

Curriculum Vitae

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Education:

1993- 1995	Kyoto University Premedical Program
1995- 1999	Kyoto University School of Medicine Kyoto, Japan
1999-2003	Surgical Residency (General/Thoracic Surgery) Kyoto University School of Medicine Kyoto, Japan Supervisor: Dr. Hiromi Wada
2003-2005	Master of Science Program Institute of Medical Science, University of Toronto Supervisor: Dr. Shaf Keshavjee (Transferred to PhD program, September 2005)
2005-2008	PhD Program Institute of Medical Science, University of Toronto Supervisor: Dr. Shaf Keshavjee

Post-graduate clinical training and employment:

SATO CV2

- 1999-2000 Resident, Department of Thoracic Surgery
Kyoto University Hospital, Japan
- 2000-2001 Resident, Department of Surgery, Thoracic Surgery,
Emergency medicine
Shimane Prefectural Central Hospital, Japan
- 2001-2003 Thoracic Surgery, Matsue Red Cross Hospital, Japan
- 2008-2011 Clinical Fellow, Division of General Thoracic Surgery
and Lung transplantation, Toronto General Hospital,
University of Toronto
- 2011-2015 Assistant professor, Department of Thoracic Surgery,
Kyoto University, Kyoto, Japan
- Affiliate scientist, Toronto General Research Institute,
University of Toronto
- 2015- Lecturer, Department of Thoracic Surgery, the
University of Tokyo, Tokyo, Japan
- 2021- Associate Professor, Organ Transplantation Center, the
University of Tokyo, Tokyo, Japan

A. Peer-reviewed publications

1. Pataer A, Nishimura M, Kamoto T, Ichioka K, **Sato M**, Hiai H: Genetic resistance to urethan-induced pulmonary adenomas in SMXA recombinant inbred mouse strains. *Cancer Res* 57(14):2904-2908,1997.
2. **Sato M**, Bando T, Imanishi N, Shoji T, Li M, Tanaka F, Hirata T, Fukuse T, Oku J, Hasegawa S, Terada Y, Ike O, Wada H: A case of infantile polymyositis accompanied with spontaneous pneumothorax. *J Pneumothorax*, 2(1): 208-209, 1999.
3. **Sato M**, Takahashi A, Namba T, Fukuda K: Intrathoracic water irrigation caused hypotension, ST segment change, and arrhythmia. *J Clin Anesth* 24(1):46-48,2000.
4. **Sato M**, Enoki T, Akiyama T, Bando T, Fukuda K: Postoperative airway compression associated with scoliosis and thoracic deformity. *J Clin Anesth* 24(3): 587-588, 2000.
5. **Sato M**, Ike O, Imanishi N, et al.: A case of mycobacterium xenopi infection diagnosed by DNA-DNA hybridization of surgically resected specimen. *Jpn J of Chest Surg* 14(6): 703-707, 2000.
6. **Sato M**, Bando T, Hasegawa S, Kitaichi M, Wada H: Recurrent spontaneous pneumothoraces associated with juvenile polymyositis. *Chest* 118(5):1509-1511, 2000.
7. **Sato M**, Terada Y, Nakagawa T, Li M, Wada H: Successful use of argon plasma coagulation and tranilast to treat granulation tissue obstructing the airway after tracheal anastomosis. *Chest* 118(6):1829-1831,2000.
8. **Sato M**, Saeki Y, Kosaka S: A case of adult Scimitar syndrome compromised with abnormal pulmonary lobar separation. *Nihon Kyobu Rinsho* 60(3):279-283, 2001.
9. **Sato M**, Hasegawa S, Shoji T, Wada H: Tracheobronchoplasty for resection of lung cancer arising from a tracheal bronchus. *Ann Thorac Surg* 73(1):310-312,2002.
10. **Sato M**, Kosaka S, Imaoka M: Familial pneumothorax dominantly occurring in female members of a family. *Nihon Kyobu Rinsho* 61(2):158-162,2002.
11. **Sato M**, Tanaka F, Wada H: Treatment of Necrotic Infection on the Anterior Chest Wall Secondary to Mastectomy and Postoperative Radiotherapy by the Application of Omentum and Mesh Skin Grafting: Report of a case. *Surg Today* 32(3):261-263,2002.
12. **Sato M**, Kosaba S, Inada K, Horiguchi M, Kan S: Pneumoperitoneum due to increased intrathoracic pressure on compression injury: *ICU and CCU* 26(11):969-972,2002.
13. **Sato M**, Kosaka S: Minimally invasive diagnosis and treatment of traumatic rupture of the right hemidiaphragm with liver herniation: *JJTCVS* 50(12):515-517,2002.
14. **Sato M**, Kosaba S: Concurrent type A aortic dissection and lung abscess mimicking aortobronchopulmonary fistula *J Cardiovasc Surg* 45:511-514,2004.
15. **Sato M**, Takahashi T, Kosaka S: Life threatening chronic expanding hematoma of thorax. *J*

- Cardiovasc Surg* 45:523-524,2004.
16. **Sato M**, Gutierrez C, Liu M, Waddell TK, Keshavjee S: Donor-recipient gender mismatch in lung transplantation: Impact on obliterative bronchiolitis and survival. *J Heart Lung Transplant* 2005; 24(11):2000-1.
 17. **Sato M**, Gutierrez C, Liu M, Waddell TK, Keshavjee S: The effect of gender combinations on outcome in human lung transplantation: the International Society of Heart and Lung Transplantation Registry experience. *J Heart Lung Transplant*. 2006 Jun;25(6):634-7.
 18. **Sato M**, Keshavjee S. Gene Therapy for Lung Transplantation. *Curr Gene Therap*. 2006 Aug; 6(4):439-58.
 19. **Sato M**, Keshavjee S, Liu M. Gene Therapy in Lung Transplantation. *eJBio*. 2006Aug; 2(3):34-8.
 20. **Sato M**, Liu M, Anraku M, Ogura T, D’Cruz G, Alman BA, Waddell TK, Kim E, Zhang L, Keshavjee S. Allograft airway fibrosis in the pulmonary milieu: a disorder of tissue remodeling. *Am J Transplant* 2008;8:517-528.
 21. **Sato M**, Keshavjee S. Bronchiolitis Obliterans Syndrome: Alloimmune-Dependent and –Independent injury with Aberrant Tissue Remodeling. *Semin Thorac Cardiovasc Surg* 2008;20:273-182.
 22. Anraku M, Cameron MJ, Waddell TK, Liu M, Arenovich T, **Sato M**, Cypel M, Pierre AF, de Perrot M, Kelvin DJ, Keshavjee S. Impact of Human Donor Lung Gene Expression Profiles on Survival after Lung Transplantation: A Case-Control Study. *Am J Transplant*. 2008;8:2140-8.
 23. Cypel M, Yeung JC, Hirayama S, Rubacha M, Fischer S, Anraku M, **Sato M**, Harwood S, Pierre A, Waddell TK, de Perrot M, Liu M, Keshavjee S. Technique for prolonged normothermic ex vivo lung perfusion. *J Heart Lung Transplant*. 2008;27:1319-25.
 24. **Sato M**, Hirayama S, Lara-Guerra H, Anraku M, Waddell TK, Liu M, Keshavjee S. MMP-dependent migration of extrapulmonary myofibroblast progenitors contributing to posttransplant airway fibrosis in the lung. *Am J Transplant*. 2009;9:1027-36.
 25. **Sato M**, Hirayama S, Hwang DM, Lara-Guerra H, Wagnetz D, Waddell TK, Liu M, Keshavjee S. The role of intrapulmonary de novo lymphoid tissue in obliterative bronchiolitis after lung transplantation. *J Immunol*. 2009;182:7307-16.
 26. Cypel M, **Sato M**, Yildirim E, Karolak W, Chen F, Yeung J, Boasquevisque C, Leist V, Singer LG, Yasufuku K, Deperrot M, Waddell TK, Keshavjee S, Pierre A. Initial experience with lung donation after cardiocirculatory death in Canada. *J Heart Lung Transplant*. 2009;28:753-8.
 27. **Sato M**, Keshavjee S, Liu M. Translational Research: Animal Models of Obliterative Bronchiolitis after Lung Transplantation. *Am J Transplant*. 2009;9:1981-7.
 28. Hirayama S, Cypel M, **Sato M**, Anraku M, Liaw PC, Liu M, Waddell TK, Keshavjee S.

- Activated protein C in ischemia-reperfusion injury after experimental lung transplantation. *J Heart Lung Transplant*. 2009;28:1180-4.
29. Cypel M, Liu M, Rubacha M, Yeung JC, Hirayama S, Anraku M, **Sato M**, Medin J, Davidson BL, de Perrot M, Waddell TK, Slutsky AS, Keshavjee S. Functional repair of human donor lungs by IL-10 gene therapy. *Sci Transl Med*. 2009;28:4ra9
 30. **Sato M**, Waddell TK. Invited commentary. *Ann Thoracic Surg*. 2010;90:411-2.
 31. Kang CH, Anraku M, Cypel M, **Sato M**, Yeung J, Gharib SA, Pierre AF, de Perrot M, Waddell TK, Mingyao L, Keshavjee S. Transcriptional signatures in donor lungs from donation after cardiac death vs after brain death: A functional pathway analysis. *J Heart Lung Transplant*. 2011; 30:289-98.
 32. ***Sato M**, Waddell TK, Wagnetz U, Roberts HC, Hwang DM, Haroon A, Wagnetz D, Chaparro C, Singer LG, Hutcheon MA, Keshavjee S. Restrictive Allograft Syndrome (RAS): a novel form of chronic lung allograft dysfunction. *J Heart Lung Transplant*. 2011;30:735-43.
 33. **Sato M**, Hwang DM, Anraku M, Wagnetz D, Hirayama S, Waddell TK, Liu M, Keshavjee S. Regression of allograft airway fibrosis: the role of MMP-dependent tissue remodeling in obliterative bronchiolitis after lung transplantation. *Am J Pathology*. 2011; 179:1287-300
 34. Hirayama S, **Sato M**, Liu M, Loisel-Meyer S, Yeung JC, Wagnetz D, Cypel M, Guan Guan Z, Medin JA, Keshavjee S. Local long-term expression of lentivirally delivered IL-10 in the lung attenuates obliteration of intrapulmonary allograft airways. *Hum Gene Ther*. 2011 Nov;22(11):1453-60
 35. **Sato M**, Hirayama S, Matsuda Y, Wagnetz D, Hwang DM, Guan Z, Liu M, Keshavjee S. Stromal activation and formation of lymphoid-like stroma in chronic lung allograft dysfunction. *Transplantation*. 2011;91:1398-405.
 36. Cypel M, Yeung JC, Liu M, Anraku M, Chen F, Karolak W, **Sato M**, Laratta J, Azad S, Madonik M, Chow CW, Chaparro C, Hutcheon M, Singer LG, Slutsky AS, Yasufuku K, de Perrot M, Pierre AF, Waddell TK, Keshavjee S. Normothermic ex vivo lung perfusion in clinical lung transplantation. *N Engl J Med*. 2011 Apr 14;364(15):1431-40.
 37. Cabrera-Benitez NE, Parotto M, Post M, Han B, Spieth PM, Cheng WE, Valladares F, Villar J, Liu M, **Sato M**, Zhang H, Slutsky AS: Mechanical stress induces lung fibrosis by epithelial-mesenchymal transition. *Crit Care Med*. 2012 Feb;40(2):510-517.
 38. Koike T, Yeung JC, Cypel M, Rubacha M, Matsuda Y, **Sato M**, Waddell TK, Liu M, Keshavjee S. Kinetics of lactate metabolism during acellular normothermic ex vivo lung perfusion. *J Heart Lung Transplant* 2011 Dec;30(12):1312-9
 39. Kosanam H, **Sato M**, Batruch I, Smith C, Keshavjee S, Liu M, Diamandis EP. Differential proteomic analysis of bronchoalveolar lavage fluid from lung transplant patients with and without chronic graft dysfunction. *Clin Biochem*. 2012 Feb;45(3):223-30.

40. **Sato M**, Hwang, DM, Matsuda-Ohmori K, Chaparro C, Waddell TK, Singer LG, Hutcheon MA, Keshavjee S. Revisiting the pathological finding of diffuse alveolar damage (DAD) after lung transplantation. *J Heart Lung Transplant*. 2012 Apr;31(4):354-63.
41. Wagnetz D, **Sato M**, Hirayama S, Matsuda Y, Juvet SC, Yeung JC, Guan Z, Zhang L, Liu M, Waddell TK, Keshavjee S. Rejection of tracheal allograft by intrapulmonary lymphoid neogenesis in the absence of secondary lymphoid organs. *Transplantation* 2012 Jun 27;93(12):1212-20.
42. Gilpin SE, Lung KC, **Sato M**, Singer LG, Keshavjee S, Waddell TK. Altered progenitor cell and cytokine profiles in bronchiolitis obliterans syndrome. *J Heart Lung Transplant*. 2012;31(2):222-8.
43. Yeung JC, Cypel M, Machuca TN, Koike T, Cook DJ, Bonato R, Chen M, **Sato M**, Waddell TK, Liu M, Slutsky AS, Keshavjee S. Physiologic assessment of the ex vivo donor lung for transplantation. *J Heart Lung Transplant*. 2012 Oct;31(10):1120-6.
44. **Sato M**, Chen F, Aoyama A, Yamada T, Ikeda M, Bando T, Date H. Virtual endobronchial ultrasound for transbronchial needle aspiration. *J Thorac Cardiovasc Surg*. 2013 Nov;146(5):1204-12.
45. Hirayama S, **Sato M** (co-first author), Loisel-Meyer S, Matsuda Y, Oishi H, Guan Z, Saito T, Yeung J, Cypel M, Hwang DM, Medin JA, Liu M, Keshavjee S. Lentivirus IL-10 gene therapy down-regulates IL-17 and attenuates mouse orthotopic lung allograft rejection. *Am J Transplant*. 2013 Jun;13(6):1586-93.
46. **Sato M**, Hwang DM, Waddell TK, Singer LG, Keshavjee S. Progression pattern of restrictive allograft syndrome after lung transplantation. *J Heart Lung Transplant*. 2013 Jan;32(1):23-30.
47. Ofek E, **Sato M**, Saito T, Wagnetz U, Roberts HC, Chaparro C, Waddell TK, Singer LG, Hutcheon MA, Keshavjee S, Hwang DM. Restrictive allograft syndrome post lung transplantation is characterized by pleuroparenchymal fibroelastosis. *Mod Pathol*. 2013 Mar;26(3):350-6.
48. **Sato M**, Ohmori-Matsuda K, Saito T, Matsuda Y, Hwang DM, Waddell TK, Singer LG, Keshavjee S. Time-dependent changes in the risk of death in pure bronchiolitis obliterans syndrome (BOS). *J Heart Lung Transplant*. 2013 May;32(5):484-91.
49. Chen F, Oga T, Sakai H, Matsumoto I, Yamada T, **Sato M**, Aoyama A, Bando T, Mishima M, Chin K, Date H. A prospective study analyzing one-year multidimensional outcomes in living lung transplant donors. *Am J Transplant*. 2013 Nov;13(11):3003-9.
50. Chen F, Chin K, **Sato M**, Aoyama A, Murase K, Azuma M, Bando T, Date H. Postoperative respiratory management in living donor lobar lung transplantation. *Clin Transplant*. 2013 Jul-Aug;27(4):E383-90.
51. Motoyama H, Chen F, Ohsumi A, Hijiya K, Okita K, Nakajima D, Sakamoto J, Yamada T,

- Sato M**, Aoyama A, Bando T, Date H. Protective effect of plasmin in marginal donor lungs in an ex vivo lung perfusion model. *J Heart Lung Transplant*. 2013 May;32(5):505-10.
52. Chen F, Kubo T, Yamada T, **Sato M**, Aoyama A, Bando T, Date H. Adaptation over a wide range of donor graft lung size discrepancies in living-donor lobar lung transplantation. *Am J Transplant*. 2013 May;13(5):1336-42.
53. Takahashi K, Chen F, Ikeda T, Doi H, Nakamura H, Yanagi S, **Sato M**, Aoyama A, Bando T, Date H. Single-lobe lung transplantation for rapidly deteriorating pulmonary venoocclusive disease. *Ann Thorac Surg*. 2013 Feb;95(2):689-91.
54. **Sato M**. Chronic lung allograft dysfunction after lung transplantation: the moving target. *Gen Thorac Cardiovasc Surg*. 2013;61(2):67-78.
55. Ohsumi A, Chen F, Yurugi K, Maekawa T, Shoji T, **Sato M**, Aoyama A, Bando T, Date H. Incidence and pattern of hemolytic anemia after minor ABO-mismatched living-donor lobar lung transplantation. *Surg Today*. 2013;43(11):1250-3.
56. Saito T, Takahashi H, Kaneda H, Binnie M, Azad S, **Sato M**, Waddell TK, Cypel M, Liu M, Keshavjee S. Impact of cytokine expression in the pre-implanted donor lung on the development of chronic lung allograft dysfunction subtypes. *Am J Transplant*. 2013;13(12):3192-201.
57. Gilpin SE, Lung K, de Couto GT, Cypel M, **Sato M**, Singer LG, Keshavjee S, Waddell TK. Bone marrow-derived progenitor cells in end-stage lung disease patients. *BMC Pulm Med*. 2013;13:48.
58. Saito T, Liu M, Binnie M, **Sato M**, Hwang D, Azad S, Machuca TN, Zamel R, Waddell TK, Cypel M, Keshavjee S. Distinct expression patterns of alveolar "alarmins" in subtypes of chronic lung allograft dysfunction. *Am J Transplant*. 2014;14(6):1425-32.
59. Chen F, Miyagawa-Hayashino A, Yurugi K, Chibana N, Yamada T, **Sato M**, Aoyama A, Takakura S, Bando T, Date H. Redo living-donor lobar lung transplantation for bronchiolitis obliterans associated with antibody-mediated rejection. *Transpl Int*. 2014;27(2):e8-12.
60. Ohsumi A, Chen F, Yamada T, **Sato M**, Aoyama A, Bando T, Date H. Effect of hypogammaglobulinemia after lung transplantation: a single-institution study. *Eur J Cardiothorac Surg*. 2014;45(3):e61-7.
61. Chen F, Nakamoto Y, Kondo T, Yamada T, **Sato M**, Aoyama A, Bando T, Date H. Gastroparesis after living-donor lobar lung transplantation: report of five cases. *Surg Today*. 2015;45(3):378-82.
62. **Sato M**, Omasa M, Chen F, Sato T, Sonobe M, Bando T, Date H. Use of Virtual Assisted Lung Mapping (VAL-MAP), a bronchoscopic multi-spot dye-marking technique using virtual images, for precise navigation of thoracoscopic sublobar lung resection. *J Thorac Cardiovasc Surg*. 2014;147(6):1813-9.

63. Sonobe M, Handa T, Tanizawa K, **Sato M**, Sato T, Chen F, Omasa M, Bando T, Date H, Mishima M. Videothoracoscopy-assisted surgical lung biopsy for interstitial lung diseases. *Gen Thorac Cardiovasc Surg*. 2014;62(6):376-82.
64. Sonobe M, Yamada T, **Sato M**, Menju T, Aoyama A, Sato T, Chen F, Omasa M, Bando T, Date H. Identification of subsets of patients with favorable prognosis after recurrence in completely resected non-small cell lung cancer. *Ann Surg Oncol*. 2014;21(8):2546-54.
65. Motoyama H, Chen F, Ohsumi A, Hijiya K, Takahashi M, Ohata K, Yamada T, **Sato M**, Aoyama A, Bando T, Date H. Quantitative evaluation of native lung hyperinflation after single lung transplantation for emphysema using three-dimensional computed tomography volumetry. *Transplant Proc*. 2014;46(3):941-3.
66. Yokoyama Y, Chen F, Minakata K, Yamada T, Aoyama A, **Sato M**, Date H. Living-donor lobar lung transplantation for treatment of idiopathic pulmonary arterial hypertension with severe pulmonary arterial dilation. *Ann Thorac Surg*. 2014;97(5):e149.
67. Ikeda M, Bando T, Yamada T, **Sato M**, Menju T, Aoyama A, Sato T, Chen F, Sonobe M, Omasa M, Date H. Clinical application of ET-Kyoto solution for lung transplantation. *Surg Today*. 2015;45(4):439-43.
68. Hamaji M, Omasa M, Chen F, Yamada T, **Sato M**, Menju T, Sato T, Aoyama A, Sonobe M, Bando T, Date H. Survival and treatments in patients with incompletely resected thymoma. *Asian Cardiovasc Thorac Ann*. 2013;22(6):712-718
69. Bhinder S, Chen H, **Sato M**, Copes R, Evans GJ, Chow CW, Singer LG. Air pollution and the development of posttransplant chronic lung allograft dysfunction. *Am J Transplant*. 2014;14(12):2749-57.
70. **Sato M**, Aoyama A, Yamada T, Menju T, Chen F, Sato T, Sonobe M, Omasa M, Date H. Thoracoscopic wedge lung resection using virtual-assisted lung mapping. *Asian Cardiovasc Thorac Ann*. 2015;23(1):46-54.
71. Motoyama H, Chen F, Hijiya K, Kondo T, Ohsumi A, Yamada T, **Sato M**, Aoyama A, Bando T, Date H. Plasmin administration during ex vivo lung perfusion ameliorates lung ischemia-reperfusion injury. *J Heart Lung Transplant*. 2014;33(10):1093-9.
72. Morimura Y, Chen F, Kinjo T, Miyagawa-Hayashino A, Kubo T, Yamada T, **Sato M**, Aoyama A, Date H. Successful single-lung transplantation for multicentric castleman disease. *Ann Thorac Surg*. 2014;98(3):e63-5.
73. **Sato M**, Okada Y, Oto T, Minami M, Shiraishi T, Nagayasu T, Yoshino I, Chida M, Okumura M, Date H, Miyoshi S, Kondo T; The Japanese Society of Lung and Heart-Lung Transplantation. Registry of the Japanese Society of Lung and Heart-Lung Transplantation: official Japanese lung transplantation report, 2014. *Gen Thorac Cardiovasc Surg*. 2014;62(10):594-601.

74. **Sato M**, Yamada T, Aoyama A, Chen F, Sonobe M, Bando T, Date H. Techniques for safe and efficient living-related donor operation in lobar lung transplantation. *Jpn J Chest Surg.* 2014;28(4):439-445.
75. Motoyama H, Chen F, Hijiya K, Kondo T, Ohata K, Takahashi M, Yamada T, **Sato M**, Aoyama A, Date H. Novel thermographic detection of regional malperfusion caused by a thrombosis during ex vivo lung perfusion. *Interact Cardiovasc Thorac Surg.* 2015 ;20(2):242-7.
76. **Sato M**, Matsuda K, Okada Y, Oto T, Minami M, Yamasaki N, Iwata T, Yoshino I, Shiraishi T, Chidai M, Nagayasu T, Okumura M, Kondo T, Date H, Miyoshi S. The effect of subclassification of interstitial pneumonia and bronchiolitis obliterans on survival of patients registered for lung transplantation from brain-dead donors in Japan. *Ann Jpn Resp Soci.* 2015; 4(3): 210-215.
77. Sonobe M, Okubo K, Teramukai S, Yanagihara K, **Sato M**, Sato T, Chen F, Sato K, Fujinaga T, Shoji T, Omasa M, Sakai H, Miyahara R, Bando T, Date H. Phase II study of adjuvant vinorelbine and cisplatin in Japanese patients with completely resected stage II and III non-small cell lung cancer. *Cancer Chemother Pharmacol.* 2014;74(6):1199-206.
78. Chen F, Matsubara K, Miyagawa-Hayashino A, Tada K, Handa T, Yamada T, **Sato M**, Aoyama A, Date H. Lung transplantation for pleuroparenchymal fibroelastosis after chemotherapy. *Ann Thorac Surg.* 2014;98(5):e115-7.
79. Miyamoto E, Chen F, Aoyama A, **Sato M**, Yamada T, Date H. Unilateral chronic lung allograft dysfunction is a characteristic of bilateral living-donor lobar lung transplantation *Eur J Cardiothorac Surg.* 2015;48(3):463-9.
80. **Sato M**, Yamada T, Menju T, Aoyama A, Sato T, Chen F, Sonobe M, Omasa M, Date H. Virtual-assisted lung mapping: outcome of 100 consecutive cases in a single institute. *Eur J Cardiothorac Surg.* 2015;47(4):e131-9.
81. Ando T, Omasa M, Kondo T, Yamada T, **Sato M**, Menju T, Aoyama A, Sato T, Chen F, Sonobe M, Date H. Predictive factors of myasthenic crisis after extended thymectomy for patients with myasthenia gravis. *Eur J Cardiothorac Surg.* 2015;48(5):705-9
82. Gochi F, Omasa M, Yamada T, **Sato M**, Menju T, Aoyama A, Sato T, Chen F, Sonobe M, Date H. Factors affecting the preoperative diagnosis of anterior mediastinal cysts. *Gen Thorac Cardiovasc Surg.* 2015;63(6):349-53.
83. Miyata R, Kurosawa M, **Sato M**, Kono T, Takubo Y, Okai S, Yamada K, Shinkura R, Date H, Matsuda F. A novel germline mutation in a patient with nevoid basal cell carcinoma syndrome showing cystic lesion in the lung. *Hum Genome Var.* 2015;11;2:15014.
84. Aoyama A, Chen F, Minakata K, Yamazaki K, Yamada T, **Sato M**, Date H. Sparring Native Upper Lobes in Living-Donor Lobar Lung Transplantation: Five Cases From a Single Center.

- Am J Transplant. 2015;15(12):3202-7.
85. Miyamoto E, **Sato M**, Yamada T, Date H. Successful bilateral lung transplantation from a deceased donor with a ruptured main bronchus. *Interact Cardiovasc Thorac Surg*. 2015 ;21(3):396-8.
 86. Chen F, Yamada T, **Sato M**, Aoyama A, Takahagi A, Menju T, Sato T, Sonobe M, Omasa M, Date H. Postoperative pulmonary function and complications in living-donor lobectomy. *J Heart Lung Transplant*. 2015;34(8):1089-94
 87. Chen F, Oga T, Yamada T, **Sato M**, Aoyama A, Chin K, Date H. Lung allocation score and health-related quality of life in Japanese candidates for lung transplantation. *Interact Cardiovasc Thorac Surg*. 2015;21(1):28-33.
 88. Date H, **Sato M**, Aoyama A, Yamada T, Mizota T, Kinoshita H, Handa T, Tanizawa K, Chin K, Minakata K, Chen F. Living-donor lobar lung transplantation provides similar survival to cadaveric lung transplantation even for very ill patients. *Eur J Cardiothorac Surg*. 2015;47(6):967-7
 89. Miyamoto E, Chen F, Aoyama A, **Sato M**, Yamada T, Date H. Unilateral chronic lung allograft dysfunction is a characteristic of bilateral living-donor lobar lung transplantation. *Eur J Cardiothorac Surg*. 2015;48(3):463-9.
 90. Chen F, Miyamoto E, Takemoto M, Minakata K, Yamada T, **Sato M**, Aoyama A, Date H. Right and left inverted lobar lung transplantation. *Am J Transplant*. 2015;15(6):1716-21.
 91. Yokoyama Y, Sonobe M, Yamada T, **Sato M**, Menju T, Aoyama A, Sato T, Chen F, Omasa M, Date H. Gefitinib treatment in patients with postoperative recurrent non-small-cell lung cancer harboring epidermal growth factor receptor gene mutations. *Int J Clin Oncol*. 2015 Dec;20(6):1122-9.
 92. Kondo T, Chen F, Ohsumi A, Hijiya K, Motoyama H, Sowa T, Ohata K, Takahashi M, Yamada T, **Sato M**, Aoyama A, Date H. β 2-Adrenoreceptor Agonist Inhalation During Ex Vivo Lung Perfusion Attenuates Lung Injury. *Ann Thorac Surg*. 2015;100(2):480-6.
 93. Verleden SE, Todd JL, **Sato M**, Palmer SM, Martinu T, Pavlisko EN, Vos R, Neyrinck A, Van Raemdonck D, Saito T, Oishi H, Keshavjee S, Greer M, Warnecke G, Gottlieb J, Haverich A. Impact of CLAD Phenotype on Survival After Lung Retransplantation: A Multicenter Study. *Am J Transplant*. 2015;15(8):2223-30.
 94. Fujimoto R, **Sato M**, Miyata R, Minakata K, Omasa M, Kubo T, Date H. Successful resection of recurrent mediastinal liposarcoma using preoperative evaluation of organ invasion by four-dimensional computed tomography. *Gen Thorac Cardiovasc Surg*. 2016;64(8):488-91.
 95. Mizota T, Miyao M, Yamada T, **Sato M**, Aoyama A, Chen F, Date H, Fukuda K. Graft dysfunction immediately after reperfusion predicts short-term outcomes in living-donor lobar lung transplantation but not in cadaveric lung transplantation. *Interact Cardiovasc Thorac*

- Surg. 2016;22(3):314-20.
96. Yamanashi K, **Sato M**, Marumo S, Fukui T, Sumitomo R, Shoji T, Otake Y, Katayama T, Huang CL. Emphysematous lungs do not affect visibility of virtual-assisted lung mapping. *Asian Cardiovasc Thorac Ann.* 2016;24(2):152-7.
 97. Saito T, Horie M, **Sato M**, Nakajima D, Shoushtarizadeh H, Binnie M, Azad S, Hwang DM, Machuca TN, Waddell TK, Singer LG, Cypel M, Liu M, Paul NS, Keshavjee S. Low-dose computed tomography volumetry for subtyping chronic lung allograft dysfunction. *J Heart Lung Transplant.* 2016;35(1):59-66.
 98. Oishi H, Martinu T, **Sato M**, Matsuda Y, Hirayama S, Juvet SC, Guan Z, Saito T, Cypel M, Hwang DM, Keller TL, Whitman MR, Liu M, Keshavjee S. Halofuginone treatment reduces interleukin-17A and ameliorates features of chronic lung allograft dysfunction in a mouse orthotopic lung transplant model. *J Heart Lung Transplant.* 2016;35(4):518-27.
 99. Karasaki T, Nagayama K, Kawashima M, Hiyama N, Murayama T, Kuwano H, Nitadori J, Anraku M, **Sato M**, Miyai M, Hosoi A, Matsushita H, Kikugawa S, Matoba R, Ohara O, Kakimi K, Nakajima J. Identification of Individual Cancer-Specific Somatic Mutations for Neoantigen-Based Immunotherapy of Lung Cancer. *J Thorac Oncol.* 2016;11(3):324-33.
 100. Tajima S, Yanagiya M, **Sato M**, Nakajima J, Fukayama M. Metaplastic thymoma with myasthenia gravis presumably caused by an accumulation of intratumoral immature T cells: a case report. *Int J Clin Exp Pathol.* 2015;8(11):15375-80.
 101. Karasaki T, Nagayama K, Kuwano H, Nitadori JI, **Sato M**, Anraku M, Hosoi A, Matsushita H, Takazawa M, Ohara O, Nakajima J, Kakimi K. Prediction and prioritization of neoantigens: integration of RNA sequencing data with whole-exome sequencing. *Cancer Sci.* 2017;108(2):170-177.
 102. Yanagiya M, **Sato M**, Kawashima S, Kuwano H, Nagayama K, Nitadori J, Anraku M, Nakajima J, Flat chest of pleuroparenchymal fibroelastosis reversed by lung transplantation. *Ann Thorac Surg* 2016;102(4):e347-9.
 103. **Sato M**. Virtual assisted lung mapping: navigational thoracoscopic lung resection. *Cancer Res Front.* 2016;2(1):85-104.
 104. **Sato M**, Murayama T, Nakajima J. Techniques of stapler-based navigational thoracoscopic segmentectomy using virtual assisted lung mapping (VAL-MAP). *J Thorac Dis.* 2016;8(Suppl 9):S716-S730.
 105. **Sato M**, Kuwata T, Yamanashi K, Kitamura A, Misawa K, Imashimizu K, Kobayashi M, Ikeda M, Koike T, Kosaka S, Fukai R, Sekine Y, Isowa N, Hirayama S, Sakai H, Watanabe F, Nagayama K, Aoyama A, Date H, Nakajima J. Safety and reproducibility of virtual assisted lung mapping: a multicentre study in Japan. *Eur J Cardiothorac Surg.* 2017;51(5):861-868.
 106. Inui M, Nitadori JI, Tajima S, Yoshioka T, Hiyama N, Watadani T, Shinozaki-Ushiku A,

- Nagayama K, Anraku M, **Sato M**, Fukayama M, Nakajima J. Mediastinal seminoma associated with multilocular thymic cyst. *Surg Case Rep.* 2017;3(1):7.
107. **Sato M**, Nagayama K, Kuwano H, Nitadori JI, Anraku M, Nakajima J. Role of post-mapping computed tomography in virtual-assisted lung mapping. *Asian Cardiovasc Thorac Ann.* 2017; 25(2):123-130.
108. Takahashi T, Kawashima M, Kuwano H, Nagayama K, Nitadori J, Anraku M, **Sato M**, Murakawa T, Nakajima J. A deep azygoesophageal recess may increase the risk of secondary spontaneous pneumothorax. *Surg Today.* 2017;47(9):1147-1152.
109. Karasaki T, Nagayama K, Kuwano H, Nitadori JI, **Sato M**, Anraku M, Hosoi A, Matsushita H, Morishita Y, Kashiwabara K, Takazawa M, Ohara O, Kakimi K, Nakajima J. An Immunogram for the Cancer-Immunity Cycle: Towards Personalized Immunotherapy of Lung Cancer. *J Thorac Oncol.* 2017 May;12(5):791-803.
110. Terada Y, **Sato M**, Abe H, Kuwano H, Nagayama K, Nitadori JI, Anraku M, Nakajima J. Squamous cell carcinoma of the lung showing a ground glass nodule on high-resolution computed tomography associated with pneumoconiosis: a case report. *Surg Case Rep.* 2017;3(1):107.
111. Yamada T, Chen-Yoshikawa TF, Oh S, Ito-Taniguchi R, Gochi F, **Sato M**, Aoyama A, Date H. Living-Donor Lung Transplantation After Bone Marrow Transplantation for Chediak-Higashi Syndrome. *Ann Thorac Surg.* 2017; 103(3): e281-e283.
112. Hayakawa N, Nakamoto Y, Chen-Yoshikawa TF, Kido A, Ishimori T, Fujimoto K, Yamada T, **Sato M**, Aoyama A, Date H, Togashi K. Gastric motility and emptying assessment by magnetic resonance imaging after lung transplantation: correlation with gastric emptying scintigraphy. *Abdom Radiol (NY).* 2017; 42(3): 818-824.
113. Miyamoto E, Motoyama H, **Sato M***, Aoyama A, Menju T, Shikuma K, Sowa T, Yoshizawa A, Saito M, Takahagi A, Tanaka S, Takahashi M, Ohata K, Kondo T, Hijiya K, Chen-Yoshikawa TF, Date H. Association of Local Intrapulmonary Production of Antibodies Specific to Donor Major Histocompatibility Complex Class I With the Progression of Chronic Rejection of Lung Allografts. *Transplantation.* 2017; 101(5): e156-e165.
114. Yokoyama Y, **Sato M**, Omasa M, Date H. Three-dimensional imaging for thoracoscopic resection of complex lung anomalies. *Surg Case Rep.* 2017 Sep 25;3(1):106.
115. Yanagiya M, **Sato M***, Kuwano H, Nagayama K, Nakajima J. Management of lung nodules newly found by virtual-assisted lung mapping: a case report. *Surg Case Rep.* 2017,3(1),49.
116. Nakao K, **Sato M***, Nitadori JI, Nakajima J. Bilateral segmentectomies using

- virtual-assisted lung mapping (VAL-MAP) for metastatic lung tumors. *Surg Case Rep.* 2017, 3(1),104.
117. **Sato M**,* Murayama T, Nakajima J. Thoracoscopic stapler-based “bidirectional” segmentectomy for posterior basal segment (S10) and its variants. *J Thorac Dis.* 2018,10(Suppl 10),S1179-86.
118. Wang L, Anraku M, **Sato M**, Nitadori JI, Nagayama K, Kitano K, Nakajima J. Impact of the 8th Edition of the UICC-TNM Classification on Clinical Stage 0-IA Lung Adenocarcinoma: Does the New Classification Predict Postoperative Prognosis More Precisely than the Previous One? *Ann Thorac Cardiovasc Surg.* 2018 Oct 19;24(5):223-229.
119. Oishi H, Juvet SC, Martinu T, **Sato M**, Medin JA, Liu M, Keshavjee S. A novel combined ex vivo and in vivo lentiviral interleukin-10 gene delivery strategy at the time of transplantation decreases chronic lung allograft rejection in mice. *J Thorac Cardiovasc Surg.* 2018; 156(3): 1305-1315.
120. **Sato M***, Kuwata T, Kitamura A, Misawa K, Imashimizu K, Yamanashi K, Ikeda M, Koike T, Kobayashi M, Kosaka S, Fukai R, Isowa N, Nagayama K, Aoyama A, Date H, Nakajima J. The role of virtual-assisted lung mapping in the resection of ground glass nodules. *J Thorac Dis.* 2018;10(5):2638-2647.
121. Karasaki T, Qiang G, Anraku M, Sun Y, Shinozaki-Ushiku A, Sato E, Kashiwabara K, Nagayama K, Nitadori JI, **Sato M**, Murakawa T, Kakimi K, Fukayama M, Nakajima J. High CCR4 expression in the tumor microenvironment is a poor prognostic indicator in lung adenocarcinoma. *J Thorac Dis.* 2018;10(8):4741-4750.
122. Yanagiya M, Nitadori JI, Nagayama K, Anraku M, **Sato M**, Nakajima J. Prognostic significance of the preoperative neutrophil-to-lymphocyte ratio for complete resection of thymoma. *Surg Today.* 2018;48(4):422-430.
123. **Sato M***, Kobayashi M, Kojima F, Tanaka F, Yanagiya M, Kosaka S, Fukai R, Nakajima J. Effect of virtual-assisted lung mapping (VAL-MAP) in acquisition of surgical margins in sublobar lung resection. *J Thorac Cardiovasc Surg.* 2018;156(4):1691-1701.
124. Kawashima M, **Sato M***, Murakawa T, Anraku M, Konoeda C, Hosoi A, Kakimi K, Nakajima J. Role of Toll-like Receptor 4 Expressed by Fibroblasts in Allograft Fibrosis in Mouse Orthotopic Tracheal Transplantation. *Transplant Proc.* 2018;50(10):3863-3872.
125. **Sato M**. Should a therapeutic strategy be based on how the disease was diagnosed? (Editorial) *J Thorac Dis* 2018;10(3):1245-1247.

126. **Sato M***, Murayama T, Nakajima J. The AMAGAMI technique: an easy technique to achieve precise stapling in thoracoscopic segmentectomy. *J Thorac Dis* 2019; 11(1): 276-279.
127. Kitano K, **Sato M***. Latest update about virtual-assisted lung mapping in thoracic surgery. *Ann Transl Med.* 2019; 7(2): 36-40.
128. **Sato M.** All things are created twice: the importance of planning and reproduction in sublobar lung resection (Editorial). *J Thorac Dis.* 2018 [in press].
129. Sun C, Anraku M, Karasaki T, Kuwano H, Nagayama K, Nitadori JI, **Sato M**, Nakajima J. Low truncal muscle area on chest computed tomography: a poor prognostic factor for the cure of early-stage non-small-cell lung cancer. *Eur J Cardiothorac Surg.* 2019 ;55(3):414-420.
130. Yanagiya M, Matsumoto J, Kawahara T, Yamaguchi H, Nagayama K, Anraku M, **Sato M**, Nakajima J. Influence of smoking and histologic subtype on developing extrathymic malignancy in thymoma patients. *Ann Thorac Surg.* 2019; 11(1): 162-170.
131. Yanagiya M, Matsumoto J, Yamaguchi H, Nakajima J, **Sato M***. Effect of patient position during virtual-assisted lung mapping. *J Thorac Dis* 2019; 11(1): 162-170.
132. Yang SM, Lin CK, Chen LW, Chen YC, Huang HC, Ko HJ, Chen CM, **Sato M.** Combined virtual-assisted lung mapping (VAL-MAP) with CT-guided localization in thoracoscopic pulmonary segmentectomy. *Asian J Surg.* 2019; 42(3); 488-494.
133. Nakao K, Anraku M, Karasaki T, Kitano K, Nagayama K, **Sato M**, Nakajima J. Impact of Previous Malignancy on Outcome in Surgically Resected Non-Small Cell Lung Cancer. *Ann Thorac Surg* 2019; 108 (6): 1671-1677.
134. **Sato M***, Nagayama K, Kobayashi M, Nakajima J. Virtual-Assisted Lung Mapping 2.0: Preoperative Bronchoscopic Three-Dimensional Lung Mapping. *Ann Thorac Surg.* 2019; 108(1): 269-273.
135. **Sato M***, Shinohara Y, Yanagiya M, Karasaki T, Kitano K, Nagayama K, Nakajima J. Use of electromagnetic navigation bronchoscopy in virtual-assisted lung mapping: the effect of on-site adjustment. *Gen Thorac Cardiovasc Surg.* 2019; 67(12): 1062-1069.
136. Shiiya H, Tian D, **Sato M***, Karasaki T, Kitano K, Nagayama K, Anraku M, Kaga K, Matsui Y, Nakajima J. Differences Between Patients With Idiopathic Pleuroparenchymal Fibroelastosis and Those With Other Types of Idiopathic Interstitial Pneumonia in Candidates for Lung Transplants. *Transplant Proc.* 2019; 51(6): 2014-2021.

137. Terada Y, Takahashi T, Morita S, Kashiwabara K, Nagayama K, Nitadori JI, Anraku M, **Sato M**, Shinozaki-Ushiku A, Nakajima J. Spread through air spaces is an independent predictor of recurrence in stage III (N2) lung adenocarcinoma. *Interact Cardiovasc Thorac Surg*. 2019; 29(3): 442-448.
138. Tian D, Shiiya H, **Sato M**, Sun CB, Anraku M, Nakajima J. Tumor location may affect the clinicopathological features and prognosis of thymomas. *Thorac Cancer*. 2019; 10(11): 2096-2105.
139. Yanagiya M, Matsumoto J, Kawahara T, Yamaguchi H, Nagayama K, Anraku M, **Sato M**, Nakajima J. Influence of Smoking and Histologic Subtype on Developing Extrathymic Malignancy in Thymoma Patients. *Ann Thorac Surg*. 2019; 107(5): 1532-1539.
140. Aoki S, Yamashita H, Takahashi W, Nawa K, Ota T, Imae T, Ozaki S, Nozawa Y, Nakajima J, **Sato M**, Anraku M, Nitadori J, Karasaki T, Abe O, Nakagawa K. Salvage stereotactic body radiotherapy for post-operative oligo-recurrence of non-small cell lung cancer: A single-institution analysis of 59 patients. *Oncol Lett* 2020; 19 (4): 2695-2704.
141. Ueda K, Uemura Y, **Sato M***. Protocol for the VAL-MAP 2.0 trial: a multicentre, single-arm, phase III trial to evaluate the effectiveness of virtual-assisted lung mapping by bronchoscopic dye injection and microcoil implementation in patients with small pulmonary nodules in Japan. *BMJ Open* 2019; 9(9): e028018.
142. Zheng BX, Xu G, Fu X, Wu W, Liang M, Zeng T, Zhang S, Zhu Y, Zheng W, Chen C, Bédard B, Swanson SJ, Koike T, Iwata H, Bedetti B, **Sato M**. Management of the inter-segmental plane using the "Combined Dimensional Reduction Method" is safe and viable in uniport video-assisted thoracoscopic pulmonary segmentectomy. *Transl Lung Cancer Res* 2019; 8(5): 658-666.
143. Glanville AR, Verleden GM, Todd JL, Benden C, Calabrese F, Gottlieb J, Hachem RR, Levine D, Meloni F, Palmer SM, Roman A, **Sato M**, Singer LG, Tokman S, Verleden SE, von der Thüsen J, Vos R, Snell G. Chronic lung allograft dysfunction: Definition and update of restrictive allograft syndrome-A consensus report from the Pulmonary Council of the ISHLT. *J Heart Lung Transplant* 2019; 38(5): 483-492.
144. **Sato M***, Murayama T, Nakajima J. Concepts and techniques: how to determine and identify the appropriate target segment in anatomical pulmonary segmentectomy? *J Thorac Dis*. 2019; 11(3): 972-986.
145. Tian D, Wang Y, Shiiya H, Sun CB, Uemura Y, **Sato M***, Nakajima J. Outcomes of marginal donors for lung transplantation after ex vivo lung perfusion: A

- systematic review and meta-analysis. *J Thorac Cardiovasc Surg.* 2019; S0022-5223(19)31641-1 [on line ahead of print].
146. Inoue D Nishi H, Honda K, Ishii T, Abe H, **Sato M**, Nangaku M. Renal thrombotic microangiopathy during nintedanib treatment for idiopathic pulmonary fibrosis. *Clin Nephrol.* 2020; 93(1): 47-50.
147. **Sato M***. Donor-recipient Lymphatic Interaction After Lung Transplantation: Not Simply a Drainage Route for Water, but a Complex Pathway Regulating Intrapulmonary Alloimmunity. *Transplantation.* 2020; 104(3): e61-e62.
148. Tian D, Shiiya H, **Sato M***, Nakajima J. Rat lung transplantation model: modifications of the cuff technique. *Ann Transl Med.* 2020; 8(6): 407.
149. Yanagiya M, **Sato M***, Ueda K, Nagayama K, Kawahara T, Kawashima S, Yotsumoto T, Yoshioka T, Fukumoto KJ, Nakajima J. Preoperative lung surface localization for pulmonary wedge resection: a single-center experience. *J Thorac Dis.* 2020; 12(5): 2129-2136.
150. Kawashima S, Yoshioka T, Hino H, Kitano K, Nagayama K, **Sato M**, Kojima R, Kamiya M, Urano Y, Nakajima J. γ -glutamyl hydroxymethyl rhodamine green fluorescence as a prognostic indicator for lung cancer. *Gen Thorac Cardiovasc Surg.* 2020 Jun 2. doi: 10.1007/s11748-020-01395-2. [Epub ahead of print].
151. Sun C, Anraku M, Kawahara T, Karasaki T, Kitano K, Nagayama K, **Sato M**, Nakajima J. Prognostic significance of low pectoralis muscle mass on preoperative chest computed tomography in localized non-small cell lung cancer after curative-intent surgery. *Lung Cancer.* 2020; 147: 71-76.
152. Kakimi K, Matsushita H, Masuzawa K, Karasaki T, Kobayashi Y, Nagaoka K, Hosoi A, Ikemura S, Kitano K, Kawada I, Manabe T, Takehara T, Ebisudani T, Nagayama K, Nakamura Y, Suzuki R, Yasuda H, **Sato M**, Soejima K, Nakajima J. Adoptive transfer of zoledronate-expanded autologous V γ 9V δ 2 T-cells in patients with treatment-refractory non-small-cell lung cancer: a multicenter, open-label, single-arm, phase 2 study. *J Immunother Cancer.* 2020; 8(2): e001185.
153. Konoeda C, **Sato M***, Hirata Y, Nakajima J. Native lung pulmonary artery banding after single lung transplant for obliterative bronchiolitis. *Ann Thorac Surg.* 2020 Sep 17;S0003-4975(20)31486-7. doi: 10.1016/j.athoracsur.2020.06.121. [Epub ahead of print]
154. Tian D, Shiiya H, **Sato M**, Nakajima J. Tumor Maximum Area May Determine the Survival Outcomes of Patients with Thymic Epithelial Tumors. *Ann Surg Oncol.* 2020 Sep 19. doi: 10.1245/s10434-020-09127-9. [Epub ahead of print]
155. **Sato M***. Strategies to improve the accuracy of lung stapling in uniportal and

- multiportal thoracoscopic sublobar lung resections. *Eur J Cardiothorac Surg.* 2020; 58(S1): i108-i110.
156. Yanagiya M, Kawahara T, Ueda K, Yoshida D, Yamaguchi H, **Sato M***. A meta-analysis of preoperative bronchoscopic marking for pulmonary nodules. *Eur J Cardiothorac Surg.* 2020; 58(1): 40-50.
157. **Sato M***. Precise sublobar lung resection for small pulmonary nodules: localization and beyond. *Gen Thorac Cardiovasc Surg.* 2020; 68(7): 684-691.
158. Takahagi A, **Sato M***, Chen-Yoshikawa TF, Miyamoto E, Saito M, Gochi F, Hamaji M, Yoshizawa A, Terasaki Y, Urushiyama H, Aoyama A, Sonobe M, Date H. LPS-induced Airway-centered Inflammation Leading to BOS-like Airway Remodeling Distinct From RAS-like Fibrosis in Rat Lung Transplantation. *Transplantation.* 2020; 104(6): 1150-1158.
159. Martinu T, Koutsokera A, Benden C, Cantu E, Chambers D, Cypel M, Edelman J, Emtiazjoo A, Fisher AJ, Greenland JR, Hayes D Jr, Hwang D, Keller BC, Lease ED, Perch M, **Sato M**, Todd JL, Verleden S, von der Thüsen J, Weigt SS, Keshavjee S; bronchoalveolar lavage standardization workgroup. International Society for Heart and Lung Transplantation consensus statement for the standardization of bronchoalveolar lavage in lung transplantation. *J Heart Lung Transplant.* 2020 Jul 15:S1053-2498(20)31653-3. [Epub ahead of print]
160. Yoshiyasu N, **Sato M***. Chronic lung allograft dysfunction post-lung transplantation: The era of bronchiolitis obliterans syndrome and restrictive allograft syndrome. *World J Transplant.* 2020; 10(5): 104-116.
161. Shiraga K, Hirata Y, Saito A, Ozcelik N, Asakai H, Inuzuka R, Soma K, **Sato M**, Hirata Y, Oka A. Successful angioplasties using high pressure large balloons in a patient with severe anastomotic pulmonary artery stenosis soon after single-lung transplantation. *J Cardiol Cases.* 2020; 22(1): 22-25.
162. Yamauchi H, Bando M, Shinozaki-Ushiku A, Ogura T, Takemura T, **Sato M**, Hagiwara K. Is unclassifiable idiopathic interstitial pneumonia a result of idiopathic pleuroparenchymal fibroelastosis? *Respir Investig.* 2020 Apr 8:S2212-5345(20)30037-X. doi: 10.1016/j.resinv.2020.03.003. [Epub ahead of print]
163. **Sato M***. Bronchiolitis obliterans syndrome and restrictive allograft syndrome after lung transplantation: why are there two distinct forms of chronic lung allograft dysfunction? *Ann Transl Med.* 2020; 8(6): 418.
164. **Sato M***, Tian D. Preface: strategies to achieve long-term success of lung transplantation. *Ann Transl Med.* 2020; 8(6): 406.

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邦文

1. *佐藤 雅昭. 小型肺癌の術中局在特定法—術前マーキング法と virtual-assisted lung mapping—. 肺癌 2014; 54(6), 835-842.
2. 佐藤 雅昭, 山田 徹, 青山 晃博, 陳 豊史, 園部 誠, 板東 徹, 伊達 洋至. 生体肺移植ドナー手術手技の工夫. 日本呼吸器外科学会雑誌 2014;28(4):439-445.
3. 佐藤 雅昭, 伊達 洋至. 肺移植 (内科医に求められる他科の知識 専門家が伝える Do-Don't (第1章)外科 呼吸器外科). 臨床雑誌内科 114;6: 923-924
4. 佐藤 雅昭, 松田 芳, 岡田 克典, 大藤 剛宏, 南 正人, 山崎 直哉, 岩田 剛和, 吉野 一郎, 白石 武史, 千田 雅之, 永安 武, 奥村 明之進, 近藤 丘, 伊達 洋至, 三好 新一郎. 間質性肺炎、閉塞性細気管支炎の分類と本邦脳死肺移植登録患者の生存率の検討. 日本呼吸器学会誌 2015;4(3):210-215.
5. 山梨 恵次, 徳野 純子, 住友 亮太, 庄司 剛, 佐藤 雅昭, 黄 政龍. 術前気管支鏡下肺マッピング法 (VAL-MAP ; virtual-assisted lung mapping) を用い, 微小な ground-glass nodule (GGN) に対して完全鏡視下切除を行った1例. 肺癌 2015;55(4); 206-211.
6. 齊藤 朋人, 佐藤 雅昭, 谷口 洋平, 村川 知弘, Keshavjee Shaf. 慢性移植肺機能不全の個別先制医療をめざして (特集 肺移植における周術期・遠隔期の課題). 胸部外科 2016; 69(11): 931-934.
7. 佐藤 雅昭. 区域間同定のための技術 (特集 胸部外科を支えるテクノロジー up to date). 胸部外科 2017;71(10):862-867.

B. Book publications

1. Sato M, Wada H, Nakamura T: How to prepare clinical case reports for presentations and publications (written in Japanese, 198 pages), Medical Review, 2004.
2. Sato M, Kusaba T, Tomitsuka T: How to do research training: A practical guide for medical research trainee (written in Japanese, 250 pages), Medical Review, 2010.
3. Sato M: How to prepare clinical case reports for presentations and publications. 2nd Edition (written in Japanese, 210 pages), Medical Review, 2011
4. Sato M: How to prepare English presentation. (written in Japanese, 175 pages), Medical Review, 2013
5. Sato M: The reason why you cannot write a paper. (written in Japanese, 180 pages), Medical Review, 2016
6. Sato M: The reason why you cannot progress your research. (written in Japanese, 148 pages), Medical Review, 2016
7. 出雲 雄大 (編集), 佐藤 雅昭 (編集). 仮想気管支鏡作成マニュアル 迅速な診断と VAL-MAP のために. 医学書院. 2017/5/24.
- 8.

C. Current grant support

- 2014-2016 Grants-in-Aid for Scientific Research (Challenging exploratory Research : 26670579)
Cancer inhalation therapy: a novel platform for cancer vaccination utilizing intrapulmonary lymphoid neogenesis
- 2014-2017 Grants-in-Aid for Scientific Research (Scientific Research B : 26293286) The effect of local antibody production by intrapulmonary lymphoid tissue on the development of restrictive allograft syndrome, a severe form of chronic lung allograft dysfunction after lung transplantation.
- 2016-2019 Japan Agency for Medical Research and Development (Medical Arts 1-1: 16ek0610010h0002) The development of super minimally invasive surgical treatment for lung cancer using lung mapping based on radiology imaging.
- 2017-2020 Grants-in-Aid for Scientific Research (Scientific Research A : 17H01581) The effect of local antibody production by intrapulmonary lymphoid tissue on the development of restrictive allograft syndrome, a severe form of chronic lung allograft dysfunction after lung transplantation.

D. Awards and Honors:

- 2003-2004 Rotary International ambassadorial scholarship
- 2004 Second-place, poster presentation, Regenerative Medicine Platform Category, University Health Network Research Day
- 2004-2005 Open-fellowship, University of Toronto
- 2005-2007 Wyeth/CIHR postdoctoral fellowship
- 2005-2007 Canadian Cystic Fibrosis Foundation, Ph.D studentship (declined)
- 2005-2006 CIHR Training Program in Regenerative Medicine postdoctoral fellowship (declined)
- 2006 Basic Science Abstract Award, Annual meeting, Canadian Society of Transplantation
- 2006 Alan Wu Poster Competition Award, Honorable mention, Scientific day, Institute of Medical Science, University of Toronto
- 2006 Brinda Murti Memorial Award
- 2007-2009 Canadian Cystic Fibrosis Foundation, Fellowship
- 2007-2008 CCFE Kinsmen Canada Fellowship Award
- 2008 Pearson Day, the best abstract presentation
- 2008-2010 Roche/MOT Academic Enrichment Fund Award
- 2010 Pearson Day, the best abstract presentation
- 2011 Best Abstract Award (Bronze), Congress of Asian Society of Transplantation

- 2012 Kyoto University Fukuse-Nakamura awards for extra-institutional achievements
- 2013 Best Abstract, Asian Society for Cardiovascular and Thoracic Surgery 21st annual meeting (Mar, 2013, Kobe). Bronchoscopic Lung Mapping: a novel strategy for precise lung cancer resection using 3D images.
- 2014 Awards of excellence, Japanese society for respiratory endoscopy
- 2014 Kyoto University Fukuse-Nakamura awards for intra-institutional achievements
- 2015 Society Award: Japanese Society for Chest Surgeons.
- 2017 ACCP Japan Annual Award

E. Invited lectures (International)

1. **Sato M** and Liu M. Sunrise Symposium: Animal models of obliterative bronchiolitis after lung transplantation (2): heterotopic tracheal transplantation. International Society for Heart and Lung Transplantation (ISHLT) 28th annual meeting (Boston, MA; April 9, 2008).
2. **Sato M**. Signs, Symptoms, and clinical course of restrictive allograft syndrome (RAS) after lung transplantation. Congress of Asian Society of Transplantation (CAST) 12nd meeting (Seoul, Korea; Sep 26, 2011).
3. **Sato M**. BOS and RAS: Importance of differentiating clinical phenotypes of CLAD after lung transplantation. Congress of Asian Society of Transplantation (CAST) 13rd meeting (Kyoto, Japan; Sep 4, 2013).
4. **Sato M**. Implementing innovation: what future leaders need to know: Virtual Assisted Lung Mapping (VAL-MAP). Clinical skills course, the 95th annual meeting of American Association for Thoracic Surgery (AATS) (Seattle, WA; Apr 25, 2015).
5. **Sato M**. Navigational segmental resection of lung nodule. The 2nd Asian Institute of Thoracic Surgery/ICRAD 2015 (Taichung, Taiwan; December 4, 2015).
6. **Sato M**. Navigational Minimally Invasive Thoracic Surgery in Diagnosis and Treatment of Early Lung Cancer –Japanese Experience. International symposium of hybrid approach for early lung cancer (Taichung, Taiwan; December 5, 2015).
7. **Sato M**. Navigational sublobar lung resection using virtual assisted lung mapping (VAL-MAP). Invited Lecture, the 24th annual meeting of Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) (Taipei, Taiwan; April 9, 2016).
8. **Sato M**. Pre-meeting Symposium, The 36th annual meeting of the International Society for Heart and Lung Transplantation (ISHLT) (Washington DC; April 27, 2016).
9. **Sato M**. Virtual Assisted Lung Mapping (VAL-MAP) 手術在胸外科の座用, 第一屆日中胸外科微創与精准治療高峰會議 2016, (Shenyang, China; November 27, 2016).
10. **Sato M**. Lung Mapping and Navigational Thoracoscopic Segmentectomy using Synapse Vincent. Luncheon seminar. European Society for Thoracic Surgeons

- (ESTS) 25th Annual Meeting (Innsbruck, Austria, May 29, 2017).
11. **Sato M.** Marking for Small Pulmonary Nodules Virtual Assisted Lung Mapping (VAL-MAP). ESTS-JACS joint session, European Society for Thoracic Surgeons (ESTS) 25th Annual Meeting (Innsbruck, Austria, May 29, 2017).
 12. **Sato M.** Our Planning (How we do it I): Virtual Assisted Lung Mapping (VAL-MAP). 1st International Conference of Sublobar Lung Resection for Lung Cancer (Paris, France, January 11, 2018).
 13. **Sato M.** S10 and S9+10 segmentectomy. 1st International Conference of Sublobar Lung Resection for Lung Cancer (Paris, France, January 12, 2018).
 14. **Sato M.** Subsegmentectomies. 1st International Conference of Sublobar Lung Resection for Lung Cancer (Paris, France, January 12, 2018).
 15. **Sato M.** Stapler-based pulmonary segmentectomy: technical tips and pitfalls. 2018 ZHONGSHAN MINIMALLY INVASIVE SURGERY FORUM, (Shanghai, China; May 11, 2018).
 16. **Sato M.** Stapler-based pulmonary segmentectomy: standing stitches and the AMAGAMI technique. 1st meeting of Taiwan Society of Thoracic Surgeons (TSTS), (Taipei, Taiwan; June 9, 2018).
 17. **Sato M.** CLAD overview and focused update on management. Yonsei Lung Transplant Academy 2018 (Seoul, South Korea; October 13, 2018).
 18. **Sato M.** Virtual assisted lung mapping (VAL-MAP). 32nd European Association for Cardio-thoracic Surgery (EACTS) Annual meeting (Milan, Italy; October 18, 2018).
 19. **Sato M.** Segmental anatomy and identifying interlobular planes. 32nd European Association for Cardio-thoracic Surgery (EACTS) Annual meeting (Milan, Italy; October 20, 2018).
 20. **Sato M.** Live in the box: segmentectomy and sleeve segmentectomy. 32nd European Association for Cardio-thoracic Surgery (EACTS) Annual meeting (Milan, Italy; October 20, 2018).
 21. **Sato M.** Teamwork; easier said than done! Challenge in building the lung transplant team across multiple modalities in a big hospital. Linkou Changgeng Hospital lecture (Taipei, Taiwan; November 23, 2018).
 22. **Sato M.** Teamwork; easier said than done! Challenge in building the lung transplant team across multiple modalities in a big hospital. Taizhong Zhongshan Hospital lecture (Taichung, Taiwan; November 23, 2018)
 23. **Sato M.** Chronic Lung Allograft Dysfunction after Lung Transplantation. Transplantation Science Symposium Asian Regional meeting 2018 (Taipei, Taiwan; November 24, 2018).

24. **Sato M.** Lung mapping for minimally invasive lung surgery: where we are and where we go. Taiwan Association of Thoracic and Cardiovascular Surgery 2018 (Taipei, Taiwan; November 25, 2018).

F. Invited Lecture (National)

1. **Sato M.** The 28th Japanese society for lung and heart-lung transplantation. Educational lecture “BOS and RAS: does RAS change management of patients with chronic lung allograft dysfunction?” (Sendai; January 28, 2012)
2. **Sato M.** Small lung cancer up-to-date; intraoperative identification of small lung cancer. Problems of current CT-guided marking techniques and the benefit of Virtual Assisted Lung Mapping (VAL-MAP). Japan lung cancer society workshop (Kyoto; June 29, 2013).
3. **Sato M.** To make ourselves resistant to cancer --- from the viewpoint of a surgeon working at a university hospital. The 2nd forum of the society of making ourselves resistant to cancer (Kyoto; February 4, 2014).
4. The 7th General Thoracic Surgical Forum “Virtual Assisted Lung Mapping (VAL-MAP).” (Tokyo, February 2014)
5. The 18th Hokkaido Transplantation Forum, invited educational lecture. “Lung transplantation: the ultimate immunological challenge” (Asahikawa, July 2014)
6. Academic activity for physical therapists: let’s start from a case report. Kyoto Society for physical therapists, freshmen training course (Kyoto, November 16, 2014).
7. Award presentation; the 32nd annual meeting, Japanese Association for Chest Surgeons, “The surgeon’s view point at chronic rejection after lung transplantation: identification of restrictive allograft syndrome (RAS) and intrapulmonary lymphoid neogenesis” (Kagawa, Japan, May 15, 2015)
8. The 21st chest surgery seminar, “English presentation and Q&A: becoming a world-wide active thoracic surgeon” (Kagawa, Japan; May 17, 2015)
9. Morning seminar; the 38th annual meeting, the Japan Society of Respiratory Endoscopy, “the next generation of VAL-MAP led by Synapse Vincent” (Tokyo, Japan; June 12, 2015)
10. The 79th Gifu prefecture lung cancer meeting, “Clinician’s academic activity How To” (Gifu, Japan; September 19, 2015)
11. The 79th Gifu prefecture lung cancer meeting, “Tips and Pitfalls of VAL-MAP” (Gifu, Japan; September 19, 2015)
12. The 105th South Yokohama chest disease meeting, “About lung transplantation – what respirologists need to know” (Yokohama, Japan; September 30, 2015)
13. The 53rd annual meeting of Japan Society of Clinical Oncology, “lung mapping and navigation in the era of sublobar lung resection: cutting the lung not too little, not too much” (Kyoto, Japan;

October 29, 2015)

14. Bronchoscopy seminar; the 14th Kinki Regional meeting the Japan Society of Respiratory Endoscopy, “Virtual Assisted Lung Mapping (VAL-MAP)” (Osaka, Japan; November 21, 2015)
15. Luncheon seminar; the 39th annual meeting, the Japan Society of Respiratory Endoscopy, “How to use virtual bronchoscopy” (Nagoya, Japan; June 24, 2016)
16. The 1st Yokohama Respiriology Conference, “English presentation for Clinicians” (Yokohama, Japan; June 29, 2016)
17. The 1st Yokohama Respiriology Conference, “Rejection after lung transplantation up-to-date” (Yokohama, Japan; June 29, 2016)
18. The 2nd Kyoto Career Planning Seminar for medical students and young doctors, “Bench-to-bedside, bedside-to-bench, research that clinicians need to do” (Kyoto, Japan, August 1, 2016)
19. Virtual Assisted Lung Mapping (VAL-MAP), 口頭, 佐藤雅昭, 京都, ISMICS Winter Workshop 2016, 2016/10/29, 国内.
20. Sublobar Lung Resection Using Virtual Assisted Lung Mapping (VAL-MAP). 招待講演. 佐藤雅昭. 第 34 回日本呼吸器外科学会総会 JACS-ESTS joint session, 福岡, 2017/5/19, 国内.
21. Virtual-Assisted Lung Mapping (VAL-MAP) による微小肺癌の診断と治療：臨床研究の出口戦略としての一例. 招待講演. 佐藤雅昭. 平成 29 年度 JMTO ワークショップ, 名古屋, 2017/6/17, 国内.
22. The benefit of localization for thoracic surgery. 招待講演. 佐藤雅昭. 1st ENB expert meeting, 東京, 2017/9/23, 国内.
23. 胸腔鏡時代の肺がん縮小手術 ピットフォール回避の工夫と新技術の活用. 招待講演. 佐藤雅昭. 第 58 回日本肺癌学会学術総会 ランチョンセミナー, 横浜, 2017/10/15, 国内.
24. Virtual-assisted lung mapping (VAL-MAP)支援による手術ナビゲーションと微小肺病変切除. 招待講演. 佐藤雅昭. 第 109 回 ACCP 日本部会定期教育講演会, 福岡, 2017/10/28, 国内.
25. Determination of resection lines using Virtual-Assisted Lung Mapping (VAL-MAP): Application to Uniportal VATS segmentectomy. 口演. 佐藤雅昭. 北野健太郎、長山和弘、似鳥純一、安樂真樹、中島淳. 第 17 回日本呼吸器胸腔鏡研究会, 京都, 2017/12/6, 国内.
26. 臨床研究の出口はどこに？－VAL-MAP 多施設共同研究・先進医療の経験から－. 招待講演. 佐藤雅昭. 第 9 回日本臨床試験学会, 2018/2/24, 国内.
27. 次世代気管支ナビシステムと市民権を得た手術シミュレーション. 招待講演. 佐藤雅昭. 第 35 回 日本呼吸器外科学会総会 ランチョンセミナー, 千葉 2018/5/17, 国内

28. 肺がんに対する区域切除 hints and tips: Tips for stapler-based segmentectomy. 招待講演. 佐藤雅昭. 第 35 回 日本呼吸器外科学会総会 ランチョンセミナー, 千葉 2018/5/18, 国内
- 29.

G. Conferences/Presentations [First author presentation only] INTERNATIONAL

1. **Sato M**, Gutierrez C, Kaneda H, Liu M, Waddell TK, Keshavjee S. The effects of gender on lung transplantation – the ISHLT Registry experience. International Society for Heart and Lung Transplantation 25th annual meeting (Philadelphia, PA; April 9, 2005).
2. **Sato M**, Ogura T, D’Cruz G, Anraku M, Waddell TK, Liu M, Keshavjee S. Remodeling of established transplant airway obliterative fibrosis: the role of matrix metalloproteinases. International Society for Heart and Lung Transplantation 26th annual meeting (April 7, 2006, Madrid, Spain). [Poster]
3. **Sato M**, Ogura T, D’Cruz G, Anraku M, Cypel M, Waddell TK, Liu M, Keshavjee S. Balanced matrix metalloproteinase inhibition: Refining a therapeutic strategy for developing/established fibrosis of airway obliteration. International Society for Heart and Lung Transplantation 27th annual meeting (San Francisco, CA; April 26, 2007). [Poster]
4. **Sato M**, Duchesneau P, Andrade C, Hirayama S, Liu M, Waddell TK, Keshavjee S. The pulmonary milieu facilitates allograft airway rejection: A possible role for bronchus associated lymphatic tissue (BALT). International Society for Heart and Lung Transplantation 27th annual meeting (San Francisco, CA; April 27, 2007).
5. **Sato M**, Anraku M, Cypel M, Hirayama S, Waddell TK, Liu M, Keshavjee S. Regression of established post-transplant allograft airway obliteration by targeting interaction of fibrosis and immune system. International Society for Heart and Lung Transplantation 27th annual meeting (San Francisco, CA; April 28, 2007).
6. **Sato M**, Anraku M, Cypel M, Hirayama S, Waddell TK, Liu M, Keshavjee S. International Society for Heart and Lung Transplantation 28th annual meeting (Boston, MA; April 8, 2008,). [poster]
7. **Sato M**, Hirayama S, Hwang DM, Lara-Guerra H, Wagnetz D, Waddell TK, Liu M, Keshavjee S. The role of intrapulmonary de novo lymphoid tissue in obliterative bronchiolitis after lung transplantation. International Society for Heart and Lung Transplantation 29th annual meeting (Paris, France; April 20, 2009). [poster]
8. **Sato M**, Hwang DM, Wagnetz D, Zehong G, Singer LG, Haroon A, Chaparro C, Chow C-W, Waddell TK, Hutcheon M, Keshavjee S. Restrictive Allograft Syndrome (RAS): A Subset of Bronchiolitis Obliterans Syndrome (BOS) or a Distinct Entity? International Society for

Heart and Lung Transplantation 30th annual meeting (Chicago, IL; April 22, 2010).

9. **Sato M**, Waddell TK, Hwang DM, Chaparro C, Singer LG, Hutcheon MA, Keshavjee S. Revisiting the Diagnosis of Diffuse Alveolar Damage (DAD) after Lung transplantation. International Society for Heart and Lung Transplantation 31th annual meeting (April 14, 2011, San Diego, CA).

10. **Sato M**, Waddell TK, Hwang DM, Chaparro C, Singer LG, Hutcheon MA, Keshavjee S. The Role of Open Lung Biopsy in Lung-Transplant Recipients: Does the Establishment of Restrictive Allograft Syndrome (RAS) Change Practice? International Society for Heart and Lung Transplantation 31th annual meeting (San Diego, CA; April 14, 2011).

11. **Sato M**, Husain S, Waddell TK, Chaparro C, Singer LG, Hutcheon MA, Keshavjee S. Cytomegalovirus Primary Mismatch Increases the Risk of Restrictive Allograft Syndrome after Lung Transplantation. International Society for Heart and Lung Transplantation 31th annual meeting (San Diego, CA; April 14, 2011).

12. **Sato M**, Hirayama S, Matsuda Y, Hwang DM, Wagnetz D, Zehong G, Liu M, Keshavjee S. Development of Lymphoid-Like Stroma in Chronic Lung Allograft Dysfunction after Lung Transplantation. International Society for Heart and Lung Transplantation 31st annual meeting (San Diego, CA; April 15, 2011).

13. **Sato M**, Omasa M, Ikeda M, Yokoyama Y, Gochi F, Yamada T, Aoyama A, Chen F, Sato T, Sonobe M, Bando T, Date H. Bronchoscopic Lung Mapping: a novel strategy for precise lung cancer resection using 3D images. ASCVTS2013 (Kobe, Japan; April 5, 2013).

14. **Sato M**, Saito T, Waddell T, Singer GL, Keshavjee S. Diagnosis of Restrictive Allograft Syndrome (RAS) without using total lung capacity. International Society for Heart and Lung Transplantation 33rd annual meeting (Montreal, Canada; April 25, 2013).

15. **Sato M**, Imashimizu K, Kuwata T, Yamanashi K, Misawa K, Kobayashi M, Ikeda M, Koike T, Kitamura A, Kosaka S, Nagayama K, Sekine Y, Hirayama S, Okabe R, Sakai H, Watanabe F, Date H. Safety, reproducibility and benefit of virtual-assisted lung mapping (VAL-MAP) in thoracoscopic sublobar lung resection: a multi-center study in Japan. The 23rd European Society of Thoracic Surgeons annual conference (Lisbon, Portugal; 1 June, 2015).

16. **Sato M**, Kobayashi M, Kojima F, Tanaka F, Yanagiya M, Kosaka S, Fukai R, Furuhashi Y, Misawa K, Ikeda M, Miyamoto H, Kamohara R, Yoshida Y, Hiroaki Sakai H, Sekine Y, Koike T, Otake Y. Effect of virtual-assisted lung mapping (VAL-MAP) in acquisition of surgical margins in sublobar lung resection: a multicenter, prospective study in Japan. The 98th American Association of Thoracic Surgeons (AATS) meeting (San Diego, CA; April 30, 2018).

H. Conferences/Presentations [First author presentation only] NATIONAL

NATIONAL meetings in Japan

1. **Sato M**, Bando T, Wada H. Japan Pneumothorax society Recurrent 3rd annual meeting (September.12, 1999, Kyoto, Japan). Oral: Spontaneous pneumothoraces associated with juvenile polymyositis.
2. **Sato M**, Tanaka F, Wada H. Japanese College of Chest Surgeons the 17th annual meeting (May 26, 2000; Tokushima, Japan). Oral: Treatment of Necrotic Infection on the Anterior Chest Wall Secondary to Mastectomy and Postoperative Radiotherapy by the Application of Omentum and Mesh Skin Grafting.
3. **Sato M**, Kosaka S. Japanese Association of Lung Cancer the 43rd annual meeting (November 2, 2001; Osaka, Japan) Poster: Pulmonary adenocarcinoma found for single conjunctival metastasis.
4. **Sato M**, Gutierrez C, Kaneda H, Liu M, Waddell TK, Keshavjee S. Japanese College of Chest Surgeons the 22th annual meeting (May 25, 2005; Kyoto, Japan). Oral: The effects of gender on lung transplantation. ISHLT Registry experience and rat intrapulmonary tracheal transplant model of bronchiolitis obliterans.

NATIONAL meetings in Canada

1. **Sato M**, Ogura T, D'Cruz G, Anraku M, Waddell TK, Liu M, Keshavjee S. Canadian Transplant Academy Training Day (March 2, 2006; Mont-Tremblant, Québec) Oral: Remodelling of established transplant airway obliterative fibrosis: the role of matrix metalloproteinases.
2. **Sato M**, Ogura T, D'Cruz G, Anraku M, Waddell TK, Liu M, Keshavjee S. Canadian Society of Transplantation Annual Scientific Meeting 2006 (March 3, 2006; Mont-Tremblant, Québec) Oral: Remodelling of established transplant airway obliterative fibrosis: the role of matrix metalloproteinases.
3. **Sato M**, Duchesneau P, Andrade C, Hirayama S, Liu M, Waddell TK, Keshavjee S. Canadian Society of Transplantation Annual Scientific Meeting 2007 (March 16, 2007; Banff, Alberta) Poster: The pulmonary milieu facilitates allograft airway rejection: A possible role for bronchus associated lymphatic tissue (BALT).
4. **Sato M**, Anraku M, Cypel M, Hirayama S, Waddell TK, Liu M, Keshavjee S. Canadian Society of Transplantation Annual Scientific Meeting 2007 (March 16, 2007; Banff, Alberta) Poster: Regression of established post-transplant allograft airway obliteration by targeting interaction of fibrosis and immune system.

LOCAL meetings in Canada

1. **Sato M**, Gutierrez C, Kaneda H, Liu M, Waddell TK, Keshavjee S. 7th University Health

Network Research Day (November, 2004; Toronto, Ontario) Poster: the effect of gender on lung transplantation – the ISHLT Registry experience.

2. **Sato M**, Hwang D, Kaneda H, Liu M, Waddell TK, Keshavjee S. 7th University Health Network Research Day (November, 2004; Toronto, Ontario) Poster: gender effects on airway obliteration.

3. **Sato M**, Liu M, Waddell TK, Keshavjee S. 8 th University Health Network Research Day (October, 2005; Toronto, Ontario) Poster: Remodelling of established transplant airway obliterative fibrosis: the role of matrix metalloproteinases.

4. **Sato M**, Liu M, Waddell TK, Keshavjee S. Wyeth Research Day (November, 2005) Remodelling of established transplant airway obliterative fibrosis: the role of matrix metalloproteinases.

I. Teaching and supervisory commitments

Fellows/graduate students

2011-2014	Dr. Tomohito Saito (Ph.D program; Kansai Medical University/University of Toronto)
2012-2014	Dr. Hideki Motoyama (Ph.D program; Kyoto University)
2012-2016	Dr. Terumasa Sowa (Ph.D program; Kyoto University)
2012-2016	Dr. Kei Shikuma (Ph.D program; Kyoto University)
2014-2017	Dr. Ei Miyamoto (Ph.D program; Kyoto University)
2015-	Dr. Akihiro Takahagi (Ph.D program; Kyoto University)
2015-2017	Dr. Mitsuaki Kawashima (Ph.D program; The University of Tokyo)
2016-	Dr. Masato Inui (Ph.D program; The University of Tokyo)
2018-	Dr. Dong Tian (PhD program; The University of Tokyo)
	Dr. Haruhiko Shiiya (PhD student from Hokkaido University)