

CURRICULUM VITAE

Name: Takuro Tsukube

Sex: Male

Birth Date: August 23, 1960

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Marital Status: Married

Present Address: 5-3-3 Mikageyamate Higashinada-ku, Kobe, Japan 658-0065

Education:

- 1985 M.D. Kobe University, School of Medicine
- 1992 Ph.D. Kobe University, School of Medicine
- 2012 M.B.A, Kobe University, Graduate School of Business Administration
- 2020 Doctor of Business Administration, Hokkaido University, Faculty of Economics and Business

Professional Training and Employment:

- 1985-1986 Resident in Surgery, Division II, Kobe University
- 1986-1987 Resident in Surgery, Awaji Hospital, Sumoto, Hyogo
- 1987-1988 Resident in Cardiothoracic Surgery, Kobe Children's Hospital, Kobe, Hyogo
- 1988-1992 Student of Postgraduate School in Surgery, Division II, Kobe University
- 1992-1994 Research Fellow in Division of Cardiothoracic Surgery, New England Deaconess Hospital, Harvard Medical School,
- 1994-1995 Clinical Fellow in Surgery, Division II, Kobe University
- 1995.1-10 Research Fellow in Surgery, Division II, Kobe University and Clinical Instructor in Surgery, Joyo-Ejiri Hospital, Himeji, Hyogo
- 1995.11-12 Clinical Fellow in Surgery, Division II, Kobe University
- 1996.1-1998.1 Clinical Fellow in Division of Cardiothoracic Surgery, Beth Israel Deaconess Medical Center, West Campus, Harvard Medical School
- 1998.1-2 Clinical Fellow in Surgery, Division II, Kobe University
- 1998.3-2003.6 Assistant Professor of Surgery, Division of Cardiovascular, Thoracic and Pediatric Surgery,

Kobe University, Graduate School of Medicine

- 1998.12 Visiting Assistant Professor of Surgery,
Harvard Medical School
- 2003.7- Chief, Division of Cardiovascular Surgery,
Japanese Red Cross Kobe Hospital & Hyogo Emergency Medical Center
- 2013.5- Lecturer, Graduate School of Medicine, Kobe University
- 2014.4- Director, Center of Cardiovascular Disease
Japanese Red Cross Kobe Hospital & Hyogo Emergency Medical Center
- 2014.4- Clinical Professor, Division of Cardiovascular Surgery, Graduate School of
Medicine, Kobe University
- 2019.7- Lecturer, Graduate School of Business Administration, Kobe University
- 2021.4- Vice President & Chief in Division of Cardiovascular Surgery,
Japanese Red Cross Kobe Hospital

Licensure and Certification:

- 1985 Japanese National Board of Medicine No. 291119
- 1989 Japanese Board of Surgery No. 4398
- 1994 Educational Commission for Foreign Medical Graduates (ECFMG)
No.0-478-626-5
- 1995 Japanese Board of Thoracic Surgery No. 3183
- 1995 Board of Registration in Medicine, Commonwealth of Massachusetts
No. 95-3552-96
- 1995 Japanese Board of Cardiology No 113061
- 2002 Japanese Board of Cardiovascular Surgery No.5100822

Memberships of Societies:

- 1985 Japanese Society of Surgery
- 1985 Japanese Association of Thoracic Surgery
- 1986 Japanese Circulation Society
- 1988 Japanese Society of Cardiovascular Surgery
- 2009 American Heart Association. Member
Council on Cardiovascular Surgery and Anesthesia - Council Member
Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation
- 2012 Fellow, American Heart Association
- 2013 Member, Asian Society of Cardio Thoracic and Vascular Surgery
- 2014 Member, Society of Thoracic Surgeons

I affirm that the above statement is true and correct in every respect.

July 15, 2022

Takuro Tsukube M.D., Ph.D. DBA

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- 1 Ota T, Tsukube T, Matsuda H, Iwahashi K, Okada M: Effect of mitral valve surgery on severely impaired pulmonary function. *Thorac Cardiovasc Surg* 42: 94-9, 1994
- 2 Tsukube T, Okada M, Mukai T, Kashem MA, Ota T: Effect of dynamic cardiomyoplasty on phasic coronary arterial flow velocity in canine hearts. *J Thorac Cardiovasc Surg* 108:609-15, 1994
- 3 Tsukube T, McCully JD, Faulk EA, Federman M, LoCicero J 3rd, Krukenkamp IB, Levitsky S: Magnesium cardioplegia reduces cytosolic and nuclear calcium and DNA fragmentation in the senescent myocardium. *Ann Thorac Surg* 58: 1005-11, 1994
- 4 McCully JD, Tsukube T, Ataka K, Krukenkamp IB, Feinberg H, Levitsky S. Myocardial cytosolic calcium accumulation during ischemia/reperfusion: the effects of aging and cardioplegia. *J Card Surg.* 1994 9: 449-52
- 5 Faulk EA, McCully JD, Tsukube T, Hadlow NC, Krukenkamp IB, Levitsky S: Myocardial mitochondrial calcium accumulation modulates nuclear calcium accumulation and DNA fragmentation. *Ann Thorac Surg.* 60: 338-44, 1995
- 6 Ota T, Iwahashi K, Matsuda H, Tsukube T, Ataka K, Okada M: Reduction of left ventricular hypertrophy with St. Jude Medical 19 mm valve prosthesis. *Angiology.* 46: 981-7, 1995
- 7 Faulk EA, McCully JD, Hadlow NC, Tsukube T, Krukenkamp IB, Federman M, Levitsky S: Magnesium cardioplegia enhances mRNA levels and the maximal velocity of cytochrome oxidase I in the senescent myocardium during global ischemia. *Circulation* 92: II405-12, 1995
- 8 Tsukube T, McCully JD, Federman M, Krukenkamp IB, Levitsky S: Developmental differences in cytosolic calcium accumulation associated with surgically induced global ischemia: optimization of cardioplegic protection and mechanism of action. *J Thorac Cardiovasc Surg* 112 : 175-84, 1996
- 9 Tsukube T, McCully JD, Metz KR, Cook CU, Levitsky S: Amelioration of ischemic calcium overload correlates with high-energy phosphates in senescent myocardium. *Am J Physiol* 273: H418-25, 1997
- 10 Ootaki Y, Okada M, Tsukube T, Okita Y. The effect of cardiomyoplasty on left atrial function in experimental canine models. *Chest* 119: 1526-32, 2001
- 11 Tsukube T, Ataka K, Sakata M, Wakita N, Okita Y: Surgical treatment of an aneurysm in the right aortic arch with aberrant left subclavian artery. *Ann Thorac Surg* 71: 1710-1, 2001

- 12 Tsukube T, Kawanishi Y, Murakami M, Hino Y, Matsukawa R, Ozaki N, Okada K, Matsuda H, Wakita N, Nishiwaki M, Okita Y: Reconstruction of right ventricular outflow tract with stentless xenografts in Ross procedure. *Artificial Organs* 2002, 26; 1055-9
- 13 Tsukube T, Yoshimura M, Matsuda H, Okada K, Matsukawa R, Hino Y, Murakami H, Kawanishi Y, Okita Y: Rib-cross thoracotomy for replacement of the thoracoabdominal or total descending aorta. *J Vasc Surg* 37: 219-21, 2003
- 14 Ejiri J, Inoue N, Tsukube T, Munezane T, Hino Y, Kobayashi S, Hirata K, Kawashima S, Imajoh-Ohmi S, Hayashi Y, Yokozaki H, Okita Y, Yokoyama M: Oxidative stress in the pathogenesis of thoracic aortic aneurysm: protective role of statin and angiotensin II type 1 receptor blocker. *Cardiovasc Res* 59: 988-96, 2003
- 15 Matsuda H, Tanaka Y, Hino Y, Matsukawa R, Ozaki N, Okada K, Tsukube T, Tsuji Y, Okita Y: Transbrachial arterial insertion of aortic occlusion balloon catheter in patients with shock from ruptured abdominal aortic aneurysm. *J Vasc Surg* 38: 1293-6, 2003
- 16 Murakami H, Tsukube T, Kawanishi Y, Okita Y: Transcranial myogenic motor-evoked potentials after transient spinal cord ischemia predicts neurologic outcome in rabbits. *J Vasc Surg* 39: 207-13, 2004 IF=2.980 CI=9
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- 18 Yamaguchi M, Sugimoto K, Tsukube T, Mori T, Kawahira T, Hayashi T, Nakamura M, Kawasaki R, Sandhu RS, Sugimura K, Kozawa S, Okita Y: Curved nitinol stent-graft placement for treating blunt thoracic aortic injury: an early experience. *Ann Thorac Surg* 86: 780-6, 2008
- 19 Tsukube T, Hayashi T, Kawahira T, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K, Okita Y: Neurological outcomes after immediate aortic repair for acute type A aortic dissection complicated by coma. *Circulation* 124: S163-7, 2011
- 20 Hayashi T, Tsukube T, Yamashita T, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K, Okita Y: Impact of controlled pericardial drainage on critical cardiac tamponade with acute type A aortic dissection. *Circulation* 126: S97-101, 2012
- 21 Tsukube T, Haraguchi T, Okada Y, Matsukawa R, Kozawa S, Ogawa K, Okita Y: Long-term outcomes after immediate aortic repair for acute type A aortic dissection complicated by coma. *J Thorac Cardiovasc Surg* 148, 1013-9, 2014

- 22 Hoshino M, Uesugi K, Tsukube T, Yagi N. Quantitative and dynamic measurements of biological fresh samples with X-ray phase contrast tomography. *J Synchrotron Radiat.* 21:1347-57, 2014
- 23 Tsukube T, Haraguchi T, Okada Y, Matsukawa R, Kozawa S, Ogawa K, Okita Y. Long-term outcomes after immediate aortic repair for acute type A aortic dissection complicated by coma. *J Thorac Cardiovasc Surg.* 148:1013-8, 2014
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- 26 Tsukube T, Yagi N, Hoshino M, Nakashima Y, Nakagawa K, Okita Y. Impact of synchrotron radiation-based X-ray phase-contrast tomography on understanding various cardiovascular surgical pathologies. *Gen Thorac Cardiovasc Surg.* 63:590-2, 2015
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- 29 Tsukube T, Hoshino M, Yagi N. X-ray phase-contrast tomography opens new era for cardiovascular research. *Eur Heart J Cardiovasc Imaging.* 18:742-743, 2017.
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- 37 Yoshitake S, Kaneko Y, Morita K, Hoshino H, Nagashima M, Takahashi M, Anderson RH and on behalf of the SPring 8 Cardiovascular Structure Analyzing Research Group: Yoshitake S, Kaneko Y, Morishita H, Shinohara G, Morita K, Hoshino M, Iwaki R, Matsuhisa H, Oshima Y, Nagashima M, Takahashi M, Tsukube T. Reassessment of the location of the conduction system in atrioventricular septal defect using phase-contrast computed tomography. *Semin Thorac Cardiovasc Surg.* 32, 960-968, 2020
- 38 Tsukube T, Matsuo M. The impact of cognitive apprenticeship on the perceived growth of junior doctors. *Journal of Workplace Learning* 32, 489-499, 2020.
- 39 Matsuo M, Tsukube T. A review on cognitive apprenticeship in educational research: Application for management education. 18, 1-9, 2020
- 40 Nakai C, Izumi S, Haraguchi T, Henmi S, Nakayama S, Mikami T, Tsukube T. Impact of time from symptom onset to operation on outcome of repair of acute type A aortic dissection with malperfusion. *J Thorac Cardiovasc Surg*. Available online 9 April 2021.
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Yoshitake, Yukihiro Kaneko, Shuichi Shiraishi, Masashi Takahashi, Takuro Tsukube. Identification of the atrioventricular conduction axis and its positional relationship with anatomical landmarks of a heart with tricuspid atresia. *J Thorac Cardiovasc Surg. JTCVS Open* 2021; 8:557-60, 2021

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- 43 Izumi S, Nakai C, Haraguchi T, Henmi S, Mori T, Kinoshita M, Yamaguchi M, Sugimoto K, Nakayama S, Tsukube T. Retrospective study of thoracic endovascular aortic repair as a first-line treatment for traumatic blunt thoracic aortic injury. *Gen Thorac Cardiovasc Surg.* 70:16-23, 2022.
- 44 Henmi S, Izumi S, Mizoue R, Okita Y, Okada K, Tsukube T. Impact of High-Resolution Epi-aortic Ultrasonographic Imaging on Evaluating Aortic Wall Pathology. *Annals of Vascular Diseases Advance* Published Date: February 4, 2022.

(2) Case report

1. Tsukube T, Yamaguchi M, Hosokawa Y, Ohashi H, Oshima Y: A rare case of renovascular hypertension due to iatrogenic thoracoabdominal aortic dissection. A report of successful surgical treatment in childhood. *J Cardiovasc Surg* 31:753-5.1990
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6. Tsukube T, Ataka K, Taniguchi T, Yokoyama M, Hanioka K: Papillary fibroelastoma of the left atrial appendage: echocardiographic findings. *Ann Thorac Surg.* 70:1416-7.2000
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12. Ozaki N, Hino Y, Hanafusa Y, Yamashita T, Okada K, Tsukube T, Okita Y: Perforation of the Valsalva sinus after implantation of Medtronic Freestyle aortic bioprosthesis. *Ann Thorac Surg* 82: 2282-5, 2006
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(3) Book

1. McCully JD, Tsukube T, Krukenkamp IB, Levitsky S. Cytosolic calcium transport during myocardial protection In: Abd-Elfattah ASA, Wechsler AS ed. *Purines and myocardial protection.* p537-552 Kluwer Academic Publishers, Boston 1996

(4) Presentation in the International Scientific Meetings

1. Tsukube T, Okada M, Mukai T, Morimoto M, Yoshida M, Tsuji Y, Nakamura K: Experimental studies on microvascular dynamic cardiomyoplasty. 7th International Congress of Cardiostim Nice France, 1990
2. Tsukube T, Okada M, Mukai T, Kashem MA, Tsuji Y, Yoshida M, Ota T: Effect of dynamic cardiomyoplasty on coronary blood flow. 64th Scientific Sessions of American Heart Association, Anaheim, USA, 1991
3. Tsukube T, McCully JD, Krukenkamp IB, Levitsky S: Inhibition of cytosolic calcium accumulation using high potassium and magnesium cardioplegia. Mechanisms of action. 79th Annual Meeting of American College of Surgery, San Francisco, USA, 1993
4. Tsukube T, McCully JD, Faulk EA, Federman M, LoCicero J III, Krukenkamp IB, Levitsky S: Magnesium cardioplegia reduces cytosolic and nuclear calcium and DNA fragmentation in the senescent myocardium. 30th Annual Meeting of Society of Thoracic Surgeons, New Orleans, USA, 1994
5. Tsukube T, McCully JD, Faulk EA, Krukenkamp IB, Levitsky S: Magnesium cardioplegia reduces cytosolic and nuclear calcium and DNA fragmentation in the senescent myocardium. 1st International Symposium on

Myocardial Protection, Asheville, USA, 1994.

6. Tsukube T, McCully JD, Faulk EA, Krukenkamp IB, Levitsky S: Association of DNA aging and enhanced endonuclease activity in senescent ischemic intolerance. 80th Annual Meeting of American College of Surgery, Chicago, USA, 1994
7. Tsukube T, Ozaki N, Matsuda H, Okita Y: Reconstruction of right ventricular outflow tract with stentless xenografts (Freestyle®) in Ross procedure. 1st Biennial Meeting of the Society for Heart Valve Disease, London, GB, 2001
8. Tsukube T, Kawanishi Y, Hino Y, Matsukawa R, Okada K, Matsuda H, Okita Y: Reconstruction of Right Ventricular Outflow Tract with Stentless Porcine Aortic Xenografts in Ross Procedure. 10th Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery, Jeju Island, Korea, 2002
9. Tsukube T, Hayashi T, Kawahira T, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K: Aortic repair for acute type A aortic dissection complicated by coma - Impact of time from onset on neurological outcome. Scientific Sessions 2009 of American Heart Association, Orlando, USA, 2009
10. Tsukube T, Hayashi T, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K, Okita Y: Late outcomes following immediate aortic repair for acute type A aortic dissection complicated by coma. Scientific Sessions 2010 of American Heart Association, Chicago, USA, 2010
11. Hayashi T, Tsukube T, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K, Okita Y: Impact of preoperative percutaneous pericardial drainage on critical tamponade with acute type A aortic dissection. Scientific Sessions 2011 of American Heart Association, Anaheim, USA, 2011
12. Tsukube T, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K: Long-term outcomes following immediate aortic repair for acute type A aortic dissection complicated by coma. 21st Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery, Kobe, Japan, 2013
13. Tsukube T, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K: Bridge-use of aortic stent-graft for blunt traumatic aortic injury in the younger patients. 21st Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery, Kobe, Japan, 2013.
14. Haraguchi T, Tsukube T, Matsukawa R, Kozawa S, Ogawa K: Limited indication of thoracic endovascular aortic repair for aorto-esophageal fistula. 21st Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery, Kobe, Japan, 2013
15. Haraguchi T, Tsukube T, Matsukawa R, Kozawa S, Ogawa K: Long-term Outcomes Following Aortic Valve Resuspension During Aortic Repair for Acute Type A Aortic Dissection. 7th Biennial Congress of the Society of Heart Valve Disease, Venice, Italy, 2013
16. Tsukube T, Yagi N, Hoshino M, Nakashima Y, Nakagawa K, Nakamae K, Haraguchi T, Matsukawa R, Kozawa S, Ogawa K, Okita Y: Synchrotron phase-contrast x-ray microtomography findings in aortic wall of

acute aortic dissection and their clinical significance. AATS Aortic Symposium 2014, New York, USA, 2014.

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18. Nakashima Y, Nakagawa K, Tsukube T, Hoshino M, Yagi N: Pathology of aortic dissection. Structural changes in the layers of the tunica media. 7th World Congress of Biomechanics, Boston, USA, 2014
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27. Nakai C, Haraguchi T, Okada Y, Nakayama S, Nakayama H, Tsukube T. Acute Type A Aortic Dissection with Cardiopulmonary Arrest at Presentation. European Society of Cardiology 2018, Munique, Germany,

2018

28. Yamamoto T, Okada K, Seto T, Wada Y, Yagi N, Hoshino M, Nakashima Y, Nakagawa K, Tsukube T. Mechanism of aneurysm expansion after endovascular aortic repair analyzed with X-ray phase-contrast tomography. Scientific Sessions 2018 of American Heart Association, New Chicago USA 2018.
29. Takuro Tsukube, Koki Yokawa, Masato Hoshino, Kentaro Uesugi, Naoto Yagi Yutaka Okita. Synchrotron-based 4D-X-ray Phase Tomography of fresh chordae tendineae of mitral valve. 2019 AATS Mitral Conclave, New York, USA, 2019.
30. Takuro Tsukube, Masato Hoshino, Naoto Yagi. Cardiovascular Imaging at SPring-8. 1st workshop on cardiovascular X-ray phase-contrast imaging, Barcelona, Spain, 2019.
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