



Gen Shinozaki, MD

Associate Professor of Psychiatry and Behavioral Sciences (General Psychiatry and Psychology (Adult))

CLINICAL OFFICE (PRIMARY)

- **Psychiatry**

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Bio

CLINICAL FOCUS

- Psychiatry
- Psychosomatic Medicine
- Consultation Liaison Psychiatry

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Psychiatry and Behavioral Sciences
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- NIH Research Project Grant (R01), National Institute on Aging (2024-2029)
- Wayne Katon Research Award, Academy of Consultation Liaison Psychiatry (2023)
- NIH Research Project Grant (R01), National Institute of Mental Health (2020-2025)
- Visiting Professorship Award, Academy of Consultation Liaison Psychiatry (2019)
- Dlin/Fischer Clinical Research Award, Academy of Consultation Liaison Psychiatry (2018)
- Inventor Award, University of Iowa (2018)
- NSF I-Corp Award, National Science Foundation (2016-2017)
- Inventor Award, University of Iowa (2016)
- Startup Launched Award, University of Iowa (2016)
- NIH Mentored Patient-Oriented Research Career Development Award (K23), National Institute of Mental Health (2015-2019)
- UI Venture Gap Funding Award, University of Iowa Research Foundation (2015-2017)
- Helen Johnson Scholar in Informatics, University of Iowa (2014-2016)
- William Webb Fellowship Award, Academy of Psychosomatic Medicine (2008-2009)

- Research Colloquium for Junior Investigators, American Psychiatric Association (2008, 2009, 2010)
- Departmental Small Grant Award, Mayo Clinic Department of Psychiatry and Psychology (2008)
- Howard P. Rome Resident Academic Writing Award, Mayo Clinic Department of Psychiatry and Psychology (2008)
- Howard P. Rome Resident Grand Rounds Award, Mayo Clinic Department of Psychiatry and Psychology (2008)
- Resident Fellowship Award, Academy of Occupational and Organization Psychiatry (2007)
- Scholarship Award, Noguchi Medical Institute (2004-2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Distinguished Fellow, American Psychiatric Association (2018 - present)
- Fellow, Academy of Consultation Liaison Psychiatry (2013 - present)
- Research Committee, Academy of Consultation Liaison Psychiatry (2011 - present)
- Research Committee, American Delirium Society (2019 - present)
- Editorial Board, Psychiatry and Clinical Neurosciences (2018 - present)
- Editorial Board, PLOS One (2018 - present)

PROFESSIONAL EDUCATION

- Fellowship: Mayo Clinic College of Medicine and Science Rochester (2009) MN
- Residency: Mayo Clinic College of Medicine and Science Rochester (2008) MN
- Board Certification: Psychosomatic Med/Consultation Liaison Psychiatry, American Board of Psychiatry and Neurology (2022)
- Board Certification: Psychiatry, American Board of Psychiatry and Neurology (2009)
- Internship: US Naval Hospital Okinawa (2003) Japan
- Medical Education: University of Yamanashi (2002) Japan

LINKS

- Lab website: <https://med.stanford.edu/shinozaki.html>

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Bun Aoyama, Ilgin Genc

Publications

PUBLICATIONS

- **Direct Evidence of Human Microglial Function in Delirium Pathophysiology**
Shinozaki, G.
ELSEVIER SCIENCE INC.2025
- **Bedside EEG for rapid diagnosis of delirium.** *Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics*
Yamanashi, T., Nishiguchi, T., Shinozaki, G.
2025: e00768
- **Glial Contribution to the Pathogenesis of Post-Operative Delirium Revealed by Multi-omic Analysis of Brain Tissue from Neurosurgery Patients.** *bioRxiv : the preprint server for biology*
Ishii, T., Wang, T., Shibata, K., Nishitani, S., Yamanashi, T., Wahba, N. E., Seki, T., Thompson, K. J., Yamanishi, K., Nishiguchi, T., Shimura, A., Aoyama, B., Gorantla, et al

2025

- **LPS-induced delirium-like behavior and microglial activation in mice correlate with bispectral electroencephalography (BSEEG).** *The journals of gerontology. Series A, Biological sciences and medical sciences*
Nishiguchi, T., Yamanishi, K., Gorantla, N., Shimura, A., Seki, T., Ishii, T., Aoyama, B., Malicoat, J. R., Phuong, N. J., Dye, N. J., Yamanashi, T., Iwata, M., Shinozaki, et al
2024
- **Discovery of novel protective agents for infection-related delirium through bispectral electroencephalography.** *Translational psychiatry*
Nishiguchi, T., Yamanishi, K., Patel, S., Malicoat, J. R., Phuong, N. J., Seki, T., Ishii, T., Aoyama, B., Shimura, A., Gorantla, N., Yamanashi, T., Iwata, M., Pieper, et al
2024; 14 (1): 413
- **Epigenetic signals associated with delirium replicated across four independent cohorts.** *Translational psychiatry*
Nishizawa, Y., Thompson, K. C., Yamanashi, T., Wahba, N. E., Saito, T., Marra, P. S., Nagao, T., Nishiguchi, T., Shibata, K., Yamanishi, K., Hughes, C. G., Pandharipande, P., Cho, et al
2024; 14 (1): 275
- **The bispectral electroencephalography (BSEEG) method quantifies post-operative delirium-like states in young and aged male mice after head mount implantation surgery.** *The journals of gerontology. Series A, Biological sciences and medical sciences*
Nishiguchi, T., Shibata, K., Yamanishi, K., Dittrich, M. N., Islam, N. Y., Patel, S., Phuong, N. J., Marra, P. S., Malicoat, J. R., Seki, T., Nishizawa, Y., Yamanashi, T., Iwata, et al
2024
- **Bispectral EEG (BSEEG) Algorithm Captures High Mortality Risk Among 1,077 Patients: Its Relationship to Delirium Motor Subtype.** *The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry*
Nishizawa, Y., Yamanashi, T., Saito, T., Marra, P., Crutchley, K. J., Wahba, N. E., Malicoat, J., Shibata, K., Nishiguchi, T., Lee, S., Cho, H. R., Kanazawa, T., Shinozaki, et al
2023
- **Metformin use history and genome-wide DNA methylation profile: potential molecular mechanism for aging and longevity** *AGING-US*
Marra, P. S., Yamanashi, T., Crutchley, K. J., Wahba, N. E., Anderson, Z. M., Modukuri, M., Chang, G., Tran, T., Iwata, M., Cho, H., Shinozaki, G.
2023; 15 (3): 601-616
- **The potential benefit of metformin to reduce delirium risk and mortality: a retrospective cohort study** *AGING-US*
Yamanashi, T., Anderson, Z. M., Modukuri, M., Chang, G., Tran, T., Marra, P. S., Wahba, N. E., Crutchley, K. J., Sullivan, E. J., Jellison, S. S., Comp, K. R., Akers, C. C., Meyer, et al
2022; 14 (22): 8927-8943
- **The genome-wide DNA methylation profiles among neurosurgery patients with and without post-operative delirium.** *Psychiatry and clinical neurosciences*
Yamanashi, T., Crutchley, K. J., Wahba, N. E., Nagao, T., Marra, P. S., Akers, C. C., Sullivan, E. J., Iwata, M., Howard, M. A., Cho, H. R., Kawasaki, H., Hughes, C. G., Pandharipande, et al
2022
- **DNA methylation in the inflammatory genes after neurosurgery and diagnostic ability of post-operative delirium.** *Translational psychiatry*
Yamanashi, T., Nagao, T., Wahba, N. E., Marra, P. S., Crutchley, K. J., Meyer, A. A., Andreasen, A. J., Hellman, M. M., Jellison, S. S., Hughes, C. G., Pandharipande, P. P., Howard Iii, M. A., Kawasaki, et al
2021; 11 (1): 627
- **Evaluation of point-of-care thumb-size bispectral electroencephalography device to quantify delirium severity and predict mortality.** *The British journal of psychiatry : the journal of mental science*
Yamanashi, T., Crutchley, K. J., Wahba, N. E., Sullivan, E. J., Comp, K. R., Kajitani, M., Tran, T., Modukuri, M. V., Marra, P. S., Herrmann, F. M., Chang, G., Anderson, Z. M., Iwata, et al
1800: 1-8
- **Mortality prediction by bispectral electroencephalography among 502 patients: its role in dementia.** *Brain communications*
Saito, T., Malicoat, J. R., Leyden, L. R., Williams, J. C., Jellison, S. S., Long, H., Hellman, M. M., Crutchley, K. J., Anderson, Z. E., Lo, D., Modukuri, M. V., Schacher, C. J., Yoshino, et al
2021; 3 (2): fcab037
- **Topological data analysis (TDA) enhances bispectral EEG (BSEEG) algorithm for detection of delirium.** *Scientific reports*

- Yamanashi, T., Kajitani, M., Iwata, M., Crutchley, K. J., Marra, P., Malicoat, J. R., Williams, J. C., Leyden, L. R., Long, H., Lo, D., Schacher, C. J., Hiraoka, K., Tsunoda, et al
2021; 11 (1): 304
- **Bispectral EEG (BSEEG) quantifying neuro-inflammation in mice induced by systemic inflammation: A potential mouse model of delirium.** *Journal of psychiatric research*
Yamanashi, T., Malicoat, J. R., Steffen, K. T., Zarei, K., Li, R., Purnell, B. S., Najafi, A., Saito, K., Singh, U., Toth, B. A., Lee, S., Dailey, M. E., Cui, et al
2021; 133: 205-211
 - **New Cutoff Scores for Delirium Screening Tools to Predict Patient Mortality.** *Journal of the American Geriatrics Society*
Yamanashi, T., Iwata, M., Crutchley, K. J., Sullivan, E. J., Malicoat, J. R., Anderson, Z. M., Marra, P. S., Chang, G., Kaneko, K., Shinozaki, E., Lee, S., Shinozaki, G.
2021; 69 (1): 140-147
 - **Epigenetics of neuroinflammation: Immune response, inflammatory response and cholinergic synaptic involvement evidenced by genome-wide DNA methylation analysis of delirious inpatients.** *Journal of psychiatric research*
Saito, T., Toda, H., Duncan, G. N., Jellison, S. S., Yu, T., Klisares, M. J., Daniel, S., Andreasen, A. J., Leyden, L. R., Hellman, M. M., Shinozaki, E., Lee, S., Yoshino, et al
2020; 129: 61-65
 - **Identification of Patients With High Mortality Risk and Prediction of Outcomes in Delirium by Bispectral EEG.** *The Journal of clinical psychiatry*
Shinozaki, G., Bormann, N. L., Chan, A. C., Zarei, K., Sparr, N. A., Klisares, M. J., Jellison, S. S., Heinzman, J. T., Dahlstrom, E. B., Duncan, G. N., Gaul, L. N., Wanzek, R. J., Cramer, et al
2019; 80 (5)
 - **Genome-wide DNA methylation comparison between live human brain and peripheral tissues within individuals.** *Translational psychiatry*
Braun, P. R., Han, S., Hing, B., Nagahama, Y., Gaul, L. N., Heinzman, J. T., Grossbach, A. J., Close, L., Dlouhy, B. J., Howard, M. A., Kawasaki, H., Potash, J. B., Shinozaki, et al
2019; 9 (1): 47
 - **Delirium detection by a novel bispectral electroencephalography device in general hospital** *PSYCHIATRY AND CLINICAL NEUROSCIENCES*
Shinozaki, G., Chan, A. C., Sparr, N. A., Zarei, K., Gaul, L. N., Heinzman, J. T., Robles, J., Yuki, K., Chronis, T. J., Ando, T., Wong, T., Sabbagh, S., Weckmann, et al
2018; 72 (12): 856–63
 - **Epigenetics of Delirium and Aging: Potential Role of DNA Methylation Change on Cytokine Genes in Glia and Blood Along With Aging.** *Frontiers in aging neuroscience*
Shinozaki, G., Braun, P. R., Hing, B. W., Ratanatharathorn, A., Klisares, M. J., Duncan, G. N., Jellison, S. S., Heinzman, J. T., Nagahama, Y., Close, L., Sabbagh, S., Dlouhy, B. J., Howard, et al
2018; 10: 311
 - **Relationship between FKBP5 polymorphisms and depression symptoms among kidney transplant recipients.** *Depression and anxiety*
Shinozaki, G., Jowsey, S., Amer, H., Biernacka, J., Colby, C., Walker, D., Black, J., Rundell, J., Stegall, M., Mrazek, D. A.
2011; 28 (12): 1111-8
 - **A new interaction between SLC6A4 variation and child abuse is associated with resting heart rate.** *Depression and anxiety*
Shinozaki, G., Romanowicz, M., Kung, S., Mrazek, D. A.
2011; 28 (3): 227-33
 - **Associations of Metformin Use History With Delirium and Mortality in Patients With Type 2 Diabetes Mellitus: A Retrospective Cohort Study** *JOURNAL OF THE ACADEMY OF CONSULTATION-LIAISON PSYCHIATRY*
Seki, T., Yamanashi, T., Shimura, A., Chang, G., Santiago, T., Phuong, N., Nguyen, H., Gorantla, N., Nishiguchi, T., Yamanishi, K., Ishii, T., Aoyama, B., Inoue, et al
2025; 66 (6): 471-481
 - **Genome-Wide DNA Methylation Profiles of Long-Term Cognitive Decline after Delirium in Intensive Care Unit Patients.** *Anesthesia and analgesia*
Nishizawa, Y., Yamanashi, T., Qureshi, S. S., Seki, T., Yamanishi, K., Nishiguchi, T., Kanazawa, T., Iwata, M., Hughes, C. G., Pandharipande, P., Shinozaki, G.

2025

- **The age-related susceptibility to postoperative delirium quantified by bispectral electroencephalography correlates with postoperative delirium-like behavior in mice.** *PCN reports : psychiatry and clinical neurosciences*
Nishiguchi, T., Yamanishi, K., Shimura, A., Seki, T., Ishii, T., Aoyama, B., Gorantla, N., Nguyen, H. D., Phuong, N. J., Yamanashi, T., Iwata, M., Shinozaki, G.
2025; 4 (3): e70142
- **Associations of metformin use history with delirium and mortality in patients with type 2 diabetes mellitus: A retrospective cohort study.** *Journal of the Academy of Consultation-Liaison Psychiatry*
Seki, T., Yamanashi, T., Shimura, A., Chang, G., Santiago, T. A., Phuong, N. J., Nguyen, H. D., Gorantla, N., Nishiguchi, T., Yamanishi, K., Ishii, T., Aoyama, B., Inoue, et al
2025
- **The Impact of Cataract Surgery on Potential Delirium Risk in Older Patients**
Koga, Y., Kitazawa, K., Shimura, A., Nakazawa, T., Seki, T., Fukuoka, H., Tanaka, H., Numa, K., Shinozaki, G., Sotozono, C.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025
- **Association of postoperative delirium with visual acuity after ophthalmic surgeries under local anesthesia.** *Japanese journal of ophthalmology*
Koga, Y., Kitazawa, K., Shinozaki, G., Yoshii, K., Hughes, J. B., Yamashita, Y., Kojima, K., Ueno, M., Kinoshita, S., Sotozono, C.
2025
- **The Genome-wide DNA methylation changes in gastrointestinal surgery patients with and without postoperative delirium: Evidence of immune process in its pathophysiology.** *Journal of psychiatric research*
Nishizawa, Y., Yamanashi, T., Nishiguchi, T., Kajitani, N., Miura, A., Matsuo, R., Tanio, A., Yamamoto, M., Sakamoto, T., Fujiwara, Y., Thompson, K., Malicoat, J., Yamanishi, et al
2024; 177: 249-255
- **A web-based delirium detection application using bispectral electroencephalography (BSEEG).** *General hospital psychiatry*
Shimura, A., Seki, T., Nishiguchi, T., Yamanishi, K., Ishii, T., Aoyama, B., Nguyen, H. D., Gorantla, N., Inoue, T., Shinozaki, G.
2024
- **Genome-wide DNA methylation analysis in female veterans with military sexual trauma and comorbid PTSD/MDD.** *Journal of affective disorders*
Marra, P., Seki, T., Nishizawa, Y., Chang, G., Yamanishi, K., Nishiguchi, T., Shibata, K., Braun, P., Shinozaki, G.
2024
- **Correlation of telomere length in brain tissue with peripheral tissues in living human subjects.** *Frontiers in molecular neuroscience*
Carver, A. J., Hing, B., Elser, B. A., Lussier, S. J., Yamanashi, T., Howard, M. A., Kawasaki, H., Shinozaki, G., Stevens, H. E.
2024; 17: 1303974
- **NSAIDs use history: impact on the genome-wide DNA methylation profile and possible mechanisms of action.** *Clinical and experimental medicine*
Marra, P. S., Nishizawa, Y., Yamanashi, T., Sullivan, E. J., Comp, K. R., Crutchley, K. J., Wahba, N. E., Shibata, K., Nishiguchi, T., Yamanishi, K., Noiseux, N. O., Karam, M. D., Shinozaki, et al
2023
- **Anti-inflammatory medication use associated with reduced delirium risk and all-cause mortality: A retrospective cohort study.** *Journal of psychosomatic research*
Yamanashi, T., Sullivan, E. J., Comp, K. R., Nishizawa, Y., Akers, C. C., Chang, G., Modukuri, M., Tran, T., Anderson, Z. E., Marra, P. S., Crutchley, K. J., Wahba, N. E., Iwata, et al
2023; 168: 111212
- **Cross-tissue correlations of genome-wide DNA methylation in Japanese live human brain and blood, saliva, and buccal epithelial tissues.** *Translational psychiatry*
Nishitani, S., Isozaki, M., Yao, A., Higashino, Y., Yamauchi, T., Kidoguchi, M., Kawajiri, S., Tsunetoshi, K., Neish, H., Imoto, H., Arishima, H., Kodera, T., Fujisawa, et al
2023; 13 (1): 72
- **Metformin use history and genome-wide DNA methylation profile: potential molecular mechanism for aging and longevity.** *Aging*
Marra, P. S., Yamanashi, T., Crutchley, K. J., Wahba, N. E., Anderson, Z. M., Modukuri, M., Chang, G., Tran, T., Iwata, M., Cho, H. R., Shinozaki, G.

2023; 15

- **The potential benefit of metformin to reduce delirium risk and mortality: a retrospective cohort study.** *Aging*
Yamanashi, T., Anderson, Z. E., Modukuri, M., Chang, G., Tran, T., Marra, P. S., Wahba, N. E., Crutchley, K. J., Sullivan, E. J., Jellison, S. S., Comp, K. R., Akers, C. C., Meyer, et al
2022; 14
- **Genome-wide DNA methylation analysis of post-operative delirium with brain, blood, saliva, and buccal samples from neurosurgery patients.** *Journal of psychiatric research*
Wahba, N. E., Nishizawa, Y., Marra, P. S., Yamanashi, T., Crutchley, K. J., Nagao, T., Shibata, K., Nishiguchi, T., Cho, H., Howard, M. A., Kawasaki, H., Hefli, M., Kanazawa, et al
2022; 156: 245-251
- **Clinical Markers Associated with Risk of Suicide or Drug Overdose Among Heavy Smokers - A Longitudinal Follow-Up Study of the COPD Gene Cohort.** *Chest*
Adviento, B. A., Regan, E. A., Make, B. J., Han, M. K., Foreman, M. G., Iyer, A. S., Bhatt, S. P., Kim, V., Bon, J., Soler, X., Kinney, G. L., Hanania, N. A., Lowe, et al
2022
- **Deep learning predicts DNA methylation regulatory variants in the human brain and elucidates the genetics of psychiatric disorders.** *Proceedings of the National Academy of Sciences of the United States of America*
Zhou, J., Chen, Q., Braun, P. R., Perzel Mandell, K. A., Jaffe, A. E., Tan, H. Y., Hyde, T. M., Kleinman, J. E., Potash, J. B., Shinozaki, G., Weinberger, D. R., Han, S.
2022; 119 (34): e2206069119
- **Mortality among patients with sepsis associated with a bispectral electroencephalography (BSEEG) score.** *Scientific reports*
Yamanashi, T., Marra, P. S., Crutchley, K. J., Wahba, N. E., Malicoat, J. R., Sullivan, E. J., Akers, C. C., Nicholson, C. A., Herrmann, F. M., Karam, M. D., Noiseux, N. O., Kaneko, K., Shinozaki, et al
2021; 11 (1): 14211
- **Stress increases blood beta-hydroxybutyrate levels and prefrontal cortex NLRP3 activity jointly in a rodent model.** *Neuropsychopharmacology reports*
Nishiguchi, T., Iwata, M., Kajitani, N., Miura, A., Matsuo, R., Murakami, S., Nakada, Y., Pu, S., Shimizu, Y., Tsubakino, T., Yamanashi, T., Shinozaki, G., Tsubota, et al
2021; 41 (2): 159-167
- **Increased mortality in patients with standard EEG findings of 'diffuse slowing'.** *Annals of clinical psychiatry : official journal of the American Academy of Clinical Psychiatrists*
Wanzek, R., Bormann, N., Shabbir, Y., Saito, T., Yamada, T., Shinozaki, G.
2021; 33 (2): 93-100
- **DNA methylation in the TNF-alpha gene decreases along with aging among delirium inpatients.** *Neurobiology of aging*
Yamanashi, T., Saito, T., Yu, T., Alario, A., Comp, K., Crutchley, K. J., Sullivan, E. J., Anderson, Z. M., Marra, P. S., Chang, G., Wahba, N. E., Jellison, S. S., Meyer, et al
2021; 105: 310-317
- **Beta-hydroxybutyrate, an endogenous NLRP3 inflammasome inhibitor, attenuates anxiety-related behavior in a rodent post-traumatic stress disorder model.** *Scientific reports*
Yamanashi, T., Iwata, M., Shibushita, M., Tsunetomi, K., Nagata, M., Kajitani, N., Miura, A., Matsuo, R., Nishiguchi, T., Kato, T. A., Setoyama, D., Shirayama, Y., Watanabe, et al
2020; 10 (1): 21629
- **Epigenome-wide meta-analysis of PTSD across 10 military and civilian cohorts identifies methylation changes in AHRR.** *Nature communications*
Smith, A. K., Ratanatharathorn, A., Maihofer, A. X., Naviaux, R. K., Aiello, A. E., Amstadter, A. B., Ashley-Koch, A. E., Baker, D. G., Beckham, J. C., Boks, M. P., Bromet, E., Dennis, M., Galea, et al
2020; 11 (1): 5965
- **The relationship between DNA methylation in neurotrophic genes and age as evidenced from three independent cohorts: differences by delirium status.** *Neurobiology of aging*
Saito, T., Braun, P. R., Daniel, S., Jellison, S. S., Hellman, M., Shinozaki, E., Lee, S., Cho, H. R., Yoshino, A., Toda, H., Shinozaki, G.
2020; 94: 227-235

- **Effect of interaction between a specific subtype of child abuse and the FKBP5 rs1360780 SNP on DNA methylation among patients with bipolar disorder.** *Journal of affective disorders*
Saito, T., Shinozaki, G., Koga, M., Tanichi, M., Takeshita, S., Nakagawa, R., Nagamine, M., Cho, H. R., Morimoto, Y., Kobayashi, Y., Yoshino, A., Toda, H.
2020; 272: 417-422
- **Bispectral EEG (BSEEG) to assess arousal after electro-convulsive therapy (ECT).** *Psychiatry research*
Zarei, K., Sparr, N. A., Trapp, N. T., Neuhaus, E. D., Cromwell, J. W., Boes, A. D., Shinozaki, G.
2020; 285: 112811
- **Genome-wide DNA methylation investigation of glucocorticoid exposure within buccal samples.** *Psychiatry and clinical neurosciences*
Braun, P. R., Tanaka-Sahker, M., Chan, A. C., Jellison, S. S., Klisares, M. J., Hing, B. W., Shabbir, Y., Gaul, L. N., Nagahama, Y., Robles, J., Heinzman, J. T., Sabbagh, S., Cramer, et al
2019; 73 (6): 323-330
- **The point-of-care EEG for delirium detection in the emergency department.** *The American journal of emergency medicine*
Lee, S., Yuki, K., Chan, A., Cromwell, J., Shinozaki, G.
2019; 37 (5): 995-996
- **Symptoms of anxiety and depression and use of anxiolytic-hypnotics and antidepressants in current and former smokers with and without COPD - A cross sectional analysis of the COPDGene cohort.** *Journal of psychosomatic research*
Iyer, A. S., Holm, K. E., Bhatt, S. P., Kim, V., Kinney, G. L., Wamboldt, F. S., Jacobs, M. R., Regan, E. A., Armstrong, H. F., Lowe, K. E., Martinez, C. H., Dransfield, M. T., Foreman, et al
2019; 118: 18-26
- **Pharmacokinetic-Pharmacodynamic interaction associated with venlafaxine-XR remission in patients with major depressive disorder with history of citalopram / escitalopram treatment failure.** *Journal of affective disorders*
Ahmed, A. T., Biernacka, J. M., Jenkins, G., Rush, A. J., Shinozaki, G., Veldic, M., Kung, S., Bobo, W. V., Hall-Flavin, D. K., Weinsilbom, R. M., Wang, L., Frye, M. A.
2019; 246: 62-68
- **GWAS and systems biology analysis of depressive symptoms among smokers from the COPDGene cohort.** *Journal of affective disorders*
Heinzman, J. T., Hoth, K. F., Cho, M. H., Sakornsakolpat, P., Regan, E. A., Make, B. J., Kinney, G. L., Wamboldt, F. S., Holm, K. E., Bormann, N., Robles, J., Kim, V., Iyer, et al
2019; 243: 16-22
- **Integrated Inpatient Medical and Psychiatric Care: Experiences of 5 Institutions.** *Annals of internal medicine*
Chan, A. C., Burke, C. A., Coffey, E. M., Hilden, D. R., Coira, D. L., Warner-Cohen, J., Grady, M., Muskin, P. R., Shinozaki, G.
2018; 168 (11): 815-817
- **Relationship of genetic variation in the serotonin transporter gene (SLC6A4) and congenital and acquired cardiovascular diseases.** *Genetic testing and molecular biomarkers*
Moyer, A. M., Walker, D. L., Avula, R., Lapid, M. I., Kung, S., Bryant, S. C., Edwards, K. K., Black, J. L., Karpyak, V. M., Shinozaki, G., Jowsey-Gregoire, S. G., Ehlers, S. L., Romanowicz, et al
2015; 19 (3): 115-23
- **CYP2C19 variation, not citalopram dose nor serum level, is associated with QTc prolongation.** *Journal of psychopharmacology (Oxford, England)*
Kumar, Y., Kung, S., Shinozaki, G.
2014; 28 (12): 1143-8
- **New developments in the genetics of bipolar disorder.** *Current psychiatry reports*
Shinozaki, G., Potash, J. B.
2014; 16 (11): 493
- **Biological pathways, candidate genes, and molecular markers associated with quality-of-life domains: an update.** *Quality of life research : an international journal of quality of life aspects of treatment, care and rehabilitation*
Sprangers, M. A., Thong, M. S., Bartels, M., Barsevick, A., Ordoñana, J., Shi, Q., Wang, X. S., Klepstad, P., Wierenga, E. A., Singh, J. A., Sloan, J. A.
2014; 23 (7): 1997-2013

- **Treatment outcomes of depression: the pharmacogenomic research network antidepressant medication pharmacogenomic study.** *Journal of clinical psychopharmacology*
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