

# Curriculum Vitae

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## Education

1983-1987 School of Medicine, The University of Tokyo  
Ph.D., October 1998  
M.D., May 1987  
1981-1983 Faculty of General Arts, The University of Tokyo (Premedical course)

## Postdoctoral Training

1999-2001 Clinical Fellow, Department of Cardiothoracic Surgery,  
Ohio State University, Columbus, OH  
1994-1999 Clinical Fellow, Department of Cardiothoracic Surgery,  
The University of Tokyo Hospital  
1993 Chief Fellow, Department of Cardiac Surgery, Asahi Hospital  
1992 Clinical fellow, Department of Cardiothoracic Surgery,  
Kyorin University Hospital  
1990-1991 Resident, Department of Cardiothoracic Surgery,  
The University of Tokyo Hospital  
1988-1990 Resident, Department of Surgery,  
Social Insurance Central General Hospital  
1987-1988 Intern, Second Department of Surgery, The University of Tokyo Hospital

## Faculty Academic Appointments

2017-present Professor, Research Institute for Biomedical Science and Engineering  
2013-present Director, Cooperative Unit of Medicine and Engineering Research,

2009-present	Graduate School of Medicine, The University of Tokyo Professor and Chief, Department of Cardiovascular Surgery,
2004-2009	Graduate School of Medicine, The University of Tokyo Assistant Professor, Department of Cardiac Surgery,
2004-2004	Graduate School of Medicine, The University of Tokyo Clinical Lecturer, Department of Cardiac Surgery,
2001-2004	Graduate School of Medicine, The University of Tokyo Clinical Assistant, Department of Cardiac Surgery,
1994-1999	Graduate School of Medicine, The University of Tokyo Clinical Assistant, Department of Cardiac Surgery,

### **Licensure and Certification**

Medical license in Japan

Educational Commission for Foreign Medical Graduates certificate

Board Certified Surgeon

Board Certified Cardiovascular Surgeon

Board Certified: The Japanese Circulation Society

Certified ventricular assist device implant Surgeon

Certified: The Japan Society for Transplantation

### **Other Professional Positions**

Member of Heart Transplantation System Working Group: The Ministry of Health, Labor and Welfare

Member of Organ Transplantation Committee: The Ministry of Health, Labor and Welfare

Member of research evaluation: New Energy and Industrial Technology Development Organization

Member of Organ Transplantation Council: Japanese Association of Medical Science

Board Member of Managing Committee: Japan Organ Transplant Network

Chair: J-MACS Committee

Vice-Chair: Joint Committee of heart transplantation-related medical societies

Vice-Chair: Joint Committee of ventricular assist device treatment-related medical societies

Advisor: The Japanese Association for Cardiovascular Disease Prevention

EVAHEART implant Proctor

Jarvik 2000 implant Proctor

HeartMate 3 implant Proctor

Berlin Heart EXCOR implant Proctor

### **Honors and Prizes**

2001.06	President Award Finalist: 2001 Scientific Meeting of International Society of Minimally Invasive Cardiac Surgery
2008.10	The 61 <sup>st</sup> Annual Scientific Meeting of the Japanese Association for Thoracic Surgery Award
2011.01	The 41 <sup>st</sup> Annual Meeting of the Japanese Society for Cardiovascular Surgery Award
2014.06	Poster Award Finalist: 2014 Scientific Meeting of International Society of Minimally Invasive Cardiothoracic Surgery
2017.03	AATS Graham Foundation Excellence Award Finalist: 25 <sup>th</sup> Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery
2019.03	AATS Graham Foundation Excellence Award: 27 <sup>th</sup> Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery

## **Memberships**

### **International Society**

American Association for Thoracic Surgery

American Heart Association

Society of Thoracic Surgeons

The Transplantation Society

International Society for Heart and Lung Transplantation

European Association for Cardiothoracic Surgery

International Society for Mechanical Circulatory Support: Past President

Asian Society for Cardiovascular and Thoracic Surgery: Vice Secretary General, Chief of Scientific Committee

### **Domestic Society**

Japan Surgical Society: Board member

The Japanese Association for Thoracic Surgery: Board member

The Japanese Society for Cardiovascular Surgery: Executive Director

Japanese Society for Artificial Organs: Vice President

The Japanese Circulation Society: Board member

Japanese College of Cardiology: Board member

The Japanese Heart Failure Society: Board member

Japanese College of Angiology: Board member

Japan Society of Computer Aided Surgery: Vice President

The Japanese Society for Transplantation: Board member

Japanese Association for Coronary Artery Surgery: Board member

The Japanese Society for Vascular Surgery: Council member

The Japanese Society for Heart Transplantation: Vice President

Japanese Association for Clinical Ventricular Assist Systems: Board member

Japanese Society for Rotary Blood Pumps: Board member

**Editorial Roles / Editorial Activities**

Circulation Journal

Associate editor

Journal of Cardiology

Associate editor

General Thoracic and Cardiovascular Surgery

Editorial Committee Member

Kyobu-Geka (Jpn Journal of Thoracic Surgery)

Editor in chief

Jpn Journal of Medicine and Pharmaceutical Science

Advisory Editor

Jpn Journal of Cardiovascular Surgery

Editor

Journal of Jpn College of Angiology

Editor

## **Publications (peer-reviewed English articles)**

1. Nakajima J, Ono M, Kobayashi J, Kawauchi M, Takeda M, Furuse A, Takizawa H: Human allogeneic airway epithelial cell line induces lymphocytes to secrete interleukin 10. *Transplant Proc* 1996; 28: 1861-1862
2. Miyaji K, Furuse A, Takeda M, Chikada M, Ono M, Kawauchi M: Successful conduit repair using aortic homograft in a Jehovah's witness child. *Ann Thorac Surg* 1996; 60: 590-591
3. Kawauchi M, Furuse A, Kotsuka Y, Ono M: Resinous plate for permanent sternal splinting in patients with extracardiac conduit. *Ann Thorac Surg* 1996; 61: 1245-1246
4. Nakajima J, Ono M, Takeda M, Kawauchi M, Furuse A, Takizawa H: The role of costimulatory molecules on an airway epithelial cell acting as an alloantigen-presenting cell. *Transplant Proc* 1997; 29: 2297-2300
5. Miyaji K, Furuse A, Tanaka O, Kubota H, Ono M: Surgical repair for atrial septal defect in patients over 70 years of age. *Jpn Heart J* 1997; 38: 677-684
6. Tanaka K, Furuse A, Kotsuka Y, Yagyu K, Kawauchi M, Miyaji K, Ono M, Imanaka K: Mitral valve repair with extensive resection of the anterior leaflet for regurgitation due to Barlow's disease. *Jpn Heart J* 1997; 38: 865-868
7. Ono M, Furuse A, Kotsuka Y, Yagyu K, Isoda T: Persistent hemolysis after coil occlusion of a patent ductus arteriosus in a patient with aortic regurgitation. *Jpn Heart J* 1998; 39: 243-246
8. Ono M, Kotsuka Y, Furuse A, Kawauchi M, Takeshita M: Coronary artery bypass grafting by median sternotomy in patients with a tracheostoma. *Thorac Cardiovasc Surg* 1998; 46: 49-51
9. Ono M, Yagyu K, Furuse A, Kotsuka Y, Kubota H: A case of Stanford type A acute aortic dissection caused by blunt chest trauma. *J Trauma* 1998; 44: 543-544
10. Ohtsuka T, Takamoto S, Endoh M, Ono M, Minami M: Ultrafast computed tomography for minimally invasive coronary artery bypass grafting. *J Thorac Cardiovasc Surg* 1998; 116: 173-4
11. Ono M, Nakajima J, Lee M.C, Hirata K, Kobayashi J, Kawauchi M, Kotsuka Y, Takamoto S: Influence of cryopreservation on human vascular endothelial cell immunogenicity. *Transplant Proc* 1998; 30: 3915-6
12. Lee M.C, Ono M, Nakajima J, Kawauchi M, Kotsuka Y, Takamoto S, Furuse A: Interferon  $\gamma$ -induced expression of HLA-DR and LFA-3 was enhanced by cryopreservation. *Transplant Proc* 1998; 30: 2964-5

13. Nakajima J, Ono M, Kobayashi J, Lee M.C, Takeda M, Kawauchi M, Takamoto S, Takizawa H: Viability and allogenicity of airway epithelial cells after cryopreservation. *Transplant Proc* 1998; 30: 3395-6
14. Nakajima J, Ono M, Kobayashi J, Takeda M, Kawauchi M, Takamoto S, Takizawa H: Effect of cryopreservation on the allogenicity of an airway epithelial cell line. *Transplant Proc* 1998; 30: 3366-7
15. Lee M.C, Kawauchi M, Nakajima J, Takeda M, Ono M, Oka T, Takamoto S: When does hyperacute rejection against xenohearts from newborn pigs develop in infantile monkeys? *Transplant Proc* 1998; 30: 3824-5
16. Kawauchi M, Nakajima J, Takeda M, Ono M, Endoh M, Lee M-C, Oka T, Takamoto S: Discordant xenoheart transplantation with perfluorotributylamine/ pluronic F-68 stem emulsion. *Transplant Proc* 1998; 30: 3831-2
17. Endoh M, Kawauchi M, Oka T, Nakajima J, Takeda M, Ono M, Lee M-C, Takamoto S: Significance of eosinophil infiltration in cardiac rejection. *Transplant Proc* 1998; 30: 3350
18. Kawauchi M, Nakajima J, Takeda M, Ono M, Lee M.C, Oka T, Takamoto S: Ontogeny of hyperacute rejection against pig heart: a pig-to-primate heart transplant study. *Transplant Proc* 1998; 30: 79-80
19. Ono M, Nakajima J, Lee M-C, Ueno K, Kawauchi M, Kotsuka Y, Takamoto S: Influence of cryopreservation on antigen expression and immunogenicity of human vascular endothelial cell. *Transplantation* 1998; 65: S106
20. Ono M, Ohtsuka T, Takamoto S: Right ventricular rupture in a minimally invasive direct coronary artery bypass grafting. *Eur J Cardio-Thorac Surg* 1998; 14: 536-7
21. Ono M, Nakajima J, Lee M.C, Hirata K, Kobayashi J, Kawauchi M, Kotsuka Y, Takamoto S: Influence of cryopreservation on human vascular endothelial cell immunogenicity. *Transplant Proc* 1998; 30: 3915-6
22. Ono M, Nakajima J, Lee M-C, Kawauchi M, Kotsuka Y, Takamoto S: Influence of Cryopreservation on antigen expression and immunogenicity of human vascular endothelial cells. *Transplant Proc* 1999; 31: 985-7
23. Matsumoto J, Kimura W, Kawauchi M, Ono M, Kotsuka Y, Furuse A: Management of severe acute pancreatitis with a somatostatin analog in a patient undergoing surgery for dissecting thoracic aneurysm report of a case. *Surg Today* 1999; 29: 911-4
24. Ono M, Takamoto S, Kawauchi M, Egami M, Kotsuka Y: Aortobronchial fistula late after transverse arch replacement. *Ann Thorac Surg* 2000; 70: 964-6

25. Murakawa T, Nakajima J, Ono M, Murakami A, Suematsu Y, Takamoto S: Allogenicity of cryopreserved human fibroblasts Cryopreservation dose not down regulate the allogenicity of fibroblasts making up the matrices of allografts. *J Thorac Cardiovasc Surg* 2000; 120: 712-9
26. Ono M, Takamoto S, Miyairi T, Kubota H: An extended repair of thoracic aorta through left thoracotomy after aortic root replacement. *Ann Vasc Surg* 2001; 15: 488-490
27. Ono M, Wolf R.K.: Heart injury and endocarditis caused by a needle migrated from the left arm. *Eur J Cardio-Thorac Surg* 2001; 20: p1074
28. Ohtsuka T, Takamoto S, Ono M, Motomura N: Aortic root replacement and coronary interposition using a cryopreserved allograft and its branch. *Eur J Cardiothorac Surg* 2001; 20: 631-2
29. Ono M, Wolf R.K.: Left ventricular pseudoaneurysm after mitral valve replacement. *Ann Thorac Surg* 2002; 73: 1303-1305
30. Ono M, Wolf R.K., Angouras D.C., Schneeberger E.W.: Coronary artery bypass using a new suture-clip device. *J Thorac Cardiovasc Surg* 2002; 123: 783-787
31. Ono M, Wolf R.K., Angouras D.C., Brown D.A., Goldstein A.H., Michler R.E.: Short- and long-term results of open heart surgery in patients with abdominal solid organ transplant. *Eur J Cardio-Thorac Surg* 2002; 21: 1061-1072
32. Miyairi T, Kotsuka Y, Ezure M, Ono M, Morota T, Kubota H, Shibata K, Ueno K, Takamoto S: Open stent-grafting for aortic arch aneurysm is associated with increased risk of paraplegia. *Ann Thorac Surg* 2002; 74: 83-89
33. Murakami A, Takamoto S, Takaoka T, Kobayashi J, Maeda K, Takayama H, Motomura N, Ono M: Saphenous vein homograft containing a valve as a right ventricle-pulmonary artery conduit in the modified Norwood operation. *J Thorac Cardiovasc Surg* 2002; 124: 1041-1042
34. Ono M, Wolf R.K., Brown D.A.: Two cases of anomalous origin of LAD from right coronary artery requiring coronary artery bypass. *Cardiovasc Surg* 2003; 11: 90-92
35. Takayama H, Morota T, Motomura N, Ono M, Kotsuka Y, Takamoto S: Rupture of a small fusiform thoracic aortic aneurysm. *Jpn J Thorac Cardiovasc Surg* 2003; 51: 32-33
36. Hirata Y, Ono M, Morota T, Takamoto S: Recurrent embolism caused by floating thrombus originating from the ligamentum arteriosum. *Eur J Cardio-Thorac Surg* 2003; 24: 452-4
37. Ono M, Michler R.E.: Beating heart coronary artery bypass surgery after orthotopic heart transplantation. *J Cardiac Surg* 2003; 18: 545-549

38. Hirata Y, Sata M, Motomura N, Takanashi M, Suematsu Y, Ono M, Takamoto S: Human umbilical cord blood cells improve cardiac function after myocardial infarction. *Biochem Biophys Res Com* 2005; 327: 609-614
39. Kitamura T, Morota T, Motomura N, Ono M, Shibata Ko, Ueno K, Kotsuka Y, Takamoto S: Management of infected grafts and aneurysms of the aorta. *Ann Vasc Surg* 2005; 19: 335-342
40. Omoto R, Kyo S, Nishimura M, Matsuda H, Matsumiya G, Kitamura S, Nakatani T, Takamoto S, Ono M, Tabayashi K, Yozu R: Japanese multicenter clinical evaluation of the HeartMate vented electric left ventricular assist system. *J Artif Organs* 2005; 8: 34-40
41. Kitahori K, Takamoto S, Takayama H, Suematsu Y, Ono M, Motomura N, Morota T, Takeuchi K: A novel protocol of retrograde cerebral perfusion with intermittent pressure augmentation for brain protection. *J Thorac Cardiovasc Surg* 2005; 130: 363-370
42. Kawata M, Takamoto S, Morota T, Ono M, Motomura N, Murakami A, Suematsu Y: Is the guideline the cause of structural failure in current polyester vascular prostheses? An experimental study. *Artif Organs* 2005; 29: 820-825
43. Saito A, Motomura N, Ono M, Ohtsubo A, Takamoto S: Effectiveness of antibiotic treatments on tissue processing in cryopreserved cardiovascular allografts -a microbiological review in the University of Tokyo Tissue Bank. *Low Temp Med* 2005; 31: 38-43
44. Saito A, Motomura N, Kakimi K, Ono M, Takai D, Sumida S, Takamoto S: Cryopreservation does not alter the allogenicity and development of vasculopathy in post-transplant rat aortas. *Cryobiology* 2006; 52: 251-60
45. Saito A, Ono M, Motomura N, Hirata Y, Morota T, Takamoto S: A surgical case of symptomatic coronary artery-pulmonary artery fistula. *Asian Cardiovasc Thorac Ann* 2006; 14: e4-5
46. Ono T, Ohashi T, Asakura T, Ono N, Ono M, Motomura N, Takamoto S: Impact of diabetic retinopathy on cardiac outcome after coronary artery bypass graft surgery prospective observational study. *Ann Thorac Surg* 2006; 81: 608-12
47. Kawata M, Takamoto S, Kitahori K, Tsukihara H Morota T, Ono M, Motomura N, Murakami A, Suematsu Y: Erythropoietin protects the central nervous system during prolonged hypothermic circulatory arrest an experimental study in a canine model. *J Thorac Cardiovasc Surg* 2006; 131: 1331-7
48. Uno K, Takenaka K, Asada K, Ebihara A, Sasaki K, Komuro A, Nagai R, Motomura N, Ono M, Takamoto S: Diagnosis of subacute cardiac rupture by contrast echocardiography. *J Am Soc Echocardiogr* 2006; 1.764583333



49. Morota T, Takamoto S, Kitamura T, Motomura N, Ono M: Clinical experience with cryopreserved allografts for aortic infection. *J Jpn Coll Angiol* 2006; 46: 817-822
50. Ohno T, Ando J, Ono M, Morita T, Motomura N, Hirata Y, Takamoto S: The beneficial effect of coronary-artery-bypass surgery on survival in patients with diabetic retinopathy. *Eur J Cardio-Thorac Surg* 2006; 30: 881-886
51. Taketani T, Nawata K, Motomura N, Ono M, Takamoto S: Images in cardiovascular medicine. Acute stenosis of porcine stentless bioprosthesis caused by infective endocarditis. *Circulation* 2006; 114: e567-8
52. Kawata M, Sekino M, Takamoto S, Ueno S, Yamaguchi S, Kitahori K, Tsukihara H, Suematsu Y, Ono M, Motomura N, Morota T, Murakami A: Retrograde cerebral perfusion with intermittent pressure augmentation provides adequate neuroprotection: diffusion -and perfusion- weighted magnetic resonance imaging study in an experimental canine model. *J Thorac Cardiovasc Surg* 2006; 132: 933-940
53. Kawata M, Takamoto S, Kitahori K, Tsukihara H, Morota T, Ono M, Motomura N, Murakami A, Suematsu Y: Intermittent pressure augmentation during retrograde cerebral perfusion under moderate hypothermia provides adequate neuroprotection an experimental study. *J Thorac Cardiovasc Surg* 2006; 132: 80-88
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55. Ono M, Takamoto S: Mitral valve surgery for mitral regurgitation with impaired left ventricular function. *Jpn J Clin Med* 2007; 65 Suppl 5: 236-42
56. Abe Y, Isoyama T, Saito I, Mochizuki S, Ono M, Nakagawa H, Taniguchi N, Mitsumune N, Sugino A, Mitsui M, Takiura K, Ono T, Kouno A, Chinzei T, Takamoto S, Imachi K: Development of mechanical circulatory support devices at the University of Tokyo. *J Artif Organs* 2007; 10: 60-70
57. Ohno T, Takamoto S, Motomura N, Ono M, Ando J, Morita T, Fujita H, Hirata Y, Nagai R, Shigeeda T, Hirose A: Coronary artery bypass grafting versus coronary implantation of sirolimus-eluting stents in patients with diabetic retinopathy. *Ann Thorac Surg* 2007; 84: 1474-1478
58. Takata Y, Kim H, Kobayashi E, Sakuma I, Ono M, Motomura N, Kyo S, Takamoto S: Local epicardial mapping for minimally invasive arrhythmia surgery. *Proc Asia Conf Comp Aid Surg* 2008; p42
59. Uno K, Takenaka K, Ebihara A, Nawata K, Hayashi N, Nagasaki M, Sonoda M, Ohno T, Ono M, Kyo S, Nagai R, Takamoto S: Value of live 3D transesophageal echocardiography in the diagnosis of mitral valve lesions. *Eur J Echocardiogr* 2008; 10: 350-351

60. Abe Y, Saito I, Isoyama T, Miura W, Shi W, Yamaguchi S, Inoue Y, Nakagawa H, Ono M, Kishi T, Ono T, Kouno A, Chinzei T, Imachi K: A nonpulsatile total artificial heart with 1/R control. *J Artif Organs* 2008; 11: 191-200
61. Masuzawa A, Ohno T, Takamoto S, Motomura N, Ono M, Fujita H, Ando J, Morita T, Hirata Y, Nagai R, Hirose A, Shigeeda T, Kato S, Araie M: In early diabetic retinopathy, risk of cardiac events after implantation of sirolimus-eluting stent is higher than after coronary artery bypass surgery. *J Cardiol* 53 2009; 53: 86-93
62. Shiga T, Kinugawa K, Hatano M, Yao, A, Nishimura T, Ono M, Hirata Y, Kyo S, Takamoto S, Nagai R: Preoperative clinical Profiles predict prognosis after left ventricular assist device implantation. *J Heart Fail* 2009; 15: S54
63. Ono M, Kyo S, Nishimura T, Ando M, Nawata K, Motomura N, Murakami A: Present status and future perspective of ventricular assist device implantation. What should we do now? *J Heart Fail* 2009; 15: S147
64. Yamazaki K, Saito S, Nishinaka T, Nakatani T, Kitamura S, Matsumiya G, Sawa Y, Nishimura T, Ono M, Kyo S: Japanese clinical trial results of new generation LVAE EVAHEART. *J Heart Fail* 2009; 15: S147
65. Kawashima D, Gojo S, Nishimura T, Ono M, Motomura N, Murakami A, Hatada K, Kyo S: The volume unloading effect of the Impella in AMI model. *J Heart Fail* 2009; 15: S170
66. Hatano M, Kinugawa K, Yao A, Shiga T, Masukawa Y, Hirata Y, Nishimura T, Ono M, Kyo S, Nagai R: Less frequency of aortic valve opening and continuous flow device cause aortic regurgitation in patients with left ventricular assist device. *J Heart Fail* 2009; 15: S170
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74. Kawashima D, Ohno T, Fujita H, Kato A, Kadowaki T, Araie M, Nagai R, Ono M, Motomura N, Murakami A, Takamoto S : Prevalence of vitreous hemorrhage following coronary revascularization among patients with diabetic retinopathy. *Circ J* 2010; 74 Suppl 1: 721
75. Kinoshita O, Nishimura T, Kawata M, Ando M, Kyo S, Ono M: Vacuum assisted closure with Safetac technology for mediastinitis in patients with ventricular assist device. *J Artif Organ* 2010; 13: 126-128
76. Seki S, Kato N, Ito N, Kinugawa K, Ono M, Motomura N, Yao A, Watanabe M, Imai Y, Takeda N, Inoue M, Hatano M, Kazuma K: Validity and reliability of Seattle angina questionnaire Japanese version in patients with coronary artery disease. *Asian Nursing Research* 2010; 4: 57-63
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78. Kashiwa K, Nishimura T, Kubo H, Tamai H, Baba A, Ono M, Takamoto S, Kyo S: Study of device malfunctions in patients with implantable ventricular assist devices living at home. *J Artif Organ* 2010; 13: 134-138
79. Shimizu T, Kyo S, Imanaka K, Nakaoka K, Nishimura E, Okumura T, Ishii M, Hisagi M, Nishimura T, Motomura N, Ono M, Takamoto S: A novel external counterpulsation system for coronary artery disease and heart failure-pilot studies and initial clinical experiences. *J Artif Organ* 2010; 13: 161-169
80. Hisagi M, Nishimura T, Ono M, Gojo S, Nawata K, Kyo S: New pre-clotting method for fibrin glue in a non-sealed graft used in an LVAD-the KYO method. *J Artif Organ* 2010; 13: 174-177
81. Ono M, Kyo S, Nishimura T, Hisagi M, Nawata K, Kinoshita O: How do we construct an ideal infrastructure for increasing demand of implantable ventricular assist device? *J Cardiac Fail* 2010; 16: S144
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85. Shimada S, Motomura N, Kinoshita O, Saito A, Kasuga J, Matsusaka Y, Kawabata J, Kuwabara C, Fujikawa S, Ono M: Successful introduction of novel supercoolant, Kaempferol 7-O-beta-D-glucopyranoside (KF7G), to sub-zero non-freezing rat heart preservation. *Low Temp Med* 2010; 36: 20-24
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90. Minegishi S, Kitahori K, Murakami A, Ono M: Mechanism of pressure-overload right ventricular hypertrophy in infant rabbits. *Int Heart J* 2011; 52: 56-60
91. Ando M, Nishimura T, Takewa Y, Ogawa D, Yamazaki K, Kashiwa K, Kyo S, Ono M, Taenaka Y, Tatsumi E: What is the ideal off-test trial for continuous-flow ventricular-assist- device explantation? Intracircuit back-flow analysis in a mock circulation model. *J Artif Organ* 2011; 14: 70-73
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93. Kim H, de Lange P, Ando T, Joung S, Taniguchi K, Liao H, Kyo S, Ono M, Takamoto S, Kobayashi E, Sakuma I: Image-based electrode array tracking for epicardial electro- physiological mapping in minimally invasive arrhythmia surgery. *Int J Comput Assist Radiol Surg* 2011; 6: 83-92

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Device for Patients With Advanced Heart Failure. *Circ J.* 2022 Apr 5. doi: 10.1253/circj.CJ-21-0880. Epub ahead of print. PMID: 35387921.

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### **International Congress presentations**

1. Ono M, Kotsuka Y, Yagyū K, Hirata H, Kubota H, Takeshita M, Furuse A: Postoperative hemodynamic studies after valvuloplasty for mitral regurgitation in adults. 22<sup>nd</sup> World Congress of the International Society for Cardiovascular Surgery. Sept 1995, Kyoto, Japan
2. Ono M, Nakajima J, Lee MC, Kawauchi M, Kotsuka Y, Furuse A: Human cytokine response to cardiac surgery and its influence on the postoperative course. 5<sup>th</sup> Annual Meeting of Asian Society for Cardiovascular Surgery, Jan 1997, Taipei, Taiwan
3. Ono M, Nakajima J, Lee MC, Kawauchi M, Kotsuka Y, Takamoto S: Influence of cryopreservation on immunogenicity of human vascular endothelial cell (Oral). 17<sup>th</sup> World Congress of The Transplantation Society. July 1998, Montreal, Canada
4. Ono M, Nakajima J, Lee MC, Ueno K, Kawauchi M, Kotsuka Y, Takamoto S: Influence of cryopreservation on antigen expression and immunogenicity of human vascular endothelial cell (Poster). 17<sup>th</sup> Annual Meeting of American Society of Transplant Physicians. May 1998, Chicago, USA
5. Ono M, Nakajima J, Lee MC, Kawauchi M, Kotsuka Y, Furuse A: Cytokine response to operations for acute and chronic aortic dissection. 13<sup>th</sup> Biennial Asian Congress on Thoracic and Cardiovascular Surgery. June 1997, Sydney, Australia
6. Ono M, Nakajima J, Lee MC, Hirata K, Kobayashi J, Kawauchi M, Kotsuka Y, Takamoto S, Furuse A: Influence of cryopreservation on human vascular endothelial cell immunogenicity. 5<sup>th</sup> Congress of the Asian Society of Transplantation. May 1997, Manila, Philippines
7. Ono M, Kohno T, Kawauchi M, Kotsuka Y, Takamoto S: A successful repair of the ruptured thoracoabdominal aortic aneurysm. 6<sup>th</sup> Annual Meeting of the Asian Society for Cardiovascular Surgery. March 1998, Tokyo, Japan

8. Ono M, Takamoto S, Morota T, Kubota H, Kotsuka Y: Effect of steroid on cytokine production and postoperative course in arch replacement with deep hypothermic circulatory arrest (Poster). Aortic Symposium VIII. May 2002, New York
9. Ono M, Wolf RK, Angoulas D, Schneeberger EW: Clinical trial of LIMA-LAD anastomosis using new suture-clip device (Plenary). 4<sup>th</sup> Annual Scientific Meeting of the International Society for Minimally Invasive Cardiac Surgery. June 2001, Munich Germany
10. Ono M, Wolf RK, Schneeberger EW, Brown DA, Michler RE: Robotically assisted internal thoracic artery mobilization-initial experience in the USA. 3<sup>rd</sup> Annual Scientific Meeting of International Society for Minimally Invasive Cardiac Surgery. June 2000, Atlanta, USA
11. Ono M, Wolf RK, Brown DA, Glodstein AH, Michler RE: Short- and long-term results of open heart surgery in patients with abdominal solid organ transplant (Oral). Sept 2001, Lisbon, Portugal
12. Ono M, Wolf RK, Flege JB, Glodstein, Brown DA, Michler RE: Redo minimally invasive direct coronary artery bypass. 4<sup>th</sup> Annual Scientific Meeting of International Society for Minimally Invasive Cardiac Surgery. June 2001, Munich, Germany
13. Ono M, Wolf RK, Takamoto S: CABG without CPB in patients with impaired left ventricular function. 10<sup>th</sup> Annual Meeting of Asian Society for Cardiovascular Surgery. April 2001, Jeju, Korea
14. Ono M., Takamoto S., Morota T., Motomura N., Shibata K., Murakami A., Kotsuka Y.: Aortic root replacement: Evolving techniques and indications. 12<sup>th</sup> Annual Meeting of the Asian Society for Cardiovascular Surgery. Istanbul Turkey, April 2004
15. Ono M, Morota T, Motomura N, Yamamoto T, Saito A, Kawata M, Nawata K, Takamoto S: Aortic root replacement: indications and long-term results in various aortic root pathologies. 15<sup>th</sup> Annual Meeting of Asian Society for Cardiovascular Surgery. May 2007, Beijing, China
16. Ono M, Kyo S, Suematsu Y, Ohno T, Motomura N, Takamoto S: Improved long-term results of Toyobo-NCVC paracorporeal ventricular assist device. 45<sup>th</sup> Annual Meeting of the Japanese Society of Artificial Organs and 2<sup>nd</sup> Meeting of the International Federation for Artificial Organs. October 2007, Osaka
17. Ono M, Kyo S, Nishimura T, Suematsu Y, Ono T, Motomura N, Takamoto S: Long-term results of Toyobo-NCVC paracorporeal ventricular assist device. 16<sup>th</sup> Annual Congress of the Asian Society for Cardiovascular and Thoracic Surgery. March 2008, Singapore
18. Ono M, Kyo S, Suematsu Y, Ohno T, Takamoto S: Future perspective of treatment of end-stage heart failure using ventricular assist device. 72<sup>nd</sup> Annual Scientific Meeting of Japanese Circulation Society. March 2008, Fukuoka

19. Ono M, Kyo S, Nishimura T, Nawata k, Ohno T, Shimizu T, Gojo S, Motomura N, Takamoto S: Future perspective of treatment of end-stage heart failure-How to step forward. 73<sup>rd</sup> Annual Scientific Meeting of Japanese Circulation Society. March 2009, Osaka
20. Ono M, Kyo S, Nishimura T, Takamoto S: Roles of Toyobo- NCVC paracorporeal ventricular assist device in the era of implantable device. 73<sup>rd</sup> Annual Scientific Meeting of Japanese Circulation Society. March 2009, Osaka
21. Ono M, Morota T, Nawata K, Motomura N, Taketani T, Masuzawa A, Takamoto S: Aortic root replacement in recent 25 years. 17<sup>th</sup> Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery. March 2009, Taipei, Taiwan
22. Ono M, Motomura N, Saito A, Kawata M, Hisagi M, Itoda Y, Kyo S: Surgery for atrial fibrillation using cryoablation. 36<sup>th</sup> Annual Meeting of the Japanese Society for Low Temperature Medicine & Joint World Conference of Cryomedicine Update 2009. Nov 2009, Tokyo
23. Ono M, Nishimura T, Saito A, Nawata K, Kawata M, Hisagi M, Motomura N, Kyo S: Bilateral papillary muscle elevation is effective for treatment of severe functional mitral valve regurgitation in dilated cardiomyopathy. 18<sup>th</sup> Annual Meeting of The Asian Society for Cardiovascular & Thoracic Surgery. Feb 2010, New Delhi, India
24. Ono M, Shimizu T, Nawata K, Saito A, Motomura N, Murakami A, Kyo S: Routine use of bilateral papillary muscle elevation for surgical treatment of functional mitral valve regurgitation in dilated cardiomyopathy. 74<sup>th</sup> annual Scientific Meeting of Japanese Circulation Society. March 2010, Kyoto, Japan
25. Ono M, Nishimura T, Kinoshita O, Inafuku H, Okada S, Motomura N, Kyo S: Proper patient selection, timing and device type are keys of success in ventricular assist device treatment for end-stage heart failure. 20<sup>th</sup> Annual Scientific Meeting of Asian Society for Cardiovascular and Thoracic Surgery. March 2012, Bali, Indonesia
26. Ono M, Nishimura T, Kinoshita O, Inafuku H, Okada S, Shiga T, Kinugawa K, Nagai R, Kyo S: What Should We Do for Appropriate Dissemination of Implantable Ventricular Assist Device Treatment? 76<sup>th</sup> Annual Scientific Meeting of the Japanese Circulation Society. March 2012, Fukuoka
27. Ono M, Nishimura T, Kinoshita O, Kimura M, Saito A, Motomura N, Kyo S : Present status and future perspective of ventricular assist device for advance heart failure. 112<sup>th</sup> Annual Scientific Meeting of Japan Surgical Society International Meeting. April 2012, Makuhari
28. Ono M, Nishimura T, Kinoshita O, Inafuku H, Okada S, Imamura T, Shiga T, Kinugawa K, Nagai R, Kyo S: Superior Survival in Patients with Continuous Flow Ventricular Assist Device for Bridge to

- Transplantation. 24<sup>th</sup> International Congress of The Transplantation Society. July 2012, Berlin, Germany
29. Ono M, Itoda Y, Panthee N, Ando T, Sakuma I: A new suture device for distal coronary artery bypass surgery. 2013 Annual Meeting of International Society for Minimally Invasive Cardiothoracic Surgery. June 2013, Prague, Czech Republic
  30. Ono M, Kinugawa K, Kinoshita O, Kimura M, Imamura T, Endo M, Kagami Y, Kyo S, Komuro I: Heart transplantation in patients on long-term left ventricular assist device support. 13<sup>th</sup> Congress of the Asian Society of Transplantation. Sept 2013, Kyoto
  31. Ono M, Kinugawa K, Kinoshita O, Kimura M, Imamura T, Endo M, Kagami Y, Kyo S, Komuro I: Long term results of heart transplantation utilizing the heart from marginal donors. 13<sup>th</sup> Congress of the Asian Society of Transplantation. Sept 2013, Kyoto
  32. Ono M: Pediatric mechanical circulatory support in Japan. 5<sup>th</sup> Congress of International Federation for Artificial Organs. Sept 2013, Yokohama
  33. Ono M: Highlights from JSAO 2013 Meeting. 5<sup>th</sup> Congress of International Federation for Artificial Organs. Sept 2013, Yokohama
  34. Ono M, Kinugawa K, Nawata K, Kinoshita O, Kimura M, Hatano M, Imamura T, Komuro I, Kyo S: Progress in surgical treatment of end-stage heart failure. 78<sup>th</sup> Annual Scientific Meeting of Japanese Circulation Society. March 2014, Tokyo
  35. Ono M, Itoda Y, Panthee N, Ando T, Sakuma I: A new suture for distal coronary artery anastomosis which eliminates knot-tying. 2014 Annual Scientific Meeting of International Society for Minimally Invasive Cardiothoracic Surgery (Poster Award). June 2014, Boston, USA
  36. Ono M, Sawa Y, Nakatani T, Tominaga R, Matsui Y, Yamazaki K, Saiki Y, Niinami H, Matsumiya G, Arai H: Japanese Multi-Center Outcomes With the HeartMate II in the Post-Approval Era: Focusing on Results in Patients With Small Body Size. 35<sup>th</sup> Annual Meeting and Scientific Sessions of International Society for Heart and Lung Transplantation. April 2015, Nice, France
  37. Ono M., Nawata K., Kinoshita O., Yamauchi H., Itoda Y., Hoshino Y. and Kimura M.: Long Term Results of Implantable Ventricular Assist Device for Bridge to Transplantation. 23<sup>rd</sup> Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery. May 2015, Hong Kong
  38. Ono M, Nawata K, Kinoshita O, Kimura M, Imamura T, Kinugawa K: Small body size is not a predictor of worse survival or high complication rate of current implantable ventricular assist devices. 23<sup>rd</sup> Annual Congress of the International Society for Rotary Blood Pumps. Sept 2015, Dubrovnik, Croatia

39. Ono M, Nawata K, Kinoshita O, Yamauchi H, Itoda Y, Hoshino Y, Yoshitake S: LONG-TERM RESULT OF 95 CASES OF CONTINUOUS-FLOW LVAD. 24<sup>th</sup> Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery. April 2016, Taipei, Taiwan
40. Ono M, Nawata K, Yamauchi H, Kinoshita O, Imamura T, Amiya E, Hatano M: Improving long-term results of mechanical circulatory support in crash-and-burn patients. 3<sup>rd</sup> World Congress on Acute Heart Failure. May 2016, Florence, Italy
41. Ono M, Nawata K, Yamauchi H, Kinoshita O, Kimura M, Nitta D, Imamura T, Amiya E, Hatano M: Is perfect long-term results of continuous-flow LVAD for bridge to transplantation possible? 26<sup>th</sup> International Congress of The Transplantation Society. Aug 2016, Hong-Kong, China
42. Ono M, Nawata K, Yamauchi H, Kinoshita O, Kuroko Y, Hiraiwa N: Long-term results of continuous-flow left ventricular assist device for bridge to transplantation (Graham Award finalist). 25<sup>th</sup> Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery. March 2017, Seoul, South Korea
43. Ono M, Sawa Y, Fukushima N, Saiki Y, Shiose A, Matsumiya G, Arai H: Pump Thrombosis in Japanese Patients with HeartMate II Continuous-Flow LVAD. 37<sup>th</sup> Annual Meeting and Scientific Sessions of International Society for Heart and Lung Transplantation. April, 2017, San Diego, USA
44. Ono M, Fukushima N, Hirata Y, Ichikawa H, Kaneko Y, Sakamoto K, Sawa Y, Suzuki T : Long-term Results of Berlin Heart EXCOR Pediatric Implantation in Japan. ISHLT 38th Annual Meeting and Scientific Sessions. Apr 2018, Nice, France
45. Ono M, Nawata K, Kinoshita O, Yamauchi H, Shimada S, Kimura M, Ando M, Itoda Y, Komae H, Hoshino Y: Is biventricular support necessary for advanced heart failure? 27th Annual Conference of the Asian Society for Cardiovascular and Thoracic Surgery. Chennai, India, February 2019
46. Ono M, Kinoshita O, Kimura M, Yamauchi H, Shimada S, Ando M, Hatano M, Amiya E, Komuro I: Does body size affect a successful bridge to heart transplantation by long-term continuous-flow ventricular assist device support? 2020 Annual Meeting of The Transplantation Society. Sept 16, 2020
47. Ono M, Kinoshita O, Kimura M, Ando M, Yamauchi H, Shimada S, Itoda Y: Does body size or left ventricular size affect the outcome of continuous-flow ventricular assist device implantation? 41<sup>st</sup> Annual Scientific Meeting of International Society for Heart and Lung Transplantation. Web, April 2021
48. Ono M, Kinoshita O, Ando M, Gyoten T, Ishida J, Amiya E, Hatano M: Excellent long-term survival after weaning from durable ventricular assist device. 42<sup>nd</sup> Annual Scientific Meeting of International Society for Heart and Lung Transplantation (Mini Oral). April 2022, Boston, USA

### **Invited lectures (International)**

1. Ono M: JSAO2013 highlights in IFAO session. 41<sup>st</sup> Meeting of European Association for Artificial Organs. Sept 2014, Rome, Italy
2. Ono M: Heart transplantation and ventricular assist device: Present status and future perspective. Invited lecture at TEDA International Cardiovascular Hospital. Dec 2014, Tianjin, China
3. Ono M: Clinical experience and device selection at The University of Tokyo Hospital. Invited lecture at Sharp Memorial Hospital. March 2015, San Diego, USA
4. Ono M: Heart transplantation and ventricular assist device: Present status and future perspective. Invited lecture at Tongji University. April 2015, Shanghai, China
5. Ono M: Present status of continuous-flow ventricular assist device in Japan-Report from J-MACS. 42<sup>nd</sup> Congress of the European Society for Artificial Organs (Plenary). Sept 3, 2015, Leuven, Belgium
6. Ono M: LVAD implants in small BSA patients. BRANO Heart Failure Forum 2015. Sept 2015, Budapest, Hungary
7. Ono M: Results of Continuous Flow LVAD Implantation in Japan – Report from J-MACS. 2015 Annual Conference of the Asia-Pacific Society for Artificial Organs, Seoul, South Korea, October 24, 2015
8. Ono M: Current trends in surgical management of heart failure. 2016 Annual Meeting of Cardiac Society of Nepal. Aug 2016, Kathmandu, Nepal
9. Ono M: Treatment by Continuous-flow Left Ventricular Assist Devices in Japan: Excellent Long-term Results and Unique Distribution of Late Complications. 24<sup>th</sup> Congress of the International Society for Rotary Blood Pumps (ISRBP 2016) Special Lecture. Sept 2016, Mito, Japan
10. Ono M: Japanese Berlin Heart EXCOR pediatric experience: What can we learn from latest study results? Berlin Heart Lecture Meeting. Oct 2016, Barcelona, Spain
11. Ono M: HeartMate II and HeartMate 3, Focusing on small patients. Korean Society for Thoracic and Cardiovascular Surgery. Oct 20, 2016. Degu, South Korea
12. Ono M: Japanese multicenter clinical trial of Berlin Heart EXCOR Pediatric ventricular assist device. 25<sup>th</sup> Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery. March 2017, Seoul, South Korea

13. Ono M: Analytic reports from J-MACS: Focusing on the differences from the results of other VAD registries. 44<sup>th</sup> Annual Meeting of European Society for Artificial Organs and 7<sup>th</sup> Congress of International Federation of Artificial Organs. Sep 2017, Vienna, Austria
14. Ono M: When is the right time for referral for pediatric ventricular assist device? 2<sup>nd</sup> Asian-Pacific MCS Conference 2017. Oct 2017, Singapore, Singapore
15. Ono M: When a Checklist is not Enough: How to Improve Them and What Else is Needed? 99<sup>th</sup> Annual Meeting of American Association for Thoracic Surgery. May 2019, Toronto, Canada
16. Ono M: Current status of mechanical circulatory support for advanced heart failure in Japan. International Joint Meeting on Cardiovascular Disease. Sept 2019, Mibu, Japan
17. Ono M: How to manage post-transplant graft failure and cardiac dysfunction. 1<sup>st</sup> Annual Congress of Indian Society for Heart and Lung Transplantation. Oct 2019, New Delhi, India
18. Ono M: Japanese Experience of Heart Transplantation and LVADs. 1<sup>st</sup> Annual Congress of Indian Society for Heart and Lung Transplantation. Oct 2019, New Delhi, India
19. Ono M: Analytic reports from J-MACS: Recent report based on 1000 implants. 27<sup>th</sup> Annual Meeting of International Society for Mechanical Circulatory Support. Oct 2019, Bologna, Italy
20. Ono M: Post-implant patient management. Tips and pitfalls. 2020 Annual Meeting of Korean Heart Failure Society, Web, Sept 27, 2020
21. Ono M: Advanced heart failure treatment during COVID-19 in Japan. 4<sup>th</sup> Daegue Advanced Heart Failure Symposium. Web, Jan 30, 2021
22. Ono M: Patient selection and preoperative optimization. MCS Seminar to India 1. Web, June 30, 2021
23. Ono M: HeartMate 3 surgical tips and tricks. MCS Seminar to India 2. Web, July 2, 2021
24. Ono M: HeartMate 3 patient management from postop to discharge. MCS Seminar to India 3. Web, July 7, 2021