

# CURRICULUM VITAE

## Dr. Masataka Yokoyama

### **Present Position:**

Professor Emeritus, Department of Anesthesiology & Intensive Care Medicine,  
Kochi Medical School

### **Degree:**

1980 M.D. Okayama University Medical School  
1995 Ph.D. Okayama University Medical School

### **Qualifications (Japanese Licenses):**

1985 Profession of Anesthesiology  
1997 Attending Doctor in Anesthesiology  
Specialist in Authorization of Anesthesiology  
1991 Specialist in Authorization of Intensive Care Medicine  
1994 Specialist in Authorization of Pain Clinic

### **Special Field:**

<Clinical Practice>  
Anesthesia, Pain Management, Pain Clinic, Intensive Care Medicine  
<Clinical Research>  
Regional Anesthesia, Pain Management, Pain Medicine, Perioperative Care  
<Basic Research>  
Local Anesthetics, Pain Mechanism, Gene Therapy of Pain,  
Postoperative Cognition Function

### **Education:**

1974-1980 Okayama University Medical School

### **Professional Training and Employment:**

1980-1981 Resident in Anesthesiology, Okayama University Medical School  
1981-1982 Clinical Fellow in Anesthesiology, Kagawa Prefecture Central  
Hospital  
1982-1990 Staff in Anesthesiology, Kochi Medical School  
1990-1992 Research Fellow in Anesthesiology, Kansas University Medical  
Center (USA)

1992-1996	Staff in Anesthesiology & Resuscitology, Okayama University Medical School
1996-2002	Assistant Professor in Anesthesiology & Resuscitology, Okayama University Medical School
2002-2009	Associate Professor in Anesthesiology & Resuscitology, Okayama University Medical School
2009-2020	Professor & Chair in Anesthesiology & Intensive Care Medicine, Kochi Medical School

## **Board:**

Japanese Society of Regional Anesthesia  
 Secretary General, Preident Elect in 2019  
 Asian Oceanian Society of Regional Anesthesia & Pain Medicine  
 Preident Elect in 2019  
 Japan Society for Clinical Anesthesia  
 Past President in 2016  
 Japanese Association for the Study of Musculoskeletal Pain  
 Japanese Society of Anesthesiologists (~2017)  
 Japan Society of Pain Clinicians (~2017)

## **International Comittee**

WFSA Educational Committee

## **Reviewer:**

<International>

Anesthesia and Analgesia  
 Journal of Anesthesia

<Japan>

Journal of Japan Society of Pain Clinicians  
 Journal of Japan Society for Clinical Anesthesia

## **Grants:**

<Grant-in-Aid for Scientific Research from the Ministry of Education, Culture, Sports, Science and Technology of Japanese Government>

- 1) CATEGORY: Grant-in- Aid for Exploratory Research, 1999-2000  
 TITLE of PROJECT: Basic research of “gene therapy for pain” by the expression of intrinsic opioid.  
 AMOUNT: 2.0 million yen
- 2) CATEGORY: Grant-in- Aid for Scientific Research (C) , 2002-2003  
 TITLE of PROJECT: Gene therapy for pain by the expression of intrinsic analgesic substances  
 AMOUNT: 3.5 million yen
- 3)CATEGORY: Grant-in- Aid for Scientific Research (C), 2002-2004  
 TITLE of PROJECT: The therapy for intractable pain by intrathecal

- administration of neurotrophic factor-antisense RNA.  
AMOUNT: 3.6 million yen
- 4)CATEGORY: Grant-in- Aid for Scientific Research (C)(2), 2003-2004  
TITLE of PROJECT: Pain mechanism and therapy of postherpetic neuralgia in rats.  
AMOUNT: 3.3 million yen
- 5)CATEGORY: Grant-in- Aid for Scientific Research (C), 2004-2005  
TITLE of PROJECT: Basic research for mechanism of acute and chronic pain and gene therapy.  
AMOUNT: 3.5 million yen
- 6)CATEGORY: Grant-in- Aid for Exploratory Research, 2004-2005  
TITLE of PROJECT: Development of therapy for intractable neuropathic pain by inhibition of apoptosis. AMOUNT: 3.0 million yen
- 7)CATEGORY: Grant-in- Aid for Scientific Research (C), 2005-2006  
TITLE of PROJECT: Basic research for gene therapy of intractable pain by siRNA  
AMOUNT: 3.5 million yen
- 8)CATEGORY: Grant-in- Aid for Scientific Research (C), 2005-2006  
TITLE of PROJECT: Mechanism of cancer pain induced by bone tumor model and gene therapy.  
AMOUNT: 3.4 million yen
- 9)CATEGORY: Grant-in- Aid for Scientific Research (C), 2006-2007  
TITLE of PROJECT: Pain therapy by siRNA against brain derived neurotrophic factor.  
AMOUNT: 3.5 million yen
- 10) CATEGORY: Grant-in- Aid for Scientific Research (C), 2007-2008  
TITLE of PROJECT: Development of analgesic method by inhibition of synthesis of brain-derived neurotrophic factor (BDNF) exon released from microglia.  
AMOUNT: 3.4 million yen
- 11) CATEGORY: Grant-in- Aid for Scientific Research (C), 2009-2011  
TITLE of PROJECT: Basic research of pain control by DNA decoy for brain-derived neurotrophic factor.  
AMOUNT: 3.4 million yen
- 12) CATEGORY: Grant-in- Aid for Scientific Research (C), 2012-2014  
TITLE of PROJECT: Pain evaluation and gene therapy for the target of BDNF exon  
AMOUNT: 4.1 million yen
- 13) CATEGORY: Grant-in- Aid for Exploratory Research, 2012-2014  
TITLE of PROJECT: Basic and clinical research of cognitive function for anesthesia  
AMOUNT: 2.6 million yen

<Grant from Okayama University>

- 1) CATEGORY: Grant-in- Aid for Highly-Advanced medical Technology, 1999-2000  
TITLE of PROJECT: Intrathecal infusion of neurotrophic factor for intractable nervous disease.  
AMOUNT: 3.0 million yen
- 2) CATEGORY: Grant from the President of Okayama University, 2001  
TITLE of PROJECT: Study of analgesia and immune activity for cancer pain.  
AMOUNT: 1.3 million yen

<Grant from Kochi Medical School>

- 1) CATEGORY: Grant from the President of Kochi Medical School, 2011  
TITLE of PROJECT: ERAS program by perioperative care team.  
AMOUNT: 3.0 million

<Grant from Kochi Trust Bank>

- 1) CATEGORY: Grant from Cancer Research, 2009  
TITLE of PROJECT: Development of gene therapy for cancer pain.  
AMOUNT: 1.5 million

## **Publications (English only):**

<Research Paper>

- 1) Yokoyama M, Ueda W, Hirakawa M, Yamamoto H:  
Hemodynamic effect of the prone position during anesthesia. *Acta Anaesthesiol Scand* 35:741-744, 1991
- 2) Yokoyama M, Benson KT, Arakawa K, Goto H:  
Effects of flumazenil on intravenous lidocaine-induced convulsions and anticonvulsant property of diazepam in rats.  
*Anesth Analg* 75:87-90, 1992
- 3) Yokoyama M, Goto H, Ueda W, Hirakawa M, Arakawa K:  
Modification of intravenous lidocaine-induced convulsions by epinephrine in rats.  
*Can J Anaesth* 40:251-256, 1993
- 4) Yokoyama M, Hirakawa M, Goto H:  
Clonidine does not affect lidocaine seizure threshold in rats.  
*Can J Anaesth* 40:1205-1209, 1993
- 5) Yokoyama M, Hirakawa M, Goto H:  
Effects of vasoconstrictive agents added to lidocaine on intravenous lidocaine-induced convulsions in rats.  
*Anesthesiology* 82:574-580, 1995
- 6) Yokoyama M, Mizobuchi S, Nakatsuka H, Hirakawa M:  
Comparison of plasma lidocaine concentrations after injection of a fixed small volume in the stellate ganglion, the lumbar epidural space, or a single intercostal nerve.  
*Anesth Analg* 87:112-115, 1998
- 7) Yokoyama M, Nakatsuka H, Itano Y, Hirakawa M:  
Stellate ganglion block modifies the distribution of lymphocyte subsets and natural-killer cell activity.  
*Anesthesiology* 92:109-115, 2000
- 8) Yokoyama M, Ueda W, Hirakawa M:  
Haemodynamic effects of the lateral decubitus position and the kidney rest decubitus position during anaesthesia.  
*Br J Anaesth* 84:753-757, 2000
- 9) Yokoyama M, Mizobuchi S, Nagano O, Fujii H, Yamashita M, Hirakawa M:  
Effects of epidural insertion site and surgical procedure on plasma lidocaine concentration.  
*Anesth Analg* 92:470-5, 2001
- 10) Yokoyama M, Itano Y, Mizobuchi S, Nakatsuka H, Kaku R, Takashima T, Hirakawa M:  
Effects of epidural block on the distribution of lymphocyte subsets and natural-killer cell activity in patients with and without pain.  
*Anesth Analg* 92:463-9, 2001
- 11) Yokoyama M, Ohashi I, Nakatsuka H, Mizobuchi S, Toda Y, Matsumi M, Morita Y, Hirakawa M:  
Drug-induced liver disease during continuous epidural block with bupivacaine.  
*Anesthesiology* 95: 259-261, 2001

- 12) Toda Y, Takeuchi M, Morita K, Iwasaki T, Oe K, Yokoyama M, Hirakawa M:  
Complete heart block during anesthetic management in a patient with mucopolysaccharidosis type VII.  
*Anesthesiology* 95: 1035-1037, 2001
- 13) Yokoyama M, Itano Y, Kusume Y, Oe K, Mizobuchi S, Morita K:  
Total spinal anesthesia provides transient relief of intractable pain.  
*Can J Anaesth* 49:810-813, 2002
- 14) Inoue K, Yokoyama M, Nakatsuka K, Goto K:  
Spontaneous resolution of epidural hematoma after continuous epidural analgesia in a patient without bleeding tendency.  
*Anesthesiology* 97:735-737, 2002
- 15) Takahashi S, Takahashi T, Mizobuchi S, Matsumi M, Yokoyama M, Morita K, Miyazaki M, Namba M, Akagi R, Sassa S:  
CYP2E1 overexpression upregulates both non-specific  $\delta$ -aminolevulinic synthase and heme oxygenase-1 in a human hepatoma cell line (HLE/2E1).  
*Int J Mol Med* 11:57-62, 2003
- 16) Yokoyama M, Aono H, Takeda A, Morita K:  
Cimetidine for chronic calcifying tendonitis of the shoulder.  
*Reg Anesth Pain Med* 28:248-252, 2003
- 17) Nakahira K, Takahashi T, Shimizu H, Maeshima K, Uehara K, Fujii H, Yokoyama M, Akagi R, Morita K:  
Protective role of heme oxygenase-1 induction in carbon tetrachloride-induced hepatotoxicity  
*Biochem Pharmacol* 66:1091-1105. 2003
- 18) Takeuchi M, Takahashi T, Taga N, Iwasaki T, Ohe K, Shimizu H, Suzuki T, Nakatsuka H, Yokoyama M, Sano R, Akagi K, Morita K:  
Right ventricle of patients undergoing congenital cardiac surgery differentially expression heme oxygenase-1 and heat shock protein 70 genes.  
*J Int Med Res* 31:413-417. 2003
- 19) Maeshima K, Takahashi T, Nakahara K, Shimizu H, Fujii H, Katayama H, Yokoyama M, Morita K, Akagi R, Sassa S:  
A protective role of interleukin 11 on hepatic injury in acute endotoxemia.  
*Shock* 21:134-138. 2004
- 20) Sun X, Yokoyama M, Mizobuchi S, Kaku R, Nakatsuka H, Takahashi T, Morita K:  
The effects of pretreatment with lidocaine or bupivacaine on the spatial and temporal expression of c-Fos protein in the spinal cord caused by plantar incision in the rat.  
*Anesth Analg* 98:1093-1098. 2004
- 21) Yokoyama M, Hanazaki M, Fujii H, Mizobuchi S, Nakatsuka H, Takahashi T, Matsumi M, Takeuchi M, Morita K:  
Correlation between the distribution of contrast medium and the extent of blockade during epidural anesthesia.  
*Anesthesiology* 100: 1504-1510. 2004
- 22) Yokoyama M, Sun X, Oku S, Taga N, Sato K, Mizobuchi S, Takahashi T, Morita K:  
Comparison of percutaneous electrical nerve stimulation with transcutaneous electrical nerve

- stimulation for long-term pain relief in patients with chronic low back pain.  
Anesth Analg 98: 1552-1556.2004
- 23)Hayashi M, Takahashi T, Morimatsu H, Fujii H, Taga N, Mizobuchi S, Matsumi H, Katayama H, Yokoyama M, Taniguchi M, Morita K:  
Increased carbon monoxide concentration in exhaled air after surgery anesthesia.  
Anesth Analg 99: 444-448.2004
- 24)Kusudo K, Ishii K, Rahman M, Aki Y, Miyatake A, Kosaka H, Kimura S, Komatsu T, Yokoyama M, Morita K, Abe Y, Nishiyama A:  
Blood flow-dependent changes in intrarenal nitric oxide levels during anesthesia with halothane or sevoflurane.  
Eur J Pharmacol 13: 267-273, 2004
- 25)Fujii H, takahashi T, Matsumi M, Kaku R, Shimizu H, Yokoyama M, Ohmori E, Yagi T, Sadamori H, Tanaka N, Akagi R, Morita K:  
Increased heme oxygenase-1 and decreased delta-aminolevulinic synthase expression in the liver of patients with acute liver failure.  
Int J Mol Med 14: 1001-1005, 2004
- 26)Kurata T, Matsubara E, Yokoyama M, Nagano I, Shoji M, Abe K:  
Improvement of SSPE by intrathecal infusion of  $\alpha$ -IFN.  
Neurology 63: 398-399, 2004
- 27)Otsuka F, Mizobuchi S, Ogura T, Sato K, Yokoyama M, Makino H:  
Long-term effects of octreotide on pituitary gigantism: its analgesic action on cluster headache.  
Endocr J 51: 449-452, 2004
- 28)Uehara K, Takahashi T, Fujii H, Shimizu H, Omori E, Matsumi M, Yokoyama M, Morita K, Akagi R, Sassa S:  
The lower intestinal tract-specific induction of heme oxygenase-1 by glutamine protects against endotoxemic intestinal injury.  
Crit Care Med 33: 381-390, 2005
- 29)Zhang S, Takeda Y, Hagioka S, Takata K, Aoe H, Nakatsuka H, Yokoyama M, Morita K:  
Measurement of GABA and glutamate in vivo levels with high sensitivity and frequency.  
Brain Res Brain Res Protoc 14: 61-66, 2005
- 30)Takata K, Takeda Y, Sato T, Nakatsuka H, Yokoyama M, Morita K:  
Effects of hypothermia for a short period on histologic outcome and extracellular glutamate concentration during and after cardiac arrest in rats.  
Crit Care Med 33: 1340-1345, 2005
- 31)Maeshima K, Takahashi T, Uehara K, Shimizu Y, Omori E, Yokoyama M, Tani T, Akagi R, Morita K:  
Prevention of hemorrhagic shock-induced lung injury by heme arginate treatment in rats.  
Biochem Pharmacol 69: 1667-1680, 2005
- 32)Yokoyama M, Itano Y, Katayama H, Morimatsu H, Takeda Y, Takahashi T, Nagano O, Morita K:  
The effects of continuous epidural anesthesia and analgesia on stress response and immune function in patients undergoing radical esophagectomy.  
Anesth Analg 101: 1521-1527, 2005

- 33) Nagano I, Ilieva H, Shiote M, Murakami T, Yokoyama M, Shoji M, Abe K:  
Therapeutic benefit of intrathecal injection of insulin-like growth factor-1 in a mouse model of amyotrophic lateral sclerosis.  
J Neurol Sci 235: 61-68, 2005
- 34) Nagano I, Shiote M, Murakami T, Kamada H, Hamakawa Y, Matsubara E, Yokoyama M, Morita K, Shoji M, Abe K:  
Beneficial effects of intrathecal IGF-1 administration in patients with amyotrophic lateral sclerosis.  
Neurol Res 27: 768-772, 2005
- 35) Takahashi T, Fujii H, Shimizu H, Omori E, Uehara K, Takeuchi M, Matsumi M, Yokoyama M, Akagi R, Morita K:  
Site- and cell-type- specific induction of intestinal inducible nitric oxide synthase in a rat model of endotoxemia.  
Medicinal Chemistry 1: 643-647, 2005
- 36) Yokoyama M, Hanazaki M, Fujii H, Mizobuchi S, Nakatsuka H, Takahashi T, Matsumi M, Takeuchi M, Morita K:  
Can epidurography help to predict the extent of epidural blockade?  
Anesthesiology 102: 479, 2005
- 37) Morimatsu H, Takahashi T, Maeshima K, Inoue K, Kawakami T, Shimizu H, Takeuchi M, Yokoyama M, Katayama H, Morita K:  
Increased heme catabolism in critical ill patients: Correlation among exhaled carbon monoxide, arterial carboxyhemoglobin and serum Ix $\alpha$  concentrations.  
Am J Physiol Lung Cell Mol Physiol 290: L114-L119, 2006
- 38) Sasaki T, Takahashi T, Maeshima K, Shimizu H, Toda Y, Morimatsu H, Takeuchi M, Yokoyama M, Akagi R, Morita K:  
Heme arginate pretreatment attenuates pulmonary NF- $\kappa$ B and AP-1 activation induced by hemorrhage shock via heme oxygenase-1 induction.  
Medicinal Chemistry in press, 2006
- 39) Kawakami T, Takahashi T, Shimizu H, Nakahira K, Takeuchi M, Katayama H, Yokoyama M, Morita K, Akagi R, Sassa S:  
Highly liver-specific heme oxygenase-1 induction by interleukin-11 prevents carbon tetrachloride-induced hepatotoxicity.  
Int J Mol Med 2006: 18:537-46.
- 40) Toda Y, Yokoyama M, Morimatsu H, Nakatsuka H, Takeuchi M, Katayama H, Morita K:  
General anesthesia in a patient with dystrophic epidemolysis.  
J Anesth 20: 138-40. 2006
- 41) Hanazaki M, Taga N, Nakatsuka H, Yokoyama M, Morita K, Shirakawa Y, Yamatsuji T, Naomoto Y, Hiraki T:  
Anesthetic management of radiofrequency ablation of mediastinal metastatic lymphnodes adjacent to the trachea.  
Anesth Analg 103: 1041-42, 2006



- 42) Kaku R, Yokoyama M, Kobayashi H, Matsuoka Y, Sato T, Mizobuchi S, Itano Y, Morita K: Altered response to formalin by L5 spinal nerve ligation in rats: a behavioral and molecular study. *Anesth Analg*. 2007 Apr;104(4):936-43.
- 45) Matsuoka Y, Yokoyama M, Kobayashi H, Omori M, Itano Y, Morita K, Mori H, Nakanishi T. Expression profiles of BDNF splice variants in cultured DRG neurons stimulated with NGF. *Biochem Biophys Res Commun* 362 : 682-8. 2007
- 46) Kobayashi H, Yokoyama M, Matsuoka Y, Omori M, Itano Y, Kaku R, Morita K, Ichikawa H. Expression changes of multiple brain-derived neurotrophic factor transcripts in selective spinal nerve ligation model and complete Freund's adjuvant model. *Brain Res*. 1206:13-9. 2008
- 47) Hanazaki M, Yokoyama M, Morita K, Kohjitani A, Sakai H, Chiba Y, Misawa M. Rho-kinase inhibitors augment the inhibitory effect of propofol on rat bronchial smooth muscle contraction. *Anesth Analg* 106 :1765-71. 2008
- 48) Omori M, Yokoyama M, Matsuoka Y, Kobayashi H, Mizobuchi S, Itano Y, Morita K, Ichikawa H. Effects of selective spinal nerve ligation on acetic acid-induced nociceptive responses and ASIC3 immunoreactivity in the rat dorsal root ganglion. *Brain Res* 1219: 26-31. 2008.
- 49) Hanazaki M, Chiba Y, Yokoyama M, Morita K, Kohjitani A, Sakai H, Misawa M. Y-27632 augments the isoflurane-induced relaxation of bronchial smooth muscle in rats. *J Smooth Muscle Res*. 44 :189-93. 2008.
- 50) Hanazaki M, Takata K, Goto K, Katayama H, Yokoyama M, Morita K, Shirakawa Y, Yamatsuji T, Naomoto Y. Anesthetic management of a patient with Alport-leiomyomatosis syndrome. *J Anesth.*;23:453-5. 2009
- 51) Egi M, Toda Y, Katayama H, Yokoyama M, Morita K, Arai H, Yamatsuji T, Bailey M, Naomoto Y. Safer glycemic control using isomaltulose-based enteral formula: a pilot randomized crossover trial. *J Crit Care* 25:90-6. 2010
- 51) Sato K, Fukumori S, Matsusaki T, Maruo T, Ishikawa S, Nishie H, Takata K, Mizuhara H, Mizobuchi S, Nakatsuka H, Matsumi M, Gofuku A, Yokoyama M, Morita K. Nonimmersive virtual reality mirror visual feedback therapy and its application for the treatment of complex regional pain syndrome: an open-label pilot study. *Pain Med* 11:622-9. 2010
- 52) Yatabe T, Kitagawa H, Yamashita K, Akimori T, Hanazaki K, Yokoyama M. Better postoperative oxygenation in thoracoscopic esophagectomy in prone positioning. *J Anesth* 24 : 803-6. 2010
- 53) Yatabe T, Yamazaki R, Kitagawa H, Okabayashi T, Yamashita K, Hanazaki K, Yokoyama M. The evaluation of the ability of closed-loop glycemic control device to maintain the blood glucose concentration in intensive care unit patients.

Crit Care Med 39 : 575-8. 2011

- 54) Obata N, Mizobuchi S, Itano Y, Matsuoka Y, Kaku R, Tomotsuka N, Morita K, Kanzaki H, Ouchida M, Yokoyama M.  
Decoy strategy targeting the brain-derived neurotrophic factor exon I to attenuate tactile allodynia in the neuropathic pain model of rats.  
Biochem Biophys Res Commun 408:139-44. 2011
- 55) Wei S, Chen G, He W, Chi H, Abe H, Yamashita K, Yokoyama M, Kodama H.  
Inhibitory effects of secoiridoids from the roots of *Gentiana straminea* on stimulus-induced superoxide generation, phosphorylation and translocation of cytosolic compounds to plasma membrane in human neutrophils.  
Phytother Res 26:168-73. 2012
- 56) Yatabe T, Kawano T, Yamashita K, Yokoyama M.  
Preoperative carbohydrate-rich beverage reduces hypothermia during general anesthesia in rats.  
J Anesth. 25 :5 58-62. 2011
- 57) Yatabe T, Kitagawa H, Kawano T, Munekage M, Okabayashi T, Yamashita K, Hanazaki K, Yokoyama M.  
Continuous monitoring of glucose levels in the hepatic vein and systemic circulation during the Pringle maneuver in beagles.  
J Artif Organs 14 : 232-7. 2011
- 58) Kawano T, Soga T, Chi H, Eguchi S, Yamazaki F, Kumagai N, Yokoyama M.  
Role of the neurosteroid allopregnanolone in the hyperalgesic behavior induced by painful nerve injury in rats.  
J Anesth 25 :942-5. 2011
- 59) Kawano T, Soga T, Chi H, Eguchi S, Yamazaki F, Yokoyama M.  
The involvement of the neurosteroid allopregnanolone in the antihyperalgesic effect of paroxetine in a rat model of neuropathic pain.  
Neuroreport 22 :984-8. 2011
- 60) Kawano T, Tamura T, Hamaguchi M, Yatabe T, Yamashita K, Yokoyama M.  
Successful management of rocuronium-induced anaphylactic reactions with sugammadex: a case report.  
J Clin Anesth 24(1):62-4. 2012
- 61) Wei S, He W, Lu J, Wang Z, Yamashita K, Yokoyama M, Kodama H.  
Effects of five oleanolic acid triterpenoid saponins from the rhizome of *Anemone raddeana* on stimulus-induced superoxide generation, phosphorylation of proteins and translocation of cytosolic compounds to cell membrane in human neutrophils.  
Fitoterapia 83 :402-7. 2012
- 62) Ikeuchi M, Kamimoto Y, Izumi M, Sugimura N, Takemura M, Fukunaga K, Yokoyama M, Tani T.  
Local infusion analgesia using intra-articular double lumen catheter after total knee arthroplasty: a double blinded randomized control study.  
Knee Surg Sports Traumatol Arthrosc 21:2680-4. 2013
- 63) Kawano T, Tanaka K, Chi H, Eguchi S, Yamazaki F, Kitamura S, Kumagai N, Yokoyama M.  
Biophysical and pharmacological properties of glucagon-like peptide-1 in rats under isoflurane anesthesia.

Anesth Analg 115 : 62-9. 2012

64) Yatabe T, Kitagawa H, Yamashita K, Hanazaki K, Yokoyama M.

Comparison of the perioperative outcome of esophagectomy by thoracoscopy in the prone position with that of thoracotomy in the lateral decubitus position.

Surg Today. 43 :386-91. 2013

65) Yatabe T, Tateiwa H, Ikenoue N, Kitamura S, Yamashita K, Yokoyama M.

Influence of administration of 1 % glucose solution on neonatal blood glucose concentration in cesarean section.

J Anesth 27:302-5. 2013

66) Chi H, Kawano T, Tamura T, Iwata H, Takahashi Y, Eguchi S, Yamazaki F, Kumagai N, Yokoyama M.

Postoperative pain impairs subsequent performance on a spatial memory task via effects on N-methyl-D-aspartate receptor in aged rats.

Life Sci 93 :986-93. 2013

67) Ikeuchi M, Kamimoto Y, Izumi M, Fukunaga K, Aso K, Sugimura N, Yokoyama M, Tani T.

Effects of dexamethasone on local infiltration analgesia in total knee arthroplasty: a randomized controlled trial.

Knee Surg Sports Traumatol Arthrosc 22:1638-43. 2014

68) Tamura T, Yatabe T, Kitagawa H, Yamashita K, Hanazaki K, Yokoyama M.

Oral carbohydrate loading with 18% carbohydrate beverage alleviates insulin resistance.

Asia Pac J Clin Nutr 22 : 48-53. 2013

69) Yatabe T, Tamura T, Kitagawa H, Namikawa T, Yamashita K, Hanazaki K, Yokoyama M.

Preoperative oral rehydration therapy with 2.5 % carbohydrate beverage alleviates insulin action in volunteers.

J Artif Organs. 16 : 483-8. 2013

70) Kawano T, Taniwaki M, Ogata K, Sakamoto M, Yokoyama M.

Improvement of teamwork and safety climate following implementation of the WHO surgical safety checklist at a university hospital in Japan.

J Anesth. 28:467-70. 2014

71) Kawano T, Morikawa A, Imori S, Waki S, Tamura T, Yamanaka D, Yamazaki F, Yokoyama M.

Preventive effects of multisensory rehabilitation on development of cognitive dysfunction following systemic inflammation in aged rats.

J Anesth. 28 :780-4. 2014

72) Okabayashi T, Shima Y, Sumiyoshi T, Kozuki A, Tokumaru T, Iiyama T, Sugimoto T, Kobayashi M, Yokoyama M, Hanazaki K.

Intensive versus intermediate glucose control in surgical intensive care unit patients.

Diabetes Care. 37:1516-24. 2014

73) Kawano T, Takahashi T, Iwata H, Morikawa A, Imori S, Waki S, Tamura T, Yamazaki F, Eguchi S, Kumagai N, Yokoyama M.

Effects of ketoprofen for prevention of postoperative cognitive dysfunction in aged rats.

J Anesth. 28 :932-6. 2014

74) Kawano T, Takahashi T, Kitaoka N, Yokoyama M.

Prolonged post-dural puncture headache in a patient during treatment with selective serotonin

reuptake inhibitor: a case report and animal experiment.

J Anesth 28 :937-9. 2014

- 75) Izumi M, Ikeuchi M, Aso K, Sugimura N, Kamimoto Y, Mitani T, Ueta T, Sato T, Yokoyama M, Sugiura T, Tani T.  
Less deep vein thrombosis due to transcutaneous fibular nerve stimulation in total knee arthroplasty: a randomized controlled trial.  
Knee Surg Sports Traumatol Arthrosc. 2014
- 76) Sugimura N, Ikeuchi M, Izumi M, Kawano T, Aso K, Kato T, Ushida T, Yokoyama M, Tani T.  
Repeated intra-articular injections of acidic saline produce long-lasting joint pain and widespread hyperalgesia.  
Eur J Pain. 19: 629-38. 2015
- 77) Yatabe T, Yamashita K, Yokoyama M.  
Influence of desflurane on postoperative oral intake compared with propofol.  
Asia Pac J Clin Nutr 23:408-12. 2014
- 78) Tamura T, Yatabe T, Yokoyama M, Nishimura M.  
Current status of studies about optimal composition of amino acid and protein for ICU patients: systematic review.  
Anaesth Intensive Care 42:806-7. 2014
- 79) Takahashi T, Kawano T, Eguchi S, Chi H, Iwata H, Yokoyama M.  
Effects of dexmedetomidine on insulin secretion from rat pancreatic  $\beta$  cells.  
J Anesth. 2014
- 80) Yatabe T, Kitagawa H, Yamashita K, Hanazaki K, Yokoyama M.  
Energy expenditure measured using indirect calorimeter after minimally invasive esophagectomy in ventilated postoperative patients.  
Asia Pac J Clin Nutr 23:555-9. 2014
- 81) Yatabe T, Yamashita K, Yokoyama M. Drug fever caused by propofol in the intensive care unit.  
J Anesth. 2015 Mar 24.
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## **International Presentation:**

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- 2) Yokoyama M, Benson KT, Goto H, Unruh GK, Arakawa K:  
Effect of flumazenil on lidocaine-induced convulsion in rats.  
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- 3) Yokoyama M, Benson KT, Goto H, Unruh GK, Arakawa K:  
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1991 Annual Meeting: American Society of Anesthesiologists, San Francisco, October, 1991
- 4) Yokoyama M, Kinjo M, Itano Y, Ohta Y, Hirakawa M:  
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1994 Annual Meeting: American Society of Anesthesiologists, San Francisco, October, 1994
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Mechanisms of reduced convulsant dose of intravenous lidocaine by vasoconstrictive agents in rat.  
69th Congress: International Anesthesia Research Society, Honolulu, March, 1995
- 6) Yokoyama M, Mizobuchi S, Nakatuka H, Kinjo M, Ohta Y, Hirakawa H:  
Plasma concentrations of lidocaine after stellate ganglion block ; compared with other nerve blocks.  
1996 Annual Meeting: American Society of Anesthesiologists, New Orleans, October, 1996
- 7) Yokoyama M, Itano Y, Ohta Y, Nakatsuka H, Hirakawa M:  
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Effects of total spinal anesthesia on plasma levels of catecholamines, stress hormones, distribution of lymphocyte subsets, and natural killer cell activity.  
2001 Annual Meeting: American Society of Anesthesiologists, New Orleans, October, 2001
- 11) Sun X, Mizobuchi S, Hanazaki M, Takahashi T, Yamashita M, Ohmori E, Nakatsuka H, Yokoyama M, Morita M, Akagi R:  
The formalin test: Time course and locational changes of c-fos mRNA and FOS protein expression.  
48th Congress: Japan Section International College of Surgeons, Okayama, June, 2002
- 12) Yokoyama M:  
Special lecture : Management of postoperative pain.  
International Scientific-Practical Conference: Khabarovsk, June, 2002
- 13) Yokoyama M:  
Special lecture : Plasma concentration and toxicity of local anesthetics.

International Scientific-Practical Conference: Khabarovsk, June, 2002

14) Oku S, Ohashi I, Yokoyama M, Katayama H, Morita K:

Bacterial contamination in circulating water of Hotline blood warming system.

2002 Annual Meeting: American Society of Anesthesiologists, Orlando, October, 2002

15) Oku S, Kurasako T, Yokoyama M, Katayama H, Morita K:

Plasma concentration of lidocaine during bronchoscopy in critically ill patients.

2002 Annual Meeting: American Society of Anesthesiologists, Orlando, October, 2002

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Effects of electroacupuncture of pain-relief and the distribution of lymphocyte subsets in patients with chronic low back pain.

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2003 Annual Meeting: American Society of Anesthesiologists, San Francisco, October, 2003

18) Yokoyama M, Hanazaki M, Sato K, Nakatsuka H, Morita K:

Comparison of the spread of contrast medium in epidural space and the analgesic area using local anesthetics.

2003 Annual Meeting: American Society of Anesthesiologists, San Francisco, October, 2003

19) Yokoyama M, Sun X, Mizobuchi S, Takahashi T, Morita K:

Effects of pretreatment with lidocaine or bupivacaine on expression of c-Fos protein in the spinal cord caused by plantar incision in the rat.

2003 Annual Meeting: American Society of Anesthesiologists, San Francisco, October, 2003

20) Mizobuchi S, Takahashi T, Yokoyama M, Nakatsuka H, Morita K:

The formalin test: Time course and lidocaine changes of c-fos mRNA and FOS protein expression.

2003 Annual Meeting: American Society of Anesthesiologists, San Francisco, October, 2003

21) Ishikawa S, Yokoyama M, Takahara H, Hashimoto H, Morita K:

The spread of epidural blood patch in patients with intracranial hypotension.

2004 Annual Meeting: American Society of Anesthesiologists, Las Vegas, October, 2004

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The effects of continuous epidural analgesia on pain after uterine artery embolization.

2004 Annual Meeting: American Society of Anesthesiologists, Las Vegas, October, 2004

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The effects of continuous epidural anesthesia and analgesia on immune response in patients undergoing radical esophagectomy.

2004 Annual Meeting: American Society of Anesthesiologists, Las Vegas, October, 2004

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Effects of selective Rho-associated coiled-coil forming protein kinase (ROCK) inhibitors on the force produced by muscarinic receptor.

2004 Annual Meeting: American Society of Anesthesiologists, Las Vegas, October, 2004

25) Morimatsu H, Takahashi T, Yokoyama M, Katayama H, Morita K:

Increased heme catabolism in critical ill patients: correlation among exhaled carbon monoxide (CO), arterial carboxy-hemoglobin.



- 2004 Annual Meeting: American Society of Anesthesiologists, Las Vegas, October, 2004
- 26)Maeshima K, Takahashi T, Uehara K, Yokoyama M, Morita K:  
Heme arginate treatment ameliorates acute lung injury induced by hemorrhage shock in the rat.  
2004 Annual Meeting: American Society of Anesthesiologists, Las Vegas, October, 2004
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Effects of neuropathic pain on formalin test in the rat: Expression of c-Fos protein in the spinal cord and behavior.  
8th Congress: America-Japan Anesthesia Congress: Honolulu, March, 2005
- 28)Hirayama C, Kusudo K, Utsumi Y, Kawahara H, Suzuki T, Komatsu T, Yokoyama M:  
Safety assessment of general–spinal anesthesia with intrathecal morphine for elective surgery.  
8th Congress: America-Japan Anesthesia Congress: Honolulu, March, 2005
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Effects of neuropathic pain on formalin test in the rat: Expression of c-Fos protein in the spinal cord and behavior.  
79th Congress: International Anesthesia Research Society, Honolulu, March, 2005
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American Society of Anesthesiologists : Atlanta, USA 2005, 10, 22-26
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American Society of Anesthesiologists : Atlanta, USA 2005, 10, 22-26
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Expression of brain-derived neurotrophic factor mRNA splice-variants induced by inflammation in the rat dorsal root ganglion.

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- 38) Kaku R, Yokoyama M, Mizobuchi S, Itano Y, Morita K:  
Spinal mechanisms of change in response to formalin test in L5 spinal ligation model.  
American Society of Anesthesiologists : Atlanta, USA 2005, 10, 22-26
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American Society of Anesthesiologists: Atlanta, USA 2005, 10, 22-26
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American Society of Anesthesiologists : Atlanta, USA 2005, 10, 22-26
- 42) Ishikawa S, Yokoyama M, Moriyama E, Hashimoto H, Morita K:  
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International Anesthesia Research Society 80th Congress : San Francisco, USA 2006, 3, 24-28
- 43) Hanazaki M, Yokoyama M, Morita K, Kohjitani A:  
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American Society of Anesthesiologists: Chicago, USA 2006, 10, 14-18
- 49) Kaku R, Yokoyama M, Ichikawa S, Itano Y, Morita Y:  
Altered response to formalin by L5 spinal nerve ligation in rats: a behavioral and molecular study.  
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- 50) Hanazaki M, Yokoyama M, Morita K, Kohjitani A, Sakai H, Chiba Y, Misawa M:  
Effects of Rho-kinase inhibitors on anesthetics-induced relaxation of rat bronchial smooth

Muscle.

International Anesthesia Research Society 81st Congress, Orlando, 2007

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Factors of failure in epidural blood patch for patients with CSF leak.

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American Society of Anesthesiologists Annual Meeting, San Francisco, 2007

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Plasma lidocaine concentration under epidural infusion during hepatectomy with the Pringle maneuver.

American Society of Anesthesiologists Annual Meeting, San Francisco, 2007

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The validation of scoring system for non-overt disseminated intravascular coagulation.

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Sinus rhythm conversion from atrial fibrillation in patients after esophagectomy by beta-blocker.

American Society of Anesthesiologists Annual Meeting, San Francisco, 2007

57) Matsuoka Y, Yokoyama M, Kobayashi H, Itano Y, Morita K.

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American Society of Anesthesiologists Annual Meeting, San Francisco, 2007

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American Society of Anesthesiologists Annual Meeting, San Francisco, 2007

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12th World Congress on Pain: Glasgow, 2008

60) Yokoyama M, Omori M, Matsuoka K, Itano Y.

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12th World Congress on Pain: Glasgow, 2008

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Incidence of traumatic cerebrospinal fluid leak following whiplash associated disorders.

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Euroanaesthesia 2010: Helsinki 2010.6.12-15
- 69) T. Yatabe, R. Yamazaki, K. Yamashita, K. Hanazaki, M. Yokoyama.  
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- 70) Yatabe T, Fukunaga K, Hirohashi M, Tamura T, Hamaguchi M, Yokoyama M.  
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- 71) Yatabe T, Fukunaga K, Tateiwa H, Tamura T, Yamashita K, Yokoyama M.  
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Euroanaesthesia 2011: Amsterdam 2011.6.11-14
- 72) K Hanazaki, T Yatabe, M Munekage, S Ichikawa, H Kitagawa, K Yamashita,  
M Yokoyama, T Okabayashi.  
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International Clinical Medicine Forum 2011: Montreal Canada 2011.6.1-2
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