Stanford

Shota Nishitani

Basic Life Science Research Associate, Psych/General Psychiatry and Psychology (Adult)

SUPERVISORS

- Gen Shinozaki

Bio

HONORS AND AWARDS

- Dean's Award for Excellence, University of Fukui School of Medical Sciences (2021)
- 2016 Top Poster Award Finalist, Society of Biological Psychiatry (2016)
- Young scientist award, 2nd World Federation of Societies of Biological Psychiatry, Asia-Pacific Congress (2008)
- Best poster award, 28th Japanese society of Biological Psychiatry, Annual Meeting (2006)

EDUCATION AND CERTIFICATIONS

- PhD, Nagasaki University, Nagasaki, JPN , Medicine (2009)
- MS, Yokohama City University, Kanagawa, JPN , Medical Science (2003)
- BS, Seikei University, Tokyo, JPN , Engineering (2001)

SERVICE, VOLUNTEER, AND COMMUNITY WORK

- Associate Editor (2/1/2024)
- Editorial Board Member (2/1/2024)
- Clinical Developmental Psychologist (4/1/2013)

Professional

WORK EXPERIENCE

- Assistant Professor - University of Yamanashi (10/1/2024 - 1/31/2025)
- Section Chief - National Institute of Mental Health, National Center of Neurology and Psychiatry (4/1/2024 - 9/30/2024)
- Assistant Professor / Lecturer - University of Fukui (6/1/2019 - 3/31/2024)
- Visiting Assistant Professor - Emory University (5/21/2015 - 5/31/2019)
- Assistant Professor - Nagasaki University (4/1/2006 - 3/31/2017)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, Japanese Organization of Clinical Developmental Psychologists (2013 - present)
- Member, The Japan Neuroscience Society (2005 - present)
- Member, Japanese Society of Biological Psychiatry (2005 - present)

Publications

PUBLICATIONS

- **Non-linear age-related change in human Interleukin-11 and the receptor subunit alpha DNA methylation** *BIOCHEMISTRY AND BIOPHYSICS REPORTS*

  Shimura, A., Dwaraka, V. B., Yamanishi, K., Seki, T., Nishiguchi, T., Aoyama, B., Ishii, T., Phuong, N., Gorantla, N., Nguyen, H., Santiago, T., Nishitani, S., Smith, et al

  2026; 46

- **Non-linear age-related change in human Interleukin-11 and the receptor subunit alpha DNA methylation.** *Biochemistry and biophysics reports*

  Shimura, A., Dwaraka, V. B., Yamanishi, K., Seki, T., Nishiguchi, T., Aoyama, B., Ishii, T., Phuong, N. J., Gorantla, N., Nguyen, H. D., Santiago, T., Nishitani, S., Smith, et al

  2026; 46: 102546

- **Zuranolone mitigates delirium-like bispectral EEG changes, behavioral deficits, and neuroinflammation across surgical and inflammatory mouse models and age groups.** *bioRxiv : the preprint server for biology*

  Aoyama, B., Nishitani, S., Yamanishi, K., Nguyen, H. D., Sakuma, R., Ishii, T., Ikeda, Y., Nishiguchi, T., Genc, I., Phuong, N. J., Gorantla, N., Seki, T., Shimura, et al

  2026

- **Postoperative delirium in hip fracture patients linked to epigenetic alterations in inflammatory and immune pathways: a genome-wide DNA methylation study.** *Translational psychiatry*

  Seki, T., Nishitani, S., Nishizawa, Y., Yamanishi, K., Shimura, A., Nishiguchi, T., Ishii, T., Aoyama, B., Santiago, T. A., Phuong, N. J., Gorantla, N., Nguyen, H. D., Takeda, et al

  2026

- **Generating Biologically Relevant Subtypes of Autism Spectrum Disorder with differential responses to Acute Oxytocin Administration in a Randomized Trial using Random Forest Models and K-means Clustering.** *medRxiv : the preprint server for health sciences*

  Vento, C. D., Hatfield-King, J., Gopinath, K., Nishitani, S., Morrier, M., Ousley, O., Cubells, J. F., Young, L. J., Andari, E.

  2026

- **Multi-epigenome-wide analyses and meta-analysis of child maltreatment in judicial autopsies and intervened children and adolescents.** *Molecular psychiatry*

  Nishitani, S., Fujisawa, T. X., Takiguchi, S., Yao, A., Murata, K., Hiraoka, D., Mizuno, Y., Ochiai, K., Kawata, N. Y., Makita, K., Saito, D. N., Mizushima, S., Suzuki, et al

  2025

- **Random forest and Shapley Additive exPlanations predict oxytocin targeted effects on brain functional networks involved in salience and sensorimotor processing, in a randomized clinical trial in autism** *NEUROPSYCHOPHARMACOLOGY*

  Andari, E., Gopinath, K., O'Leary, E., Caceres, G. A., Nishitani, S., Smith, A. K., Ousley, O., Rilling, J. K., Cubells, J. F., Young, L. J.

  2025: 1385-1394

- **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

- **Effects of childhood maltreatment on mothers' empathy and parenting styles in intergenerational transmission** *SCIENTIFIC REPORTS*

  Kawaguchi, Y., Kurata, S., Kawata, N. Y. S., Yao, A., Nishitani, S., Fujisawa, T. X., Tomoda, A.

  2025; 15 (1): 7787

- **Behavioral and emotional difficulties in maltreated children: Associations with epigenetic clock changes and visual attention to social cues** *PLOS ONE*

  Ochiai, K., Nishitani, S., Yao, A., Hiraoka, D., Kawata, N. Y. S., Suzuki, S., Fujisawa, T. X., Tomoda, A.

  2025; 20 (5): e0321952

- **Assessing childhood maltreatment exposure using the child behavior checklist.** *Frontiers in child and adolescent psychiatry*

  Makino, T., Nishitani, S., Takiguchi, S., Yao, A., Fujisawa, T. X., Tomoda, A.

  2025; 4: 1493432

- **Subclinical structural atypicality of retinal thickness and its association with gray matter volume in the visual cortex of maltreated children** *SCIENTIFIC REPORTS*
  Yao, A., Nishitani, S., Yamada, Y., Oshima, H., Sugihara, Y., Makita, K., Takiguchi, S., Kawata, N. Y. S., Fujisawa, T. X., Okazawa, H., Inatani, M., Tomoda, A.
  2024; 14 (1): 11465

- **Brain structures and functional connectivity in neglected children with no other types of maltreatment** *NEUROIMAGE*
  Kawata, N. Y. S., Nishitani, S., Yao, A., Takiguchi, S., Mizuno, Y., Mizushima, S., Makita, K., Hamamura, S., Saito, D. N., Okazawa, H., Fujisawa, T. X., Tomoda, A.
  2024; 292: 120589

- **The neurobiological effects of childhood maltreatment on brain structure, function, and attachment** *EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE*
  Tomoda, A., Nishitani, S., Takiguchi, S., Fujisawa, T. X., Sugiyama, T., Teicher, M. H.
  2024

- **Diffusion tensor imaging of white-matter structural features of maltreating mothers and their associations with intergenerational chain of childhood abuse** *SCIENTIFIC REPORTS*
  Kurata, S., Nishitani, S., Kawata, N. Y. S., Yao, A., Fujisawa, T. X., Okazawa, H., Tomoda, A.
  2024; 14 (1): 5671

- **Data science using the human epigenome for predicting multifactorial diseases and symptoms** *EPIGENOMICS*
  Nishitani, S., Smith, A. K., Tomoda, A., Fujisawa, T. X.
  2024; 16 (5): 273-276

- **Evaluation of the pooled sample method in Infinium MethylationEPIC BeadChip array by comparison with individual samples** *CLINICAL EPIGENETICS*
  Nishitani, S., Fujisawa, T. X., Yao, A., Takiguchi, S., Tomoda, A.
  2023; 15 (1): 138

- **Validity and reliability of the Japanese versions of the coronavirus anxiety scale for adolescents and obsession with COVID-19 scale for adolescents** *PEERJ*
  Makino, T., Ide, S., Shiino, T., Hiraoka, D., Ishibashi, S., Suzuki, F., Nishitani, S.
  2023; 11: e15710

- **Child Developmental MRI (CDM) project: protocol for a multi-centre, cross-sectional study on elucidating the pathophysiology of attention-deficit/hyperactivity disorder and autism spectrum disorder through a multi-dimensional approach** *BMJ OPEN*
  Yamashita, M., Kagitani-Shimono, K., Hirano, Y., Hamatani, S., Nishitani, S., Yao, A., Kurata, S., Kosaka, H., Jung, M., Yoshida, T., Sasaki, T., Matsumoto, K., Kato, et al
  2023; 13 (6): e070157

- **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

- **Endogenous oxytocin levels in extracted saliva elevates during breastfeeding correlated with lower postpartum anxiety in primiparous mothers** *BMC PREGNANCY AND CHILDBIRTH*
  Nagahashi-Araki, M., Tasaka, M., Takamura, T., Eto, H., Sasaki, N., Fujita, W., Miyazaki, A., Morifuji, K., Honda, N., Miyamura, T., Nishitani, S.
  2022; 22 (1): 711

- **Epigenetic Clock Deceleration and Maternal Reproductive Efforts: Associations With Increasing Gray Matter Volume of the Precuneus** *FRONTIERS IN GENETICS*
  Nishitani, S., Kasaba, R., Hiraoka, D., Shimada, K., Fujisawa, T. X., Okazawa, H., Tomoda, A.
  2022; 13: 803584

- **The effects of epigenetic age and its acceleration on surface area, cortical thickness, and volume in young adults** *CEREBRAL CORTEX*
  Cheong, Y., Nishitani, S., Yu, J., Habata, K., Kamiya, T., Shiotsu, D., Omori, I. M., Okazawa, H., Tomoda, A., Kosaka, H., Jung, M.
  2022; 32 (24): 5654-5663

- **Association of Epigenetic Differences Screened in a Few Cases of Monozygotic Twins Discordant for Attention-Deficit Hyperactivity Disorder With Brain Structures** *FRONTIERS IN NEUROSCIENCE*
  Fujisawa, T. X., Nishitani, S., Makita, K., Yao, A., Takiguchi, S., Hamamura, S., Shimada, K., Okazawa, H., Matsuzaki, H., Tomoda, A.
  2022; 15: 799761
- **Effects of intranasal oxytocin on neural reward processing in children and adolescents with reactive attachment disorder: A randomized controlled trial.** *Frontiers in child and adolescent psychiatry*
  Takiguchi, S., Makita, K., Fujisawa, T. X., Nishitani, S., Tomoda, A.
  2022; 1: 1056115
- **Influence of the COVID-19 Pandemic on Parenting Stress Across Asian Countries: A Cross-National Study** *FRONTIERS IN PSYCHOLOGY*
  Kurata, S., Hiraoka, D., Ahmad Adlan, A., Jayanath, S., Hamzah, N., Ahmad-Fauzi, A., Fujisawa, T. X., Nishitani, S., Tomoda, A.
  2021; 12: 782298
- **A multi-modal MRI analysis of brain structure and function in relation to OXT methylation in maltreated children and adolescents** *TRANSLATIONAL PSYCHIATRY*
  Nishitani, S., Fujisawa, T. X., Hiraoka, D., Makita, K., Takiguchi, S., Hamamura, S., Yao, A., Shimada, K., Smith, A. K., Tomoda, A.
  2021; 11 (1): 589
- **Pathways linking adverse environments to emerging adults' substance abuse and depressive symptoms: A prospective analysis of rural African American men** *DEVELOPMENT AND PSYCHOPATHOLOGY*
  Kogan, S. M., Bae, D., Cho, J., Smith, A. K., Nishitani, S.
  2021; 33 (4): 1496-1506
- **Epigenetic prediction of 17β-estradiol and relationship to trauma-related outcomes in women.** *Comprehensive psychoneuroendocrinology*
  Hack, L. M., Nishitani, S., Knight, A. K., Kilaru, V., Maddox, S. A., Seligowski, A. V., Jovanovic, T., Ressler, K. J., Smith, A. K., Michopoulos, V.
  2021; 6: 100045
- **Mismatch negativity of preschool children at risk of developing mental health problems** *NEUROPSYCHOPHARMACOLOGY REPORTS*
  Aoi, T., Fujisawa, T. X., Nishitani, S., Tomoda, A.
  2021; 41 (2): 185-191
- **Epigenetic modification of the oxytocin gene is associated with gray matter volume and trait empathy in mothers (Withdrawn Publication. See vol. 144, 2022)** *PSYCHONEUROENDOCRINOLOGY*
  Hiraoka, D., Nishitani, S., Shimada, K., Kasaba, R., Fujisawa, T. X., Tomoda, A.
  2021; 123: 105026
- **Epigenetic prediction of 17β-estradiol and relationship to trauma-related outcomes in women** *Comprehensive Psychoneuroendocrinology*
  Hack, L. M., Nishitani, S., Knight, A. K., Kilaru, V., Maddox, S. A., Seligowski, A. V., Jovanovic, T., Ressler, K. J., Smith, A. K., Michopoulous, V.
  2021; 6
- **Altered epigenetic clock in children exposed to maltreatment** *PSYCHIATRY AND CLINICAL NEUROSCIENCES*
  Nishitani, S., Suzuki, S., Ochiai, K., Yao, A., Fujioka, T., Fujisawa, T. X., Tomoda, A.
  2021; 75 (3): 110-112
- **Methylation of OXT and OXTR genes, central oxytocin, and social behavior in female macaques** *HORMONES AND BEHAVIOR*
  De Leon, D., Nishitani, S., Walum, H., McCormack, K. M., Wilson, M. E., Smith, A. K., Young, L. J., Sanchez, M. M.
  2020; 126: 104856
- **Epigenetic modification of the oxytocin receptor gene: implications for autism symptom severity and brain functional connectivity** *NEUROPSYCHOPHARMACOLOGY*
  Andari, E., Nishitani, S., Kaundinya, G., Caceres, G. A., Morrier, M. J., Ousley, O., Smith, A. K., Cubells, J. F., Young, L. J.
  2020; 45 (7): 1150-1158
- **OXTR methylation modulates exogenous oxytocin effects on human brain activity during social interaction** *GENES BRAIN AND BEHAVIOR*
  Chen, X., Nishitani, S., Haroon, E., Smith, A. K., Rilling, J. K.
  2020; 19 (1): e12555
- **Epigenetic Modifications of the Oxytocin Receptor Gene and Autism Spectrum Disorders**
  Andari, E., Nishitani, S., Kaundinya, G., Caceres, G., Morrier, M., Ousley, O., Smith, A., Cubells, J., Young, L.

NATURE PUBLISHING GROUP.2019: 98

- **Oxytocin receptor DNA methylation and alterations of brain volumes in maltreated children** *NEUROPSYCHOPHARMACOLOGY*
  Fujisawa, T. X., Nishitani, S., Takiguchi, S., Shimada, K., Smith, A. K., Tomoda, A.
  2019; 44 (12): 2045-2053
- **Childhood Adversity, Socioeconomic Instability, Oxytocin-Receptor-Gene Methylation, and Romantic-Relationship Support Among Young African American Men** *PSYCHOLOGICAL SCIENCE*
  Kogan, S. M., Bae, D., Cho, J., Smith, A. K., Nishitani, S.
  2019; 30 (8): 1234-1244
- **Longitudinal Epigenome-Wide Changes From Trauma to PTSD Diagnosis**
  Nishitani, S., Kilaru, V., Michopoulos, V., Winters, S., Rothbaum, B., Ressler, K., Jovanovic, T., Smith, A.
  ELSEVIER SCIENCE INC.2019: S10-S11
- **Prospective Longitudinal Epigenome-Wide Association Study of the Development of PTSD in Traumatized ED Patients**
  Nishitani, S., Kilaru, V., Michopoulos, V., Winters, S., Rothbaum, B., Ressler, K., Jovanovic, T., Smith, A.
  NATURE PUBLISHING GROUP.2018: S391
- **Oxytocin receptor gene methylation and substance use problems among young African American men** *DRUG AND ALCOHOL DEPENDENCE*
  Kogan, S. M., Cho, J., Beach, S. R. H., Smith, A. K., Nishitani, S.
  2018; 192: 309-315
- **Epigenetic Modification ofOXTRis Associated with Openness to Experience.** *Personality neuroscience*
  Haas, B. W., Smith, A. K., Nishitani, S.
  2018; 1: e7
- **DNA methylation analysis from saliva samples for epidemiological studies** *EPIGENETICS*
  Nishitani, S., Parets, S. E., Haas, B. W., Smith, A. K.
  2018; 13 (4): 352-362
- **Oxytocin Receptor DNA Methylation and Gray Matter Volume in Maltreated Children**
  Nishitani, S., Fujisawa, T. X., Takiguchi, S., Shimada, K., Smith, A. K., Tomoda, A.
  NATURE PUBLISHING GROUP.2017: S130-S131
- **Oxytocin Mediates a Calming Effect on Postpartum Mood in Primiparous Mothers** *BREASTFEEDING MEDICINE*
  Niwayama, R., Nishitani, S., Takamura, T., Shinohara, K., Honda, S., Miyamura, T., Nakao, Y., Oishi, K., Araki-Nagahashi, M.
  2017; 12 (2): 103-109
- **Genetic variants in oxytocin receptor and arginine-vasopressin receptor 1A are associated with the neural correlates of maternal and paternal affection towards their child** *HORMONES AND BEHAVIOR*
  Nishitani, S., Ikematsu, K., Takamura, T., Honda, S., Yoshiura, K., Shinohara, K.
  2017; 87: 47-56
- **Non-linear patterns in age-related DNA methylation may reflect CD4⁺ T cell differentiation** *EPIGENETICS*
  Johnson, N. D., Wiener, H. W., Smith, A. K., Nishitani, S., Absher, D. M., Arnett, D. K., Aslibekyan, S., Conneely, K. N.
  2017; 12 (6): 492-503
- **Association of Aryl Hydrocarbon Receptor-Related Gene Variants with the Severity of Autism Spectrum Disorders** *FRONTIERS IN PSYCHIATRY*
  Fujisawa, T. X., Nishitani, S., Iwanaga, R., Matsuzaki, J., Kawasaki, C., Tochigi, M., Sasaki, T., Kato, N., Shinohara, K.
  2016; 7
- **Heritable epigenetic patterns of stress-responsive genes in traumatized children**
  Smith, A., Kilaru, V., Klengel, T., Nishitani, S., Binder, E., Ressler, K., Bradley, B., Jovanovic, T.
  PERGAMON-ELSEVIER SCIENCE LTD.2016: 43
- **Epigenome-wide association study to focus on the development of PTSD in traumatized ED patients**
  Smith, A. K., Nishitani, S., Michopoulos, V., Jovanovic, T., Nemeroff, C. B., Meyers, A. J., Rothbaum, B., Ressler, K. J.
  PERGAMON-ELSEVIER SCIENCE LTD.2016: 11-12

- **Epigenetic modification of OXT and human sociability** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Haas, B. W., Filkowski, M. M., Cochran, R., Denison, L., Ishak, A., Nishitani, S., Smith, A. K.
  2016; 113 (27): E3816-E3823
- **Epigenome-wide association study of PTSD and the psychophysiological assessment of the inter-mediate phenotype of the core symptom**
  Nishitani, S., Jovanovic, T., Ressler, K. J., Smith, A. K.
  ROUTLEDGE JOURNALS, TAYLOR & FRANCIS LTD.2016: 639
- **Female-Specific Patterns of Methylation Associated with Risk of PTSD Development: A Prospective Study**
  Michopoulos, V., Nishitani, S., Jovanovic, T., Gould, F., Nemeroff, C. B., Meyers, A. J., Rothbaum, B. O., Ressler, K. J.
  ELSEVIER SCIENCE INC.2016: 410S-411S
- **DNA Methylation of OXTR Modulates the Effect of Oxytocin on the Neural Response to Positive and Negative Social Interactions**
  Chen, X., Nishitani, S., Haroon, E., Smith, A. K., Rilling, J.
  ELSEVIER SCIENCE INC.2016: 99S-100S
- **Epigenome-wide Association Study to Focus on the Development of PTSD in Traumatized ED Patients**
  Nishitani, S., Michopoulos, V., Jovanovic, T., Gould, F., Nemeroff, C. B., Meyers, A. J., Rothbaum, B. O., Ressler, K. J., Smith, A. K.
  ELSEVIER SCIENCE INC.2016: 97S
- **Association of estrogen receptor alpha polymorphisms with symptoms of autism among Chinese Han children** *NEUROENDOCRINOLOGY LETTERS*
  Wang, X., Liang, S., Fujisawa, T. X., Nishitani, S., Tomoda, A., Zou, M., Li, Y., Wu, L., Shinohara, K.
  2016; 37 (6): 439-444
- **Developmental changes in the neural responses to own and unfamiliar mother's smiling face throughout puberty** *FRONTIERS IN NEUROSCIENCE*
  Takamura, T., Nishitani, S., Suegami, T., Doi, H., Kakeyama, M., Shinohara, K.
  2015; 9: 200
- **Sex difference in the relationship between salivary testosterone and inter-temporal choice** *HORMONES AND BEHAVIOR*
  Doi, H., Nishitani, S., Shinohara, K.
  2015; 69: 50-58
- **Association between catechol-O-methyltransferase Val¹⁵⁸Met polymorphism and configural mode of face processing** *NEUROSCIENCE LETTERS*
  Doi, H., Nishitani, S., Shinohara, K.
  2015; 586: 19-23
- **No association between catechol-O-methyltransferase (COMT) genotype and attention deficit hyperactivity disorder (ADHD) in Japanese children** *BRAIN & DEVELOPMENT*
  Yatsuga, C., Toyohisa, D., Fujisawa, T. X., Nishitani, S., Shinohara, K., Matsuura, N., Ikeda, S., Muramatsu, M., Hamada, A., Tomoda, A.
  2014; 36 (7): 620-625
- **Maternal Prefrontal Cortex Activation by Newborn Infant Odors** *CHEMICAL SENSES*
  Nishitani, S., Kuwamoto, S., Takahira, A., Miyamura, T., Shinohara, K.
  2014; 39 (3): 195-202
- **I love my grandkid! An NIRS study of grandmaternal love in Japan** *BRAIN RESEARCH*
  Kida, T., Nishitani, S., Tanaka, M., Takamura, T., Sugawara, M., Shinohara, K.
  2014; 1542: 131-137
- **NIRS as a tool for assaying emotional function in the prefrontal cortex** *FRONTIERS IN HUMAN NEUROSCIENCE*
  Doi, H., Nishitani, S., Shinohara, K.
  2013; 7: 770
- **No interaction between serotonin transporter gene (5-HTTLPR) polymorphism and adversity on depression among Japanese children and adolescents** *BMC PSYCHIATRY*
  Tomoda, A., Nishitani, S., Matsuura, N., Fujisawa, T. X., Kawatani, J., Toyohisa, D., Ono, M., Shinohara, K.

2013; 13: 134

- **Prenatal Exposure to a Polychlorinated Biphenyl (PCB) Congener Influences Fixation Duration on Biological Motion at 4-Months-Old: A Preliminary Study** *PLOS ONE*
  Doi, H., Nishitani, S., Fujisawa, T. X., Nagai, T., Kakeyama, M., Maeda, T., Shinohara, K.
  2013; 8 (3): e59196
- **OXTR and AVPR1A polymorphisms modulation of prefrontal activations of mothers and fathers in response to their own infant's smiling**
  Nishitani, S., Ikematsu, K., Takamura, T., Honda, S., Yoshiura, K., Shinohara, K.
  SPRINGER JAPAN KK.2013: S289
- **Phosphorylation of cAMP response element-binding protein in the extended amygdala of male rats is induced by novel environment and attenuated by estrous female-bedding** *NEUROENDOCRINOLOGY LETTERS*
  Nishitani, S., Funabashi, T., Shinohara, K., Kimura, F.
  2013; 34 (2): 118-123
- **Neural correlates of maternal love, paternal love and children's love for their parents**
  Shinohara, K., Nishitani, S., Takamura, T.
  SPRINGER JAPAN KK.2013: S48
- **Perceived Parental Rejection Mediates the Influence of Serotonin Transporter Gene (5-HTTLPR) Polymorphisms on Impulsivity in Japanese Adults** *PLOS ONE*
  Nishikawa, S., Nishitani, S., Fujisawa, T. X., Noborimoto, I., Kitahara, T., Takamura, T., Shinohara, K.
  2012; 7 (10): e47608
- **Loneliness depends on salivary estradiol levels in adolescent females** *NEUROENDOCRINOLOGY LETTERS*
  Fujisawa, T. X., Nishitani, S., Obara, T., Shinohara, K.
  2012; 33 (5): 525-529
- **Loneliness depends on salivary estradiol levels in adolescent females** *ACTIVITAS NERVOSA SUPERIOR REDIVIVA*
  Fujisawa, T. X., Nishitani, S., Obara, T., Shinohara, K.
  2012; 54 (3): 131-135
- **Differential prefrontal response to infant facial emotions in mothers compared with non-mothers** *NEUROSCIENCE RESEARCH*
  Nishitani, S., Doi, H., Koyama, A., Shinohara, K.
  2011; 70 (2): 183-188
- **Development of synchrony between activity patterns of mother-infant pair from 4 to 18 months after birth** *JOURNAL OF PHYSIOLOGICAL SCIENCES*
  Doi, H., Kato, M., Nishitani, S., Shinohara, K.
  2011; 61 (3): 211-216
- **Differential modulation of impulsive behavior by loneliness and testosterone in adolescent females** *NEUROENDOCRINOLOGY LETTERS*
  Fujisawa, T. X., Nishitani, S., Ishii, S., Shinohara, K.
  2011; 32 (6): 836-840
- **The ability to recognize emotion is modulated by the aryl hydrocarbon receptor (AhR) variants in normal human adolescents**
  Fujisawa, T., Nishitani, S., Doi, H., Shinohara, K.
  ELSEVIER IRELAND LTD.2011: E387
- **Fetal response to induced maternal emotions** *JOURNAL OF PHYSIOLOGICAL SCIENCES*
  Araki, M., Nishitani, S., Ushimaru, K., Masuzaki, H., Oishi, K., Shinohara, K.
  2010; 60 (3): 213-220
- **Associations between the oxytocin receptor gene (OXTR) and sensitivity for vocal emotions in normal children**
  Fujisawa, T., Nishitani, S., Inoue, T., Takamura, T., Ikematsu, K., Shinohara, K.
  SPRINGER TOKYO.2010: S180
- **The effect of high-frequency components of cry stimulus on the breast hemodynamics in lactating mothers**
  Inoue, T., Nishitani, S., Doi, H., Onaka, T., Shinohara, K.
  ELSEVIER IRELAND LTD.2010: E271

- **The pubertal development of the neural basis of attachment in humans**
  Takamura, T., Nishitani, S., Tanaka, M., Yoshimoto, T., Baba, Y., Tsunawake, N., Shinohara, K.
  SPRINGER TOKYO.2010: S156
- **The effect of inaudible high-frequency sounds of infant crying on the breast hemodynamics of lactating mothers**
  Inoue, T., Doi, H., Nishitani, S., Iwata, S., Kanazawa, M., Shinohara, K.
  SPRINGER TOKYO.2010: S183
- **Sex difference of the neural basis of the maternal and paternal attachment in humans**
  Nishitani, S., Takamura, T., Yamashita, S., Araki, M., Shinohara, K.
  SPRINGER TOKYO.2010: S156
- **The ability to recognize affective voices is modulated by the oxytocin receptor gene (OXTR) variants in normal human subjects**
  Fujisawa, T., Nishitani, S., Inoue, T., Takamura, T., Ikematsu, K., Shinohara, K.
  ELSEVIER IRELAND LTD.2010: E79
- **The neural basis of the maternal attachment in human grandmothers**
  Tanaka, M., Nishitani, S., Takamura, T., Sugawara, M., Shinohara, K.
  SPRINGER TOKYO.2010: S186
- **Sex difference in the neural basis of parental bonding**
  Nishitani, S., Takamura, T., Yamashita, S., Shinohara, K.
  ELSEVIER IRELAND LTD.2010: E78
- **A comparative NIRS study of the prefrontal activity between mothers, non-mother nursery nurses and other non-mother females**
  Nishitani, S., Baba, Y., Yoshimoto, T., Omori, A., Kisanuki, Y., Doi, H., Ikeda, E., Takamura, T., Onaka, T., Shinohara, K.
  ELSEVIER IRELAND LTD.2009: S228
- **THE RECRUITMENT OF THE RIGHT PARIETAL CORTEX IN INEFFICIENT SEARCH REVEALED BY fNIRS MEASUREMENT**
  Doi, H., Kato, M., Nishitani, S., Shinohara, K.
  SPRINGER TOKYO.2009: 427
- **THE PREFRONTAL CORTEX WAS ACTIVATED IN MOTHERS DURING THE ODOR DETECTION TASK OF THE NEWBORN INFANT**
  Nishitani, S., Kuwamoto, S., Takahira, A., Shinohara, K.
  SPRINGER TOKYO.2009: 192
- **INFLUENCE OF HIGH-FREQUENCY ACOUSTIC COMPONENT OF INFANT CRYING ON MOTHERS' PERCEPTION**
  Inoue, T., Ikeda, E., Doi, H., Nishitani, S., Shinohara, K.
  SPRINGER TOKYO.2009: 477
- **The calming effect of a maternal breast milk odor on the human newborn infant** *NEUROSCIENCE RESEARCH*
  Nishitani, S., Miyamura, T., Tagawa, M., Sumi, M., Takase, R., Doi, H., Moriuchi, H., Shinohara, K.
  2009; 63 (1): 66-71
- **The olfactory conditioning in the early postnatal period stimulated neural stem/progenitor cells in the subventricular zone and increased neurogenesis in the olfactory bulb of rats** *NEUROSCIENCE*
  So, K., Moriya, T., Nishitani, S., Takahashi, H., Shinohara, K.
  2008; 151 (1): 120-128
- **Emotion Detection in Infants' Cries Based on a Maximum Likelihood Approach**
  Matsunaga, S., Sakaguchi, S., Yamashita, M., Miyahara, S., Nishitani, S., Shinohara, K., ISCA
  ISCA-INT SPEECH COMMUNICATION ASSOC.2006: 1834-+
- **Newborn infant body odor attenuates their mother's postpartum moods**
  Nishitani, S., Kokuryo, M., Miyamura, T., Shinohara, K.
  ELSEVIER IRELAND LTD.2006: S249
- **Induction of Fos immunoreactivity in oxytocin neurons in the paraventricular nucleus after female odor exposure in male rats: Effects of sexual experience** *CELLULAR AND MOLECULAR NEUROBIOLOGY*
  Nishitani, S., Moriya, T., Kondo, Y., Sakuma, Y., Shinohara, K.

2004; 24 (2): 283-291