

CURRICULUM VITAE

June 13th, 2021

FULL NAME: Nobukazu Nakasato

CURRENT POSITION:

Professor and Chair,
Department of Epileptology,
Tohoku University Graduate School of Medicine;

Professor and Chair,
Department of Electromagnetic Neurophysiology (RICOH),
Tohoku University Graduate School of Medicine;

Director,
Tohoku University Hospital Epilepsy Center;

Associate Dean,
Tohoku University Graduate School of Medicine; and

Special Adviser to President (Telemedicine & International Issues),
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<http://www.epilepsy.med.tohoku.ac.jp/english/index.html>

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EDUCATION AND TRAINING:

1984 M.D., Tohoku University School of Medicine, Sendai, Japan

1993 Ph.D., Tohoku University, Sendai, Japan

1984-88: Resident (Neurosurgery), Tohoku University School of Medicine, Sendai, Japan

RESEARCH AND PROFESSIONAL EXPERIENCE:

1987-1988: Visiting Researcher, Biomagnetometry Section, National Electrotechnical Laboratory,
Tsukuba, Japan

1988-1991: Assistant Professor, Department of Neurosurgery, Tohoku University School of
Medicine, Sendai, Japan

1989-1991: Visiting Research, Reed Neuromagnetometry Laboratory and Division of
Neurosurgery, University of California, Los Angeles

1992-1998: Head, MEG and Brain Mapping Project, Department of Neurosurgery, Kohnan
Hospital and Tohoku University School of Medicine, Sendai, Japan

1996-2008: Assistant Professor, Department of Neurosurgery, Tohoku University School of
Medicine

1998-2010: Head, Epilepsy and Brain Mapping Project, Department of Neurosurgery, Kohnan Hospital and Tohoku University School of Medicine
2008-2010: Vice President, Kohnan Hospital; and Associate Professor, Department of Neurosurgery, Tohoku University School of Medicine
2010-present: Professor and Chair, Department of Epileptology, Tohoku University School of Medicine, Sendai, Japan
2010-2017.1: Professor and Chair, Department of Electromagnetic Neurophysiology, Institute of Development, Aging and Cancer, Tohoku University, Sendai, Japan
2017.2-2019.3-present: Professor and Chair, Department of Electromagnetic Neurophysiology, Tohoku University School of Medicine, Sendai, Japan
2012-present: Special Adviser to President (Telemedicine & International Issues), Tohoku University Hospital
2015-present: Director, Tohoku University Hospital Epilepsy Center
2017-present: Associate Dean, Tohoku University Graduate School of Medicine
2019-present: Professor and Chair, Department of Electromagnetic Neurophysiology (RICOH), Tohoku University Graduate School of Medicine

AWARD

1991 November The Jiro Suzuki Award
2021 May The American Clinical MEG Society Legacy Award

LICENSE AND BOARD CERTIFICATIONS:

Medical Doctor License, 1984
Board Certification, Japan Neurosurgical Society, 1993
Board Certification, Japan Epilepsy Society, 1999
Board Certification, Japan Clinical Neurophysiology Society, 2006

MEMBERSHIP OF SCIENTIFIC SOCIETIES:

International Society for the Advancement of Clinical Magnetoencephalography (ISACM)
 Founder and the 1st President (2006-2008)- and the 6th (2017-2019) President
International League Against Epilepsy (ILAE)
 Member of the ILAE Task Force on Guidelines Commission (2012-2015)
 Member of the ILAE Task Force on Classification Commission (2013-2017)
International Federation of Clinical Neurophysiology (IFCN)
 Editorial Board Member, Clinical Neurophysiology (2015-2021)
American Clinical Neurophysiology Society: Member
Japan Biomagnetism and Biomagnetics Society:
 Vice President (2009-2015)
 Executive Board Member (2003-present)
 President of Annual Meeting (2017)
Japan Epilepsy Society (JES)
 Vice President (2015-2017)
 Board Member (2013-present)
 President, Tohoku Branch (2013-2018)
 Academic Committee Member (2001-present)
 Chief of Headquarters, “3.11 Disaster” Countermeasures Office (2011-present)

Secretary General, Tohoku Branch (2006-2012)
 Chair, Committee of Health Care Reimbursement (2017-present)

Japan Epilepsy Center Association (JEPICA)
 Chair, Executive Board (2015-present)
 Board Member (2013-present)
 Chair, Ethical Committee (2013-present)

Japan Epilepsy Surgery Society
 Board Member (2009-present)

Japan Neurosurgical Society:
 Member, Special Committee of Brain Death and Organ Transplantation (1999-)

Japanese Congress of Neurological Surgeons
 Review Committee Member (2005-present)

Japan Society of Medical Electronics and Biological Engineering:
 Editorial Board Member, Transactions of the Japanese Society for Medical and Biological Engineering (1999-present)
 Delegate member (2013-present)

Japan Society of Clinical Neurophysiology:
 Board Member (2013-present)
 Academic Committee Member (1997-present)
 Editorial Board Member, Japanese Journal of Clinical Neurophysiology (2003-present)
 MEG Committee Chair (2011-2014)
 Reimbursement Committee Member (2006-present)
 Ethical Committee Member (2014-present)
 Chair, Committee of Health Care Reimbursement (2017-present)

Japanese Society for Brain Electromagnetic Topography:
 Academic Committee Member (2005-present)

Japan Human Brain Mapping Society
 Academic Committee Member (2012-present)

Japan Social Insurance Union of Societies Related to Internal Medicine
 Member, Committee of Telemedicine and Telehealth (2019-present)

Tohoku Epilepsy Forum:
 Board Chair (2010-present)

Tohoku Society of Comprehensive Epilepsy Program:
 Board Chair (2011-present)

ORGANIZATION OF SCIENTIFIC CONFERENCES:

Secretary General, 10th Japanese Conference on Biomagnetism, May 27-28, 1995, Sendai, Japan
 Secretary General, 11th International Conference on Biomagnetism, August 28 - September 2, 1998, Sendai, Japan
 Co-chair, ISACM 2007 (1st Meeting of the International Society for the Advancement of Clinical Magnetoencephalography), August 27-30, 2007, Matsushima, Japan
 Co-chair, ISACM 2009, September 3-5, Athens, Greece.
 Chair: 27th Meeting, Japan Society of Brain Electromagnetic Topography, November 18-19, 2010, Matsushima, Japan
 President: Annual Meeting of Japan Epilepsy Surgery Society, January 15-16, 2015
 Vice President: Annual Meeting of the Japanese Telemedicine and Telecare Association, October 9-10, 2015, Sendai, Japan
 President: Japan Epilepsy Rehabilitation Meeting, November 14, 2015
 President: Annual Meeting of Japan Epilepsy Center Association, January 9-10, 2016

President: ISACM 2017 (6th Meeting of the International Society for the Advancement of Clinical Magnetoencephalography), May 22-24, 2017, Sendai, Japan

President: Annual Meeting of the Japan Biomagnetism and Biomagnetics Society, May 22-24, 2017, Sendai, Japan

President: Annual Meeting of the JSBET 2017 (Japanese Society for Brain Electromagnetic Topography), May 22-24, 2017, Sendai, Japan

Co-President: Tohoku-Yonsei Epilepsy and MEG symposium. February 19, 2021, Seoul, Korea (Web Conference)

Appointed for President of Annual Meeting of Japan Epilepsy Society, Tohoku Branch (2021)

Appointed for President of Annual Meeting of Japan Society of Clinical Neurophysiology (2021)

Appointed for President of Annual Meeting of Japan Epilepsy Society (2022)

SCIENTIFIC PUBLICATIONS:

ORIGINAL ARTICLES

- Agari D, Jin K, Kakisaka Y, Kanno A, Ishida M, Kawashima R, Nakasato N: Magnetoencephalography to confirm epileptiform discharges mimicking small sharp spikes in temporal lobe epilepsy. *Clin Neurophysiol* 132: 1785-1789, 2021 (doi.org/10.1016/j.clinph.2021.03.049)
- Ogawa M, Fujikawa M, Jin K, Kakisaka Y, Ueno T, Nakasato N: Acceptance of disability predicts quality of life in patients with epilepsy. *Epilepsy Behav* 120: 107979, 2021 (DOI: 10.1016/j.yebeh.2021.107979)
- Hosokawa H, Kanno S, Nishio Y, Kawasaki I, Hirayama K, Sunaga A, Shoji N, Iwasaki M, Nakasato N, Tominaga T, Suzuki K: Facial memory ability and self-awareness in patients with temporal lobe epilepsy after anterior temporal lobectomy. *PLoS ONE* 16: e0248785, 2021 (doi.org/10.1371/journal.pone.0248785)
- Iwaki H, Sonoda M, Osawa SI, Silverstein BH, Mitsuhashi T, Ukishiro K, Takayama Y, Kambara T, Kakinuma K, Suzuki K, Tominaga T, Nakasato N, Iwasaki M, Asano E: Your verbal questions beginning with 'what' will rapidly deactivate the left prefrontal cortex of listeners. *Sci Reports* 11: 5257, 2021 (doi.org/10.1038/s41598-021-84610-1)
- Gabriel F, Kakisaka Y, Jin K, Osawa SI, Iwasaki M, Tominaga T, Nakasato N: External validation of the Epilepsy Surgery Grading Scale in a Japanese cohort of patients with epilepsy. *Epileptic Disord*, in press (DOI: 10.1684/epd.2021.1238)
- Nomura Y, Kawase T, Kanno A, Nakasato N, Kawashima R, Katori Y: N100m latency shortening caused by selective attention. *Brain Res* 1751:147177, 2021 (doi.org/10.1016/j.brainres.2020.147177)
- Itabashi I, Jin K, Sato S, Suzuki H, Iwasaki M, Kitazawa Y, Kakisaka Y, Nakasato N: Initial delta and delayed theta/alpha pattern in the temporal region on ictal EEG suggests purely hippocampal epileptogenicity in patients with mesial temporal lobe epilepsy. *Clin Neurophysiol* 132:737-743, 2021 (doi.org/10.1016/j.clinph.2020.11.041)
- Suzuki M, Jin K, Kitazawa Y, Fujikawa M, Kakisaka Y, Sato S, Mugikura S, Nakasato N. Diagnostic yield of seizure recordings and neuroimaging in patients with focal epilepsy without interictal epileptiform discharges. *Epilepsy Behav* 112:107468, 2020 (doi.org/10.1016/j.yebeh.2020.107468)
- Ishida M, Jin K, Kakisaka Y, Kanno A, Kawashima R, Nakasato N. Awake state-specific suppression of primary somatosensory evoked response correlated with duration of temporal lobe epilepsy. *Sci Rep* 10:15895, 2020 (DOI: 10.1038/s41598-020-73051-x)
- Ishikawa T, Obara T, Jin K, Nishigori H, Miyakoda K, Akazawa M, Nakasato N, Yaegashi N, Kuriyama S, Mano N: Folic acid prescribed to prenatal and postpartum women who are also prescribed antiepileptic drugs in Japan: Data from a health administrative database. *Birth Defects Res*, 2020 (doi: 10.1002/bdr2.1748)
- Chonan M, Saito R, Kanamori M, Osawa SI, Watanabe M, Suzuki H, Nakasato N, Tominaga T: Experience of low dose perampanel to add-on in glioma patients with levetiracetam-uncontrollable epilepsy. *Neurol Med Chirurgica* 60: 37-44, 2020 (DOI: 10.2176/nmc.0a.2018-0245)
- Hihara H, Kanetaka H, Kanno A, Simada E, Koeda S, Kawashima R, Nakasato N, Sasaki K: Somatosensory evoked magnetic fields of periodontal mechanoreceptors. *Heliyon* 6: e03244, 2020 (DOI: 10.1016/j.heliyon.2020.e03244)
- Ishikawa T, Obara T, Jin K, Nishigori H, Miyakoda K, Suzuka M, Ikeda-Sakai Y, Akazawa M, Nakasato N, Yaegashi N, Kuriyama S, Mano N: Examination of the prescription of

- antiepileptic drugs to prenatal and postpartum women in Japan from a health administrative database. *Pharmacoepidemiol Drug Safety* 28: 804-811, 2019 (DOI: 10.1002/pds.4749)
- Iwaki H, Jin K, Sugawara N, Nakasato N, Kaneko S: Perampanel-induced weight gain depends on level of intellectual disability and its serum concentration. *Epilepsy Res* 152:1-6, 2019 (DOI: 10.1016/j.eplesyres.2019.02.011)
- Matsumura N, Nobusawa S, Ito J, Kakita A, Suzuki H, Fujii Y, Fukuda M, Iwasaki M, Nakasato N, Tominaga T, Natsume A, Mikami Y, Shinojima, Yamazaki T, Nakazato Y, Hirato J, Yokoi H: Multiplex ligation-dependent probe amplification analysis is useful for detecting a copy number gain of the FGFR1 tyrosine kinase domain in dysembryoplastic neuroepithelial tumors. *J Neuro-oncol* 143: 27-33, 2019 (DOI: 10.1007/s11060-019-03138-7)
- Morishita Y, Mugikura S, Mori N, Tamura H, Sato S, Akashi T, Jin K, Nakasato N, Takase K: Atrophy of the ipsilateral mammillary body in unilateral hippocampal sclerosis shown by thin-slice-reconstructed volumetric analysis. *Neuroradiology* 61: 515-523, 2019 (DOI: 10.1007/s00234-019-02158-4)
- Scherg M, Berg P, Nakasato N, Beniczky S: Taking the EEG Back Into the brain: the power of multiple discrete sources. *Frontiers Neurol* 10: 855-855 2019 (DOI: 10.3389/fneur.2019.00855)
- Ninomiya A, Iwasaki M, Kakisaka Y, Jin K, Nakasato N, Tominaga T: Apparently diffuse epileptic abnormalities caused by a small cavernous malformation: a surgical case report. *Epilepsy & Seizure* 10: 107-113, 2018 (DOI: <https://doi.org/10.3805/eands.10.107>)
- Usui N, Akamatsu N, Nakasato N, Ohnishi A, Kaneko S, Hiramatsu H, Saeki K, Miyagishi H, Inoue Y: Long-term tolerability, safety and efficacy of adjunctive perampanel in the open-label, dose-ascending Study 231 and extension Study 233 in Japanese patients with epilepsy. *Seizure* 62:26-32, 2018 (doi: 10.1016/j.seizure.2018.09.012)
- Hari R, Baillet S, Barnes G, Forss N, Gross J, Hamalainen M, Jensen O, Kakigi R, Mauguiere F, Nakasato N, Puce A, Romani GL, Schnitzler A, Taulu S: Reply to "Clinical practice guidelines or clinical research guidelines?". *Clin Neurophysiol* 129: 2056-2057, 2018 (DOI: 10.1016/j.clinph.2018.06.016)
- Kakisaka Y, Jin K, Fujikawa M, Kitazawa Y, Nakasato N: Teleconference-based education of epileptic seizure semiology. *Epilepsy Res* 145: 73-76, 2018 (DOI: 10.1016/j.eplesyres.2018.06.007)
- Kitazawa Y, Jin K, Kakisaka Y, Fujikawa M, Tanaka F, Nakasato N: Predictive factors of higher drug load for seizure freedom in idiopathic generalized epilepsy: Comparison between juvenile myoclonic epilepsy and other types. *Epilepsy Res* 144: 20-24, 2018 (DOI: 10.1016/j.eplesyres.2018.04.009)
- Hari R, Baillet S, Barnes G, Burgess R, Forss N, Gross J, Hamalainen M, Jensen O, Kakigi R, Mauguiere F, Nakasato N, Puce A, Romani GL, Schnitzler A, Taulu S: IFCN-endorsed practical guidelines for clinical magnetoencephalography (MEG). *Clin Neurophysiol* 129: 1720-1747, 2018 (<https://doi.org/10.1016/j.clinph.2018.03.042>)
- Iwaki H, Jin K, Fujikawa M, Nakasato N, Kaneko S: Topiramate-induced weight loss depends on level of intellectual disability in patients with epilepsy. *Epilepsy Behav* 83: 87-91, 2018 (DOI: 10.1016/j.yebeh.2018.03.010)
- Fujiwara K, Oogane M, Kanno A, Imada M, Jono J, Terauchi T, Okuno T, Aritomi Y, Morikawa M, Tsuchida M, Nakasato N, Ando Y: Magnetocardiography and magnetoencephalography measurements at room temperature using tunnel magneto-resistance. *Applied Physics Express* 11, 023001, 2018 (<https://doi.org/10.7567/APEX.11.023001>)
- Kato K, Kakisaka Y, Jin K, Fujikawa M, Nakamura M, Suzuki N, Kondo M, Fukuda K, Shimokawa H, Nakasato N: Stressful medical explanation may cause syncope in patients with emotion-triggered neurocardiogenic syncope. *Pacing Clin Electrophysiol* 41(1): 96-98. 2018 (doi: 10.1111/pace.13199, PMID: 28925543)

- Yahata I, Kawase T, Kanno A, Hidaka H, Sakamoto S, Nakasato N, Kawashima R, Katori Y: Effects of visual speech on early auditory evoked fields - From the viewpoint of individual variance. *PLoS One* 31:12(1):e0170166, 2017 (doi: 10.1371/journal.pone.0170166, PMID: 28141836)
- Kakisaka Y, Jin K, Fujikawa M, Kitazawa Y, Kato K, Nakasato N: Levetiracetam improves symptoms of multiple chemical sensitivity: Case report. *J Med Invest* 64: 296-298, 2017 (doi: 10.2152/jmi.64.296, PMID: 28955000)
- Hihara H, Kanetaka H, Kanno A, Koeda S, Nakasato N, Kawashima R, Sasaki K: Evaluating age-related change in lip somatosensation using somatosensory evoked magnetic fields. *PLoS One* 12(6): e0179323, 2017 (doi: 10.1371/journal.pone.0179323, PMID: 28617862)
- Kawase T, Yahata I, Kanno A, Sakamoto S, Takanashi Y, Takata S, Nakasato N, Kawashima R, Katori Y: Impact of audio-visual asynchrony on lip-reading effects -neuromagnetic and psychophysical study. *PLoS One* 28: 11:e0168740, 2016 (doi: 10.1371/journal.pone.0168740, PMID: 28030631)
- Takezawa Y, Kakisaka Y, Wakusawa K, Ishitobi M, Hino-Fukuyo N, Inui T, Endo W, Anzai M, Nakasato N, Haginoya K: The efficacy of lamotrigine for atypical absence status epilepticus in a case of perioral myoclonia with absence. *Epilepsy & Seizure (J Jpn Ep Soc)* 8(1): 1-8, 2016
- Takahashi Y, Iwasaki M, Nakagawa A, Sato S, Nakasato N, Tominaga T: Predicting tissue breaking strengths in the epileptic brain with T2 relaxometry: Application of pulsed water jet dissection system for epilepsy surgery. *J Neurol Surg A Cent Eur Neurosurg* 2016 [Epub ahead of print] (DOI: 10.1055/s-0036-1593959, PMID: 27903016)
- Nakamura M, Jin K, Kato K, Itabashi H, Iwasaki M, Kakisaka Y, Nakasato N: Differences in sleep architecture between left and right temporal lobe epilepsy. *Neurol Sci* 2016 [Epub ahead of print] (DOI: 10.1007/s10072-016-2731-6, PMID: 27761840)
- Iwasaki M, Jin K, Nakasato N, Tominaga T: Non-invasive Evaluation for Epilepsy Surgery. *Neurol Med Chir (Tokyo)* 56: 632-640, 2016 (DOI: 10.2176/nmc.ra.2016-0186, PMID: 27627857)
- Fujikawa M, Nishio Y, Kakisaka Y, Ogawa N, Iwasaki M, Nakasato N: Fantastic confabulation in right frontal lobe epilepsy. *Epilepsy Behav Case Rep* 6:55-57, 2016 (PMID: 27630818)
- Sato S, Iwasaki M, Suzuki H, Mugikura S, Jin K, Tominaga T, Takase K, Takahashi S, Nakasato N: T2 relaxometry improves detection of non-sclerotic epileptogenic hippocampus. *Epilepsy Res* 126: 1-9 2016 (doi: 10.1016/j.eplepsyres.2016.06.001, PMID: 27400070)
- Khalil AF, Iwasaki M, Nishio Y, Jin K, Nakasato N, Tominaga T: Verbal dominant memory impairment and low risk for post-operative memory worsening in both left and right temporal lobe epilepsy associated with hippocampal sclerosis: *Neurol Med Chir (Tokyo)* [Epub ahead of print], 2016 (DOI: 10.2176/nmc.oe.2016-0004, PMID: 27250575)
- Kakisaka Y, Sato S, Takayanagi M, Nakasato N: Epilepsy case with focal cerebral herniation into the sigmoid sinus. *Neurol Sci* 37: 487-488, 2016 (PMID: 26670592)
- Jin K, Nakasato N: Rhythmic and periodic EEG patterns of 'ictal-interictal uncertainty': Red flag to switch from routine to continuous EEG monitoring. *Clin Neurophysiol* 127: 993, 2016 (PMID: 26652113)
- Jin K, Nakasato N: Ictal pattern on scalp EEG at onset of seizure in temporal lobe epilepsy: Old and new problems for epileptologists. *Clin Neurophysiol* 127: 987-988, 2016 (PMID: 26304794)
- Sakuraba R, Iwasaki M, Okumura E, Jin K, Kakisaka Y, Kato K, Tominaga T, Nakasato N: High frequency oscillations are less frequent but more specific to epileptogenicity during rapid eye movement sleep. *Clin Neurophysiol* 127: 179-186, 2016 (PMID: 26073183)
- Iwasaki M, Uematsu M, Hino-Fukuyo N, Osawa SI, Shimoda Y, Jin K, Nakasato N, Tominaga T: Clinical profiles for seizure remission and developmental gains after total corpus

- callosotomy. *Brain Dev* 38: 47-53, 2016 (DOI: 10.1016/j.braindev.2015.04.010, PMID: 25958823)
- Sauro KM, Wiebe S, Dunkley C, Janszky J, Kumlien E, Moshe S, Nakasato N, Pedley TA, Perucca E, Senties H, Thomas SV, Wang Y, Wilmschurst J, Jette N: The current state of epilepsy guidelines: A systematic review. *Epilepsia* 57:13-23, 2016 (doi: 10.1111/epi.13273, PMID: 26659723)
- Eldin SS, Iwasaki M, Nishio Y, Jin K, Nakasato N, Tominaga T: Resection of focal cortical dysplasia located in the upper pre-central gyrus. *Epileptic Disord* 17: 479-84, 2015 (doi: 10.1684/epd.2015.0771, PMID: 26575264)
- Iwasaki M, Uematsu M, Osawa S, Shimoda Y, Jin K, Nakasato N, Tominaga T: Interhemispheric vertical hemispherotomy: a single center experience. *Pediatr Neurosurg* 50: 295-300, 2015 (DOI: 10.1159/000437145, PMID: 26277842)
- Osawa SI, Iwasaki M, Suzuki H, Nakasato N, Tominaga T: Occult dual pathology in mesial temporal lobe epilepsy. *Neurol Sci* 36:1743-1745, 2015 (PMID: 26024729)
- Fujikawa M, Kishimoto Y, Kakisaka Y, Jin K, Kato K, Iwasaki M, Nakasato N: Obsessive-compulsive behavior induced by levetiracetam. *J Child Neurol* 30: 942-944, 2015 (PMID: 25008911)
- Kakisaka Y, Jin K, Kato K, Iwasaki M, Nakasato N: Seizure freedom after lamotrigine rash: a peculiar phenomenon in epilepsy. *Int Med* 53: 2521-2522, 2014 (PMID: 25366014)
- Kato K, Jin K, Itabashi H, Iwasaki M, Kakisaka Y, Aoki M, Nakasato N: Earlier tachycardia onset in right than left mesial temporal lobe seizures. *Neurology* 83: 1232-1236, 2014 (PMID: 25194011)
- Usubuchi H, Kawase T, Kanno A, Yahata I, Miyazaki H, Nakasato N, Kawashima R, Katori Y: Effects of contralateral noise on the 20-Hz auditory steady state response - magnetoencephalography study. *PLoS ONE* 9(6): e99457, 2014
- Itabashi H, Jin K, Iwasaki M, Okumura E, Kanno A, Kato K, Tominaga T, Kawashima R, Nakasato N: Electro- and magneto-encephalographic spike source localization of small focal cortical dysplasia in the dorsal peri-rolandic region. *Clin Neurophysiol* 125: 2358-2363, 2014 (PMID: 24856458)
- Jin K, Nakasato N: Long-cherished dreams for epileptologists and clinical neurophysiologists: Automatic seizure detection in long-term scalp EEG. *Clin Neurophysiol* 125:1289-1290, 2014 (PMID: 24439072)
- Kakisaka Y, Fujikawa M, Kaneko S, Nakasato N: Prolonged depersonalization/derealization-like symptom after migraine headache: a case report. *Neurol Sci* 35: 1483-1484, 2014 (PMID: 24752392)
- Haginoya K, Uematsu M, Munakata M, Kakisaka Y, Kikuchi A, Nakayama T, Hino-Fukuyo N, Tsuburaya R, Kitamura T, Sato-Shirai I, Abe Y, Matsumoto Y, Wakusawa K, Kobayashi T, Ishitobi M, Togashi N, Iwasaki M, Nakasato N, Iinuma K: The usefulness of subtraction ictal SPECT and ictal near-infrared spectroscopic topography in patients with West syndrome. *Brain Dev* 35: 887-893, 2013
- Kawase T, Kanno A, Takata Y, Nakasato N, Kawashima R, Kobayashi T: Positive auditory cortical responses in patients with absent brainstem response. *Clin Neurophysiol*. 125: 148-153, 2014
- Kumabe T, Sato K, Iwasaki M, Shibahara I, Kawaguchi T, Saito R, Kanamori M, Yamashita Y, Sonoda Y, Iizuka O, Suzuki K, Nagamatsu K, Seki S, Nakasato N, Tominaga T. Summary of 15 years experience of awake surgeries for neuroepithelial tumors in Tohoku university. *Neurol Med Chir (Tokyo)*. 53: 455-466, 2013
- Okumura E, Iwasaki M, Sakuraba R, Itabashi I, Osawa SI, Jin K, Itabashi H, Kato K, Kanno A, Tominaga T, Nakasato N: Time-varying inter-hemispheric coherence during corpus callosotomy. *Clin Neurophysiol* 124: 2091-2100, 2013 (PMID:23756060)

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- Shiraishi H, Haginoya K, Nakagawa E, Saitoh S, Kaneko Y, Nakasato N, Chan D, Otsubo H: Magnetoencephalography localizing spike sources of atypical benign partial epilepsy. *Brain Dev* 36:21-27, 2014 (PMID: 23384398)
- Iwasaki, M, Uematsu M, Nakayama T, Hino-Fukuyo N, Sato Y, Kobayashi T, Haginoya K, Osawa S, Jin K, Nakasato N, Tominaga T: Parental satisfaction and seizure outcome after corpus callosotomy in patients with infantile or early childhood onset epilepsy. *Seizure*. 22:303-305, 2013
- Shibahara I, Osawa SI, Kon H, Morita T, Nakasato N, Tominaga T, Narita N: Increase in the number of patients with seizures following the Great East-Japan Earthquake. *Epilepsia* 54: e49-52, 2013
- Nakasato N: Does measurement of event-related gamma-augmentation replace electrical stimulation via intracranial electrodes? *Clin Neurophysiol* 124: 829-830, 2013
- Iwasaki M, Uematsu M, Sato Y, Nakayama T, Haginoya K, Osawa S, Itabashi H, Jin K, Nakasato N, Tominaga T: Complete remission of seizures after corpus callosotomy. *J Neurosurg Pediatr* 10: 7-13. 2012
- Tanji K, Iwasaki M, Nakasato N, Suzuki K: Face specific broadband electrocorticographic spectral power change in the rhinal cortex. *Neurosci Lett* 515: 66-70. 2012
- Takata Y, Kawase T, Nakasato N, Kanno A, Kobayashi T: Auditory evoked magnetic fields in patients with absent brainstem responses due to auditory neuropathy with optic atrophy. *Clin Neurophysiol* 123: 985-992, 2012
- Park HM, Nakasato N, Tominaga T: Localization of abnormal discharges causing insular epilepsy by magnetoencephalography. *Tohoku J Exp Med* 226: 207-211, 2012
- Kawase T, Maki A, Kanno A, Nakasato N, Sato M, Kobayashi T: Contralateral white noise attenuates 40-Hz auditory steady-state fields but not N100m in auditory evoked fields. *Neuroimage* 59: 1037-1042, 2012
- Izumi S, Oouchida Y, Okita T, Suzuki E, Abe T, Nagatomi R, Nakasato N, Takagi T: Development of an integration circuit to measure pulsed magnetic field: evaluation of its usefulness by comparing measured with theoretical magnetic field structure. *Jpn J Compr Rehabil Sci* 3: 42-50, 2012
- Iwasaki M, Nakasato N, Kakisaka Y, Kanno A, Uematsu M, Haginoya K, Tominaga T: Lateralization of interictal spikes after corpus callosotomy. *Clin Neurophysiol*. 122: 2121-2127, 2011
- Takada S, Iwasaki M, Suzuki H, Nakasato N, Kumabe T, Tominaga T: Angiocentric glioma and surrounding cortical dysplasia manifesting as intractable frontal lobe epilepsy--case report. *Neurol Med Chir (Tokyo)*. 51: 522-526, 2011
- Kakisaka Y, Iwasaki M, Haginoya K, Kanno A, Tsuchiya S, Nakasato N: Somatotopic distribution of peri-rolandic spikes may predict prognosis in pediatric-onset epilepsy with sensorimotor seizures. *Clin Neurophysiol*. 122: 869-873, 2011
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INVITED LECTURES IN INTERNATIONAL CONFERENCES:

- Nakasato N: Why development of telemedicine is so slow in Japan even during the pandemic. 13th Asian & Oceanian Epilepsy Congress, June 13th, 2021, Web Conference (Invited lecture)
- Nakasato N: Debate Session: For "Telemedicine versus face-to-face medicine in the epilepsy clinic", 13th Asian & Oceanian Epilepsy Congress, June 11th, 2021, Web Conference (Invited lecture)
- Nakasato N: MEG history at Tohoku University: from SQUID to TMR sensors. Tohoku-Yonsei Epilepsy and MEG symposium. February 19, 2021, Seoul, Korea (Web Conference) (Didactic Session)
- Nakasato N: Magnetoencephalography: recent advances in epileptology. Asian Epilepsy Surgery Congress, November 7, 2020, Taipei, Taiwan, Webconference (Symposium)
- Nakasato N: Epilepsy care in pandemic era. Situasi Terkini Pandemi Covid-19, August 8, 2020, Jakarta, Indonesia, Web Conference, (Invited Lecture)
- Nakasato N: Epilepsy: The name you know, the story you don't. Asian Leksell Gamma Knife Society. January 19, 2019, Sendai, Japan (Special Lecture)
- Nakasato N: Mission of Department of Epileptology, Epilepsy Symposium. July 19, 2018, Busan, Korea (Invited Lecture)
- Nakasato N: Mission of Department of Epileptology, Epilepsy Symposium. July 18, 2018, Seoul, Korea (Invited Lecture)
- Nakasato N, Kanno A, Ishida M, Asagi S, Kakisaka Y, Jin K: When, why and how is MEG essential to diagnose epilepsy? 12th Asian-Oceanian Congress of Neuroradiology. March 18, 2018, Taipei, Taiwan (Symposium)
- Nakasato N: Education and outreach activity for epilepsy in Japan. Workshop of Epilepsy, Indonesian Neurological Association and Neurology Department, Hasanuddin University. Makassar, Indonesia, July 8, 2017, Makassar, Indonesia (Invited Lecture)
- Nakasato N: Diagnostic strategy of adult epilepsy. EEG Workshop. July 7, 2017, Makassar, Indonesia (Invited Lecture)
- Nakasato N: What is epilepsy, again? The International Seminar, Medical Faculty Alkhairaat University "Knowing Epilepsy". July 5, 2017, Palu, Indonesia (Invited Lecture)
- Nakasato N: My dream of epilepsy care in Japan, Indonesia and the world. The International Seminar, Medical Faculty Alkhairaat University. "Knowing Epilepsy". July 5, 2017, Palu, Indonesia (Invited Lecture)
- Nakasato N: Transitioning care of patients from pediatric to adult neurology (a patient perspective). 11th Asian & Oceanian Epilepsy Congress, May 13-16, 2016, Hong Kong (Symposium).
- Nakasato N: Epilepsy care during a natural disaster. Epilepsy Across the Lifespan - TeleECHO Clinic, University of New Mexico, December 8, 2015, Albuquerque, New Mexico, USA (Invited Lecture)
- Nakasato N: Epilepsy, Educate, Change. Azerbaijan Medical University. September 10, 2015, Baku, Azerbaijan (Invited Lecture)
- Nakasato N, Itabashi H, Jin K, Iwasaki M, Tominaga T: Detection and localization of EEG and MEG spikes in cases with small cortical dysplasia often overlooked on MRI. The 8th Asian Epilepsy Surgery Congress. October 4-6, 2014, Tokyo (Invited Lecture)
- Nakasato N, Rampp S: Epilepsy: theory and grounding. The 19th International Conference on Biomagnetism. August 24-28, 2014, Halifax, Canada (Symposium)
- Nakasato N: MEG and EEG spike localization in cases with small FCD overlooked by MRI. Colloquium on Drug Resistant Epilepsy, August 16-18, 2013, NIMHANS, Bangalore, India (Invited Lecture)
- Nakasato N: Functional imaging for epilepsy surgery. The World Society for Stereotactic and Functional Neurosurgery, May 27-30, 2013, Tokyo (Keynote Address)

Nakasato N, Tanji K, Iwasaki M, Suzuki K: ECoG based functional brain mapping in epilepsy. Taiwan Society of Clinical Neurophysiology, December 23, 2012, Taipei (Invited Lecture)

Nakasato N: Epilepsy care network in Tohoku district through 3.11 disaster. Taiwan Society of Clinical Neurophysiology, December 23, 2012, Taipei (Invited Lecture)

Nakasato N: Clinical application of MEG. Clinical Neurophysiology Round, University of California, Los Angeles (UCLA). October 23, 2012, Los Angeles (Invited Lecture)

Nakasato N: Epilepsy Care in Tohoku District after the 3.11 Disaster in 2011. Clinical Neurophysiology Round, University of California, Los Angeles(UCLA). October 23, 2012, Los Angeles (Invited Lecture)

Nakasato N: MEG. Asian & Oceanian Epilepsy Congress, March 24, 2012, Manila (Symposium)

Nakasato N: MEG and epilepsy. Seoul National University, January 18, 2012, Seoul (Invited Lecture)

Nakasato N: MEG and epilepsy. Samsung Seoul Hospital, January 17, 2012, Seoul (Invited Lecture)

Nakasato N: MEG and epilepsy. Yonsei University College of Medicine, January 16, 2012, Seoul (Invited Lecture)

Nakasato N: Clinical applications of MEG: current practice and future directions. December 23, 2011, National Institute of Mental Health and Neuroscience (NIMHANS), Bangalore, India (Invited Lecture)

Nakasato N: Epilepsy patients in and around the tsunami-devastated area in Japan in 2011. Public Lecture for Epilepsy Foundation, India, December 22, 2011, Mumbai (Invited Lecture)

Nakasato N: MEG in clinical practice. International Society for the Advancement of Clinical Magnetoencephalography, November 3-5, 2011, Las Vegas (Special Keynote Lecture)

Nakasato N: Epilepsy patients in and around the tsunami-devastated area in Japan in 2011. 29th International Epilepsy Congress, August 28 - September 1, 2011, Rome (Invited Platform Session)

Nakasato N: Practical reasons for applying MEG clinically. 29th International Congress of Clinical Neurophysiology (ICCN2010), October 29th, 2010, Kobe (Symposium)

Nakasato N: Magnetoencephalographic evaluation of neocortical epilepsy and eloquent cortical function. 8th AOEC, Clinical Epilepsy Workshop on Epilepsy Surgery in Neocortical Epilepsy, October 20, 2010, Melbourne (Invited Lecture)

Nakasato N: MEG: Separation first, orientation second and localization third. The Third Beijing International Epilepsy Forum, November 12-15, 2009, Beijing (Special Lecture)

Nakasato N: Practical difference between EEG and MEG in epilepsy. Pre-Congress: Asian Symposium: Diagnosis and Treatment of Partial Onset Seizures, October 21, 2009, Hiroasaki (Special Lecture)

Nakasato N: MEG: Separation first, orientation second and localization third. The 13th Seoul Epilepsy Symposium, September 19, 2009, Seoul (Special Lecture)

Nakasato N: Seeking application of MEG for neurosurgeons. Ground Round, Department of Neurosurgery, Seoul National University, September 18, 2009, Seoul (Invited Lecture)

Nakasato N: Is MEG just a localization tool? The 2nd Biannual Conference of the International Society for the Advancement of Clinical Magnetoencephalography (ISACM), September 3-5, 2009, Athens, Greece (Round Table Discussion)

Nakasato N: What's the difference between EEG and MEG in practice? International Workshop on Advanced Epilepsy Treatment, March 28-30 2009, Kitakyushu, Japan (Invited Lecture)

Nakasato N: Magnetoencephalographic (MEG) Diagnosis of Early-Stage Cerebral Ischemia. The 11th Meeting of Hiroasaki International Forum of Medical Science, March 27-28, 2009, Hiroasaki, Japan (Symposium)

Nakasato N: Combined Use of EEG and MEG for Presurgical Evaluation of Epilepsy. Asian Epilepsy Surgery Congress, October 25-26, 2008, Shijiazhuang, China (Symposium)

- Nakasato N: Use of clinical MEG beyond spike and functional mapping. International Conference on Biomagnetism, August 25-29, 2008, Sapporo (Key Note Lecture)
- Nakasato N, Salayev KA, Ishitobi M, Kakisaka Y, Iinuma K, Kanno A, Iwasaki M, Fujiwara S, Tominaga T: Neuromagnetic specification of frontal or parietal origin of rolandic spikes. Korean Epilepsy Society, June 27, 2008, Seoul (Joint Symposium of KES and JES)
- Nakasato N: Application of MEG for pediatric epilepsy Taiwan Epilepsy Society, March 15, 2008, Taipei (Special Lecture)
- Nakasato N: Epilepsy care in Japan: present and future Taiwan Epilepsy Society, March 15, 2008, Taipei (Symposium)
- Nakasato N: Impact of MEG on epilepsy surgery. Asian Epilepsy Surgery Congress, June 1-2, 2007, Seoul (Luncheon Seminar)
- Nakasato N: Combined EEG and MEG analysis of interictal and ictal discharges. Workshop: MEG Live: How to Analyze and Localize Functional Eloquent Cortex and Epileptic Discharges. American Clinical Neurophysiology Society, November 1-5, 2006, Chicago (Invited Lecture)
- Nakasato N: Clinical neuroscience. Sam Williamson Memorial Symposium, International Conference on Biomagnetism, August 21-26, 2006, Vancouver (Invited Lecture)
- Nakasato N, Kumabe T, Tominaga T: Magnetoencephalographic functional brain mapping and treatment of glioma. Guangzhou International Symposium of Advanced Neuro-oncology and Neurosurgery on Eloquent Areas, April 8-9, 2006, Guangzhou (Special Lecture)
- Nakasato N, Kumabe T, Tominaga T: Impact of neuromagnetic functional mapping for treatment of glioma. 4th Meeting of the Asian Society for Neuro-Oncology, November 4-6, 2005, Taipei (Special Lecture)
- Nakasato N: Conflict, concordance and compromise of scalp EEG and MEG. Seminar, Taipei Veterans General Hospital, October 4, 2005, Taipei, Taiwan (Invited Lecture)
- Nakasato N: Interhemispheric asymmetry of auditory-evoked and language-related magnetic fields. International Workshop on Biomagnetism & Taiwan-Japan Symposium on Superconductive Electronics, October 6-12, 2005, Taipei/Kaohsiung, Taiwan (Invited Lecture)
- Nakasato N. 7th Plenary Session: Development of New Applications. MEG Applications Conference, September 15-17, 2005, Xylocastro, Greece (Panelist)
- Nakasato N. 6th Plenary Session: Society of Clinical MEG Applications. MEG Applications Conference, September 15-17, 2005, Xylocastro, Greece (Panelist and Co-chair)
- Nakasato N. 5th Plenary Session: Criteria for Diagnostic Practice and Issues of Reimbursement. MEG Applications Conference, September 15-17, 2005, Xylocastro, Greece (Panelist)
- Nakasato N. 4th Plenary Session: Textbook Development, MEG Applications Conference, September 15-17, 2005, Xylocastro, Greece (Panelist and Co-chair)
- Nakasato N: State of art development of MEG and clinical applications. MEG Seminar in Huashan Hospital: State-of-Art Development of MEG and Clinical Applications, May 20, 2005, Shanghai (Invited Lecture)
- Nakasato N: Significance of MEG in clinical neuroscience. Biomagnetism Symposium at Yonsei University College of Medicine, May 18, 2005, Seoul (Invited Lecture)
- Nakasato N: Neuromagnetic sustained fields in the recognition memory task for spoken words. The 8th International Evoked Potentials Symposium, October 5-8, 2004, Fukuoka (Symposium)
- Nakasato N: Advantages of MEG to investigate complex epilepsy: an overview. 14th International Conference on Biomagnetism, August 8-12, 2004, Boston (Symposium)
- Nakasato N, Ishitobi M, Yamamoto K, Iinuma K: Possible precentral origin of benign rolandic spikes in childhood. 57th Annual Meeting of the American Epilepsy Society, December 5-10, 2003, Boston (Invited Lecture, Special Interest Group)

- Nakasato N: Neurophysiological, EEG, MEG, and other imaging techniques for pre-surgical evaluation of candidates: MEG. ILAE-DMC Neurophysiology in Epilepsy Skills Workshop. October 11, 2003, Lisbon (Invited Lecture)
- Nakasato N: Neuromagnetic localization of epilepsy. Thirteenth International Conference on Biomagnetism, August 10-15, 2002, Jena, Germany (Leading Lecture)
- Nakasato N: Spatiotemporal resolution of MEG. 20th Annual Spring Meeting of the Korean Neurosurgical Society, April 24-26, 2002, Jeju (Breakfast Seminar)
- Nakasato N: Electro- and magnetophysiology for glioma surgery. 20th Annual Spring Meeting of the Korean Neurosurgical Society, April 24-26, 2002, Jeju (Special Lecture)
- Nakasato N: Neuromagnetic localization of epilepsy. 20th Annual Spring Meeting of the Korean Neurosurgical Society, April 24-26, 2002, Jeju (Special Lecture)
- Nakasato N: Clinical Application of MEG. Gil Medical Hospital, April 22, 2002, Incheon (Invited Lecture)
- Nakasato N, Shamoto H, Iwasaki M, Nagamatsu K, Kanno A, Hatanaka K, Shimizu H, Yoshimoto T: Neuromagnetic localization of interictal spike discharges correlates with postoperative seizure outcome. International Symposium of Brain Electromagnetic Topography, March 8-10, 2002, Utsunomiya (Symposium)
- Nakasato N: Clinical significance of magnetoencephalography in localizing epilepsy. The International Symposium on Electromagnetics in Biology and Medicine, April 2-4, 2001, Tokyo (Symposium)
- Nakasato N, Kawamura T, Jokura H, Takahashi A, Yoshimoto T: Does central sulcus move functionally in patients with Rolandic AVM? -A magnetoencephalographic study. Third International Symposium on Cerebral and Spinal Cord AVM. April 23-24, 2000, Tokyo (Luncheon Seminar)
- Nakasato N, Kumabe T, Ohtomo S, Kanno A, Kayama T, Yoshimoto T. Source localization and latency delay of auditory evoked magnetic fields in patients with temporal lobe tumors. Second International Symposium of Brain Tumor Pathology, May 12-13, 2000, Nagoya (Symposium)
- Nakasato N: Clinical significance of high temporal resolution in neuromagnetism. 12th International Conference on Biomagnetism, August 13-16, 2000, Helsinki (Keynote Lecture)
- Nakasato N, et al: Functional reorganization in cerebral cortex with brain tumors revealed by MEG and fMRI. 5th International Conference on Functional Mapping of the Human Brain June 23-26, 1999, Duesseldorf (Presidential Symposium)
- Nakasato N: Anatomic-functional correspondence in hand sensorimotor cortices revealed by MEG, fMRI and intraoperative cortical stimulation, XI International Congress of EMG and Clinical Neurophysiology, September 7 - 11, 1999, Prague (Symposium)
- Nakasato N: Neuromagnetic Evaluation of intractable epilepsy. 2nd Congress of Asian & Oceanian Epilepsy Organization. November 5-8, 1998, Taipei (Symposium)
- Nakasato N, Inoue T, Takahashi A, Kanno A, Hatanaka K, Shimizu H, Kumabe T, Yoshimoto T: Combination of magnetoencephalography (MEG) and functional magnetic resonance imaging (fMRI) for neurosurgical mapping of the sensory and motor cortices. 20th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. October 29 - November 1, 1998, Hong Kong (Symposium)
- Nakasato N, Kanno A, Hatanaka K, Ohtomo S, Inoue T, Shimizu H, Kumabe T, Sato K, Yoshimoto T: MEG, fMRI and intraoperative cortical stimulation for neurosurgical brain mapping. 11th International Conference on Biomagnetism, August 28 - September 2, 1998, Sendai (Symposium)

- Nakasato N: Magnetophysiology and Electrophysiology in Clinical Neuroscience. Advanced Biomagnetism in Biomedical Engineering and Neuroscience (Satellite Symposium on Biomag98), August 27, 1998, Tokyo (Symposium)
- Nakasato N: Functional brain mapping using MEG and awake surgery. Seminar in Neurosurgery, Tooolo Hospital, Helsinki University, October 30, 1997, Helsinki (Invited Lecture)
- Nakasato N: Experience in magnetic source imaging (MSI) in neurosurgical planning. Seminar in Biomagnetism Laboratory, Helsinki University Central Hospital, October 28, 1997, Helsinki (Invited Lecture)
- Nakasato N, Ohtomo S, Kanno A, Hatanaka K, Seki K, Kawamura T, Kumabe T, Takahashi A, Jokura H, Mizoi K, Yoshimoto T: Presurgical functional mapping of the eloquent cortices using an MRI-linked Whole-head MEG system. Second Congress of the International Society for Neurosurgical Instrument Inventors, July 3-5, 1997, Berlin (Special Lecture)
- Nakasato N, Kumabe T, Kanno A, Ohtomo S, Mizoi K, Yoshimoto T: Cortical auditory function in cases with temporal lobe tumors evaluated by an MRI-linked whole head MEG system. Third Pan-Pacific Conference on Brain Topography, April 1-4, 1997, Urayasu (Symposium)
- Nakasato N, Shirane R, Hatanaka K, Kanno A, Takahashi A, Yoshimoto T: Neuromagnetic evaluation of pediatric brain diseases: Japanese and Canadian International Workshop: Development of Synaptic Transmission in Mental Retardation, March 6-7, 1997, Tokyo (Symposium)
- Nakasato N, Yoshimoto T: Clinical application of auditory evoked magnetic fields. International Symposium on Brain Mapping, September 13-15, 1996, Oiso (Symposium)
- Nakasato N: Presurgical localization of eloquent cortices using an MRI-linked whole head MEG system. Tenth International Conference on Biomagnetism, February 16-21, 1996, Santa Fe, New Mexico (Symposium)
- Nakasato N: MRI-linked whole head MEG system and presurgical decision making. The Tenth Tokyo Institute of Psychiatry International Symposium on "Visualization of Information Processing in the Human Brain: Recent Advances in MEG and Functional MRI", October 12-13, 1995, Tokyo (Symposium)
- Nakasato N, Seki K, Kanno A, Kawamura T, Ohtomo S, Fujita S, Hatanaka K, Yoshimoto T: Comparison of MEG- and EEG-map patterns by two occipital sources in visual evoked responses for full field stimuli. The 6th International Congress of the International Society for Brain Electromagnetic Topography (ISBET), October 10-12, 1995, Tokushima (Symposium).
- Nakasato N: Clinical applications of an MRI-linked whole head MEG system. Seminar on Magnetic Source Imaging (MEG), University of British Columbia, Department of Radiology, Dec 15, 1994, Vancouver (Invited Lecture)
- Nakasato N: The whole head MEG: focal or extended cortical sources?, Seminar in Department of Neurology, Montreal Neurological Institute, December 12, 1994, Montreal (Invited Lecture)
- Nakasato N: Presurgical functional brain mapping using an MRI-linked whole head MEG system. Neurosurgical Grand Round, Montreal Neurological Institute, December 12, 1994, Montreal (Invited Lecture)
- Nakasato N, Seki K, Kawamura K, Shimizu H, Fujiwara S, Yoshimoto T: Functional brain mapping using an MRI-linked whole head magnetoencephalography (MEG) system. The Fifth International Evoked Potentials Symposium, September 4-7, 1994, Milan (Symposium)
- Nakasato N: Clinical application of magnetoencephalography (MEG). Joint Symposium of Tohoku University Medical School and Asan Medical Center. Nov 18, 1993, Seoul (Symposium)
- Nakasato N, Fujita S, Tamura I, Fujiwara S, Yoshimoto T: The whole head magnetoencephalography revealed functional asymmetry of human auditory evoked cortical

response. 9th International Conference on Biomagnetism, Aug 14-20, 1993, Vienna
(Symposium)

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