Study.
16. Nishio M, Koyanagi A, Yakura H, Hanawa T, Shi S; 2025; Frontiers in Language Sciences, 4, 10.3389/flang.2025.1556481, Language-specific development of noun bias beyond infancy.
17. Suzuki C, Suzuki Y, Abe T, Kanbayashi T, Fukusumi S, Kokubo T, Takahara I, Yanagisawa M; 2025; PLoS ONE, 20, 10.1371/journal.pone.0316579, Mobile Sleep Lab: Comparison of polysomnographic

parameters with a conventional sleep laboratory.

18. Takdir, Shaikh SA, Matono A, Kitagawa H, Amagasa T; 2025; *IEEE Access*, 13, 202408-202426, Dynamic Scaling With Just-in-Time Snapshot in Distributed Stream Processing Systems.
19. Yoshimura T, Wakai M, Kanbayashi T, Katsuno M; 2025; *Clinical Neurology*, 65, 278-283, Symptomatic narcolepsy type 2 in a patient with AQP4-positive neuromyelitis optica spectrum disorder.
20. Soya S, Toda K, Sakurai K, Cherasse Y, Saito YC, Abe M, Sakimura K, Sakurai T; 2025; *Science Advances*, 11, 10.1126/sciadv.adn1335, Central amygdala NPBWR1 neurons facilitate social novelty seeking and new social interactions.
21. Masaki M, Tsumoto S, Tani A, Tominaga M, Seol J, Chiba S, Miyanishi K, Nishida K, Kawana F, Amemiya T, et al.; 2025; *Proceedings of the National Academy of Sciences of the United States of America*, 122, 10.1073/pnas.2412895121, Discrepancies between subjective and objective sleep assessments revealed by in-home electroencephalography during real-world sleep.
22. Yin X, Zhang Z, Zhou R, Zuo P, Sang D, Zhou S, Shi B, Chen L, Wu C, Guo Y, et al.; 2025; *Proceedings of the National Academy of Sciences of the United States of America*, 122, 10.1073/pnas.2418317122, Calcineurin governs baseline and homeostatic regulations of non-rapid eye movement sleep in mice.
23. Liu Z, Guo Z, Xu J, Zhou R, Shi B, Chen L, Wu C, Wang H, Wang X, Wang F, et al.; 2025; *Journal of Neuroscience*, 45, 10.1523/JNEUROSCI.0786-24.2024, Regulation of Sleep Amount by CRT1 via Transcription of Crh in Mice.
24. Endo Y, Inokuchi R, Yamamoto M, Horie R, Asada T, Kashiwa K, Fujishiro K, Iwagami M, Doi K; 2025; *Journal of Critical Care*, 85, 10.1016/j.jcrc.2024.154982, Platelet dysfunction in heatstroke-induced coagulopathy: A retrospective observational study.
25. Nakata S, Fujiyama T, Asano F, Komiya H, Hotta-Hirashima N, Juichi M, Komine D, Kakizaki M, Ikkyu A, Mizuno S, et al.; 2025; *Sleep*, 48, 10.1093/sleep/zsae279, Partial activation of salt-inducible kinase 3 delays the onset of wakefulness and alleviates hypersomnia due to the lack of protein kinase A-phosphorylation site.
26. Shimada K, Goshio M, Ohigashi T, Kume K, Yano T, Ishii R, Maruo K, Inokuchi R, Iwagami M, Ueda H, et al.; 2025; *Journal of Anesthesia*, 39, 5-14, Risk of postoperative pneumonia after extubation with the positive pressure versus normal pressure technique: a single-center retrospective observational study.
27. Arai K, Ono Y, Hirai N, Sugiura Y, Kaneko K, Matsuda S, Iio K, Kajino K, Saitoh T, Wei FY, et al.; 2025; *Biochimica et Biophysica Acta - Molecular Basis of Disease*, 1871, 10.1016/j.bbadis.2024.167566, Chemogenetic activation of hepatic G12 signaling ameliorates hepatic steatosis and obesity.
28. Imamura A, Araki R, Takahashi Y, Miyatake K, Kato F, Honjoh S, Tsurugizawa T; 2025; *NeuroImage*, 307, 10.1016/j.neuroimage.2025.121024, Zero-echo time imaging achieves whole brain activity mapping without ventral signal loss in mice.
29. Uchizawa A, Osumi H, Zhang S, Yajima K, Funayama A, Kondo E, Suzuki Y, Tanaka Y, Park I, Enomoto Y, et al.; 2025; *iScience*, 28, 10.1016/j.isci.2024.111717, Energy expenditure and slow-wave sleep in runners: Focusing on reproductive function, chronic training, and sex.
30. Kawamura C, Bhaskaran K, Konishi T, Sagara Y, Bando H, Shinozaki T, Nojiri S, Adomi M, Wong AYS, Tamiya N, et al.; 2025; *The Lancet Regional Health - Western Pacific*, 56, 10.1016/j.lanwpc.2025.101519, Non-cancer risks among female breast cancer survivors: a matched cohort study in Japan.
31. Tsuneki H, Maeda T, Takatsuki M, Sekine T, Masui S, Onishi K, Takeda R, Sugiyama M, Sakurai T, Yanagisawa M, et al.; 2025; *PLoS ONE*, 20, 10.1371/journal.pone.0320157, Bromocriptine improves glucose tolerance in obese mice via central dopamine D2 receptor-independent mechanism.
32. Kajino K, Sugai T, Kise R, Suzuki R, Tokuda A, Sekiya Y, Kakumoto T, Katamoto R, Kutsumura N, Nagumo Y, et al.; 2025; *Chemical and Pharmaceutical Bulletin*, 73, 246-256, Structure-Signal Relationships of the δ -Opioid-Receptor (DOR)-Selective Agonist KNT-127—Part I: Impact of the Morphinan Skeleton on the G-Protein-Biased DOR Agonism.
33. Sugawara Y, Iwagami M, Kikuchi K, Hashiba T, Yabushita S, Hara R, Hasegawa T, Yasuhiko I, Nangaku M; 2025; *Vaccine: X*, 23, 10.1016/j.jvacx.2025.100623, COVID-19 vaccination hesitancy among hemodialysis patients: A mixed-methods study.
34. Akabane S, Iwagami M, Bell-Allen N, Navadgi S, Kawahara T, Bhandari M; 2025; *Surgical Endoscopy*, 39, 1770-1777, Machine learning-based prediction for incidence of endoscopic retrograde cholangiopancreatography after emergency laparoscopic cholecystectomy: A

retrospective, multicenter cohort study.

35. Nishiyama S, Sekine A, Masuyama T, Nagatomo K, Kanbayashi T, Sanui M; 2025; *Neuropsychopharmacology Reports*, 45, 10.1002/npr2.12504, Orexin concentrations and diurnal variation in the cerebrospinal fluid of intensive care unit patients undergoing aortic surgery with spinal drainage.
36. Nomura S, Murakami M, Rauniyar SK, Kondo N, Tabuchi T, Sakamoto H, Tokuda Y, Patel N, Navarro de Pablo J, Dieleman JL, et al.; 2025; *The Lancet Public Health*, 10, e321–e332, Three decades of population health changes in Japan, 1990–2021: a subnational analysis for the Global Burden of Disease Study 2021.
37. Kajino K, Sugai T, Kakumoto T, Kise R, Suzuki R, Tokuda A, Sekiya Y, Katamoto R, Kutsumura N, Nagumo Y, et al.; 2025; *Chemical and Pharmaceutical Bulletin*, 73, 336–348, Structure–Signal Relationships of the δ -Opioid-Receptor (DOR)-Selective Agonist KNT-127—Part II: Quinoline Ring Modifications for Enhanced G-Protein Signaling and Reduced β -Arrestin Recruitment.
38. Cao L, Zhang X, Lou T, Ma J, Wang Z, Kim SJ, Vogt K, Hirano A, Tanaka T, Kikkawa Y, et al.; 2025; *International Journal of Molecular Sciences*, 26, 10.3390/ijms26083754, Cdkl5 Knockout Mice Recapitulate Sleep Phenotypes of CDKL5 Deficient Disorder.
39. Yoshioka T, Kimiki S, Yamazaki M, Hamano T, Ou M, Ode Y, Ehara R, Kajino K, Kasai S, Yoshizawa K, et al.; 2025; *British Journal of Pharmacology*, 182, 1599–1609, Agonists of the opioid δ -receptor improve irritable bowel syndrome-like symptoms via the central nervous system.
40. Ishimaru M, Ono S, Iwagami M, Miyamoto Y, Mikami R, Aida J; 2025; *Clinical Journal of the American Society of Nephrology*, 20, 582–584, Risk of Surgical Site Infections after Tooth Extraction in CKD: A Retrospective Real-World Study in Japan.
41. Sato K, Okabe S, Suzuki Y, Abe T; 2025; *SLEEP Advances*, 6, 10.1093/sleepadvances/zpaf034, Targeted memory reactivation during REM sleep may selectively enhance the late positive potential amplitude in previously encountered negative images: preliminary findings.
42. Sato N, Inada N, Miyazaki Y, Oi H, Inoue M, Kikuchi S, Nakajima S; 2025; *Sleep and Biological Rhythms*, 23, 137–144, Maternal depression and its association with sleep problems and emotional and behavioral problems in preschool children.
43. Lee J, Nagata K, Seol J, Park I, Tokuyama K, Yanagisawa M, Okura T; 2025; *NeuroImage*, 310, 10.1016/j.neuroimage.2025.121105, Multi-task exercise increases delta power in non-rapid eye movement sleep among older female adults: A randomized crossover trial.
44. Miyasaka A, Kanda T, Nonaka N, Terakoshi Y, Cherasse Y, Ishikawa Y, Li Y, Takizawa H, Hirano A, Seita J, et al.; 2025; *Neuron*, 113, 1240–1258.e10, Sequential transitions of male sexual behaviors driven by dual acetylcholine-dopamine dynamics.
45. Asano Y, Tsunoda K, Nagata K, Lim N, Tsuji T, Shibuya K, Okura T; 2025; *Nutrition*, 133, 10.1016/j.nut.2025.112709, Segmental phase angle and the extracellular to intracellular water ratio are associated with functional disability in community-dwelling older adults: A follow-up study of up to 12 years.
46. Kani R, Miyamoto Y, Saito T, Watanabe A, Matsubara K, Ejiri K, Iwagami M, Slipczuk L, Hosseini K, Fujisaki T, et al.; 2025; *International Journal of Cardiology*, 426, 10.1016/j.ijcard.2025.133079, Racial and regional differences in efficacy of sodium-glucose cotransporter 2 inhibitors on cardiorenal outcomes: A systematic review and meta-analysis.
47. Yoshioka T, Yamada D, Hagiwara A, Kajino K, Iio K, Saitoh T, Nagase H, Saitoh A; 2025; *Molecular Psychiatry*, 30, 2038–2048, Delta opioid receptor agonists activate PI3K–mTORC1 signaling in parvalbumin-positive interneurons in mouse infralimbic prefrontal cortex to exert acute antidepressant-like effects.
48. Zhou R, Zhang C, Gan R, Yin X, Wang M, Shi B, Chen L, Wu C, Li Q, Liu Q; 2025; *Sleep*, 48, 10.1093/sleep/zsae313, Transcriptional regulation of daily sleep amount by TCF4-HDAC4-CREB complex in mice.
49. Tsunoda K, Nagata K, Jindo T, Soma Y, Kitano N, Fujii Y, Okura T; 2025; *Transportation Research Part F: Traffic Psychology and Behaviour*, 111, 296–305, Changes in cycling and incidences of functional disability and mortality among older Japanese adults.
50. Nagai M, Noma H, Sakata M, Oi H, Shigematsu J, Matsumura K, Furukawa TA, Nakajima S; 2025; *BMJ Open*, 15, 10.1136/bmjopen-2024-094602, Reasonable access to brief behavioural insomnia treatment among medical and psychiatric outpatients (RABBIT): A multicentre randomised controlled trial protocol.
51. Kuroda H, Yeung SLA, Fujii R, Iwagami M, Goto A; 2025; *Journal of Diabetes Investigation*, 16, 1126–1137, Investigating the non-linear association between sleep duration and type 2 diabetes:

- conventional and Mendelian randomization analyses from the UK Biobank.
52. Hamasaki Y, Iwagami M, Komiyama J, Ito Y, Taniguchi Y, Inokuchi R, Watanabe T, Goto T, Kuroda N, Suzuki A, et al.; 2025; *Journal of the American Medical Directors Association*, 26, 10.1016/j.jamda.2025.105589, Subtypes of Older Adults Starting Long-Term Care in Japan: Application of Latent Class Analysis.
 53. Inokuchi R, Takada T, Iwagami M, Sasaki T, Sugiyama T, Maehara H, Gunshin M, Shinohara K, Tamiya N, Doi K; 2025; *Journal of Emergency Medicine*, 73, 34-41, Developing and Updating Differential Diagnosis Tables in Emergency Medicine for Potentially Life-Threatening Diseases.
 54. Murakami Y, Obuchi M, Kamizawa H, Miyazaki S, Kishimura A, Oketani R, Hiramatsu K, Leproux P, Hayashi Y, Shiraki K, et al.; 2025; *Analytical Sciences*, 41, 697-703, Exploring liquid-liquid phase separation in vitro and in vivo using multimodal nonlinear optical imaging.
 55. Iwagami M, Seol J, Yanagisawa M; 2025; *Sleep Health*, 11, 275-278, Temporal changes in sleep parameters and body mass index after using a sleep-tracking app with gamification.
 56. Sugai T, Nakamura K, Kutsumura N; 2025; *Chemistry Letters*, 54, 10.1093/chemle/upaf105, Practical and unified synthesis of prenylated phenylpropanoids via O-reverse prenylation/Claisen rearrangement.
 57. Li R, Inoue R, Mori H, Hirano A, Sakurai T; 2025; *Journal of Neuroscience*, 45, 10.1523/JNEUROSCI.0065-25.2025, Functional Roles of Gastrin-Releasing Peptide-Producing Neurons in the Suprachiasmatic Nucleus: Insights into Photic Entrainment and Circadian Regulation.
 58. Sun Y, Sakata N, Iwagami M, Yoshie S, Inokuchi R, Hamano J, Tamiya N; 2025; *Journal of General Internal Medicine*, 40, 2481-2484, Regional Disparities in Japan's Home Healthcare Resources: A Retrospective Observational Study Using Nationwide Data from 2014 to 2020.
 59. Chavan P, Kitamura T, Sakaguchi M; 2025; *Neurobiology of Learning and Memory*, 220, 10.1016/j.nlm.2025.108062, Memory processing by hippocampal adult-born neurons.
 60. Yokoyama R, Iwagami M, Shimada K, Kawamura C, Komiyama J, Taniguchi Y, Suzuki A, Sugiyama T, Inomata S, Tamiya N; 2025; *Journal of Opioid Management*, 21, 327-336, Prevalence and risk factors for persistent opioid use after thoracic surgery: A retrospective cohort study in a prefecture of Japan.
 61. Sugawara Y, Iwagami M, Sakurai Y, Kikuchi K, Nangaku M; 2025; *Nephrology*, 30, 10.1111/nep.70093, Coronavirus Disease 2019 Vaccination Booster Effectiveness Based on the 2022 Japanese Dialysis Registry.
 62. Inoue T, Nagata K, Tateoka K, Tokunaga S, Tsuji T, Okura T; 2025; *Geriatrics and Gerontology International*, 25, 946-951, Association of the Digital Trail Making Peg test with traffic crash and near-miss traffic crash experiences among Japanese community-dwelling older drivers.
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 64. Shimada K, Komiyama J, Sugiyama T, Jung-Ho S, Kihara T, Masuda R, Kunisawa S, Iwagami M, Muraki I, Imanaka Y, et al.; 2025; *Journal of Obstetrics and Gynaecology Research*, 51, 10.1111/jog.16370, Changes in proportions of Cesarean section before and during the COVID-19 pandemic in Japan.
 65. Arai Y, Kashiwagi M, Kanda T, Koyanagi I, Sakaguchi M, Yanagisawa M, Koyama Y, Hayashi Y; 2025; *Journal of Neuroscience*, 45, 10.1523/JNEUROSCI.2365-24.2025, Diverse Firing Profiles of Crhbp-positive Neurons in the Dorsal Pons Suggestive of Their Pleiotropic Roles in REM Sleep Regulation in Mice.
 66. Murakami Y, Nuriya M, Hu Z, Tomioka M, Oketani R, Hiramatsu K, Leproux P, Inoko A, Honjoh S, Kano H; 2025; *Analytical Chemistry*, 97, 14160-14167, Label-Free Visualization of Ciliary Rootlets in Mouse Brain.
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 68. Ohmori Y, Kitagawa H, Amagasa T, Matono A; 2025; *World Wide Web*, 28, 10.1007/s11280-025-01355-x, Integration of knowledge bases and external sources using user-defined predicates and adaptive entity linking.
 69. Watanabe A, Aikawa T, Miyamoto Y, Ueyama HA, Fujisaki T, Shoji S, Hosseini K, Slipczuk L, Briasoulis A, Kampaktsis PN, et al.; 2025; *Journal of the American Heart Association*, 14, 10.1161/JAHA.125.041959, Ticagrelor Paradox: Systematic Review and Network Meta-Analysis.

70. Asano Y, Miyachi M, Nanri H, Murakami H, Gando Y, Nakagata T, Yoshida T, Okura T, Yamada Y; 2025; *Physiological Reports*, 13, 10.14814/phy2.70548, Association of bioimpedance-derived parameters with pulse wave velocity: Phase angle, extracellular to intracellular water ratio, and body cell mass.
71. Sugita S, Ito M, Fujisato H, Kanie A, Nakajima S, Farchione T, Kuga H; 2025; *Clinical Psychology and Psychotherapy*, 32, 10.1002/cpp.70161, Authenticity as a Mediator of Change in the Unified Protocol for Transdiagnostic Treatment of Depressive and Anxiety Disorders.
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