

Curriculum Vitae

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PERSONAL INFORMATION

NAME: Shigeto Yamawaki
 DATE OF BIRTH: January 15, 1954
 PLACE OF BIRTH: Hiroshima Japan
 CITIZENSHIP: Japanese
 MARITAL STATUS: Married, Yukiko Yamawaki
 CHILDREN: Yosuke Yamawaki, September 11, 1979
 Kanako Yamawaki, November 14, 1982
 HOME ADDRESS 1-9-41 Ushita-asahi, Higashi-ku, 732-0067, Hiroshima, JAPAN
 OFFICE ADDRESS 1-2-3 Kasumi, Minami-ku, 734-8551, Hiroshima, JAPAN

EDUCATION

1969 - 1972 Hiroshima Motomachi High School
 1972 - 1973 School of Technology, Hiroshima University
 1973 - 1979 School of Medicine, Hiroshima University
 1979 - 1980 Internship, Department of Neurology and Psychiatry, Hiroshima University Hospital

PROFESSIONAL CERTIFICATION

1979 Diplomate, National Board of Medical Examiners of Japan (License #: 246357)
 1985 Degree of Ph.D. (Medicine), Hiroshima University
 1987 Diplomate, Designated Psychiatrist by Mental Health Act of Japan (License #: 5263)
 2000 Diplomate in Geriatric Psychiatry, Japanese Society of Geriatric Psychiatry (JSGP)
 2001 Diplomate in Consultation-Liaison Psychiatry, Japanese Society of General Hospital
 Psychiatry (JSGHP)
 2005 Diplomate in Psychiatry and Neurology, Japanese Society of Psychiatry and
 Neurology (JSPN)

ACADEMIC APPOINTMENTS AND EMPLOYMENT

1981 – 1983 Staff Psychiatrist, Kure National Hospital
 1981 – 1989 Instructor, School of Rehabilitation, Kure National Hospital
 1982 – 1983 Research Fellow in Psychiatry and Behavioral Neurosciences, School of Medicine,
 University of Washington USA
 1983 – 1990 Director, Laboratory of Psychiatry and Neuroscience, Division of Clinical Research,
 Kure National Hospital
 1983 – 1990 Adjunct Assistant Professor, Department of Psychiatry, School of Medicine,
 Hiroshima University
 1990 – 2001 Professor and Chairman, Department of Psychiatry and Neurosciences, School of
 Medicine, Hiroshima University
 1991 Adjunct Assistant Professor, Department of Psychiatry, School of Medicine, Gunma
 University
 1992 Adjunct Professor, Department of Neurology and Psychiatry, School of Medicine,
 Okayama University
 1994 – 2002 Adjunct Professor, Department of Psychiatry, Yamanashi Medical University
 1995 – present Adjunct Professor, Department of Psychiatry, Sapporo Medical University
 1997 – present Adjunct Professor, Department of Psychiatry, Shimane Medical University
 1997 – 1999 Adjunct Professor, Department of Psychiatry, Shiga Medical University
 2000 – 2004 Adjunct Professor, Department of Psychiatry, School of Medicine, Yamaguchi
 University
 2000 – 2006 Adjunct Professor, Department of Psychiatry, School of Medicine,
 Mie University
 2001 – 2017 Professor and Chairman, Department of Psychiatry and Neurosciences, Institute
 of Biomedical and Health Sciences, Hiroshima University
 2003 - 2004 Vice-Director, Hiroshima University Hospital
 2012 - 2014 Board of Director, National Center for Neurology and Psychiatry
 2012 - present Board of Director, Hiroshima University
 2015 - present Member and Chair, Brain and Mind Committee, Science Council of Japan

2016 – 2019	Adjunct Professor, Department of Psychiatry and Psychotherapy, Medical University of Vienna
2017 – present	Distinguished Professor, Graduate School of Biomedical & Health Sciences, Hiroshima University

PROFESSIONAL SOCIETIES

Collegium Internationale Neuro-Psychopharmacologicum (CINP)

- Fellow, 1988-present
- Councilor, 2002-2006
- Secretary, 2006-2008
- Chairman, Asian Regional Meeting in Hiroshima, 2001
- Chairman, Asian Regional Committee, 2006-present
- President-Elect, 2012-2014
- President, 2014-2016
- Past-President, 2016-2018

International College of Geriatric Psychoneuropharmacology (ICGP)

- Founding Member, 2000
- Member, 2000-present
- Councilor, 2000-present
- President, 2006-2008

International College of Asian College of Neuropsychopharmacology (AsCNP)

- Founding Member, 2008
- Member, 2008-present
- Founding President, 2008-2010
- Chairman, 1st Biannual Meeting in Kyoto

International Society for Bipolar Disorders (ISBD)

- Member, 1999-present
- Councilor, 2002-2004

World Federation of Societies of Biological Psychiatry (WFSBP)

- Member, 1990-present
- Scientific Committee Member, 2000

European College of Neuropsychopharmacology (ECNP)

- Foreign Corresponding Member, 1998-present

American College of Neuropsychopharmacology (ACNP)

- Foreign Corresponding Member, 2004-2010
- Fellow, 2011-present

American Psychiatric Association (APA)

- International Member, 1995-present

Neuroleptic Malignant Syndrome Information Service (NMSIS)

- Member, 1997-present
- Professional Advisory Council, 1997-present

International Psycho-Oncology Society (IPOS)

- Member, 1990-present

Japanese Society of Neuropsychopharmacology (JSNP)

- Member, 1980-present
- Councilor, 1994-1998, 2000-2003, 2005-2008
- President, 2010-2012
- Chairman, 38th Annual Meeting, 2008 in Tokyo

Japanese Society of Clinical Neuropsychopharmacology (JSCNP)

- Member, 1996-present
- Councilor, 1996-present
- Chairman, 11th Annual Meeting, 2001 in Hiroshima

Japanese Society of Biological Psychiatry (JSBP)

- Member, 1986-present
- Councilor, 1999-2001, 2003 – 2006, 2009 - present

Japanese Society of Neurochemistry (JSN)

- Member, 1984-present
- Councilor, 1999-2001

Japanese Society of Psychiatry and Neurology (JSPN)

- Member, 1980-present
- Trustee, 1990-present

- Chairman, 106th Annual Meeting, 2010 in Hiroshima
- Japanese Society of Geriatric Psychiatry (JSGP)
 - Member, 2000-present
 - Trustee, 2000-present
- Japanese Society of General Hospital Psychiatry (JSGHP)
 - Member, 1986-present
 - Councilor, 1990-present
 - Chairman, 8th Annual Meeting, 1994 in Hiroshima
- Japanese Society of Psycho-oncology (JPOS)
 - Member, 1990-present
 - Councilor, 1990-present
 - President, 2001-2005
 - Chairman, 12th Annual Meeting, 1999 in Hiroshima
- Japanese Society of Palliative Medicine (JSPM)
 - Member, 1995-present
 - Councilor, 1995-2008
 - Chairman, 4th Annual Meeting, 1999 in Hiroshima
- Japanese Society of Psychosomatic Medicine (JAPM)
 - Member, 1992-present
 - Trustee, 1992-present

EDITORIAL BOARDS

- Board Member, *Journal of Psychiatry and Clinical Neurosciences*, 1996-present
- Board Member, *International Journal of Neuropsychopharmacology*, 1997-2006
- Board Member, *European Neuropsychopharmacology*, 1999-2009
- Associate Editor, *International Journal of Psychiatry in Clinical Practice*, 1999-present
- Board Member, *Bipolar Disorders*, 2000-2006
- Board Member, *Biological Psychiatry*, 2001-2005
- Board Member, *Life Sciences*, 2001-present
- Associate Editor (Asia), *CNS Spectrum*, 2000-present
- Board Member, *Neuropsychiatric Disease and Treatment*, 2003-present
- Board Member, *World Journal of Biological Psychiatry*, 2009-present

PROFESSIONAL ACTIVITIES

- Member, National Board Committee of Medical Examiners in Japan, 1997-2001
- Member, Review Board, Neuroscience Promotion Project, Longevity and Aging Foundation, 1998-2000
- Member, Committee of Psychotropic Drugs, Food and Drug Administration of Japan, 2001-present
- Councilor, Medical and Pharmaceutical Frontier Foundation, 2003-present
- Member, Review Committee, RIKEN Brain Science Institute (Chair, Steve Hyman), 2003
- Member, Review Committee, Mitsubishi Chemical Life Science Institute, 2003-2005
- Associate Member, Science Council of Japan, 2006-present

HONORS AND AWARDS

- | | |
|------|---|
| 1983 | Kinugasa Best Doctor Award, Kure National Hospital |
| 1987 | Kojinkai Best Investigator Award, Alumni Association of School of Medicine, Hiroshima University |
| 2000 | Best Poster Award, XXII Congress of Collegium of Internationale Neuropsychopharmacologicum (CINP) at Brussels |
| 2002 | Distinguished Investigator Award, Japanese Society for Clinical Neuropsychopharmacology (JSCNP) at Niigata |
| 2005 | President Award, Advance Telecommunications Research Institute International |
| 2005 | Best Publication Award for <i>Nature Neuroscience</i> 7: 887-893(2004), Japanese Neural Network Society |
| 2012 | Science Technology Award by Minister of Education, Culture, Sports, Science and Technology, Japan |

PAST AND CURRENT RESEARCH GRANT SUPPORT

(Exclude Labor Cost, 1\$ = ¥ 90)

Investigator, Health Science Research Grants for Nervous and Mental Disorders, Ministry of Health and Welfare, "Studies on Neurochemical Mechanism of the Pathogenesis in Depression". 1983-1984, ¥ 2,000,000.

Investigator, Health Science Research Grants for Nervous and Mental Disorders, Ministry of Health and Welfare, "Studies on Serotonergic Mechanism of Manic-Depressive Illness". 1985-1987, ¥ 2,500,000.

Principal Investigator, Research Grants for Collaboration of National Hospitals, Ministry of Health and Welfare, "Studies on the Pathophysiology and Treatment of Neuroleptic Malignant Syndrome". 1986-1988, ¥ 5,000,000.

Investigator, Health Science Research Grants for Nervous and Mental Disorders, Ministry of Health and Welfare, "Studies on Serotonin 2A Receptors and their Signal Transduction in the Pathophysiology of Affective Disorders". 1987-1990, ¥ 5,400,000.

Investigator, Grand-in-aid for Cancer Research, Ministry of Health and Welfare, "Psychiatric Issues of Terminal State of Cancer Patients". 1989-1994, ¥ 4,000,000.

Investigator, Health Science Research Grants for Nervous and Mental Disorders, Ministry of Health and Welfare, "Effect of Lithium on Intracellular Calcium Mobilization System". 1993-1995, ¥ 3,500,000.

Investigator, Health Science Research Grants for HIV, Human Science Foundation, "Studies on the Onset Mechanism of Neuropsychiatric Disorders in AIDS and its Treatment". 1993-1995, ¥ 14,500,000.

Investigator, Health Science Research Grants for Health Promotion and Biodefence Mechanism, Human Science Foundation, "Studies on the Mechanism of Stress-induced Neuropsychiatric Disorders and the Development of its Treatment". 1993-1997, ¥ 13,500,000.

Investigator, Health Science Research Grants for Mental Health, Ministry of Health and Welfare, "Studies on Medical Network of Treatment System of Physical Complication in Psychiatric Patients". 1994-1995, ¥ 10,000,000.

Investigator, Research Grants for New Strategy of Cancer Treatment, Ministry of Health and Welfare, "Studies on Palliative Medicine of Cancer Patients". 1994-1996, ¥ 5,700,000.

Principal Investigator, Grant-in-aid for General Scientific Research, Ministry of Education, Sciences and Culture, "Psycho-neuro-immunological Studies on the Pathogenesis of Mood Disorders". 1994-1996, ¥ 12,100,000.

Principal Investigator, Research Grants for New Strategy of Cancer Treatment, Ministry of Health and Welfare, "Studies on the Supportive Care for the QOL Improvement of Cancer Patients". 1997-2000, ¥ 24,400,000.

Principal Investigator, Grants-in-aid for Cancer Research, Ministry of Health and Welfare, "Studies on the Mechanism of Psychiatric Symptoms in Cancer Patients and Their Treatment". 2000-2002, ¥ 25,800,000.

Investigator, Research Grants for Longevity Sciences, Ministry of Health and Welfare, "Psycho-neuro-immunological Studies on Biological Marker of Aging of Mental Function". 1997-2002, ¥ 12,500,000.

Principal Investigator, Grant-in-aid for Promising Scientific Research, Ministry of Education, Sciences and Culture, "Psycho-neuro-immunological Studies on Psychiatric Intervention to Cancer Patients". 1994-1995, ¥ 1,900,000.

Investigator, Health Science Research Grants for Brain Sciences, Ministry of Health and Welfare, "Molecular Biological Studies on the Mechanism of Pathogenesis and Recovery of Major Depression". 1997-1999, ¥ 21,500,000.

Principal Investigator, Grant-in-aid for General Scientific Research, Ministry of Education, Sciences and Culture, "International Collaboration Program of Psycho-immunological Studies on Cancer Patients". 1999, ¥ 3,300,000.

Principal Investigator, Grant-in-aid for General Scientific Research, Ministry of Education, Sciences and Culture, "Studies of Emotional Neuroplasticity in Pathophysiology of Mood Disorders". 2002-2004, ¥ 12,900,000.

Investigator, Core Research for Evolutional Science and Technology (CREST) of Japan Science and Technology (JST) "Studies on Mechanism of Behavioral Meta-Learning and Emotional Communication". 1999-2003, ¥ 68,500,000.

Principal Investigator, Health Science Research Grants for Brain Sciences, Ministry of Health and Welfare, "Elucidation of Molecular Basis of Maladaptive Change in the Brain and Development of its Prevention". 2000-2002, ¥ 78,500,000.

Principal Investigator, Grants-in-aid for Cancer Research, Ministry of Health and Welfare, "Studies on the Mechanism of Psychiatric Symptoms in Cancer Patients and Their Treatment". 2003-2004, ¥ 25,000,000.

Principal Investigator, Health Science Research Grants for Nervous and Mental Disorders, Ministry of Health and Welfare, "Studies on Molecular Pathophysiology of Psychiatric Disorders and Their Treatment and Prevention". 2003-2005, ¥ 60,000,000.

Principal Investigator, Health Science Research Grants for Mental Health Sciences, Ministry of Health and Welfare, "Studies on Pathomechanism of Stress-related Mental Disorders and Development of Their Prevention". 2003-2005, ¥ 75,000,000.

Principal Investigator, Grant-in-aid for General Scientific Research, Ministry of Education, Sciences and Culture, "Studies on Pathophysiology and Treatment of Vascular Depression". 2004-2006, ¥ 16,900,000.

Principal Investigator, Grant-in-aid for General Scientific Research, Ministry of Education, Sciences and Culture, "Neuroimaging Study on Role of Serotonin in Impulsivity". 2004-2006, ¥ 12,000,000.

Principal Investigator, Health Science Research Grants for Mental Health Sciences, Ministry of Health and Welfare, "Bio-Psycho-Social Studies on Prediction of Treatment-resistant Depression". 2006-2008, ¥ 80,000,000.

Principal Investigator, Grant-in-aid for General Scientific Research, Ministry of Education, Sciences and Culture, "Neuroimaging Study on Emotion-Cognition Regulation System". 2007-2010, ¥ 14,400,000.

Principal Investigator, Grant-in-aid for General Scientific Research, Ministry of Education, Sciences and Culture, "Role of Chromatin Remodeling in the Pathophysiology and Treatment of Major Depression". 2007-2010, ¥ 14,400,000.

Investigator, Core Research for Evolutional Science and Technology (CREST) of Japan Science and Technology (JST) "Development of New Diagnosis and Therapy of Treatment-resistant Depression focused on BDNF". 2008-2013, ¥ 76,280,000

Principal Investigator, Strategic Research Program for Brain Sciences, Ministry of Education, Sciences and Culture, "Innovative Development of Diagnosis and Treatment for Depression based on Its Neurocircuitry and Molecular Pathophysiology". 2011-2016, ¥ 482,500,000.

Research Reader, Center of Innovation Science and Technology based Radical Innovation and Entrepreneurship Program (COI STREAM), Ministry of Education, Culture, Science and Technology, "Center of KANSEI Innovation Nurturing Mental Wealth" 2013-2016, ¥ 950,000,000.

Principal Investigator, Strategic Research Program for Brain Sciences (SRPBS), Japan Agency for Medical Research and Development (AMED) "Innovative Development of Diagnosis and Treatment for Depression by Neuroscience-based Stratification and Modification of Neural Circuitry". 2016-2020, ¥ 400,000,000 (estimated).

BIBLIOGRAPHY

- Original Articles

<Japanese Journals> 401

<English Journals>

1. Yamawaki, S. : Effect of toluene inhalation on locomotor activity and brain catecholamine levels in rats. *Japanese Journal of Psychopharmacology* 2: 57-59, 1982.
2. Yamawaki, S., Segawa, T. and Sarai, K. : Effects of acute and chronic toluene inhalation on behavior and [3H] serotonin binding in rat. *Life Sciences* 30: 1997-2002, 1982.
3. Yamawaki, S. : Clinical investigations on 10 cases of organic solvent abuse. *Japanese Journal of Alcohol & Drug Dependence* 17: 123-128, 1982.
4. Yamawaki, S. and Horita, A. : Dopaminergic and serotonergic mechanisms of thermoregulation: Mediation of thermal effects of apomorphine and dopamine. *The Journal of Pharmacology and Experimental Therapeutics* 227: 383-388, 1983.
5. Horita, A., Carino, M.A. and Yamawaki, S. : Morphine antagonized pentobarbital-induced anesthesia. *Neuropharmacology* 22: 1183-1186, 1983.
6. Hotta, I., Yamawaki, S. and Segawa, T. : Effect of lithium on serotonin receptor-agonists cyclase system in rat hippocampus. *Folia Psychiatrica et Neurologica Japonica* 38: 395-397, 1984.
7. Yamawaki, S., Lai, H. and Horita, A. : Effect of dopaminergic and serotonergic drugs on ethanol-induced hypothermia. *Life Sciences* 34: 467-474, 1984.
8. Yamawaki, S., Yanagawa, K., Hotta, I. and Sarai, K. : Effect of lithium chloride on thermoregulatory mechanism. *Folia Psychiatrica et Neurologica Japonica* 38: 396-397, 1984.
9. Horita, A., Carino, M.A. and Yamawaki, S. : Analeptic effect of opiate receptor agonists in rabbits. *Neuroscience Letters* 55: 61-64, 1985.
10. Yamawaki, S., Nagao, M., Yanagawa, K., Uchitomi, Y. and Hotta, I. : Lithium changed amine precursor amino acids, but not neurotransmitter candidate amino acids in rats. *Folia Psychiatrica et Neurologica Japonica* 39: 597-598, 1985.
11. Hotta, I., Yamawaki, S., Yanagawa, K. and Segawa, T. : Effect of lithium on serotonin receptors in rat brain:

- a behavioral study. *Folia Psychiatrica et Neurologica Japonica* 39: 593-594, 1985.
12. Hotta, I. and Yamawaki, S. : Lithium decreases 5-HT₁ receptors but increases 5-HT sensitive adenylate cyclase activity in rat hippocampus. *Biological Psychiatry* 21: 138-139, 1986.
 13. Yamawaki, S., Yanagawa, K., Morio, M. and Mori, K. : Possible central effect of dantrolene sodium in neuroleptic malignant syndrome. *Journal of Clinical Psychopharmacology* 6: 378-379, 1986.
 14. Hotta, I., Yamawaki, S. and Segawa, T. : Long-term lithium treatment causes serotonin receptor down-regulation via serotonergic presynapses in rat brain. *Neuropsychobiology* 16: 19-26, 1986.
 15. Muraki, K., Nishi, Y., Okahata, H., Arai, M., Yamada, H., Fujita, S., Miyachi, Y., Ueda, K., Yamawaki, S. and Yajima, H. : Neurotensin-like immunoreactivity (NTL1) concentration in the cerebrospinal fluid of children and its alteration in a febrile aseptic meningitis. *Life Sciences* 40: 1365-1370, 1987.
 16. Yamawaki, S. : Profiles of clinical efficacy and pharmacological action of zotepine. *Pharmacopsychiatry* 20: 4-7, 1987.
 17. Kato, T. and Yamawaki, S. : A pharmacological study of veratrine-induced hyperthermia in the rat: a model of neuroleptic malignant syndrome. *Hiroshima Journal of Medical Science* 38: 173-181, 1989.
 18. Hide, I., Kato, T. and Yamawaki, S. : In vivo determination of 5-HT receptor-stimulated phosphoinositide turnover in rat brain. *Journal of Neurochemistry* 53: 556-560, 1989.
 19. Yamawaki, S., Yano, E. and Uchitomi, Y. : Analysis of 497 cases of neuroleptic malignant syndrome in Japan. *Hiroshima Journal of Anesthesia* 26: 35-44, 1990.
 20. Yamawaki, S., Kato, T. and Yano, E. : Studies on pathogenesis of neuroleptic malignant syndrome: Effect of dantrolene on serotonin release in rat hypothalamus. *Hiroshima Journal of Anesthesia* 26: 45-52, 1990.
 21. Hayakawa, H., Shimizu, M. and Yamawaki, S. : The effects of electroconvulsive shock or imipramine on subtypes of α 1-adrenoceptors in the frontal cortex of the rat. *Neuropharmacology* 31: 955-960, 1992.
 22. Shimizu, M., Nishida, A. and Yamawaki, S. : Antidepressants inhibit spontaneous oscillations of intracellular Ca^{2+} concentration in rat cortical cultured neurons. *Neuroscience Letters* 146: 101-104, 1992.
 23. Nishida, A., Shimizu, M., Kanaho, Y., Nozawa, Y. and Yamawaki, S. : Characterization of phospholipase D in a cell-free system of cultured cells derived from rat frontal cortex. *Brain Research* 595: 12-16, 1992.
 24. Kagaya, A., Mikuni, M., Yamamoto, H., Muraoka, S., Yamawaki, S. and Takahashi, K. : Heterologous supersensitization between serotonin₂ and alpha₂-adrenergic receptor-mediated intracellular calcium mobilization in human platelets. *Journal of Neural Transmission* 88: 25-36, 1992.
 25. Uchitomi, Y. and Yamawaki, S. : Chronic lithium treatment enhances the postsynaptic 5-HT_{1A} receptor-mediated 5-HT behavioral syndrome induced by 8-OH-DPAT in rats via catecholaminergic systems. *Psychopharmacology* 112: 174-179, 1993.
 26. Shimizu, M., Nishida, A. and Yamawaki, S. : Forskolin and phorbol myristate acetate inhibit intracellular Ca^{2+} mobilization induced by amitriptyline and bradykinin in rat frontocortical neurons. *Journal of Neurochemistry* 61: 1748-1754, 1993.
 27. Shimizu, M., Nishida, A., Hayakawa, H. and Yamawaki, S. : Ca^{2+} release from inositol 1,4,5-trisphosphate-sensitive Ca^{2+} store by antidepressant drugs in cultured neurons of rat frontal cortex. *Journal of Neurochemistry* 60: 595-601, 1993.
 28. Hayakawa, H., Yokota, N., Shimizu, M., Nishida, A. and Yamawaki, S. : Repeated treatment with electroconvulsive shock increases numbers of serotonin_{1A} receptors in the rat hippocampus. *Biogenic Amines* 9: 295-306, 1993.
 29. Motohashi, N., Okamoto, Y., Osada, M. and Yamawaki, S. : Acute swim stress increases benzodiazepine receptors, but not GABA_A or GABA_B receptors, in the rat cerebral cortex. *Neurochemistry International* 23: 327-330, 1993.
 30. Fujikawa, T., Yamawaki, S. and Touhoda, Y. : Incidence of silent cerebral infarction in patients with major depression. *Stroke* 24: 1631-1634, 1993.
 31. Kagaya, A., Mikuni, M., Muraoka, S., Saitoh, K., Ogawa, T., Shinno, H., Yamawaki, S. and Takahashi, K. : Homologous desensitization of serotonin 5-HT₂ receptor-stimulated intracellular calcium mobilization in C6BU-1 glioma cells via a mechanism involving a calmodulin pathway. *Journal of Neurochemistry* 61: 1050-1056, 1993.
 32. Tanra, A. J., Kagaya, A., Motohashi, N., Uchitomi, Y. and Yamawaki, S. : TJS-010, a new prescription of kampo medicine with putative antidepressive and anxiolytic properties. -A behavioral study using experimental models for depression and anxiety. *Hiroshima Journal of Medical Sciences* 43: 145-151, 1994.
 33. Shinno, H., Mikuni, M., Saitoh, K., Tomita, U., Yamawaki, S. and Takahashi, K. : Metabotropic glutamate receptor in C6BU-1 glioma cell has NMDA receptor-ion channel complex-like properties and interacts with serotonin₂ receptor-stimulated signal transduction. *Journal of Neurochemistry* 63: 1346-1353, 1994.
 34. Fukuda, H., Nishida, A., Saito, H., Shimizu, M. and Yamawaki, S. : Imipramine stimulates phospholipase C activity in rat brain. *Neurochemistry International* 25: 567-571, 1994.

35. Nishida,A., Emoto,K., Shimizu,M., Uozumi,T. and Yamawaki,S. : Brain ischemia decreases phosphatidylcholine-phospholipase D but not phosphatidylinositol-phospholipase C in rats. **Stroke** 25: 1247-1251, 1994.
36. Kawai,K., Yokota,N. and Yamawaki,S. : Effect of chronic tryptophan depletion on the circadian rhythm of wheel-running activity in rats. **Physiology and Behavior** 55: 1005-1013, 1994.
37. Uchitomi,Y., Sugihara,J., Fukue,M., Kuramoto,Y., Akechi,T., Oomori,N. and Yamawaki,S. : Psychiatric liaison issues in cancer care in Japan. **Journal of Pain and Symptom Management** 9: 319-324, 1994.
38. Shimizu,M., Nishida,A., Fukuda,H., Saito,H. and Yamawaki,S. : Inhibitory effect of imipramine on depolarization-induced increases in intracellular Ca^{2+} of rat cortical neurons. **European Journal of Pharmacology** 268: 65-71, 1994.
39. Hayashi,T., Kagaya,A., Motohashi,N. and Yamawaki,S. : Possible mechanism of dantrolene stabilization of cultured neuroblastoma cell plasma membranes. **Journal of Neurochemistry** 63: 1849-1854, 1994.
40. Hayakawa,H., Shimizu,M., Nishida,A., Motohashi,N. and Yamawaki,S. : Increase in serotonin1A receptors in the dentate gyrus as revealed by autoradiographic analysis following repeated electroconvulsive shock but not imipramine treatment. **Neuropsychobiology** 30: 53-56, 1994.
41. Fujikawa,T., Yamawaki,S. and Touhoda,Y. : Background factors and clinical symptoms of major depression with silent cerebral infraction. **Stroke** 25: 798-801, 1994.
42. Okamoto,Y., Kagaya,A., Motohashi,N. and Yamawaki,S. : Inhibitory effects of lithium ion on intracellular Ca^{2+} mobilization in the rat hippocampal slices. **Neurochemistry International** 26: 233-238, 1995.
43. Hayashi,T., Kagaya,A., Takebayashi,M., Shimizu,M., Uchitomi,Y., Motohashi,N. and Yamawaki,S. : Modulation by σ ligands of intracellular free Ca^{2+} mobilization by N-methyl-D-aspartate in primary culture of rat frontal cortical neurons. **The Journal of Pharmacology and Experimental Therapeutics** 275: 207-214, 1995.
44. Hayakawa,H., Okamoto,Y., Shimizu,M., Nishida,A., Motohashi,N. and Yamawaki,S. : Single or repeated treatment with electroconvulsive shock increases number of serotonin uptake binding sites in the frontal cortex. **Neuropsychobiology** 31: 1-5, 1995.
45. Hayashi,T., Nishikawa,T., Koga,K., Uchida,Y. and Yamawaki,S. : Aerophagia: a neuroleptic-associated tardive syndrome? **Human Psychopharmacology** 10: 235-238, 1995.
46. Takao,K., Nagatani,T., Kitamura,Y., Kawasaki,K., Hayakawa,H. and Yamawaki,S. : Chronic forced swim stress of rats increases frontal cortical 5-HT₂ receptors and the wet-dog shakes they mediate, but not frontal cortical β -adrenoceptors. **European Journal of Pharmacology** 294: 721-726, 1995.
47. Hayashi,T., Yamawaki,S., Nishikawa,T. and Jeste,D.V. : Usage and side effects of neuroleptics in elderly Japanese patients. **American Journal of Geriatric Psychiatry** 3: 308-316, 1995.
48. Kagaya,A., Motohashi,M., Kugaya,A., Yamaji,T., Hayashi,T., Okamoto,Y., Shinno,H., Takebayashi,M., Uchitomi,Y. and Yamawaki,S. : Cyclic GMP generation mediated by 5-HT-2 receptors via nitric oxide-dependent pathway and its effects on the desensitization of 5-HT-2 receptors in C6 glioma cells. **Journal of Neural Transmission** 100: 27-38, 1995.
49. Tanra,A.J., Kagaya,A., Okamoto,Y., Muraoka,M., Motohashi,N. and Yamawaki,S. : TJS-010, a new prescription of oriental medicine, antagonizes tetrabenazine-induced suppression of spontaneous locomotor activity in rats. **Progress in Neuro-Psychopharmacology & Biological Psychiatry** 19: 963-971, 1995.
50. Shimizu,M., Nishida,A., Fukuda,H., Saito,H. and Yamawaki,S. : Enhancement of cyclic AMP accumulation mediated by 5-HT after chronic amitriptyline treatment in NG 108-15 cells. **British Journal of Pharmacology** 14: 1282-1288, 1995.
51. Kagaya,A., Mikuni,M., Okamoto,Y., Muraoka,S., Motohashi,N., Yamawaki,S. and Takahashi,K. : W-7 facilitates 5-HT_{2A} receptor-mediated intracellular calcium increase in human platelets. **Pharmaceutical Sciences** 1: 141-143, 1995.
52. Fujikawa,T., Yamawaki,S. and Touhoda,Y. : Silent cerebral infarctions in patients with late-onset mania. **Stroke** 26: 946-949, 1995.
53. Kugaya,A., Kagaya,A., Uchitomi,Y., Motohashi,N. and Yamawaki,S. : Inhibition of serotonin-induced Ca^{2+} mobilization by interleukin-1 β in rat C6BU-1 glioma cells. **Brain Research** 682: 151-156, 1995.
54. Okamoto,Y., Kagaya,A., Shinno,H., Motohashi,N. and Yamawaki,S. : Serotonin-induced platelet calcium mobilization is enhanced in mania. **Life Sciences** 56: 327-332, 1995.
55. Uchitomi,Y., Okamura,H., Minagawa,H., Kugaya,A., Fukue,M., Kagaya,A., Oomori,N. and Yamawaki,S. : A survey of Japanese physicians' attitudes and practice in caring for terminally ill cancer patients. **Psychiatry and Clinical Neurosciences** 49: 53-57, 1995.
56. Takebayashi,M., Motohashi,N., Saito,H., Kagaya,A. and Yamawaki,S. : Effect of acute treatment with sodium valproate on catecholamine and serotonin synthesis. **Neuropsychobiology** 32: 124-127, 1995.

57. Okamoto, Y., Okamoto, Y., Kagaya, A., Tamiya, S., Fujita, Y., Touhouda, Y., Motohashi, N. and Yamawaki, S. : Serotonin-induced platelet calcium mobilization is enhanced in bulimia nervosa but not in anorexia nervosa. **Biological Psychiatry** 38: 274-276, 1995.
58. Saito, H., Nishida, A., Shimizu, M., Motohashi, N. and Yamawaki, S. : Decreased inositol 1,4,5-trisphosphate-specific binding in platelets from alcoholic subjects. **Biological Psychiatry** 40: 886-891, 1996.
59. Shimizu, M., Nishida, A., Fukuda, H., Saito, H. and Yamawaki, S. : Effects of chronic exposure to desipramine and mianserin on Ca²⁺ mobilization induced by noradrenaline, acetylcholine, and high K⁺ in rat frontocortical neurons. **Neuropsychobiology** 33: 66-70, 1996.
60. Saito, H., Shimizu, M., Motohashi, N. and Yamawaki, S. : Effect of chronic ethanol treatment on inositol 1,4,5-trisphosphate receptors and inositol 1,3,4,5-tetrakisphosphate receptors in rat brain. **Neuropsychobiology** 33: 60-65, 1996.
61. Takebayashi, M., Kagaya, A., Hayashi, T., Motohashi, N. and Yamawaki, S. : γ -Aminobutyric acid increases intracellular Ca²⁺ concentration in cultured cortical neurons: Role of Cl⁻ transport. **European Journal of Pharmacology** 297: 137-143, 1996.
62. Okamoto, Y., Motohashi, N., Hayakawa, H., Muraoka, M. and Yamawaki, S. : Addition of lithium to chronic antidepressant treatment potentiates presynaptic serotonergic function without changes in serotonergic receptors in the rat cerebral cortex. **Neuropsychobiology** 33: 17-20, 1996.
63. Kagaya, A., Tanra, A.J., Shinno, H., Kugaya, A., Muraoka, M., Oyamada, T., Uchitomi, Y. and Yamawaki, S. : TJS-010, a new prescription of oriental medicine, enhances 8-OH-DPAT-induced effect in rats. **Journal of Neural Transmission** 103: 69-75, 1996.
64. Kagaya, A., Kugaya, A., Hayashi, T., Okamoto, Y., Takebayashi, M., Uchitomi, Y. and Yamawaki, S. : Effect of citalopram on the desensitization of serotonin-2A receptor-mediated calcium mobilization in rat glioma cells. **Progress in Neuro-Psychopharmacology & Biological Psychiatry** 20: 157-166, 1996.
65. Akechi, T., Uchitomi, Y., Okamura, H., Fukue, M., Kagaya, A., Nishida, A., Oomori, N. and Yamawaki, S. : Usage of haloperidol for delirium in cancer patients. **Supportive Care in Cancer** 4: 390-392, 1996.
66. Yamaji, T., Kagaya, A., Uchitomi, Y., Yokota, N. and Yamawaki, S. : Effects of clomipramine and verapamil on 5-HT-induced intracellular calcium changes in individual C6 rat glioma cells. **Neuropsychobiology** 33: 55-59, 1996.
67. Minagawa, H., Uchitomi, Y., Yamawaki, S. and Ishitani, K. : Psychiatric morbidity in terminally ill cancer patients. -A Prospective Study. **Cancer** 78: 1131-1137, 1996.
68. Hayashi, T., Nishikawa, T., Koga, T., Uchida, Y. and Yamawaki, S. : Prevalence of and risk factors for respiratory dyskinesia. **Clinical Neuropharmacology** 19: 390-398, 1996.
69. Shimizu, M., Nishida, A., Zensho, H. and Yamawaki, S. : Chronic amitriptyline exposure reduces 5-HT₃ receptor-mediated cyclic GMP formation in NG 108-15 cells. **Brain Research** 741: 89-94, 1996.
70. Kagaya, A., Uchitomi, Y., Kugaya, A., Takebayashi, M., Nagaoka, I., Muraoka, M., Yokota, N. and Yamawaki, S. : Differential regulation of intracellular signaling systems by sodium fluoride in rat glioma cells. **Journal of Neurochemistry** 66: 1483-1488, 1996.
71. Fujikawa, T., Yokota, N., Muraoka, M. and Yamawaki, S. : Response of patients with major depression and silent cerebral infarction to antidepressant drug therapy, with emphasis on central nervous system adverse reactions. **Stroke** 27: 2040-2042, 1996.
72. Yamaji, T., Kagaya, A., Uchitomi, Y., Yokota, N. and Yamawaki, S. : Effects of carbamazepine and sodium valproate on 5-HT-induced calcium increase in individual C6 rat glioma cells. **Neuropsychobiology** 34: 22-25, 1996.
73. Kugaya, A., Kagaya, A., Uchitomi, Y., Yokota, N. and Yamawaki, S. : Effect of interferon- α on DOI-induced wet-dog shakes in rats. **Journal of Neural Transmission** 103: 947-955, 1996.
74. Shimizu, M., Nishida, A., Zensho, H. and Yamawaki, S. : Chronic antidepressant exposure enhances 5-hydroxytryptamine-7 receptor-mediated cyclic adenosine monophosphate accumulation in rat frontocortical astrocytes. **The Journal of Pharmacology and Experimental Therapeutics** 279: 1551-1558, 1996.
75. Yamawaki, S., Kagaya, A., Okamoto, Y., Shimizu, M., Nishida, A., Uchitomi, Y. : Enhanced calcium response to serotonin in platelets from patients with affective disorders. **Journal of Psychiatry and Neuroscience** 21: 321-324, 1996.
76. Kagaya, A., Uchitomi, Y., Takezaki, E., Fukue, M., Tsukano, K., Kugaya, A., Minagawa, H., Takebayashi, M., Zensho, H., Oyamada, T. and Yamawaki, S. : Plasma levels of cyclic GMP, immune parameters and depressive status during interferon therapy. **Neuropsychobiology** 35: 128-131, 1997.
77. Yamaji, T., Kagaya, A., Uchitomi, Y., Yokota, N. and Yamawaki, S. : Chronic treatment with antidepressants, verapamil, or lithium inhibits the serotonin-induced intracellular calcium response in individual C6 rat glioma cells. **Life Sciences** 60: 817-823, 1997.
78. Hayashi, T., Nishikawa, T., Koga, I., Uchida, Y. and Yamawaki, S. : Life-threatening dysphagia following prolonged neuroleptic therapy. **Clinical Neuropharmacology** 20: 77-81, 1997.

79. Nishida,A., Saito,H., Shimizu,M., Zensho,H. and Yamawaki,S. : Phosphatidylethanol inhibits phosphatidylinositol-phospholipase C activity in a competitive manner with phosphatidylinositol-4, 5-bisphosphate. ***Drug and Alcohol Dependence*** 44: 117-122, 1997.
80. Nishikawa,T., Kuwahara,H., Hayashi,T., Yamawaki,S. and Tanaka,M. : Differential diagnosis of respiratory dyskinesia: A prevalence study using computer analysis of spiograph data. ***Human Psychopharmacology*** 12: 105-110, 1997.
81. Hayashi,T., Nishikawa,T., Koga,I., Uchida,Y., Horiguchi,J. and Yamawaki,S. : Involvement of the α 2-adrenergic system in polydipsia in schizophrenic patients: a pilot study. ***Psychopharmacology*** 130: 382-386, 1997.
82. Tawara,Y., Nishikawa,T., Koga,I., Uchida,Y. and Yamawaki,S. : Transient and intermittent oral dyskinesia appearing in a young woman ten days after neuroleptic treatment. ***Clinical Neuropharmacology*** 20: 175-178, 1997.
83. Fujikawa,T., Yanai,I. and Yamawaki,S. : Psychosocial stressors in patients with major depression and silent cerebral infarction. ***Stroke*** 28: 1123-1125, 1997.
84. Hayashi,T., Yokota,N., Takahashi,T., Tawara,Y., Nishikawa,T. Yano,T., Furutani,M., Fujikawa,T., Horiguchi,J. and Yamawaki,S. : Benefits of trazodone and mianserin on patients with late-life chronic schizophrenia and tardive dyskinesia: an add-on, double-blind, placebo-controlled study. ***International Clinical Psychopharmacology*** 12: 199-205, 1997.
85. Takao,K., Nagatani,T., Kitamura,Y. and Yamawaki,S. : Effects of corticosterone on 5-HT1A and 5-HT2 receptor binding and on the receptor-mediated behavioral responses of rats. ***European Journal of Pharmacology*** 333: 123-128, 1997.
86. Shimizu,M., Nishida,A., Zensho,H., Miyata,M. and Yamawaki,S. : Down-regulation of 5-hydroxytryptamine₇ receptors by dexamethasone in rat frontocortical astrocytes. ***Journal of Neurochemistry*** 68: 2604-2609, 1997.
87. Hayashi,T., Kagaya,A., Takebayashi,M., Oyamada,T., Inagaki,M., Tawara,Y., Yokota,N., Horiguchi,J. and Yamawaki,S. : Effect of dantrolene on KCl- or NMDA-induced intracellular Ca^{2+} changes and spontaneous Ca^{2+} oscillation in cultured rat frontal cortical neurons. ***Journal of Neural Transmission*** 104: 811-824, 1997.
88. Kugaya,A., Kagaya,A., Zensho,H., Oyamada,T., Tawara,Y., Inagaki,M., Uchitomi,Y. and Yamawaki,S. : Modulation of endothelin-induced intracellular Ca^{2+} mobilization by interleukin-1 β and lipopolysaccharide in C6 rat glioma cells. ***Neuropeptides*** 31: 187-192, 1997.
89. Yanai,I., Fujikawa,T., Osada,M., Touhoda,Y. and Yamawaki,S. : Changes in auditory P300 in patients with major depression and silent cerebral infarction. ***Journal of Affective Disorders*** 46: 263-271, 1997.
90. Inami,Y., Horiguchi,J., Nishimatsu,O., Sasaki,A., Sukegawa,T., Katagiri,H. and Yamawaki,S. : A Polysomnographic study on periodic limb movements in patients with restless legs syndrome and neuroleptic-induced akathisia. ***Hiroshima Journal of Medical Sciences*** 46: 133-141, 1997.
91. Yanai,I., Fujikawa,T., Horiguchi,J., Yamawaki,S. and Touhoda,Y. : The 3-year course and outcome of patients with major depression and silent cerebral infarction. ***Journal of Affective Disorders*** 47: 25-30, 1998.
92. Otagaki,Y., Tohoda,Y., Osada,M., Horiguchi,J. and Yamawaki,S. : Prolonged P300 latency in eating disorders. ***Neuropsychobiology*** 37: 5-9, 1998.
93. Oyamada,T., Hayashi,T., Kagaya,A., Yokota,N. and Yamawaki,S. : Effect of dantrolene on K⁺- and caffeine-induced dopamine release in rat striatum assessed by in vivo microdialysis. ***Neurochemistry International*** 32: 171-176, 1998.
94. Nagaoka,I., Sasa,M. and Yamawaki,S. : 5-HT1A receptor-mediated inhibition of nucleus accumbens neurons activated by stimulation of parafascicular nucleus of thalamus. ***Psychopharmacology*** 135: 230-235, 1998.
95. Horiguchi,J., Yamashita,H., Yanai,I., Katagiri,H., Miyoshi,I., Yokota,N. and Yamawaki,S. : Effectiveness of valproate on delirium and/or aggressive behavior in demented patients: A practical pilot study. ***International Journal of Psychiatry in Clinical Practice*** 2: 35-39, 1998.
96. Tawara,Y., Kagaya,A., Uchitomi,Y., Horiguchi,J. and Yamawaki,S. : Lipopolysaccharide regulates both serotonin- and thrombin-induced intracellular calcium mobilization in rat C6 glioma cells: possible involvement of nitric oxide synthase-mediated pathway. ***Journal of Neuroscience Research*** 51: 517-525, 1998.
97. Shimizu,M., Nishida,A., Zensho,H., Miyata,M. and Yamawaki,S. : Agonist-induced desensitization of adenylyl cyclase activity mediated by 5-hydroxytryptamine₇ receptors in rat frontocortical astrocytes. ***Brain Research*** 784: 57-62, 1998.
98. Akechi,T., Kugaya,A., Okamura,H., Nishiwaki,Y., Yamawaki,S. and Uchitomi,Y. : Predictive factors for psychological distress in ambulatory lung cancer patients. ***Supportive Care in Cancer*** 6: 281-286, 1998.

99. Akechi,T., Okamura,H., Yamawaki,S. and Uchitomi,Y. : Predictors of patients' mental adjustment to cancer: patient characteristics and social support. **British Journal of Cancer** 77: 2381-2385, 1998.
100. Zensho,H., Nishida,A., Shimizu,M., Uchitomi,Y. and Yamawaki,S. : Heat shock protein 72 restores cyclic AMP accumulation after heat shock in N18TG2 cells. **Brain Research** 790: 278-283, 1998.
101. Muraoka,M., Hayakawa,H., Kagaya,A., Kojima,T. and Yamawaki,S. : Effects of carbon monoxide exposure on serotonergic neuronal systems in rat brain. **Life Sciences** 62: 2101-2108, 1998.
102. Uchitomi,Y., Akechi,T., Okamura,H., Kugaya,A., Zensho,H., Kagaya,A., Saeki,T., Okamoto,Y., Nishida,A., Takebayashi,M. and Yamawaki,S. : Positive influence of a liaison programme on the rate of psychiatric consultation referrals for cancer patients. **Psychiatry and Clinical Neurosciences** 52: 275-278, 1998.
103. Hayashi,T., Furutani,M., Taniyama,J., Kiyasu,M., Hikasa,S. Horiguchi,J. and Yamawaki,S. : Neuroleptic-induced meige's syndrome following akathisia: Pharmacologic characteristics. **Psychiatry and Clinical Neurosciences** 52: 445-448, 1998.
104. Ikeda,M., Fujikawa,T., Yanai,I., Horiguchi,J. and Yamawaki,S. : Clonazepam-induced maniacal reaction in a patient with bipolar disorder. **International Clinical Psychopharmacology** 13: 189-190, 1998.
105. Takebayashi,M., Kagaya,A., Uchitomi,Y., Yokota,N., Horiguchi,J. and Yamawaki,S. : Differential regulation by pregnenolone sulfate of intracellular Ca²⁺ increase by amino acids in primary cultured rat cortical neurons. **Neurochemistry International** 32: 205-211, 1998.
106. Takebayashi,M., Kagaya,A., Uchitomi,Y., Kugaya,A., Muraoka,M., Yokota,N., Horiguchi,J. and Yamawaki,S. : Plasma dehydroepiandrosterone sulfate in unipolar major depression. **Journal of Neural Transmission** 105: 537-542, 1998.
107. Akechi,T., Kugaya,A., Okamura,H., Yamawaki,S. and Uchitomi,Y. : Fatigue and its associated factors in ambulatory cancer patients: a preliminary study. **Journal of Pain and Symptom Management** 17: 42-48, 1999.
108. Horiguchi,J., Yamashita,H., Mizuno,S., Kuramoto,Y., Kagaya,A., Yamawaki,S. and Inami,Y. : Nocturnal eating/drinking syndrome and neuroleptic-induced restless legs syndrome. **International Clinical Psychopharmacology** 14: 33-36, 1999.
109. Horiguchi,J., Shingu,T., Hayashi,T., Kagaya,A., Yamawaki,S., Horikawa,Y., Kitadai,Y., Inoue,M. and Nishikawa,T. : Antipsychotic-induced life-threatening 'esophageal dyskinesia'. **International Clinical Psychopharmacology** 14: 123-127, 1999.
110. Hosaka,T., Awazu,H., Aoki,T., Okuyama,T. and Yamawaki,S. : Screening for adjustment disorders and major depression in otolaryngology patients using the hospital anxiety and depression scale. **International Journal of Psychiatry in Clinical Practice** 3: 43-48, 1999.
111. Inagaki,M., Kagaya,A., Takebayashi,M., Horiguchi,J. and Yamawaki,S. : Effect of acute and chronic administration of dehydroepiandrosterone on (\pm)-1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane-induced wet dog shaking behavior in rats. **Journal of Neural Transmission** 106: 23-33, 1999.
112. Mori,K., Teramoto,K., Nagao,M., Horiguchi,J. and Yamawaki,S. : Regional cerebral blood flow in schizophrenia using stable xenon-enhanced computed tomography. **Neuropsychobiology** 39: 117-124, 1999.
113. Okamoto,Y., Okamoto,Y., Kagaya,A., Horiguchi,J. and Yamawaki,S. : The relationship of the platelet 5-HT-induced calcium response to clinical symptoms in eating disorders. **Psychopharmacology** 142: 289-294, 1999.
114. Okamoto,Y., Matsuoka,Y., Sasaki,T., Jitsuiki,H., Horiguchi,J. and Yamawaki,S. : Trazodone in the treatment of delirium. **Journal of Clinical Psychopharmacology** 19: 280-282, 1999.
115. Ishihara,K., Amano,T., Hayakawa,H., Yamawaki,S. and Sasa,M. : Enhancement of serotonin1A receptor function following repeated electroconvulsive shock in young rat hippocampal neurons in vitro. **International Journal of Neuropsychopharmacology** 2: 101-104, 1999.
116. Hayashi,T., Su,T.-P., Kagaya,A., Nishida,A., Shimizu,M. and Yamawaki,S. : Neuroleptics with differential affinities at dopamine D2 receptors and sigma receptors affect differently the N-methyl-D-aspartate-induced increase in intracellular calcium concentration: Involvement of protein kinase. **SYNAPSE** 31: 20-28, 1999.
117. Takebayashi,M., Fujikawa,T., Kagaya,A., Horiguchi,J. and Yamawaki,S. : Lithium and clonazepam treatment of two cases with cluster headache. **Psychiatry and Clinical Neurosciences** 53: 535-537, 1999.
118. Akechi,T., Kugaya,A., Okamura,H., Nakano,T., Okuyama,T., Mikami,I., Shima,Y., Yamawaki,S. and Uchitomi,Y. : Suicidal thoughts in cancer patients: clinical experience in psycho-oncology. **Psychiatry and Clinical Neurosciences** 53: 569-573, 1999.
119. Mikami,I., Akechi,T., Kugaya,A., Okuyama,T., Nakano,T., Okamura,H., Yamawaki,S. and Uchitomi,Y. : Screening for nicotine dependence among smoking-related cancer patients. **Japanese Journal of Cancer Research** 90: 1071-1075, 1999.

120. Yamashita,H., Horiguchi,J., Mizuno,S., Kuramoto,Y., Yamawaki,S. and Inami,Y. : A case of neuroleptic-induced unilateral akathisia with periodic limb movements during sleep in the opposite side. ***Psychiatry and Clinical Neurosciences*** 53: 291-293, 1999.
121. Sato,M., Nakane,N., Hayashida,M., Koshino,Y., Uchimura,H., Tsutsumi,T., Koyama,T., Kusumi,I., Akiyama,K., Saito,H., Saijo,T., Ito,C., Kubota,Y., Nishikawa,T., Kuroda,Y., Hamamura,T., Fujiwara,Y., Higuchi,T. and Yamawaki,S. : Algorithm for the treatment of schizophrenia in Japan. ***International Journal of Psychiatry in Clinical Practice*** 3: 271-276, 1999.
122. Higuchi,T., Fujiwara,Y., Iida,M., Iwanami,A., Kanba,S., Kitamura,H., Motohashi,N., Oshima,A., Shioe,K., Uchitomi,Y., Yamada,K., Yamawaki,S., Yokota,N. and Sato,M. : Algorithm for the treatment of mood disorders in Japan. ***International Journal of Psychiatry in Clinical Practice*** 3: 277-285, 1999.
123. Kagaya,A., Okada,A., Tawara,Y., Inagaki,M., Jitsuiki,H., Kozuru,T., Miyoshi,I., Katagiri,H., Uchitomi,Y., Horiguchi,J., Nakata,Y. and Yamawaki,S. : Lithium chloride inhibits thrombin-induced intracellular calcium mobilization in C6 rat glioma cells. ***Neuro-Psychopharmacology & Biological Psychiatry*** 24: 85-95, 2000.
124. Jitsuiki,H., Kagaya,A., Goto,S., Horiguchi,J. and Yamawaki,S. : Effect of lithium carbonate on the enhancement of serotonin 2A receptor elicited by dexamethasone. ***Neuropsychobiology*** 41: 55-61, 2000.
125. Kozuru,T., Kagaya,A., Takebayashi,M., Horiguchi,J. and Yamawaki,S. : Chronic electroconvulsive shock decreases (\pm)-1-(4-iodo-2,5-dimethoxyphenyl)-2-aminopropane hydrochloride (DOI)-induced wet-dog shake behaviors of dexamethasone-treated rats. ***Life Science*** 66: 1271-1279, 2000.
126. Nishida,A., Zensho,H., Hisaoka,K., Miyata,M. and Yamawaki,S. : Differential display of ethanol-induced gene in N18TG2 cells. ***Alcohol Clinical Experimental Research*** 24: 348-351, 2000.
127. Kagaya,A., Okada,A., Jitsuiki,H., Tawara,Y., Inagaki,M., Takebayashi,M., Saeki,T., Nishida,A., Nakata,Y. and Yamawaki,S. : Effect of heat stress on serotonin-2A receptor-mediated intracellular calcium mobilization in rat C6 glioma cells. ***Journal of Neural Transmission*** 107: 919-929, 2000.
128. Akechi,T., Okamura,H., Kugaya,A., Nakano,T., Nakanishi,T., Akizuki,N., Yamawaki,S. and Uchitomi,Y. : Suicidal ideation in cancer patients with major depression. ***Japan Journal of Clinical Oncology*** 30: 221-224, 2000.
129. Suenaga,T., Tawara,Y., Goto,S., Kouhata,S., Kagaya,A., Horiguchi,J., Yamanaka,Y. and Yamawaki,S. : Risperidone treatment of neuroleptic-induced tardive extrapyramidal symptoms. ***International Journal of Psychiatry in Clinical Practice*** 4: 241-243, 2000.
130. Akechi,T., Saeki,M., Kugaya,A., Okamura,H., Nishiwaki,Y., Yamawaki,S. and Uchitomi,Y. : Psychometric properties of the Japanese version of the mental adjustment to cancer (MAC) scale. ***Psycho-Oncology*** 9: 395-401, 2000.
131. Takebayashi,M., Kagaya,A., Inagaki,M., Kozuru,T., Jitsuiki,H., Kurata,K., Okamoto,Y. and Yamawaki,S. : Effects of antidepressants on γ -aminobutyric acid- and N-methyl-D-aspartate-induced intracellular Ca^{2+} concentration increases in primary cultured rat cortical neurons. ***Neuropsychobiology*** 42: 120-126, 2000.
132. Uchitomi,Y., Kugaya,A., Akechi,T., Nakano,T., Wenner,M., Okamura,H., Takebayashi,M., Kagaya,A., Saeki,T. and Yamawaki,S. : Three sets of diagnostic criteria for major depression and correlations with serotonin-induced platelet calcium mobilization in cancer patients. ***Psychopharmacology*** 153: 244-248, 2001.
133. Kagaya,A., Kugaya,A., Takebayashi,M., Fukue-Saeki,M., Saeki,T., Yamawaki,S. and Uchitomi,Y. : Plasma concentrations of interleukin-1 β , interleukin-6, soluble interleukin-2 receptor and tumor necrosis factor- α of depressed patients in Japan. ***Neuropsychobiology*** 43: 59-62, 2001.
134. Akechi,T., Okamura,H., Yamawaki,S. and Uchitomi,Y. : Why do some cancer patients with depression desire an early death and others do not? ***Psychosomatics*** 42: 141-145, 2001.
135. Kurata,K., Takebayashi,M., Kagaya,A., Morinobu,S. and Yamawaki,S. : Effect of β -estradiol on voltage-gated Ca^{2+} channels in rat hippocampal neurons: a comparison with dehydroepiandrosterone. ***European Journal of Pharmacology*** 416: 203-212, 2001.
136. Akechi,T., Okuyama,T., Imoto,S., Yamawaki,S. and Uchitomi,Y. : Biomedical and psychosocial determinants of psychiatric morbidity among postoperative ambulatory breast cancer patients. ***Breast Cancer Research and Treatment*** 65: 195-202, 2001.
137. Kouhata,S., Kagaya,A., Nakae,S., Nakata,Y. and Yamawaki,S. : Effect of acute lipopolysaccharide administration on (\pm)-1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane-induced wet dog shake behavior in rats: comparison with body weight change and locomotor activity. ***Progress in Neuro-Psychopharmacology & Biological Psychiatry*** 25: 395-407, 2001.
138. Katagiri,H., Kagaya,A., Nakae,S., Morinobu,S. and Yamawaki,S. : Modulation of serotonin-2A receptor function in rats after repeated treatment with dexamethasone and L-type calcium channel antagonist nimodipine. ***Progress in Neuro-Psychopharmacology & Biological Psychiatry*** 25: 1269-1281, 2001.

139. Sasaki,Y., Hayakawa,H., Kagaya,A., Horiguchi,J. and Yamawaki,S. : Effect of forced running stress on behavior and on brain serotonin system in rats. **Biogenic Amines** 16: 137-155, 2001.
140. Fujimaki,K., Morinobu,S., Takahashi,J., Yamawaki,S., Kato,N., Kannno,M., Okuyama,N., Kawakatsu,S., Otani,K., Kusumi,I. and Koyama,T. : Nucleotide sequene analysis of the binding site on the inositol 1,4,5-trisphosphate type-1 receptor in bipolar disorder - a negative study. **Journal of Affective Disorders** 65: 139-143, 2001.
141. Takahashi,J., Tanaka,K., Morinobu,S., Li,Sheng-Tian., Kato,K., Ohkawa,M., Yamawaki,S. and Kato,N. : Influence of restraint stress on the expression and the serine/threonine phoshatase activity of calcineurin in the rat brain. **SYNAPSE** 40: 130-136, 2001.
142. Fukumoto,T., Morinobu,S., Okamoto,Y., Kagaya,A. and Yamawaki,S. : Chronic lithium treatment increases the expression of brain-derived neurotrophic factor in the rat brain. **Psychopharmacology** 158: 100-106, 2001.
143. Miyoshi,I., Kagaya,A., Kohchi,C., Morinobu,S. and Yamawaki,S.: Characterization of 5-HT2A receptor desensitization and the effect of cycloheximide on it in C6 cells. **Journal of Neural Transmission** 108: 249-260, 2001.
144. Yamashita,H., Fujikawa,T., Yanai,I., Morinobu,S. and Yamawaki,S. : Clinical features and treatment response of patients with major depression and silent cerebral infarction. **Neuropsychobiology** 44: 176-182, 2001.
145. Hisaoka,K., Nishida,A., Koda,T., Miyata,M., Zensho,H., Morinobu,S., Ohta,M. and Yamawaki,S. : Antidepressant drug treatments induce glial cell line-derived neurotrophic factor(GDNF) synthesis and release in rat C6 glioblastoma cells. **Journal of Neurochemistry** 79: 25-34, 2001.
146. Kagaya,A., Katagiri,H., Tawara,Y., Kugaya,A., Inagaki,M., Miyoshi,I., Jitsuiki,H., Kozuru,T., Kouhata,S., Morinobu,S. and Yamawaki,S. : Effect of sub-chronic treatment with duloxetine on serotonin-2A receptor function in vivo and in vitro. **Biogenic Amines** 16: 541-554, 2001.
147. Matsuoka Y, Miyake Y, Arakaki H, Tanaka K, Saeki T, Yamawaki S. Clinical utility and validation of the Japanese version of Memorial Delirium Assessment Scale in a psychogeriatric inpatient setting. **General Hospital Psychiatry** 23:36-40, 2001.
148. Yamashita,H., Fujikawa,T., Yanai,I., Morinobu,S. and Yamawaki,S. : Cognitive dysfunction in recovered depressive patients with silent cerebral infarction. **Neuropsychobiology** 45: 12-18, 2002.
149. Tamura,T., Morinobu,S., Okamoto,Y., Kagaya,A. and Yamawaki,S. : The effects of antidepressant drug treatments on activator protein-1 binding activity in the rat brain. **Progress in Neuro-Psychopharmacology & Biological Psychiatry** 26: 375-381, 2002.
150. Mori,K., Yamashita,H., Nagao,M., Horiguchi,J. and Yamawaki,S. : Effects of anticholinergic drug withdrawal on memory, regional cerebral blood flow and extrapyramidal side effects in schizophrenic patients. **Pharmacopsychiatry** 35: 6-11, 2002.
151. Yamashita,H., Morinobu,S., Yamawaki,S., Horiguchi,J. and Nagao,M. : Effect of risperidone on sleep in schizophrenia: a comparison with haloperidol. **Psychiatry Research** 109: 137-142, 2002.
152. Saeki,T., Asukai,N., Miyake,Y., Miguchi,M. and Yamawaki,S. : Characteristics of family functioning in patients with endogenous monopolar depression. **Hiroshima Journal of Medical Sciences** 51: 55-62, 2002.
153. Tsuji,S., Kikkawa,S., Horiguchi,J., Yamashita,H., Kagaya,A., Morinobu,S. and Yamawaki,S. : Meige syndrome with apraxia of lid opening after the discontinuation of sulpiride treatment. **Pharmacopsychiatry** 35: 155-156, 2002.
154. Tanaka,K., Takahashi,J., Morinobu,S., Fujimaki,K., Tsuji,S., Kato,K., Ohkawa,M., Yamawaki,S. and Kato,N. : Imipramine, but not lithium, induces the serine/threonine phosphatase activity of calcineurin without affecting its mRNA expression in the rat brain. **Psychopharmacology** 162: 339-344, 2002.
155. Asahi,S., Nishikawa,T., Kurata,K., Morinobu,S. and Yamawaki,S. : A case of myoclonus, resembling epileptic seizure, induced by short-term sulpiride treatment. **International Journal of Psychiatry in Clinical Practice** 6: 215-216, 2002.
156. Uchitomi,Y., Kugaya,A., Akechi,T., Nakano,T., Inagaki,M., Matsuoka,Y., Kagaya,A. and Yamawaki,S. : Lack of association between suicidal ideation and enhanced platelet 5-HT2A receptor-Mediated calcium mobilization in cancer patients with depression. **Biological Psychiatry** 52: 1159-1165, 2002.
157. Nishida,A., Hisaoka,K., Zensho,H., Uchitomi,Y., Morinobu,S. and Yamawaki,S. : Antidepressant drugs and cytokines in mood disorders. **International Immunopharmacology** 2: 1619-1626, 2002.
158. Matsuoka Y, Nakano T, Inagaki M, Sugawara Y, Akechi T, Imoto S, Murakami K, Yamawaki S, Uchitomi Y. Cancer-related intrusive thoughts as an indicator of poor psychological adjustment at 3 or more years after breast surgery: a preliminary study. **Breast Cancer Research and Treatment** 76:117-124, 2002.
159. Okada,G., Okamoto,Y., Morinobu,S., Yamawaki,S. and Yokota,N. : Attenuated left prefrontal activation during a verbal fluency task in patients with depression. **Neuropsychobiology** 47: 21-26, 2003.

160. Inoue,S., Saeki,T., Mantani,T., Okamura,H. and Yamawaki,S. : Factors related to patient's mental adjustment to breast cancer: patient characteristics and family functioning. **Supportive Care in Cancer** 11: 178-184, 2003.
161. Ueda,K., Okamoto,Y., Okada,G., Yamashita,H., Hori,T. and Yamawaki,S. : Brain activity during expectancy of emotional stimuli: an fMRI study. **Neuroreport** 14: 51-55, 2003.
162. Tsuji,S., Morinobu,S., Tanaka,K., Kawano,K. and Yamawaki,S. : Lithium, but not valproate, induces the serine/threonine phosphatase activity of protein phosphatase 2A in the rat brain, without affecting its expression. **Journal of Neural Transmission** 110:413-425 2003.
163. Katagiri,H., Kagaya,A., Kozuru,T., Jitsuiki,H., Kawano,K., Morinobu,S. and Yamawaki,S. : Effect of repeated treatment with lamotrigine on locomotor activity and on DOI-elicited wet dog shakes in rats. **Biogenic Amines** 17: 149-159, 2003.
164. Matsuoka,Y., Yamawaki,S., Inagaki,M., Akechi,T. and Uchitomi,Y. : A volumetric study of amygdala in cancer survivors with intrusive recollections. **Biological Psychiatry** 54: 736-743, 2003.
165. Morinobu,S., Fujimaki,K., Kawano,K., Tanaka,K., Takahashi,J., Ohkawa,M., Yamawaki,S. and Kato,N. : Influence of immobilization on stress on the expression and phosphatase activity of protein phosphatase 2A in the rat brain. **Biological Psychiatry** 54: 1060-1066, 2003.
166. Kagaya,A., Okamura,H., Takebayashi,M., Akechi,T., Morinobu,S., Yamawaki,S. and Uchitomi,Y. : Mood disturbance and neurosteroids in women with breast cancer. **Stress and Health** 19: 227-231, 2003.
167. Shirao,N., Okamoto,Y., Okada,G., Okamoto,Y. and Yamawaki,S. : Temporomesial activation in young females associated with unpleasant words concerning body image. **Neuropsychobiology** 48: 136-142, 2003.
168. Fujikawa,T., Takahashi,T., Kinoshita,A., Kajiyama,H., Kurata,A., Yamashita,H. and Yamawaki,S. : Quetiapine treatment for behavioral and psychological symptoms in patients with senile dementia of Alzheimer type. **Neuropsychobiology** 49: 201-204, 2004.
169. Hisaoka,K., Nishida,A., Takebayashi,M., Koda,T., Yamawaki,S. and Nakata,Y. : Serotonin increases glial cell line-derived neurotrophic factor release in rat C6 glioblastoma cells. **Brain Research** 1002: 167-170, 2004.
170. Asahi,S., Okamoto,Y., Okada,G., Yamawaki,S. and Yokota,N. : Negative correlation between right prefrontal activity during response inhibition and impulsiveness: A fMRI study. **European Archives of Psychiatry and Clinical Neuroscience** 254: 245-251, 2004.
171. Suenaga,T., Morinobu,S., Kawano,K., Sawada,T. and Yamawaki,S. : Influence of immobilization stress on the levels of CaMKII and phospho-CaMKII in the rat hippocampus. **International Journal of Neuropsychopharmacology** 7: 299-309, 2004.
172. Mori,K., Nagao,M., Yamashita,H., Morinobu,S. and Yamawaki,S. : Effect of switching to atypical antipsychotics on memory in patients with chronic schizophrenia. **Progress in Neuro-Psychopharmacology & Biological Psychiatry** 28: 659-665, 2004.
173. Kurata,K., Takebayashi,M., Morinobu,S. and Yamawaki,S. : β -estradiol, dehydroepiandrosterone, and dehydroepiandrosterone sulfate protect against N-Methyl-D-aspartate-induced neurotoxicity in rat hippocampal neurons by different mechanisms. **The Journal of Pharmacology and Experimental Therapeutics**. 311: 237-245, 2004.
174. Yamashita,H., Mori,K., Nagao,M., Okamoto,Y., Morinobu,S. and Yamawaki,S. : Effects of changing from typical to atypical antipsychotic drugs on subjective sleep quality in patients with schizophrenia in a Japanese population. **The Journal of Clinical Psychiatry** 65: 1525-1530, 2004.
175. Morinobu,S., Kawano,K. and Yamawaki,S. : Lithium and protein phosphatases: apoptosis or neurogenesis? **Clinical Neuroscience Research** 4: 263-269, 2004.
176. Kusaka,K., Morinobu,S., Kawano,K. and Yamawaki,S. : Effect of neonatal isolation on the noradrenergic transduction system in the rat hippocampal slice. **Synapse** 54: 223-232, 2004.
177. Tanaka,SC., Doya,K., Okada,G., Ueda,K., Okamoto,Y. and Yamawaki,S. : Prediction of immediate and future rewards differentially recruits cortico-basal ganglia loops. **Nature Neuroscience** 7: 887-893, 2004.
178. Sawada,T., Morinobu,S., Tsuji,S., Kawano,K., Watanabe,T., Suenaga,T., Takahashi,T., Yamawaki,S. and Nishida,A. : Reduction in levels of amphiphysin 1 mRNA in the hippocampus of aged rats subjected to repeated variable stress. **Neuroscience** 126: 461-466, 2004.
179. Toki,S., Morinobu,S., Yoshino,A. and Yamawaki,S. : A case of venous thromboembolism probably associated with hyperprolactinemia after the addition of olanzapine to typical antipsychotics. **The Journal of Clinical Psychiatry** 65: 1576-1577, 2004.
180. Shirao,N., Okamoto,Y., Mantani,T., Okamoto,Y. and Yamawaki,S. : Gender differences in brain activity generated by unpleasant word stimuli concerning body image: an fMRI study. **The British Journal of Psychiatry** 186: 48-53, 2005.
181. Akizuki,N., Yamawaki,S., Akechi,T., Nakano,T. and Uchitomi,Y. : Development of an impact thermometer for use in combination with the distress thermometer as a brief screening tool for

- adjustment disorders and/or major depression in cancer patients. *Journal of Pain and Symptom Management* 29: 91-99, 2005.
182. Shirao,N., Okamoto,Y., Okada,G., Ueda,K. and Yamawaki,S. : Gender differences in brain activity toward unpleasant linguistic stimuli concerning interpersonal relationships: an fMRI study. *European Archives of Psychiatry and Clinical Neuroscience* 255: 327-333, 2005.
 183. Yamashita,H., Okamoto,Y., Morinobu,S., Yamawaki,S. and Kahkonen,S. : Visual emotional stimuli modulation of auditory sensory gating studied by magnetic P50 suppression. *Eur Arch Psychiatry Clinical Neurosci.* 255: 99-103, 2005.
 184. Mantani,T., Okamoto,Y., Shirao,N., Okada,G. and Yamawaki,S. : Reduced activation of posterior cingulate cortex during imagery in subjects with high degrees of alexithymia: a functional magnetic resonance imaging study. *Biological Psychiatry* 57: 982-990, 2005.
 185. Ozono,S., Saeki,T., Inoue,S., Mantani,T., Okamura,H. and Yamawaki,S. : Family functioning and psychological distress among Japanese breast cancer patients and families. *Supportive Care in Cancer* 13: 1044-1050, 2005.
 186. Okamura,M., Yamawaki,S., Akechi,T., Taniguchi,K. and Uchitomi,Y. : Psychiatric disorders following first breast cancer recurrence: prevalence, associated factors and relationship to quality of life. *Japanese Journal of Clinical Oncology* 35: 302-309, 2005.
 187. Yamashita,H., Mori,K., Nagao,M., Okamoto,Y., Morinobu,S. and Yamawaki,S. : Influence of aging on the improvement of subjective sleep quality by atypical antipsychotic drugs in patients with schizophrenia. *American Journal of Geriatric Psychiatry* 13: 377-384, 2005.
 188. Kobayakawa,M., Yamawaki,M., Hamazaki,K., Akechi,T., Inagaki,M. and Uchitomi,Y. : Levels of omega-3 fatty acid in serum phospholipids and depression in patients with lung cancer. *British Journal of Cancer* 93:1329-1333, 2005.
 189. Takebayashi,M., Hisaoka,K., Nishida,A., Tsuchioka,M., Miyoshi,I., Kozuru,T., Hikasa,S., Okamoto,Y., Shinno,H., Morinobu,S. and Yamawaki,S. : Decreased levels of whole blood glial cell line-derived neurotrophic factor (GDNF) in remitted patients with mood disorders. *International Journal of Neuropsychopharmacology* 9: 607-612, 2006.
 190. Kurosaki,M., Shirao,N., Yamashita,H., Okamoto,Y. and Yamawaki,S. : Distorted images of one's own body activates the prefrontal cortex and limbic/paralimbic system in young women: a functional magnetic resonance imaging study. *Biological Psychiatry* 59: 380-386, 2006.
 191. Imanaka,A., Morinobu,S., Toki,S. and Yamawaki,S. : Importance of early environment in the development of post-traumatic stress disorder-like behaviors. *Behavioural Brain Research* 173: 129-137, 2006.
 192. Erabi,K., Morinobu,S., Kawano,K., Tsuji,S and Yamawaki,S. : Neonatal isolation changes the expression of IGF-IR and IGFBP-2 in the hippocampus in response to adulthood restraint stress. *The International Journal of Neuropsychopharmacology*, 19: 1-13, 2006.
 193. Takahashi,T., Morinobu,S., Iwamoto,Y. and Yamawaki,S. : Effect of paroxetine on enhanced contextual fear induced by single prolonged stress in rats. *Psychopharmacology*, 189: 165-173, 2006.
 194. Onoda,K., Okamoto,Y., Shishida,K., Hashizume,A., Ueda,K., Kinoshita,A., and Yamashita,H., Yamawaki,S. : Anticipation of affective image modulates visual evoked magnetic fields(VEF). *Experimental Brain Research*, 175: 536-543, 2006.
 195. Tanaka,SC., Samejima,K., Okada,G., Ueda,K., Okamoto,Y., Yamawaki,S. and Doya,K. : Brain mechanism of reward prediction under predictable and unpredictable environmental dynamics. *Neural Networks*, 19: 1233-1241, 2006.
 196. Schweighofer,N., Shishida,K., Han,CE., Okamoto,Y., Tanaka,SC., Yamawaki,S. and Doya,K. : Humans can adopt optimal discounting strategy under real-time constraints. *PLoS Computational Biology*, 10: e152, 2006.
 197. Shishida,K., Hashizume,A., Onoda,K., Okamoto,Y. and Yamawaki,S. : Enhanced reactivity and delayed recovery of sensorimotor cortex in the novelty seeking personality. *Neuropsychobiology*, 54: 215-225, 2006.
 198. Ozono,S., Saeki,T., Mantani,T., Ogata,A., Okamura,H. and Yamawaki,S. : Factors related to posttraumatic stress in adolescent survivors of childhood cancer and their parents. *Support Care Cancer*, 15: 309-317, 2007.
 199. Toki,S., Morinobu,S., Imanaka,A., Yamamoto,S., Yamawaki,S. and Honma,K. : Importance of early lighting conditions in maternal care by dam as well as anxiety and memory later in life of offspring. *European Journal of Neuroscience*, 25: 815-829, 2007.
 200. Hama,S., Yamashita,H., Shigenobu,M. Watanabe,A., Kurisu,K. Yamawaki,S., and Kitaoka,T. : Post-stroke affective or apathetic depression and lesion location: left frontal lobe and bilateral basal ganglia. *European Archives of Psychiatry and Clinical Neuroscience*, 257:149-152, 2007.
 201. Hisaoka,K., Takebayashi,M., Tuchioka,M., Maeda,N., Nakata,Y. and Yamawaki,S. : Antidepressants increase glial cell line-derived neurotrophic factor production through monoamine independent

- activation of protein tyrosine kinase and extracellular signal-regulated kinase in glial cells. *Journal of Pharmacology and Experimental Therapeutics*, 321: 148-157, 2007.
202. Mantani,T., Saeki,T., Inoue,S., Okamura,H., Daino,M., Kataoka,T. and Yamawaki,S. : Factors related to anxiety and depression in women with breast cancer and their husbands: role of alexithymia and family functioning. *Support Care Cancer*, 15:859-868, 2007.
 203. Takami,H., Okamoto,Y., Yamashita,H., Okada,G. and Yamawaki,S. : Attenuated anterior cingulate activation during a verbal fluency task in elderly patients with a history of multiple-episode depression. *American Journal of Geriatric Psychiatry*, 15:594-603, 2007.
 204. Iwamoto,Y., Morinobu,S., Takahashi,T. and Yamawaki,S. : Single prolonged stress increases contextual freezing and the expression of glycine transporter 1 and vesicle-associated membrane protein 2 mRNA in the hippocampus of rats. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 31:642-651, 2007.
 205. Onoda,K., Okamoto,Y., Shishida,K., Hashizume,A., Ueda,K., Yamashita,H., Yamawaki,S. : Anticipation of affective images and event-related desynchronization (ERD) of alpha activity: an MEG study. *Brain Research* 1151: 134-141, 2007.
 206. Hama,S., Yamashita,H., Shigenobu,M., Watanabe,A., Hiramoto,K., Kurisu,K., Yamawaki,S., Kitaoka,T. : Depression or apathy and functional recovery after stroke. *International Journal of Geriatric Psychiatry* 22: 1046-1051, 2007.
 207. Mantani,T., Saeki,T., Inoue,S., Okamura,H., Daino,M., Kataoka,T., Yamawaki,S. : Factors related to anxiety and depression in women with breast cancer and their husbands: role of alexithymia and family functioning. *Support Care Cancer* 15: 859-868, 2007.
 208. Hama,S., Yamashita,H., Shigenobu,M., Watanabe,A., Hiramoto,K., Takimoto,Y., Arakawa,R., Kurisu,K., Yamawaki,S., Kitaoka,T. : Sitting balance as an early predictor of functional improvement in association with depressive symptoms in stroke patients. *Psychiatry and Clinical Neurosciences* 61: 543-551, 2007.
 209. Tanaka,SC., Schweighofer,N., Asahi,S., Shishida,K., Okamoto,Y., Yamawaki,S., Doya,K. : Serotonin differentially regulates short- and long-term prediction of rewards in the ventral and dorsal striatum. *PLoS ONE* 2: e1333, 2007.
 210. Imanaka,A., Morinobu,S., Toki,S., Yamamoto,S., Matsuki,A., Kozuru,T., Yamawaki,S. : Neonatal tactile stimulation reverses the effect of neonatal isolation on open-field and anxiety-like behavior, and pain sensitivity in male and female adult Sprague-Dawley rats. *Behavioural Brain Research* 186: 91-97, 2008.
 211. Kawano,K., Morinobu,S., Sawada,T., Tsuji,S., Erabi,K., Fuchikami,M., Kozuru,T., Yamawaki,S., Hisaoka,K., Takebayashi,M. : Prior neonatal isolation reduces induction of NGF mRNA and decreases GDNF mRNA in the hippocampus of juvenile and adult rodents subjected to immobilization stress. *Synapse* 62: 259-267, 2008.
 212. Onoda,K., Okamoto,Y., Toki,S., Ueda,K., Shishida,K., Kinoshita,A., Yoshimura,S., Yamashita,H., Yamawaki,S. : Anterior cingulated cortex modulates preparatory activation during certain anticipation of negative picture. *Neuropsychologia* 46: 102-110, 2008.
 213. Yonezawa,H., Otagaki,Y., Miyake,Y., Okamoto,Y., Yamawaki,S. : No differences are seen in the regional cerebral blood flow in the restricting type of anorexia nervosa compared with the binge eating/purging type. *Psychiatry and Clinical Neurosciences* 62: 26-33, 2008.
 214. Yamamoto,S., Morinobu,S., Fuchikami,M., Kurata,A., Kozuru,T., Yamawaki,S. : Effects of single prolonged stress and D-cycloserine on contextual fear extinction and hippocampal NMDA receptor expression in a rat model of PTSD. *Neuropsychopharmacology*, 33: 2108-2116, 2008.
 215. Mantani,A., Fujikawa,T., Ohmori,N., Yamawaki,S. : Methylphenidate in the treatment of geriatric patients with vascular depression: a retrospective chart review. *American Journal of Geriatric Psychiatry* 16: 336-337, 2008.
 216. Schweighofer,N., Bertin,M., Shishida,K., Okamoto,Y., Tanaka,SC., Yamawaki,S., Doya,K. : Low-serotonin levels increase delayed reward discounting in humans. *Journal of Neuroscience* 28: 4528-4532, 2008.
 217. Tanaka,K., Morinobu,S., Ichimura,M., Asakawa,A., Inui,A., Hosoda,H., Kangawa,K., Yamawaki,S. : Decreased levels of ghrelin, cortisol, and fasting blood sugar, but not n-octanoylated ghrelin, in Japanese schizophrenic inpatients treated with olanzapine. *Progress in Neuro-Psychopharmacology & Biological Psychiatry* 32: 1527-1532, 2008.
 218. Hama,S., Yamashita,H., Kato,T., Shigenobu,M., Watanabe,A., Sawa,M., Kurisu,K., Yamawaki,S., Kitaoka,T. : 'Insistence on recovery' as a positive prognostic factor in Japanese stroke patients. *Psychiatry and Clinical Neurosciences* 62: 386-395, 2008.
 219. Fuchikami,M., Morinobu,S., Kurata,A., Yamamoto,S., Yamawaki,S. : Single immobilization stress differentially alters the expression profile of transcripts of the brain-derived neurotrophic factor (BDNF) gene and histone acetylation at its promoters in the rat hippocampus. *International Journal of Neuropsychopharmacology* 12: 73-82, 2009.

220. Yoshimura,S., Ueda,K., Suzuki,SI., Onoda,K., Okamoto,Y., Yamawaki,S. : Self-referential processing of negative stimuli within the ventral anterior cingulate gyrus and right amygdala. **Brain and Cognition**, 69: 218-225, 2009.
221. Okada,G., Okamoto,Y., Yamashita,H., Ueda,K., Takami,H., Yamawaki,S. : Attenuated prefrontal activation during a verbal fluency task in remitted major depression. **Psychiatry and Clinical Neurosciences** 63: 423-425, 2009.
222. Kurata,A., Morinobu,S., Fuchikami,M., Yamamoto,S., Yamawaki,S. : Maternal postpartum learned helplessness (LH) affects maternal care by dams and responses to the LH test in adolescent offspring. **Hormones and Behavior** 56: 112-120, 2009.
223. Onoda,K., Okamoto,Y., Yamawaki,S. : Neural correlates of associative memory: the effects of negative emotion. **Neuroscience Research** 64: 50-55, 2009.
224. Miyake,Y., Okamoto,Y., Onoda,K., Shirao,N., Mantani,T., Yamawaki,S. : Neural correlates of alexithymia in response to emotional stimuli: a study of anorexia nervosa patients. **Hiroshima Journal of Medical Sciences** 58: 1-8, 2009.
225. Onoda K, Okamoto Y, Nakashima K, Nittono H, Ura M, Yamawaki S. Decreased ventral anterior cingulate cortex activity is associated with reduced social pain during emotional support. **Social Neurosciences**. 4:443-54. 2009.
226. Tanaka SC, Shishida K, Schweighofer N, Okamoto Y, Yamawaki S, Doya K.: Serotonin affects association of aversive outcomes to past actions. **Journal of Neuroscience**.29:15669-74, 2009
227. Ozono S, Saeki T, Mantani T, Ogata A, Okamura H, Nakagawa SI, Ueda K, Inada H, Yamawaki S. Psychological distress related to patterns of family functioning among Japanese childhood cancer survivors and their parents. **Psychooncology**. 2010 (in press)
228. Yoshimura, S., Okamoto, Y., Onoda, K., Matsunaga, M., Ueda, K., Suzuki, S., Yamawaki, S.: Rostral anterior cingulate cortex activity mediates the relationship between the depressive symptoms and the medial prefrontal cortex activity. **Journal of Affective Disorders** 122:76-85, 2010.
229. Yoshino A, Okamoto Y, Onoda K, Yoshimura S, Kunisato Y, Demoto Y, Okada G, Yamawaki S.:Sadness enhances the experience of pain via neural activation in the anterior cingulate cortex and amygdala. **Neuroimage** 50:1194-1201, 2010.
230. Miyake Y, Okamoto Y, Onoda K, Shirao N, Okamoto Y, Otagaki Y, Yamawaki S.:Neural processing of negative word stimuli concerning body image in patients with eating disorders: An fMRI study. **Neuroimage**. 50:1333-1339 2010.
231. Matsunaga M, Okamoto Y, Suzuki SI, Kinoshita A, Yoshimura S, Yoshino A, Kunisato Y, Yamawaki S.:Psychosocial functioning in patients with treatment-resistant depression after group cognitive behavioral therapy. **BMC Psychiatry** 10: 2010 (e-pub)
232. Kunisato,Y., Okamoto,Y., Okada,G., Aoyama,S., Demoto,Y., Munakata,A., Nomura,M., Onoda,K., Yamawaki,S. : Modulation of default-mode network activity by acute tryptophan depletion is associated with mood change: A resting state functional magnetic resonance imaging study. **Neuroscience Research** 69: 129-134, 2011.
233. Takei,S., Morinobu,S., Yamamoto,S., Fuchikami,M., Matsumoto,T., Yamawaki,S. : Enhanced hippocampal BDNF/TrkB signaling in response to fear conditioning an animal model of posttraumatic stress disorder. **Journal of Psychiatric Research** 45: 460-468, 2011.
234. Kunisato,Y., Okamoto,Y., Okada,G., Aoyama,S., Nishiyama,Y., Onoda,K., Yamawaki,S. : Personality traits and the amplitude of spontaneous low-frequency oscillations during resting state. **Neuroscience Letters** 492: 109-113, 2011.
235. Hama,S., Yamashita,H., Yamawaki,S., Kurisu,K. : Post-stroke depression and apathy: Interactions between functional recovery, lesion location, and emotional response. **Psychogeriatrics** 11: 68-76,
236. Onoda,K., Okamoto,Y., Kunisato,Y., Aoyama,S., Shishida,K., Okada,G., Tanaka,SC., Schiweighofer,N., Yamaguchi,S., Doya,K., Yamawaki,S. : Inter individual discount factor differences in reward prediction are topographically associated with caudate activation. **Experimental Brain Research** 212: 593-601, 2011.
237. Fujita,Y., Takebayashi,M., Hisaoka,K., Tsuchioka,M., Morinobu,S., Yamawaki,S. : Asymmetric alternation of the hemodynamic response at the prefrontal cortex in patients with schizophrenia during electroconvulsive therapy: a near-infrared spectroscopy study. **Brain Research** 1410: 132-140, 2011.
238. Sumiyoshi,H., Mantani,A., Nishiyama,S., Fujiwaki,S., Ohta,S., Masuda,Y., Tomita,Y., Tarumoto,N., Yamawaki,S. : Yokukansan treatment in chronic renal failure patients with dementia receiving hemodialysis: an open label study. **American Journal of Geriatric Psychiatry** 19: 906-907, 2011.
239. Fuchikami,M., Morinobu,S., Segawa,M., Okamoto,Y., Yamawaki,S., Ozaki,N., Inoue,T., Kusumi,I., Koyama,T., Tsuchiyama,K., Terao,T. : DNA methylation profiles of the brain-derived neurotrophic factor (BDNF) gene as a potent diagnostic biomarker in major depression. **PLoS One** 6: e23881, 2011(e-pub).

240. Okada,G., Okamoto,Y., Kunisato,Y., Aoyama,S., Nishiyama,Y., Yoshimura,S., Onoda,K., Toki,S., Yamashita,H., Yamawaki,S. : The effect of negative and positive emotionality on associative memory: an fMRI study. *PLoS One* 6: e24862, 2011(e-pub).
241. Kobayakawa,M., Inagaki,M., Fujimori,M., Hamazaki,K., Hamazaki,T., Akechi,T., Tsugane,S., Nishiwaki,Y., Goto,K., Hahsimoto,K., Yamawaki,S., Uchitomi,Y. : Serum brain-derived neurotrophic factor and antidepressant-naïve major depression after lung cancer diagnosis. *Japanese Journal of Clinical Oncology* 41: 1233-1237, 2011.
242. Yamawaki,Y., Fuchikami,M., Morinobu,S., Segawa,M., Matsumoto,T., Yamawaki,S. : Antidepressant-like effect of sodium butyrate (HDAC inhibitor) and its molecular mechanism of action in the rat hippocampus. *The World Journal of Biological Psychiatry* 2011(e-pub).
243. Demoto,Y., Okada,G., Okamoto,Y., Kunisato,Y., Aoyama,S., Onoda,K., Munakata,A., Nomura,M., Tanaka,SC., Schweighofer,N., Doya,K., Yamawaki,S. : Neural and personality correlates of individual differences related to the effects of acute tryptophan depletion on future reward evaluation. *Neuropsychobiology* 65: 55-64, 2012.
244. Segawa,M., Morinobu,S., Matsumoto,T., Fuchikami,M., Yamawaki,S. : Electro convulsive seizure, but not imipramine, rapidly up-regulates pro-BDNF and t-PA, leading to mature BDNF production, in the rat hippocampus. *The International Journal of Neuropsychopharmacology* 6: 1-12, 2012.
245. Fujita,Y., Morinobu,S., Takei,S., Fuchikami,M., Matsumoto,T., Yamamoto,S., Yamawaki,S. : Vorinostat, a histone deacetylase inhibitor, facilitates fear extinction and enhances expression of the hippocampal NR2B-containing NMDA receptor gene. *Journal of Psychiatric Research* 46: 635-643, 2012.
246. Miyake,Y., Okamoto,Y., Onoda,K., Shirao,N., Okamoto,Y., Yamawaki,S. : Brain activation during the perception of stressful word stimuli concerning interpersonal relationships in anorexia nervosa patients with high degrees of alexithymia in an fMRI paradigm. *Psychiatry Research* 201: 113-119, 2012.
247. Sawa,M., Yamashita,H., Fujimaki,K., Okada,G., Takahashi,T., Yamawaki,S. : Depressive symptoms and apathy are associated with psychomotor slowness and frontal activation. *European Archives of Psychiatry and Clinical Neuroscience*, 262: 493-499, 2012.
248. Fujimaki,K., Morinobu,S., Yamashita,H., Takahashi,T., Yamawaki,S. : Predictors of quality of life in inpatients with schizophrenia. *Psychiatry Research*, 197: 199-205, 2012.
249. Yoshino,A., Okamoto,Y., Onoda,K., Shishida,K., Yoshimura,S., Kunisato,Y., Demoto,Y., Okada,G., Toki,S., Yamashita,H., Yamawaki,S. : Sadness enhances the experience of pain and affects pain-evoked cortical activities: an MEG study. *The Journal of Pain* 13: 628-635, 2012
250. Kunisato,Y., Okamoto,Y., Ueda,K., Onoda,K., Okada,G., Yoshimura,S., Suzuki,S., Samejima,K., Yamawaki,S. : Effects of depression on reward-based decision making and variability of action in probabilistic learning. *Journal of Behavior Therapy and Experimental Psychiatry* 43: 1088-1094, 2012
251. Yamawaki,S., Okada,G., Okamoto,Y., Liverzon,I.: Mood dysregulation and stabilization: perspectives from emotional cognitive neuroscience. *The International Journal of Neuropsychopharmacology* 15: 681-694, 2012.
252. Kinoshita,A., Okamoto,Y., Okada,G., Demoto,Y., Kunisato,Y., Yoshimura,S., Onoda,K., Kamachi,M., Yamawaki,S.: Sex differences in neural activation to ambiguous facial expression in happy and sad context. *Percept Mot Skills* 115: 349-359, 2012.
253. Sato,G., Yoshimura,S., Yamashita,H., Okamoto,Y., Yamawaki,S. : The neurocognitive effects of aripiprazole compared with risperidone in the treatment of schizophrenia. *Hiroshima Journal of Medical Sciences* 61: 75-83, 2012.
254. Murakami,T., Hama,S., Yamashita,H., Onoda,K., Kobayashi,M., Kanazawa,J., Yamawaki,S., Kurisu,K.: Neuroanatomic pathways associated with poststroke affective and apathetic depression. *The American Journal of Geriatric Psychiatry* 21: 840-847, 2013.
255. Segawa,M., Morinobu,S., Matsumoto,T., Fuchikami,M., Yamawaki,S. : Electro convulsive seizure, but not imipramine, rapidly up-regulates pro-BDNF and t-PA, leading to mature BDNF production, in the rat hippocampus. *The International Journal of Neuropsychopharmacology* 16: 339-350, 2013.
256. Sawa,M., Yamashita,H., Fujimaki,K., Okada,G., Takahashi,T., Yamawaki,S. : Negative correlation between affective symptoms and prefrontal activation during a verbal fluency task: a near-infrared spectroscopy study. *Neuropsychobiology* 67: 103-110, 2013
257. Machino,A., Jitsuiki,H., Okamoto,Y., Izumitani,S., Kimura,Y., Suzuki,K., Tanaka,T., Inoue,T., Koyama,T., Wada,K., Masaoka,Y., Sasaki,T., Yoshimura,R., Nakamura,J., Sumitani,S., Ohmori,T., Yamawaki,S. : The valproate serum level in maintenance therapy for bipolar disorder in Japan. *Hiroshima Journal of Medical Sciences* 62: 7-12, 2013.
258. Yoshimura,S., Okamoto,Y., Onoda,K., Matsunaga,M., Okada,G., Kunisato,Y., Yoshino,A., Ueda,K., Suzuki,SI., Yamawaki,S. : Cognitive behavioral therapy for depression changes medical prefrontal and ventral anterior cingulate cortex activity associated with self-referential processing. *Social Cognitive and Affective Neuroscience* 2013(e-Pub).

259. Matsumoto, Y., Morinobu, S., Yamamoto, S., Matsumoto, T., Takei, S., Fujita, Y., Yamawaki, S. : Vorinostat ameliorates impaired fear extinction possibly via the hippocampal NMDA-CaMKII pathway in an animal model of posttraumatic stress disorder. *Psychopharmacology* 229: 51-62, 2013.
260. Sumiyoshi, H., Mantani, A., Nishiyama, S., Fujiwaki, S., Ohta, S., Masuda, Y., Tomita, Y., Tarumoto, N., Yamawaki, S. : Yokukansan treatment of chronic renal failure patients receiving hemodialysis, with behavioral and psychological symptoms of dementia: an open-label study. *American Journal of Geriatric Psychiatry* 21: 1082-1085, 2013.
261. Yoshino, A., Okamoto, Y., Onoda, K., Kinoshita, A., Shishida, K., Machino, A., Fukumoto, T., Yamashita, H., Yoshida, H., Yamawaki, S. : Distinctive neuroal responses to pain stimuli during induced sadness in patients with somatoform pain disorder: an fMRI study. *Neuroimage Clinical* 12: 782-789, 2013.
262. Toki, S., Okamoto, Y., Onoda, K., Kinoshita, A., Shishida, K., Machino, A., Fukumoto, T., Yamashita, H., Yoshida, H., Yamawaki, S. : Automatic and intentional brain responses during evaluation of face approachability: correlations with trait anxiety. *Neuropsychobiology* 68: 156-167, 2013.
263. Nakao, T., Matsumoto, T., Shimizu, D., Morita, M., Yoshimura, S., Northoff, G., Morinobu, S., Okamoto, Y., Yamawaki, S. : Resting state low-frequency fluctuations in prefrontal cortex reflect degrees of harm avoidance and novelty seeking: an exploratory NIRS study. *Frontiers in Systems Neuroscience* 7: 115, 2013(eCollection).
264. Nakao, T., Matsumoto, T., Morita, M., Shimizu, D., Yoshimura, S., Northoff, G., Morinobu, S., Okamoto, Y., Yamawaki, S. : The degree of early life stress predicts decreased medial prefrontal activations and the shift from internally to externally guided decision making: An exploratory NIRS study during resting state and self-oriented task. *Frontiers in Human Neuroscience* 7: 339, 2013(eCollection).
265. Yoshimura, Y., Okamoto, Y., Onoda, K., Okada, G., Toki, S., Yoshino, A., Yamashita, H., Yamawaki, S. : Psychosocial functioning is correlated with activation in the anterior cingulate cortex and left lateral prefrontal cortex during a verbal fluency task in euthymic bipolar disorder: a preliminary fMRI study. *Psychiatry and Clinical Neurosciences* 68: 188-196, 2014.
266. Yoshimura, S., Okamoto, Y., Yoshino, A., Kobayakawa, M., Machino, A., Yamawaki, S. : Neural basis of anticipatory anxiety reappraisals. *PLoS ONE* 9: e102836, 2014(eCollection).
267. Murakami, T., Hama, S., Yamashita, H., Onoda, K., Hibino, S., Sato, H., Ogasa, S., Yamawaki, S., Kurisu, K. : Neuroanatomic pathway associated with attentional deficits after stroke. *Brain Research* 28: 25-32, 2014.
268. Yoshimura, S., Okamoto, Y., Onoda, K., Matsunaga, M., Okada, G., Kunisato, Y., Yoshino, A., Ueda, K., Suzuki, S., Yamawaki, S. : Cognitive behavioral therapy for depression changes medical prefrontal and ventral anterior cingulate cortex activity associated with self-referential processing. *Social Cognitive and Affective Neuroscience* 9: 487-493, 2014.
269. Toki, S., Okamoto, Y., Onoda, K., Matsumoto, T., Yoshimura, S., Kunisato, Y., Okada, G., Shishida, K., Kobayakawa, M., Fukumoto, T., Machino, A., Inagaki, M., Yamawaki, S. : Hippocampal activation during associative encoding of word pairs its relation to symptomatic improvement in depression: a functional and volumetric MRI study. *Journal of Affective Disorders* 152-154: 462-467, 2014.
270. Hayashi, A., Okamoto, Y., Yoshimura, S., Yoshino, A., Toki, S., Yamashita, H., Matsuda, F., Yamawaki, S. : Visual imagery while reading concrete and abstract Japanese kanji words: an fMRI study. *Neuroscience Research* 79: 61-66, 2014.
271. Yoshino, A., Okamoto, Y., Kunisato, Y., Yoshimura, S., Jinnin, R., Hayashi, Y., Kobayakawa, M., Doi, M., Oshita, K., Nakamura, R., Tanaka, K., Yamashita, H., Kawamoto, M., Yamawaki, S. : Distinctive spontaneous regional neural activity in patients with somatoform pain disorder: a preliminary resting-state fMRI study. *Psychiatry Research: Neuroimaging* 221: 246-248, 2014.
272. Okada, S., Morinobu, S., Fuchikami, M., Segawa, M., Yokomaku, K., Kataoka, T., Okamoto, Y., Yamawaki, S. : The potential of SLC6A4 gene methylation analysis for the diagnosis and treatment of major depression. *Journal of Psychiatric Research* 53: 47-53, 2014.
273. Hiramatsu, T., Nakanishi, K., Yoshimura, S., Yoshino, A., Adachi, N., Okamoto, Y., Yamawaki, S., Ochi, M. : The dorsolateral prefrontal network is involved in pain perception in knee osteoarthritis patients. *Neuroscience Letters* 581: 109-114, 2014.
274. Machino, A., Kunisato, Y., Matsumoto, T., Yoshimura, S., Ueda, K., Yamawaki, Y., Okada, G., Okamoto, Y., Yamawaki, S. : Possible involvement of rumination in gray matter abnormalities in persistent symptoms of major depression: An exploratory magnetic resonance imaging voxel-based morphometry study. *Journal of Affective Disorders* 168: 229-235, 2014.
275. Takagaki, K., Okamoto, Y., Jinnin, R., Mori, A., Nishiyama, Y., Yamamura, T., Takebayashi, Y., Ogata, A., Okamoto, Y., Miyake, Y., Shimoda, H., Kawakami, N., Yamawaki, S. : Behavioral characteristics of subthreshold depression. *Journal of Affective Disorders* 168: 472-475, 2014.
276. Zohar, J., Nutt, D.J., Kupfer, D.J., Moller, H.J., Yamawaki, S., Spedding, M., Stahl, S.M. : A proposal for an updated neuropsychopharmacological nomenclature. *European Neuropsychopharmacology* 24: 1005-1014, 2014.

277. Toki,S., Hashimoto,E., Masuda,M., Machino,A., Yamawaki,S. : A case of chronic anorexia nervosa with child-bearing by in vitro fertilization necessitating comprehensive team support. **Journal of the Royal Society of Medicine Open** 5: 2054270441560039, 2014(eCollection).
278. Shibasaki,C., Takebayashi,M., Fujita,Y., Yamawaki,S. : Factors associated with the risk of relapse in schizophrenic patients after a response to electroconvulsive therapy: a retrospective study. **Neuropsychiatric Disease and Treatment** 11: 67-73, 2015.
279. Fuchikami,M., Yamamoto,S., Morinobu,S., Okada,S., Yamawaki,Y., Yamawaki,S. : The potential use of histone deacetylase inhibitors in the treatment of depression. **Progress in Neuro-Psychopharmacology and Biological Psychiatry**, 2016 Jan 4;64:320-4. doi: 10.1016/j.pnpbp.2015.03.010. Epub 2015 Mar 25.
280. Shimizu Y, Yoshimoto J, Toki S, Takamura M, Yoshimura S, Okamoto Y, Yamawaki S, Doya K.:Toward Probabilistic Diagnosis and Understanding of Depression Based on Functional MRI Data Analysis with Logistic Group LASSO. **PLoS One**. 2015 May 1;10(5):e0123524. doi: 10.1371/journal.pone.0123524. eCollection 2015.
281. Nishiyama Y, Okamoto Y, Kunisato Y, Okada G, Yoshimura S, Kanai Y, Yamamura T, Yoshino A, Jinnin R, Takagaki K, Onoda K, Yamawaki S.: fMRI Study of Social Anxiety during Social Ostracism with and without Emotional Support. **PLoS One**. 2015 May 22;10(5):e0127426. doi: 10.1371/journal.pone.0127426. eCollection 2015.
282. Mizui T, Ishikawa Y, Kumanogoh H, Lume M, Matsumoto T, Hara T, Yamawaki S, Takahashi M, Shiosaka S, Itami C, Uegaki K, Saarma M, Kojima M.: BDNF pro-peptide actions facilitate hippocampal LTD and are altered by the common BDNF polymorphism Val66Met. **Proc Natl Acad Sci U S A**. 2015 Jun 9;112(23):E3067-74. doi: 10.1073/pnas.1422336112. Epub 2015 May 26.
283. Yoshino A, Okamoto Y, Doi M, Horikoshi M, Oshita K, Nakamura R, Otsuru N, Yoshimura S, Tanaka K, Takagaki K, Jinnin R, Yamashita H, Kawamoto M, Yamawaki S.: Effectiveness of group cognitive behavioral therapy for somatoform pain disorder patients in Japan: A preliminary non-case-control study. **Psychiatry Clin Neurosci**. 2015 Dec;69(12):763-72. doi: 10.1111/pcn.12330. Epub 2015 Aug 5.
284. Tsukue R, Okamoto Y, Yoshino A, Kunisato Y, Takagaki K, Takebayashi Y, Tanaka K, Konuma K, Tsukue I, Yamawaki S.: Do Individuals with Alcohol Dependence Show Higher Unfairness Sensitivity? The Relationship Between Impulsivity and Unfairness Sensitivity in Alcohol-Dependent Adults. **Alcohol Clin Exp Res**. 2015 Oct;39(10):2016-21. doi: 10.1111/acer.12832. Epub 2015 Sep 1.
285. Mori A, Okamoto Y, Okada G, Takagaki K, Jinnin R, Takamura M, Kobayakawa M, Yamawaki S.: Behavioral activation can normalize neural hypoactivation in subthreshold depression during a monetary incentive delay task. **J Affect Disord**. 2016 Jan 1;189:254-62. doi: 10.1016/j.jad.2015.09.036. Epub 2015 Oct 3.
286. Hayashi Y, Okamoto Y, Takagaki K, Okada G, Toki S, Inoue T, Tanabe H, Kobayakawa M, Yamawaki S.: Direct and indirect influences of childhood abuse on depression symptoms in patients with major depressive disorder. **BMC Psychiatry**. 2015 Oct 14;15:244. doi: 10.1186/s12888-015-0636-1.PMID: 26467656 Free PMC Article
287. Kaichi Y, Okada G, Takamura M, Toki S, Akiyama Y, Higaki T, Matsubara Y, Okamoto Y, Yamawaki S, Awai K.: Changes in the regional cerebral blood flow detected by arterial spin labeling after 6-week escitalopram treatment for major depressive disorder. **J Affect Disord**. 2016 Apr;194:135-43. doi: 10.1016/j.jad.2015.12.062. Epub 2016 Jan 21.
288. Shibasaki C, Takebayashi M, Itagaki K, Abe H, Kajitani N, Okada-Tsuchioka M, Yamawaki S.: Altered serum levels of matrix metalloproteinase-2, -9 in response to electroconvulsive therapy for mood disorders. **Int J Neuropsychopharmacol**. 2016 Sep;19(9). pii: pyw019. doi: 10.1093/ijnp/pyw019.
289. Yamamura T, Okamoto Y, Okada G, Takaishi Y, Takamura M, Mantani A, Kurata A, Otagaki Y, Yamashita H, Yamawaki S: Association of thalamic hyperactivity with treatment-resistant depression and poor response in early treatment for major depression: a resting-state fMRI study using fractional amplitude of low-frequency fluctuations. **Transl Psychiatry**. 2016 Mar 8;6:e754. doi: 10.1038/tp.2016.18.
290. Takagaki K, Okamoto Y, Jinnin R, Mori A, Nishiyama Y, Yamamura T, Yokoyama S, Shiota S, Okamoto Y, Miyake Y, Ogata A, Kunisato Y, Shimoda H, Kawakami N, Furukawa TA, Yamawaki S.: Behavioral activation for late adolescents with subthreshold depression: a randomized controlled trial. **Eur Child Adolesc Psychiatry**. 2016 Mar 22.
291. Uchida H, Yamawaki S, Bahk WM, Jon DI: Neuroscience-based Nomenclature (NbN) for Clinical Psychopharmacology and Neuroscience. **Clin Psychopharmacol Neurosci**. 2016 May 31;14(2):115-6. doi: 10.9758/cpn.2016.14.2.115.

- 292 Hama S, Murakami T, Yamashita H, Onoda K, Yamawaki S, Kurisu K.: Neuroanatomic pathways associated with monoaminergic dysregulation after stroke. *Int J Geriatr Psychiatry*. 2016 Jun 1. doi: 10.1002/gps.4503.
- 293 Takagaki K, Okamoto Y, Jinnin R, Mori A, Nishiyama Y, Yamamura T, Yokoyama S, Shiota S, Okamoto Y, Miyake Y, Ogata A, Shimoda H, Kawakami N, Furukawa TA, Yamawaki S.: Mechanisms of behavioral activation for late adolescents: Positive reinforcement mediate the relationship between activation and depressive symptoms from pre-treatment to post-treatment. *J Affect Disord*. 2016 Nov 1;204:70-3. doi: 10.1016/j.jad.2016.06.046. Epub 2016 Jun 15.
- 294 Itagaki K, Takebayashi M, Shibasaki C, Kajitani N, Abe H, Okada-Tsuchioka M, Yamawaki S.: Factors associated with relapse after a response to electroconvulsive therapy in unipolar versus bipolar depression. *J Affect Disord*. 2017 Jan 15;208:113-119. doi: 10.1016/j.jad.2016.08.047. Epub 2016 Oct 11.
- 295 Takagaki K, Okamoto Y, Jinnin R, Mori A, Nishiyama Y, Yamamura T, Yokoyama S, Shiota S, Okamoto Y, Miyake Y, Ogata A, Kunisato Y, Shimoda H, Kawakami N, Furukawa TA, Yamawaki S.: Behavioral activation for late adolescents with subthreshold depression: a randomized controlled trial. *Eur Child Adolesc Psychiatry*. 2016 Nov;25(11):1171-1182. Epub 2016 Mar 22.
- 296 Yoshimura S, Okamoto Y, Matsunaga M, Onoda K, Okada G, Kunisato Y, Yoshino A, Ueda K, Suzuki SI, Yamawaki S.: Cognitive behavioral therapy changes functional connectivity between medial prefrontal and anterior cingulate cortices. *J Affect Disord*. 2017 Jan 15;208:610-614. doi: 10.1016/j.jad.2016.10.017. Epub 2016 Oct 19.
- 297 Mori A, Okamoto Y, Okada G, Takagaki K, Jinnin R, Takamura M, Kobayakawa M, Yamawaki S.: Corrigendum to "Behavioral activation can normalize neural hypoactivation in subthreshold depression during a monetary incentive delay task" *J Affect Disord*. 2017 Jan 15;208:670. doi: 10.1016/j.jad.2015.12.023. Epub 2015 Dec 19.
- 298 Suhara T, Chaki S, Kimura H, Furusawa M, Matsumoto M, Ogura H, Negishi T, Saijo T, Higuchi M, Omura T, Watanabe R, Miyoshi S, Nakatani N, Yamamoto N, Liou SY, Takado Y, Maeda J, Okamoto Y, Okubo Y, Yamada M, Ito H, Walton NM, Yamawaki S.: Strategies for Utilizing Neuroimaging Biomarkers in CNS Drug Discovery and Development: CINP/JSNP Working Group Report. *Int J Neuropsychopharmacol*. 2017 Apr 1;20(4):285-294. doi: 10.1093/ijnp/pyw111.
- 299 Takamura M, Okamoto Y, Okada G, Toki S, Yamamoto T, Yamamoto O, Jitsuiki H, Yokota N, Tamura T, Kurata A, Kaichi Y, Akiyama Y, Awai K, Yamawaki S.: Disrupted Brain Activation and Deactivation Pattern during Semantic Verbal Fluency Task in Patients with Major Depression. *Neuropsychobiology*. 2016;74(2):69-77. doi: 10.1159/000453399. Epub 2017 Jan 5.
- 300 Jinnin R, Okamoto Y, Takagaki K, Nishiyama Y, Yamamura T, Okamoto Y, Miyake Y, Takebayashi Y, Tanaka K, Sugiura Y, Shimoda H, Kawakami N, Furukawa TA, Yamawaki S.: Detailed course of depressive symptoms and risk for developing depression in late adolescents with subthreshold depression: a cohort study. *Neuropsychiatr Dis Treat*. 2016 Dec 22;13:25-33. doi: 10.2147/NDT.S117846. eCollection 2017.
- 301 Yamamoto T, Toki S, Siegle GJ, Takamura M, Takaishi Y, Yoshimura S, Okada G, Matsumoto T, Nakao T, Muranaka H, Kaseda Y, Murakami T, Okamoto Y, Yamawaki S.: Increased amygdala reactivity following early life stress: a potential resilience enhancer role. *BMC Psychiatry*. 2017 Jan 18;17(1):27. doi: 10.1186/s12888-017-1201-x.

- Review Articles

<Japanese Journals> more than 260

<English Journals>

1. Yamawaki,S., Kagaya,A., Tawara,Y. and Inagaki,M. : Intracellular calcium mechanism in the pathophysiology of affective disorders. *Life Sciences* 62: 1665-1670, 1998.
2. Nishida,A., Zensho,H., Hisaoka,K., Okamoto,Y., Uchitomi,Y. and Yamawaki,S. : Molecular mechanisms of alcoholism in the nervous system. *Recent Research Development of Neurochemistry* 2: 139-155, 1999.
3. Yamawaki,S.: The use and development of anxiolytics in Japan. *European Neuropsychopharmacology* 9: S413-S419, 1999.
4. Yamawaki,S. : Psychopharmacology of serotonin in mood disorders. *Singapore Medical Journal* 41: 5-9, 2000.

5. Nakae,S., Kagaya,A., Katagiri,H., Jitsuiki,H., Fukumoto,T., Tamura,T., Kouhata,S., Morinobu,S., Sasa,M., Yamawaki,S. : Serotonin-2A receptor and the receptor-mediated signaling systems in rats: possible implication for pathophysiology of mood disorders. **Current Topics in Neurochemistry** 3: 83-95, 2002.
5. Nishida,A., Hisaoka,K., Morinobu,S. and Yamwaki,S. : Genetic research of mood disorders. **Current Topics in Neurochemistry** 3: 116-121, 2002.
6. Nishida,A., Hisaoka,K., Zensho,H., Uchitomi,Y., Morinobu,S., Yamawaki,S. : Antidepressant drugs and cytokines in mood disorders. **International Immunopharmacology** 2: 1619-1626, 2002.
7. Morinobu,S. and Yamawaki,S. Mood stabilizers and protein phosphatases: apoptosis or neurogenesis? **Clinical Neuroscience Research** 4: 263-269, 2004.
8. Yamamoto S, Morinobu S, Takei S, Fuchikami M, Matsuki A, Yamawaki S, Liberzon I. Single prolonged stress: toward an animal model of posttraumatic stress disorder. **Depress Anxiety**. 26:1110-7, 2009
9. Fuchikami,M., Yamamoto,S., Morinobu,S., Takei,S., Yamawaki,S. : Epigenetic regulation of BDNF gene in response to stress. **Psychiatry Investigation** 7: 251-256, 2010.
10. Yamawaki,S., Okada,G., Okamoto,Y., Liberzon,I. : Mood dysregulation and stabilization: Perspectives from emotional cognitive neuroscience. **International Journal of Neuropsychopharmacology** 17: 1-14, 2011.
11. Yamamoto,S., Morinobu,S., Fujita,Y., Yamawaki,S. : Histone acetylation in the hippocampus and fear extinction. **Biological Psychiatry** 72: 2-3, 2012.
12. Hasan,A., Falkai,P., Wobrock,T., Lieberman,J., Glenthøj,B., Gattaz,W.F., Thibaut,F., Möller,H.J., Yamawaki,S., et al.: World Federation of Societies of Biological Psychiatry (WFSBP) Guidelines for Biological Treatment of Schizophrenia, part 1: update 2012 on the acute treatment of schizophrenia and the management of treatment resistance. **World J Biol Psychiatry**;13:318-378,2012
13. Hasan A, Falkai P, Wobrock T, Lieberman J, Glenthøj B, Gattaz WF, Thibaut F, Möller HJ; WFSBP Task Force on Treatment Guidelines for Schizophrenia: World Federation of Societies of Biological Psychiatry (WFSBP) Guidelines for Biological Treatment of Schizophrenia. Part 3: Update 2015 Management of special circumstances: Depression, Suicidality, substance use disorders and pregnancy and lactation. **World J Biol Psychiatry**. 2015 Apr;16(3):142-70. doi: 10.3109/15622975.2015.1009163
14. Zohar J, Stahl S, Moller HJ, Blier P, Kupfer D, Yamawaki S, Uchida H, Spedding M, Goodwin GM, Nutt D: A review of the current nomenclature for psychotropic agents and an introduction to the Neuroscience-based Nomenclature **Eur Neuropsychopharmacol**. 2015 Dec;25(12):2318-25. doi: 10.1016/j.euroneuro.2015.08.019. Epub 2015 Sep 7.

- Book Chapters

<Japanese Books> 81

<English Books>

1. Yamawaki,S., Kagaya,A., Hayakawa,H., Okamoto,Y., Kugaya,A., Takebayashi,M., Muraoka,M. and Uchitomi,Y. : Pathophysiology of affective disorders: Serotonin receptor function and intracellular calcium signaling. In: **Serotonin in the Central Nervous System and Periphery** (Eds. Takada,A. and Curzon,G.) Elsevier Science, Amsterdam, 31-39, 1995.
2. Yamawaki,S. and Hayashi,T. : Intracellular calcium mechanism in the pathogenesis of neuroleptic malignant syndrome. In.: **Malignant Hyperthermia** (Eds. Morio,M., Kikuchi,H. and Yuge,O.) Springer-Verlag, Tokyo, 187-195, 1996.
3. Yamawaki,S., Kagaya,A., Okamoto,Y., Uchitomi,Y., Shimizu,M. and Nishida,A. : Role of intracellular calcium mechanisms in the pathophysiology of affective disorders. In : **Preclinical and Clinical Strategies for the Treatment of Neurodegenerative, Cerebrovascular and Mental Disorders** (Ed. Shibuya,T.) Karger, Basel, 106-115, 1996.
4. Ishihara,K., Amano,T., Nagaoka,I., Matsubayashi,H., Yamawaki,S. and Sasa,M. : 7-OH-DPAT(D3 agonist)-induced inhibition of neuronal activities in nucleus accumbens in vivo. In: **Preclinical and Clinical Strategies for the Treatment of Neurodegenerative, Cerebrovascular and Mental Disorders** (Ed. Shibuya, T.) Karger, Basel, 151-155, 1996.
5. Yamawaki,S., Hayashi,T., Nagaoka,I., Saito,H., Yokota,N. and Uchitomi,Y. : Cultural aspect of tardive dyskinesia. In: **Neuroleptic-Induced Movement Disorders** (Eds. Yassa,R. Nair,V. and Jeste,D. V.) Cambridge University Press, New York, 259-266, 1997.

6. Yamawaki,S. and Hayashi,T. : Neuroleptic malignant syndrome. In : **Current Psychiatric Therapy II** (Ed. Dunner,D.L.) W.B.Sanders Company, New York, 206-210, 1997.
7. Kagaya,A. and Yamawaki,S. : Immunological aspects of mood disorders : Interaction between cytokine and intracellular calcium signaling. In : **Signal Transduction in Affective Disorders** (Eds. Ozawa,H., Saito,T. and Takahata,N.) Springer-Verlag, Tokyo, 35-47, 1997.
8. Uchitomi,Y. and Yamawaki,S. : Truth-telling practice in cancer care in Japan. In : **Annals New York Academy of Sciences** 809: 290-299, 1997.
9. Yamawaki,S. and Kagaya,A. : Intracellular calcium signaling systems in the pathophysiology of affective disorders. In : Calcium Ion Modulators: **The New Wave of Psychotropic Drugs** (Eds. Inoue,K. and Watanabe,Y.) Gordon and Breach Science Publishers, London, 135-145, 1998.
10. Yamawaki,S. : Depression: a major psychological and emotional problem. In: **Current Perspectives and Future Directions in Palliative Medicine** (Eds. Eguchi,K., Klastersky,J. and Feld,R.) Springer-Verlag, Tokyo, 93-94, 1998.
11. Okamura,H., Akechi,T., Kugaya,A., Mikami,I., Okumura,T., Nakano,T., Kagaya,A., Yamawaki,S. and Uchitomi,Y. : Depression in patients with advanced cancer. In: **Current Perspectives and Future Directions in Palliative Medicine** (Eds. Eguchi,K., Klastersky,J. and Feld,R.) Springer-Verlag, Tokyo, 67-76, 1998.
12. Saeki,T., Mantani,Y., Yamawaki,S. and Uchitomi,Y. : The role of Japanese families in cancer care. In: **Cancer and the Family** (Eds. Baider,L., Cooper,C. and Kaplan,A.) John Wiley & Sons, New York, 111-117, 2000.
13. Yamawaki,S., Kagaya,A., Okamoto,Y., Takebayashi,M. and Saeki,T. : Effects of antidepressants and lithium on intracellular calcium signaling. In: **Contemporary Neuropsychiatry** (Eds. Miyoshi,K., Shapiro,C.M., Gaviria,M. and Morita,Y.) Springer-Verlag, Tokyo, 257-262, 2001.
14. Saeki,T., Mantani,T., Inoue,S. and Yamawaki,S. : Effects of family functioning on psychological well-being of cancer patients. In: **Contemporary Neuropsychiatry** (Eds. Miyoshi,K., Shapiro,C.M., Gaviria,M. and Morita,Y.) Springer-Verlag, Tokyo, 460-464, 2001.
15. Morinobu,S., Yamawaki,S., Fukumoto,T., Tsuji,S., Suenaga,T., Takahashi,J., Tanaka,K. and Fujimaki,K. : Lithium and signal transduction. In: **Catecholamine Research: From Molecular Insights to Clinical Medicine**. (Eds. Nagatsu,T., et al.) Kluwer Academic Plenum Publishers, New York, 435-437, 2002.
16. Fujikawa,T. and Yamawaki,S.: Latent brain infarction and mood disorder. In: **Recent Advances in the Research of Affective Disorder in Japan** (Eds. Okuma,T., Kanba,S. and Inoue,Y.) Elsevier Science, Tokyo, 131-137, 2002.
17. Morinobu,S., Tsuji,S., Takahashi,M., Russell,DS., Takahashi,J., Tanaka,K., Fujimaki,K., Yamawaki,S., Endoh,S., and Endoh,M. : Stress vulnerability induced by neonatal isolation and the disturbance between the phosphorylation and dephosphorylation of CREB. In: **PTSD -Brain Mechanisms and Clinical Implications-**. (Eds. Kato,N., Kawata,M., Pitman,RK.) Springer, Tokyo, 37-46, 2005.