

Profile

NAME: **KAWAUCHI**

MOTOHIRO

(surname)

(given name)

PRESENT POSITION

Director General, Cardiovascular Rehabilitation,

Itabashi Rehabilitation Hospital, Tokyo, Japan

ACADEMIC APPOINTMENTS:

Invited Professor,

The Center for Advanced Medical Engineering and Informatics

The Osaka University, Osaka, Japan

2008-present

SEX: Male

DATE OF BIRTH: January 06,1954

PLACE OF BIRTH: Tokyo, Japan

COUNTRY OF CITIZENSHIP: Japan

PRE-MEDICAL EDUCATION:

UNIVERSITY: The University of Tokyo, Tokyo, Japan

DATE OF ATTENDANCE: April 1, 1972-March 30,1971

MEDICAL EDUCATION:

SCHOOL: School of Medicine, The University of Tokyo, Tokyo, Japan

DATE OF ATTENDANCE: April 1, 1974-March 30,1978 :

DEGREE: Igakushi (Medical Doctor)

Thesis:

Acute Hemodynamic Changes Following Mitral Valve Surgery

University: The University of Tokyo, Japan

DATE : March 12, 1986,

DEGREE: Doctor of Philosophy

POST-GRADUATE EXPERIENCE:

June, 1978-November, 1979: University .of Tokyo Hospital

June, 1978-June, 1992: Member, Miyashita Scientific Committee, Japan
Amateur Swimming Federation

December, 1979-September, 1981:Asahi General Hospital (Affiliate Hospital of
The University of Tokyo), Chiba, Japan

October, 1981-September, 1982:The Sakakibara Heart Institute, Tokyo, Japan

October, 1982-December, 1985:The University of Tokyo Hospital

January, 1986-December, 1986: Cardiovascular Surgery, The Japanese Red
Cross Medical Center, Tokyo, Japan

January, 1987-July, 1989 : The University of Tokyo Hospital

August, 1989-December 1991: Loma Linda University Medical Center, Californi,
USA

"Fellow in Cardiothoracic Surgery and Transplantation research"

(August, 1989-June, 1990: Research in Cardiothoracic Surgery)

(July, 1990-December 1991: Medical trainee in
ECFMG advanced short-term training course)

January, 1992-January, 1994: The University of Tokyo Hospital

February, 1994-March, 1999: Assistant Professor,
Thoracic and Cardiovascular Surgery, The University Tokyo Hospital

April, 1999-August, 2004: Chief, Cardiovascular Surgery, Japan Railway Tokyo
General Hospital, Tokyo, Japan

September, 2004-November, 2008: Professor, Cardiovascular Surgery /
Rehabilitation, International University of Health and Welfare, Tochigi,
Japan

December 2008-present: Itabashi Rehabilitation Hospital, Tokyo, Japan

December 2008-present: Invited Professor, The Center of Advanced Medical Engineering and Informatics, Osaka University

April 2009-present : Member, Scientific Committee, Japan Nordik Walk League

Grants:

Head-Investigator

1985: Grant-in-Aid for Encouragement of Young Scientist (A)(#60771051), The Ministry of Education, Science, Sports and Culture:

1993: Japan Heart Foundation Research Grant For 1993

1993-1996: Grant-in-Aid for Scientific Research (A) (#05404048), The Ministry of Education, Science, Sports and Culture

1997-1998: Grant-in-Aid for Scientific Research (B) (2) (#09470275), The Ministry of Education, Science, Sports and Culture

Co-investigator

1994-1995: Grant-in-Aid for Scientific Research (B)(#06454397), The Ministry of Education, Science, Sports and Culture

1994-1996: Grant-in-Aid for Scientific Research (B)(#06557070), The Ministry of Education, Science, Sports and Culture

1997-1999: Grant-in-Aid for Scientific Research (A)(1)(#09357013), The Ministry of Education, Science, Sports and Culture

1997-1999: Grant-in-Aid for Scientific Research (A)(1)(#09307028), The Ministry of Education, Science, Sports and Culture

1998: Grant-in-Aid for Scientific Research (A)(2)(#10177209), The Ministry of Education, Science, Sports and Culture

2000-2002 Grant-in-Aid for Scientific Research (A)(1)(#12307027), The Ministry of Education, Science, Sports and Culture

Publications(-2004):

(Cardio-pulmonary physiology)

- Kawauchi M, Matsunaga H, Miyairi T, Kohno T, Morizuki O, Furuse A; Anaerobic Threshold in the Patients Before and After Cardiac Valve Surgery: Jap J Cardiovasc Surg 18, 235-236, 1988
- Kawauchi M, Matsunaga H, Makuuchi H, Okabe H, Miyairi T, Morizuki O, Furuse A; Anaerobic Threshold and Oxygeon Uptake in the Patients with Mitral Disease Journal of Cardiology 19, 869-875, 1989
- Tamura S, Kawauchi M, Kawakubo K, Hamamoto H; The Standardvalue of Anaerobic Threshold of Sedentary Normal Adults and the Effect of Physical Activity on Anaerobic Threshold; J Health Physical Education Recreation 39, 371 - 375, 1989
- Kawauchi M, Morizuki O, Miyairi T, Matsunaga H, Furuse A; Evaluation of Exercise Performance in Patients with Valvular Heart Disease by Means of the Workload with Bicycle Ergometer Jap J Cardiovasucular Surgery 19, 849-853, 1990
- Kawauchi M, Matsunaga H, Miyairi T, Morizuki O, Furuse A; Oxygeon Uptake During Exercise Before and After Cardiac Valve Surgery: Anaerobic Threshold and Maximal Oxygeon Uptake J Jap Assoc Toracic and Cardiovasc Surg 38,106-110, 1990

- Morizuki O, Kawauchi M, Matsunaga H, Furuse A; Relation Between Oxygen Uptake and Workload in pre- and post Operative Patients with Valvular Heart Disease *Jap J Art Organ* 19, 324 - 326, 1990

- Miyairi T, Kawauchi M, Morizuki O, Furuse A; Exercise Capacity of the Tetralogy Fallot Patients in the Late Postoperative Periods. *Kyoubu-geka* 43, 611 - 619, 1990

- Morizuki O, Kawauchi M, Furuse A; Target Heart Rate for Exercise Echocardiography *J of Cardiology*, 24,199-202, 1994

- Soma R, Yamamoto Y, Mutou Y, Kawauchi M, IshiiH, Maruyama W; The Measurement of Gas Exchange During Exercise and Determination of Metabolism with Stable Isotope *BME* 8, 39 - 45, 1994

- Soma R, Yamamoto Y, Mutou Y, Kawauchi M, IshiiH, Maruyama W; The Analysis of Energy Metabolism During Unsteady Exercise With Tracer *J Exercise Science* 88, 37 - 43, 1995

English Publications(-2004):

- Kawauchi M, Gundry SR, Beierle F, Alonso de Begona J, Bailey LL: Myosin light chain efflux after infant and pediatric heart transplantation: Its correlation with ischemic preservation time. *J Thorac Cardiovasc Surg* 106:458-462,1993

- Kawauchi M, Gundry SR, Alonso de Begona J, Razzouk AJ, Bouchart F, Fukushima N, Hauck AJ, Weeks DA, Nehlsen-Cannarella S, Bailey LL: Prolonged survival of orthotopically transplanted heart xenograft in infant baboons. *J Thorac Cardiovasc Surg* 106:779-786,1993

- Kawauchi M, Gundry SR, Alonso de Begona J, Fullerton DA, Razzouk AJ, Boucek MM, Nehlsen-Cannarella S, Bailey LL: Male donor into female recipient increases the risk of heart allograft rejection in pediatric heart transplantation. *Ann Thorac Surg* 55:716-718,1993

• Suzuki J, Isobe M, Aikawa M, Kawauchi M, Shiojima I, Kobayashi N, Tojo A, Suzuki T, Kimura K, Nishikawa T, Sakai T, Sekiguchi M, Yazaki Y, Nagai R: Nonmuscle and smooth muscle myosin heavy chain expression in rejected cardiac allografts. A study in rat and monkey models. *Circulation* 94:1118-1124, 1996

• Miyairi T, Kawauchi M, Takamoto S, Morizuki O, Furuse A: Oxygen Utilization and Hemodynamic Response during Exercise in Children after Fontan Procedure *Japanese Heart Journal* 39, 659-669, 1998

• Kawauchi M, Nakajima J, Endoh M, Oka T, Takamoto S : Ontogeny of anti-pig xenoantibody and hyperacute rejection *Transplantation* 70 ; 686-694, 2000

• Kawauchi M, Suzuki J, Motishita R, Wada Y, Izawa A, Tomita N, Amano J, Kaneda Y, Ogihara T, Takamoto S, Isobe M ; Gene therapy for attenuating cardiac allograft arteriopathy using ex vivo E2F decoy transfection by HVJ-AVE-Liposome method in mice and nonhuman primates *Circ Res* 87 ; 1063-1068, 2000

• Matsumoto H, Matsunaga H, Kawauchi M, Miyawaki F, Asano K : Effect of Coenzyme Q10 Pretreatment on Myocardial Preservation Heart Transplant 3 : 160-165, 1984

• Matsumoto H, Matsunaga H, Kawauchi M, Yagyu K, Asano K : Protective Effect of Solcoseryl on Myocardium in Cytoprotection and Cytobiology (Miyake T ed.) *Excerpta-Medica, Amsterdam-Princeton-Geneva-Tokyo*, 126-134, 1984

• Kawauchi M, Tada Y, Asano K, Sudo K. : Angiographic demonstration of mesenteric arterial changes in postcoarctectomy syndrome. *Surgery* 98 : 602-604, 1985

• Kawauchi M, Asano K, Sindo G, Miyairi T: Total cavopulmonary shunt with replacement of common atrioventricular valve for an infant with single atrium and single ventricle. *Annals of Thoracic Surgery* 40:192-194, 1985

• Alonso de Begona J, Kawauchi M, Fullerton DA, Razzouk AJ, Gundry SR, Bailey LL : Heart Transplantation in Children . *Comprehensive Therapy* 16:61-64, 1990

• Kawauchi M, Yazaki Y, Oka T, Okabe H, Mathison M, Nakajima J, Morizuki O, Kawaguchi G, Koseni K, Takeda M, Chikada M, Furuse A: Diagnosis of cardiac

allograft rejection by the detection of circulating plasma cardiac myosin light chains. *Jpn J Surg* 20:212-216,1990

- Kawauchi M, Gundry SR, DeBologna JA, Fullerton DA, Razzouk AJ, Boucek M, Kanakriyeh M, Bailey LL: Prolonged Preservation of Human Pediatric Hearts; Correlation of Ischemic Time and Subsequent Function. *Surg Forum* 41:211-212,1990

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- Kawauchi M, Gundry SR, Alonso de Begona J, Beierle F, Feikes R, Bailey LL: Xenotransplantation in newborn goats with FK506. *Transplant Proc* 23:3293-3295, 1991

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- Kawauchi M, Gundry SR, Boucek MM, Alonso de Begona J, Vigesaa R, Bailey LL: Real time monitoring of the endomyocardial biopsy site with pediatric transesophageal echocardiography. *J Heart Lung Transplant* 11:306-310,1992

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- Gundry SR, Alonso de Begona J, Kawauchi M, Bailey LL: Successful transplantation of hearts harvested 30 minutes after death from exanguination. *Ann Thorac Surg* 53:772-775,1992
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- Furuse A, Koseni K, Takeshita M, Kotsuka Y, Yagyu K, Kawauchi M: Retrograde gastric varices in a patient with total cavopulmonary shunt. *Ann Thorac Surg* 55:1574-1575,1993
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- Alonso de Begona J, Gundry SR, Razzouk AJ, Boucek M, Kawauchi M, Bailey LL: Transplantation of hearts from arrested and resuscitated donors: Early and long term results. *J Thoracic Cardiovascular Surg* 106:1196-1201,1993

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- Kawauchi M, Takeda M, Nakajima J, Matsumoto J, Furuse A: Contribution of T cells in concordant xenoheart rejection. *Transplant Proc* 26:1193-1194,1994
- Kawauchi M, Takeda M, Nakajima J, Matsumoto M, Furuse A: Cardiac xenotransplantation from pig to Japanese monkey with splenectomy Tacrolims filtration plasmapheresis and Nafamostadt Mesilate. *Transplant Proc* 26:1076-1077,1994
- Kawauchi M, Fukushima N, Gundry SR, de Begona JA, Nehlsen-Canarella S, Bailey LL: Lymphocyte subset monitoring can detect xenoheart rejection in primates. *Transplant Proc* 26:1067-1069,1994
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- Kawauchi M, Matsumoto J, Takeda M, Nakajima J, Furuse A, Oka T, Yoshitake T: Which is the target vessel of lung rejection? A primate heart-lung transplantation study. *Transplant Proc* 26:2338-2339,1994
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- Kawauchi M, Takeda M, Matsumoto J, Nakajima J Furuse A Oka T Yoshitake T: Which are the target vessels of xeno- and allo-lung rejection? - A primate single lung transplantation study. *Transplant Proc* 28:1416-1417,1996
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- Takeda M, Kawauchi M, Nakajima J, Furuse A: Pretreatment with splenectomy and FK506 in xeno-lung transplantataion. *Transplant Proc* 28:1435-1436,1996
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- Kotsuka Y, Furuse A, Yagy K, Kawauchi M, Takeda M, Hirata K: Mitral valve replacement after percutaneous transvenous mitral commissurotomy. *Cardiovascular Surgery* 4:530-535,1996
- Matsumiya G, Gundry SR, Fukushima N, Kawauchi M, Zuppan CW, Bailey LL : Pediatric cardiac xenograft growth in a rhesus monkey-to-baboon transplantation model. *Xenotransplantation* 3:76-80,1996
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- Miyaji K, Furuse A, Takeda M, Chikada M, Ono M, Kawauchi M: Successful conduit repair using aortic homograft in a Jehova's witness child. *Ann Thorac Surg* 62: 590-1, 1996
- Miyaji K, Furuse A, Ohtuska T, Kawauchi M: Mid-term result of one and one half ventricular repair in a patient with pulmonary atresia and intact ventricular septum. *Jpn Heart J* 37:509-513,1996

- Nakajima J, Ono M, Takeda M, Kawauchi M, Furuse A, Takizawa H: Role of costimulatory molecules on airway epithelial cells acting as alloantigen-presenting cells. *Transplant Proc* 29:2297-2300,1997
- Nakajima J, Yamamoto M, Kotsuka Y, Yagyu K, Kawauchi M, Kubota H, Furuse A, Oka T: Hemoptysis from an emphysematous bulla developing after open-heart surgery: Report of a case. *Surg Today. Jpn J Surg* 27:266-268, 1997
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- Tanaka.K, Furuse.A, Kotsuka.Y, Yagyu.K, Kawauchi.M, Miyaji.K, Ono.M, and Imanaka. K : Mitral valve repair with extensive resection of the anterior leaflet for regurgitation due to Barlow's disease.Report of a case.*Japanese Heart Journal* 38(6),865-868,1997
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- M.Ono , Y.Kotsuka , A.Furuse , M.Kawauchi , and M.Takeshita : Coronary Artery Bypass Grafting by Median Sternotomy in Patients with a Tracheostoma、 *The Thoracic and Cardiovascular Surgeon* 46 49-51、 1998
- M. Kawauchi , J. Nakajima , M. Takeda , T. Oka , and S. Takamoto : Aortic valves are antigenic but less so than myocardium、 *The Journal of Thoracic and Cardiovascular Surgery* 116(3) 532、 1998
- M.Ono, J.Nakajima, M.C.Lee, K.Hirata, J.Kobayashi, M.Kawauchi, Y.Kotsuka, S.Takamoto, and A.Furuse : Influence of Cryopreservation on Human Vascular Endothelial Cell Immunogenicity *Transplant Proc* 30 3915-16 , 1998
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Metastatic hepatocellular carcinoma obstructing the right ventricular outflow tract JJTCS 48 ; 516-519, 2000

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allografted primate hearts J Heart Lung Transplant 19 ; 1193-1198, 2000

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• Tanaka K, Kawauchi M, Murota Y, Takamoto I, Ikenouti H, Hada Y, Furuse A : Reversible subacute effusive-constrictive pericarditis after correction of double-chambered right ventricle: A case report Journal of Cardiology 39 ; 267-270, 2002

English Presentation(-2004)

• Kawauchi M, Matsunaga H, Asano K : The prophylactic effect of pretreatment with Coenzyme Q10 on low cardiac output following valve surgery.、 International Society for Heart Research (U.S.A)、 1983

• Matsumoto H, Matsunaga H, Kawauchi M, Asano K : Effect of the pretreatment with Coenzyme Q10 for myocardial preservation.、 International Society for Heart Transplantation ,New Orleans、 1983

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Kawauchi,M.,Tuchimoti,H.,Yazaki,Y.,Okabe,h.,Nakajima,J.,Morizuki,O., Takahama,T, Furuse,A : Diagnosis of cardiac allograft rejection by detection of circulating cardiac myosin light chains、 24thCongress European Society for Surgical Research,Brussels、 1989

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Fallot: Surgical procedure and oxygen uptake during exercise, 19th World Congress of the International Society for Cardiovascular Surgery, Toronto, 1989

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