

Curriculum Vitae

Assoc. Professor Theo Kofidis, MD, PD (Ger), FRCS, FAHA, FAMS



Head, Department of Cardiac, Thoracic, and Vascular Surgery,

National University Heart Centre, NUHS, Singapore

Group Chief, Cardiothoracic Surgery, NUHS Cluster Hospitals and Polyclinics

Senior Consultant CT Surgeon

Fellow of the American Association of Thoracic Surgery

*Chairman of the Educational Committee, and Councilor,
Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS)*

Vice-Chairman, Cardiothoracic Surgery Chapter, Singapore

Scientific Advisory Board, Capetown University Heart Center

Founder and Owner, "Kardia Ptd Ltd"

*Director, NUHS-Medtronic Center of Excellence and Simulation Center in Minimally Invasive and Hybrid
Heart Surgery*

*Chairman, IRIS (Initiative for Research and Innovation in Surgery),
National university of Singapore*

Assoc. Professor, National University of Singapore, Medical School

Founder and Director, Cardiac Surgery Research Laboratory, NUS

Curriculum Vitae

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Head, Dpt of Cardiac, Thoracic, and Vascular Surgery, NUHCS, Singapore

Senior Consultant Cardiothoracic Surgeon,
CTVS/NUHS

(As of April 2019)

Full Name: Theodoros Kofidis

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Dept. of CTVS / NUHS
1E Kent Ridge Road, Towerblock, level 9
Singapore 119228

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Home Address: 146 Coronation Road, Singapore 269527

Home phone: +65 9051 8943

Marrital status: Married to Persefoni Papathanasiou (Singapore PR, Architect),
1 daughter, Danai, 11 years old.

Nationality: Singaporean

E-mail: surtk@nus.edu.sg
tkofidis@hotmail.de

DOB: 25.08.1969

Place of birth: Komotini, Greece, Europe

Education / Academic titles

1981	1 st Elementary, Komotini, Greece (Graduated "Best student")
1988	3d Gymnasium and 2 Lyceum of Komotini, Greece (best in class for 6 consecutive years)
1996	MD , Ludwig Maximilian's University of Munich, Germany
1995-1996:	Intern, Rochester, NY / Texas Heart Institute, Houston, TX, USA
1998	Dr. Med , Ludwig Maximilian's University of Munich, Germany
2002-2004:	Fellow, Stanford University Medical School
2006	Faculty , National University of Singapore
2007	PD (Privat-Dozent): Hannover Medical School, Germany
2008	FAMS (Academy of Medicine, Singapore)
2009	FAHA (American Heart Association)
2015	FRCS (w/o examination, Royal College of Surgeons of Edinburgh Award)
2015	FAATS (Fellow of the American Association for Thoracic Surgery)

Licensure

- 1996 Bavaria / Germany (MD)
- 1997 Lower Saxony, Germany (Cardiac Surgery)
- 2005 Germany, Specialist Cardiac Surgeon, (all EU countries)
- 2006 Singapore, Cardiothoracic Surgery
- 2008 Singapore, Specialist CT Surgeon (RCS, CT Singapore)
- 2009 Singapore, Full registration, CT Surgery
- 2010 Switzerland, Cardiac Surgery
- 2015 Formal FRCS award
- 2017 Greece – License to practice the Medical Profession
- 2019 Greece – Specialist Accreditation in Cardiothoracic Surgery

Temporary / Conditional licenses

- 2012 Dubai
- 2013 India
- 2014 China (Macau and Hong Kong)
- 2014 Turkey
- 2015 Bangladesh
- 2015 Vietnam

Honors-Awards

- 1992 Scholarship of the **State of Bavaria** for outstanding performance.
- 2000 Award for the best oral presentation of the **Onassis Institute** at the International Congress of Cardiothoracic Surgery, Onassis Heart Center, Athens, Greece.
- 2001 Award of the **European Transplant Society** for the best scientific work, Basel, Switzerland.
- 2002 The **German Research Society** Grant Award.
- 2004 The **Rockefeller Brothers Fund/Culpeper Bioscience** Award, NY, USA.
- 2005 Funding Award of the **Brauckmann Foundation**, Hannover, Germany.
- 2006 The **Lillehei-Caster** Award of the European Society of Cardiothoracic Surgery, Stockholm, Sweden.
- 2012 The Lifetime achievement/contribution Award by the **Hellenic Cardiology Society**.
- 2015 The **MOH AMDA** Award
- 2015 The **Fellowship of the Royal College of Surgeons of Edinburgh**, without examination.
- 2017 Award by the International Olympic Academy
- 2018 Award by the **Hellenic CT Surgery Society** and the ISMICS-Winter conference
- 2019 The **NUS Medicine Special Recognition** Award
- 2021 The **SIMICTS-ISMICS** Life Time Achievement Award

Surgery Spectrum and Interests

Adult Cardiac Surgery, Minimally Invasive Cardiac Surgery, Robotic Cardiac Surgery, Beating Heart Surgery, Heart Failure Surgery, Transplantation, Assist Devices, Arrhythmia Surgery, Surgical Research and Development.

Interests / Hobbies

Aviation (FAA pilot #2840130, USA), Photography, Diving, Physical Workout, History, Reading

Internships and Post-doctoral Training

- 1995 – 1996 Surgical rotations at Strong Memorial Hospital, Rochester, NY / Texas Heart Institute, Houston, TX
- 1997 Surgical Observership at Harefield Hospital, London, UK
- 1997 – 2002 Surgical Residency, Cardiothoracic and Vascular Surgery, Hannover Medical School, Hannover, Germany
- 1999 – 2001 Responsible Resident: Heart Transplantation and LVAD Program
- 2002 – 2004 Postdoctoral Fellow, Stanford University Medical School, Stanford, CA, USA.
- 2004 – 2005 Final Year of clinical training (senior resident), Hannover Medical School, Hannover, Germany.
- Nov 2005 German Surgical Boards (“Cardiac Surgeon”)
- Nov 2005 – Sep 2006 Consultant Cardiac Surgeon, Hannover Medical School.
- Oct 2006 - Asst. Professor of Surgery, Dept. of Surgery, National University of Singapore / Dept of CTV-Surgery, National University Hospital, Singapore.
- Nov 2007 Exit Examination Joint Specialty of the Royal College of Surgeons for Cardiothoracic Surgery / Specialist Cardiothoracic Surgeon
- Jan 2012- Senior Consultant and Head, Division of Adult Cardiac Surgery, National University Hospital, Singapore

Fellowships / HMDPs / Sabbaticals

- 2002 – 2004 Postdoctoral Fellow, Stanford University Medical School, Stanford, CA, USA.
- 2009 Jan / Jun 2010 Robotic Cardiac Surgery, ECU, NC, USA (R. Chittwood) x 2
- Aug 2010 – Jul 2011 TAVI and MICS Surgery (+ Cardiological Interventions) at Zurich University Hospital (Sabbatical).
- May 2011 TAVI training on Edwards Sapien and Corevalve, Headquarters, Geneva, Switzerland.
- May – June 2014 AMDA Award for Advanced Training, Stanford/Miami/Boston/Texas Medical Centre
- Jun – Jul 2015 Team training in LVAD therapies, Hamburg Eppendorf University, Germany

Positions / Academic Appointments

- 2008 - **Director** of the Robotic Cardiac Surgery Program, CTVS, National University Hospital
 2008: **Planning Committee**, National University Heart Centre Singapore, NUHS
 2008 – 2012 **Research Director**, Department of CTVS, NUHS
 2009 - **Chairman** of the Initiative for Research and Innovation in Surgery (IRIS)
 2009: **Master-planning Committee** of the Large Animal Facility, NUS.
 2010 - **Assoc. Professor with Tenure**, NUS (Application for Full Professorship in Progress)
 2010 - 2011 **Professor** of Heart Surgery, University Hospital of Zurich, Switzerland, *Sabbatical period*.
 Oct 2011- Resumption of duties at NUS, Singapore.
 2011- **Founder and Director** of the Minimally Invasive Cardiac Surgery Program, CTVS, NUHS, Singapore
 2012 **Senior Consultant** at CTVS/NUHS
 Sept 2012 – October 2017: **Head**, Division of Adult Cardiac Surgery, CTVS, National University Heart Centre Singapore
 2012 - Member/Chair of Academic Faculty Promotions (Appointment by Cluster Head)
 2012: **Research Committee**, NUHS
 2012 - Regular Tutor / Organizer and Teaching Surgeon (live-Transmission) in multiple international events.
 Dec 2012 - **Steering committee** of the World Society for Cardiothoracic Surgery, Representative Far East.
 2014 - Independent Reviewer, Academy of Medicine of Singapore
 Aug 2014 - **Clinical Director** for M.E.R.C.I. (Medical Engineering Research and Commercialization Initiative)
 2015 - **Surgical Director**, HF and LVAD program, National University Heart Centre Singapore
 2015 - Ministry of Health, Taskforce for the Introduction of Robotic Technology in Healthcare, Singapore.
 2015 - **Director** of the Undergraduate Research Certification Domain, National University of Singapore, Medical School.
 2015 - **Director** of Undergraduate Research, Wong Hock Boon society, NUS
 2015 - Member of Medical Grand Challenge Committee, NUS YLL School of Medicine
 2015 - **Program Committee**, International Society for Heart and Lung Transplantation
 Mar 2016 - **Panelist**, Nature Publishing Group, Journal Selection Committee
 Sept 2018:- **Head of Department of Cardiac, Thoracic and Vascular Surgery** (includes Congenital Heart Surgery and Critical Care units, 105 staff on payroll and annual TPM, 300 staff in NUHCS domain).
 March 2020- : Faculty/Program Committee, **EACTS Technocollege**
 July 2020:- Induction into the **NIC Healthcare committee**, NUS
 July 2021:- **Group Chief**, Cardiothoracic Surgery , NUHS Cluster Hospitals and Polyclinics

Professional Memberships / Role, Committees

- 2000- **German Society for Thoracic and Cardiovascular Surgery** (Member)
 2001- **European Association for Cardiothoracic Surgery** (Reviewer, Member)
 2002- **American Heart Association** (Scientific Councils, Reviewer, Abstract Grader, Premium Professional Member)
 2003- **International Society for Heart and lung Transplantation** (Member, Reviewer, Organizing Co-Chair).
 2004- **International Society of Tissue Engineering** (Member)
 2006- **International Society of Minimal Invasive Cardiac Surgery**

- (Member, Reviewer, Scientific abstract committee)
- 2006- **Society of Thoracic Surgeons** (Member)
- 2006- **Cardiothoracic Surgery Network** (Member)
- 2007- **Asian Society for Cardiac, Vascular and Thoracic Surgery (ASCVTS)**
(Member, Scientific, Organizing Committees)
- 2007 - **Asian Cardiovascular and Thoracic Annals** (Editorial Board)
- 2007 - Scientific Board **WSCTS** - 18th World Congress of Cardiovascular Surgeons
- 2007 - 2008 DSRB member for the section cardiovascular research
- 2007 - 2008 **National Centre for the Replacement, Refinement and Reduction of Animals in Research** (NC3Rs), UK (Grant reviewer)
- 2008 - **Hellenic Society of Cardiothoracic Surgery** (Member)
- 2009: **MRTB** space allocation committee
- 2009: Senior advisor to **Research-Gate**, the international scientists' communication forum.
- 2012 - Member of the **Steering Committee of the World Society of Cardiothoracic Surgery** and Representative for Far East.
- 2013 - **Association of Cardiothoracic Surgeons of Asia** (Member, Organizing Committee)
- 2014 - **The Swiss Healthcare Concierge** (Official Surgeon, Asia)
- 2014 - **National Medical Research Council, Singapore** (Appointed Reviewer)
- 2015 - Fellow of the **Royal College of Surgeons of Edinburgh**
- 2015 - Fellow of the **American Association of Thoracic Surgeons**
- 2015 - Editorial team for the **Journal of Heart and Lung Transplantation**
- 2016 - **Ministry of Health Cardiovascular Disease Research Group**
- 2020- Member of the Board of the Cape Town University Heart Institute
- 2021- Chairman of the Singapore **JCST Accreditation** program for Cardiothoracic Surgery
- 2021- Member of the Singapore Cardiothoracic Surgery Residency Advisory Committee (**RAC**)
- 2021 - Chairman of the Educational Committee, and Councilor, Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS)

Industry Liaisons

- 2010 – 2013 Advisor to Kips Bay Medical, Minnesota, USA
- 2014 – Consultant/Proctor St Jude Medical (now Abbott)
- 2014 – Consultant/Proctor Medtronic
- 2014 – Consultant/Proctor Fehling Instruments
(Proctorships are issued for a year and subject to renewal)
- 2017- Consultant/Proctor, Perfusion Services Pte Ltd
- 2019 - Advisory Board, Livanova
- 2020- Advisory Board, Medtronic

Reviewer / Editorial appointments

- NIH / NHLBI grant reviewer
- NMRC Pannelist / Reviewer

Abstract Reviewer / Scientific / Program Committee Member

- AHA Annual Scientific Sessions
- Annual Meeting of the International Society of Heart and Lung Transplantation
- European Association for Cardiothoracic Surgery
- Annual Meeting of the International Society for Minimally Invasive Cardiothoracic Surgery.
- Association of Thoracic and Cardiac Surgeons of Asia
- World Society for Cardiothoracic Surgery

Reviewer/Editor for Journals (Past and Present):

- FASEB,
- Circulation,
- Journal of Thoracic and Cardiovascular Surgery,
- European Heart Journal,
- European Journal of Cardiothoracic Surgery,
- International Journal of Heart and Lung Transplantation,
- Human Gene Therapy,
- Biomaterials,
- International Journal of Medicine,
- Biomed Central Bioimaging,
- Biomedical Materials,
- Chinese Journal of Bioengineering Research,
- The "Innovations" Journal of the ISMICS society.
- The International Journal for Heart and Lung Transplantation
- Asian Annals of Cardiothoracic Surgery
- Reviewer for the Clinical Ethics Committee of the National University of Singapore.
- Reviewer for the National Centre for the Replacement, Reduction, Refinement of Animal Research of England.
- Reviewer for the National Medical Research Council, Singapore.
- "Bio": Intl. Biotechnology Journal
- Editorial and Advisory Board of the Asian Annals of Cardiovascular Surgery
- Member of the International Editorial Board of the Journal of Clinical Rehabilitative Tissue Engineering Research
- Minimally Invasive Surgery Journal, past Editor
- Journal of Molecular and Cellular Cardiology
- Journal of the Annals of the Academy of medicine of Singapore
- Biomed Central
- Associate Editor (Surgery), The Continuing Cardiology Education Journal (Willey).
- Editorial Board, The Turkish Journal of Thoracic and Cardiovascular Surgery

Books / Chapters

1. Boehler A, **Kofidis T** et al. Thorakale Organtransplantation – Eine Standortbestimmung. Steinkopff Publ. Darmstadt, Germany, 2002.
2. **Kofidis T**, Klima U et al. Gene Therapy in Biotechnology. Wissenschaftliche Verlagsgesellschaft mbH Stuttgart; ISBN: 3-8407-1917-1. Kapitelbeitrag: „Gentherapie in der Chirurgie“, Seite 358.W. Harringer,
3. **Kofidis T**: Tacrolimus in der Herz- und Lungentransplantation. Pabst Science Publishers. 2002. Lengerich, Germany.
4. **Kofidis T**, Robbins RC. Nanobiology and Nanotechnology in Cardiology and Cardiac Surgery, CRC Press, FL, USA.
5. **Kofidis T**, Haverich A. In vivo generation of bioartificial tissues and organs. In press; Humana Press. NJ, USA.
6. **Kofidis T** et al. (ch. 11) in "Lagerungstechniken im Operationsbereich. Springer, Heidelberg 2005.
7. **Kofidis T, et al**: „Transapical Valve technology for Aortic Stenosis.“. Publisher: Willey press. In print.
8. **Kofidis T et al**: Publisher: Woodhead Publishing. Cardiac regeneration and repair. Editor: Ren-Ke Li. Volume II: Biomaterials and Tissue Engineering. Chapter 24: Creation of Heart Tissue Using Cells and Biomaterials. Chapter in editorial review/press.

9. **Kofidis T et al.:** „Minimalizing the Invasiveness of Heart Valve Surgery: How I do it“, in „Managing the Heart Valve Patient“, Editor: Dr. Saw Huat Seong et al. Publisher: Colourscan Co (Pte) Ltd.

Book Published 26th March 2021 (Chief Editor): “Minimally Invasive- and Hybrid Cardiac Surgery; A practical guide”. Taylor & Francis, CRC Press, NY/London.

(An innovative modern teaching textbook based which utilizes QR codes, laid out for 500 pages, due Q1, 2021).

Patents

1. Bioartificial Heart Tissue (European PTO)
2. A pulsatile perfusion system for 3-dimensional tissue culture (USTPO)
3. S04-032PRV: Injectable bioartificial tissue matrix, Publication number: 20050232902 Filed: April 18, 2005, Inventor: Theodoros Kofidis
4. e-PKC agonist psi-RACK for the enhancement of Stem Cell Engraftment (provisional Patent, Stanford OTL)
5. A novel mitral replacement mechanism and prosthesis
6. Provisional IP: New methodology for minimally invasive cardiac surgery
7. US Provisional Application No.: 61/429,549 Title: A Simple Atrial-Lift Retraction for Minimal Invasive Heart Surgery
8. A NATURALLY DESIGNED MITRAL PROSTHESIS Publication number: 20180289484 Filed: October 10, 2016 Publication date: October 11, 2018 Inventor: Theodoros Kofidi
9. NATURALLY DESIGNED MITRAL PROSTHESIS, Publication number: 20190321168. Filed: April 16, 2019, Publication date: October 24, 2019 Inventor: Theodoros Kofidis
10. Naturally designed mitral prosthesis, Patent number: 10709560, Filed: October 10, 2016 Date of Patent: July 14, 2020 Assignee: NATIONAL UNIVERSITY OF SINGAPORE Inventor: Theodoros Kofidis
11. METHOD FOR MANUFACTURING PERSONALIZED NATURALLY DESIGNED MITRAL PROSTHESIS, Publication number: 20200237514, Filed: April 15, 2020 Publication date: July 30, 2020 Inventor: Theodoros Kofidis

Further IP Disclosures

Project (ILO Ref)	Title of Family	Current Status
SingValve (2018-3086)	A NATURALLY DESIGNED MITRAL PROSTHESIS	Pending US CIP, SG and PCT applications.
Personalized SingValve – Method/Algorithm (2019-384)	A METHOD FOR MANUFACTURING PERSONALIZED NATURALLY DESIGNED MITRAL PROSTHESIS	Pending two US CIP, a SG and PCT applications.
Valve testing chamber (2020-095)	HEART CHAMBER FOR IN-VITRO ANALYSIS OF MITRAL VALVE	At drafting stage – ready to file.
Endopsis / Retractor Camera (2019-412)	A LESS INVASIVE, FLEXIBLE RETRACTOR-CAMERA KIT FOR VIDEO ASSISTED ENDOSCOPIC SURGERY	SG provisional application filed on 15 Sept 2020
Cannula (2019-234-01)	A NEW VENOUS CANNULA FOR CARDIOPULMONARY BYPASS	SG provisional application filed on 29 March 2021

Tricuspid Valve (2021-005)	A NOVEL NATURALLY DESIGNED HEART VALVE PROSTHESIS FOR SURGICAL REPLACEMENT OF TRICUSPID VALVE	At drafting stage
SingValve holder (2021-071)	A NOVEL HEART VALVE PROSTHESIS: PACKAGING AND DEPLOYMENT SYSTEM	At drafting stage

Research Grants (Completed)

Jul 1998 – Nov 2000	Hannover Medical School Career Development Grant
Sep 2000 – Jun 2002	Baxter Bioscience Research Fund
Aug 2002 – Jul 2003	Research Fellowship Grant of the German Research Society (Bone Marrow Stem Cell Transfer for the Restoration of Cardiac Function)
Jul 2003 – Oct 2004	Falk Research Center Fund / Stanford University Medical School
Jul 2004 -	Funding Award of the Rockefeller Institute, NY, USA
Apr 2005 - Jun 2005 -	Funding Award of the Braukmann Foundation Hannover Academic Grant of the Federal Ministry of Education & Research of Germany
2006 -	Member of the “Rebirth”-Initiative for Organ Regeneration (Extraordinary Government Grant for the Advancement of Organ Regeneration, Co-PI)
2006 - 2009	German Research Society (DFG) Grant – Embryonic Stem Cell Immunology: 375,000 SGD, PI
Jan 2007 - Mar 2009	NUS Start Up Grant – Full thickness myocardial tissue construct with Anaestommosable core vessel based upon cardiomyocyte and endothelial cell coculture: 508,500 SGD, Co-I
Jan 2007 - Mar 2009	NUS Start Up Grant – Large scale myocardial restoration using in vivo prevascularized, tissue-engineered grafts: 250,000 SGD, PI
Apr 2007 - Mar 2009	NUS Start Up Grant – Full thickness myocardial tissue construct with Anaestommosable core vessel based upon cardiomyocyte and endothelial cell coculture: 400,000 SGD, PI
Aug 2007 - Jul 2009	Merlion Project 2007 – Heart derived cardiac stem cells for cardiac repair and regeneration: 54,449 SGD, PI
Jan 2008 - Mar 2011	A*Star BMRC Grant - In vivo vascularization and maturation of bioartificial grafts for organ restoration: 400,000 SGD, PI
Jan 2008 - Mar 2009	NUS DPRT Start Up Grant – Large scale myocardial restoration using in vivo prevascularised tissue-engineered grafts: 50,000 SGD, PI
Jun 2008 - May 2011	Kips Bay Medical, Inc – eSVS Mesh External Saphenous Vein Support Trial: 150,000 SGD, PI

Apr 2009 – Jun 2010	NRF Proof of Concept Grant – Novel, Less Invasive Mitral Valve Implantation Method involving a bayonet insertion and release mechanism: 200,000 USD, PI
Jul 2009 – May 2013	University Medicine Cluster (UMC), Utrecht – Athero-express: Differential atherosclerotic plaque expression protein in relation to cardiovascular events and patient characteristics: 48,000 SGD, Co-I
Oct 2009 – Sep 2014	NRF Technion Project – Regenerative Medicine Initiative in Cardiac Restoration Therapy Thrust 2 – Cell Therapy using injectable, resorbable, biocompatible materials: 3,683, 544 SGD, PI
Jan 2011 – Jan 2014	NMRC IRG: Promoting Effective Lymphatic Drainage of the Arteries as a New Therapeutic Intervention for Atherosclerosis: 932,205 SGD, Co-I
Jun 2011 – Jun 2012	NUHS Residents' Pitch for Fund & CVRI – Effect of NaHS in Ischemia-reperfusion Injury in the Rat CPB model: 8000 SGD, Co-I
Jun 2012 – May 2015	SUTD-MIT IDC Research Grant – Infrared 3-Dimensional Imaging for cardiac procedures: 500,000 USD, Co-PI
May 2013 – May 2016	NMRC Transition Award – Respiratory Dialysis: Simple carbon dioxide removal for patients with respiratory failure: 375,000 SGD, Co-I
Aug 2014 - Apr 2015	Kips Bay Medical, Inc – eSVS Mesh External Saphenous Vein Support Trial: Industry sponsored, PI

Research Grants (Current / Ongoing)

Aug 2017-	NMRC Centre Grant III – Theme 4 – Surgical Management of Heart Failure Patients Micro-Invasive myocardial restoration in the chronic phase: 2,834,000, Theme
Jan 2015 – Dec 2017	A*Star SPF Grant – Asian Network for Translational Research and Cardiovascular trails (ATTRACT): 32,000,000 SGD, Co-PI Theme C
Jul 2015 - Jul 2018	NMRC IRG Grant - The SingValve – the first mitral valve prosthesis in the world with a natural design: 1,495,000 SGD, PI
Oct 2018- March 2021	NUS-TAP fund: a novel, suspended retractor and endoscopic camera system for Minimally Invasive Surgery: 300,000 SGD, PI
Jan 2019- Dec 2020	NHIC/SMART/SPRING I-2-Start Grant: The Singvalve: a personalized , human-like Heart Valve Prosthesis: 1,250,000 SGD, PI
Jan 2020-	NUS-Dean's Grant (Singvalve): The Singvalve: a personalized , human-like Heart Valve Prosthesis: 1,800,000 SGD, PI
Jan 2020-	NUS-TAP fund (Singvalve) In-vitro testing of SingValve – A human-like, personalized heart valve prosthesis: 200,000 SGD, PI
Jan 2021-	NUS-Dean's Grant: Upgrading CV Animal Surgery to GLP animal studies demonstrating technical competence in the field of testing: On the way to a NUS-based MedTech Hub: 500,000 SGD, PI.

- Feb 2021- Kickstart NUS: A new balloon inflatable cannula for cardiopulmonary bypass: **1,000,000 SGD, PI**
- April 2021- NUHS- Innovation grant: Developing Advanced Imaging Technology for Endoscopic Heart Surgery: **100,000 SGD, PI**
- June 2021- NRF-CGF: SingValve - First Naturally Designed, Personalised, Stentless, Heart Valve Bioprosthesis: **4,914,000 SGD, PI**

Ongoing Clinical Trials:

- **APIRED III:** the first ever CTVS-led multicenter trials of this magnitude (1250 patients) looking at the effect of Alkaline Phosphatase on post Cardiac Surgery patients, with participation of Germany, Holland, Belgium, Austria, Italy, Russia, Portugal, Malaysia. An Industry supported trial, which would further pave the way for an Industry affiliated Fund. I have already made it inclusive and invited 2 of our consultants and our Pharmacy department to be the site PIs. This trial will yield a superb publication and put us in the spotlight as introducers of disruptive technology in Asia. **(Lead Global PI; 12 Centers in Europe and Asia).**
- **APTREAT Trial:** A Phase II efficacy trial with the above drug in pts where Kidney failure has manifested (just approved by the HAS), as an Industry supported trial. **(Initiator and co-PI).**
- **ATTRACT** trial: A Cardiology-led international trial within Asia, on Heart Failure. We facilitate patient consent and tissue harvest **(Co-PI, Theme C).**
- **ITACS** trial: The effect of perioperative iron injection on Cardiac Surgery outcomes. This British led, multicenter trial has included us as PI's soon. I envision the start of a translational service, and Iron-Clinic, aiming at reducing perioperative complications in our patients **(PI, Site NUHS. Singapore).**
- The **ROMA** trial: just became participating center, one of only 3 in Asia, in this prestigious and transformative trial on the way CABG surgery is conducted, led by Cornell and Toronto General **(Lead PI, SEA)**
- **Endopsis First in Man Clinical trial:** Endopsis system, a disruptive Endoscopic and less Invasive surgical technology for Minimally invasive heart surgery. DSRB/HSA approved, first ever Human application of a technology made by ourselves, at NUS and employed by CTVS/NUHCS. The trial is ongoing. **(Lead PI, Inventor)**

Publications

<u>Classifications of Publications</u>	<u>Number of Publications (PubMed)</u>
A. Original Articles	108
B. Reviews / meta-analyses	18
C. Editorials	6
D. Case Reports	20
E. Letters to Editor	6
Total Number of Publications	158

<u>Citation Indices</u>	<u>Google Scholar</u>	<u>Web of Science</u>	<u>Scopus</u>
Citation Overview – Number of papers	6835	105	153
Sum of Times Cited	➤ 6000	➤ 3,000	➤ 6,500
Average Citations per paper	36	21	34.5
H-Index / i10-Index	36/70	36 / 70	36

A. Original Articles (108)

Latest since: 2018 (last 3 Years):

1. Ashlynn Ler, Duoduo Wu, Ong Zhi Xian, Faizus Sazzad, Kang Giap Swee, **Theo Kofidis**. Automated Suture Fastener Gaining Complete Commitment: Cumulative Propensity-Matched Comparison with Hand-Tied Knot in Heart Valve Surgery. *Innovations (Phila)* .2021 Jun 15;15569845211011617. doi: 10.1177/15569845211011617. Online ahead of print.
2. Faizus Sazzad, Ong Zhi Xian, Ashlynn Ler, Chang Guohao, Kang Giap Swee, **Theo Kofidis**. Incidence of valvular regurgitation and leaflet perforation by using automated titanium fasteners (CORKNOT®) in heart valve repair or replacement: less usual than reported. *J Cardiothorac Surg* . 2021 Jun 7;16(1):163. doi: 10.1186/s13019-021-01512-z
3. Lowell Leow, Hari Kumar Sampath, Keith J Yong, **Theo Kofidis**, John Kit Chung Tam, Graeme MacLaren, Lynette Teo, Harish Mithiran, Kollengode Ramanathan. Rescue extracorporeal membrane oxygenation for massive anterior mediastinal masses. *J Artif Organs*, 2021 Apr 3;1-8. doi: 10.1007/s10047-02164-6
4. D Wu, ZX Ong, H Luo, G Chang, F Sazzad, J Sule, P Hu, **T Kofidis**. Minimally-invasive coronary artery bypass grafting offers superior outcomes compared to conventional median sternotomy: a propensity-score matched study. *Authorea*. January 28, 2021. doi: 10.22541/au.161183322.27028209/v1
5. Ong GS, Guim GS, Lim QX, Chay-Nancy HS, Jaafar NB, Lim CA, Clement CKH, Sazzad F, **Kofidis T**. Alternative technique of long acting cardioplegia delivery results in less hemodilution. *Perfusion*. 2021;36(4):365-373. doi:10.1177/0267659120946727

6. Goh Si Gium, Cindy Goh Wah Hoon, Clara Anne Lim, Huang Shoo Chay-Nancy, Ashlynn Ai Li Ler, Qi Xuan Lim, Nurdiyana Binte Jaafar, Cheryl Lim, Faizus Sazzad, **Theo Kofidis**. Use of del Nido Cardioplegia for Adult Heart Surgery: How Long is Not too Long? *J Extra Corpor Technol* 2020 Dec; 52 (4) : 272-278
7. Aung AT, Koo CY, Tam WW, Chen Z, Kristanto W, Sim HW, Kojodjojo P, **Kofidis T**, Lee CH. *Sci Rep.* 2020 Dec. Sleep apnea and diabetics mellitus are independently associated with cardiovascular events and hospitalization for heart failure after coronary artery bypass grafting. December 2020, 10;10(1):21664. doi: 10.1038/s41598-020-78700-9. PMID: 33303900
8. Calafiore AM, Di Mauro M, Bonatti J, Centofanti P, Di Eusanio M, Faggian G, Fattouch K, Gaudino M, **Kofidis T**, Lorusso R, Menicanti L, Prapas S, Sarkar K, Stefano P, Tabata M, Zenati M, Paparella D. *J Card Surg.* An observational, prospective study on surgical treatment of secondary mitral regurgitation: The SMR study. Rationale, purposes, and protocol. 2020 Oct;35(10):2489-2494. doi: 10.1111/jocs.14924. Epub 2020 Aug 13. PMID: 32789993
9. Bangalore S, Maron DJ, O'Brien SM, Fleg JL, Kretov EI, Briguori C, Kaul U, Reynolds HR, Mazurek T, Sidhu MS, Berger JS, Mathew RO, Bockeria O, Broderick S, Pracon R, Herzog CA, Huang Z, Stone GW, Boden WE, Newman JD, Ali ZA, Mark DB, Spertus JA, Alexander KP, Chaitman BR, Chertow GM, Hochman JS; ISCHEMIA-CKD Research Group. Management of Coronary Disease in Patients with Advanced Kidney Disease. **N Engl J Med.** 2020 Apr 23;382(17):1608-1618.
10. Maron DJ, Hochman JS, Reynolds HR, Bangalore S, O'Brien SM, Boden WE, Chaitman BR, Senior R, López-Sendón J, Alexander KP, Lopes RD, Shaw LJ, Berger JS, Newman JD, Sidhu MS, Goodman SG, Ruzyllo W, Gosselin G, Maggioni AP, White HD, Bhargava B, Min JK, Mancini GBJ, Berman DS, Picard MH, Kwong RY, Ali ZA, Mark DB, Spertus JA, Krishnan MN, Elghamaz A, Moorthy N, Hueb WA, Demkow M, Mavromatis K, Bockeria O, Peteiro J, Miller TD, Szwed H, Doerr R, Keltai M, Selvanayagam JB, Steg PG, Held C, Kohsaka S, Mavromichalis S, Kirby R, Jeffries NO, Harrell FE Jr, Rockhold FW, Broderick S, Ferguson TB Jr, Williams DO, Harrington RA, Stone GW, Rosenberg Y; ISCHEMIA Research Group. Initial Invasive or Conservative Strategy for Stable Coronary Disease. **N Engl J Med.** 2020 Apr 9;382(15):1395-1407.
11. Spertus JA, Jones PG, Maron DJ, Mark DB, O'Brien SM, Fleg JL, Reynolds HR, Stone GW, Sidhu MS, Chaitman BR, Chertow GM, Hochman JS, Bangalore S; ISCHEMIA-CKD Research Group. Health Status after Invasive or Conservative Care in Coronary and Advanced Kidney Disease. **N Engl J Med.** 2020 Apr 23;382(17):1619-1628.
12. Spertus JA, Jones PG, Maron DJ, O'Brien SM, Reynolds HR, Rosenberg Y, Stone GW, Harrell FE Jr, Boden WE, Weintraub WS, Baloch K, Mavromatis K, Diaz A, Gosselin G, Newman JD, Mavromichalis S, Alexander KP, Cohen DJ, Bangalore S, Hochman JS, Mark DB; ISCHEMIA Research Group. Health-Status Outcomes with Invasive or Conservative Care in Coronary Disease. **N Engl J Med.** 2020 Apr 9;382(15):1408-1419.
13. The Asian system for cardiac operative risk evaluation for predicting mortality after isolated coronary artery bypass graft surgery (ASCORE-C). Luo HD, Teoh LK, Gaudino MF, Fremes S, **Kofidis T**. *J Card Surg.* 2020 Jul 11.
14. Functional reservoir microcapsules generated via microfluidic fabrication for long-term cardiovascular therapeutics. Dinh ND, Kukumberg M, Nguyen AT, Keramati H, Guo S, Phan DT, Ja' Afar NB, Birgersson E, Leo HL, Huang RY, **Kofidis T**, Rufaihah AJ, Chen CH. *Lab Chip.* 2020 Aug 7;20(15):2756-2764.

15. Sleep apnoea and cardiovascular outcomes after coronary artery bypass grafting. Koo CY, Aung AT, Chen Z, Kristanto W, Sim HW, Tam WW, Gochuico CF, Tan KA, Kang GS, Sorokin V, Ong P, Kojodjojo P, Richards AM, Tan HC, **Kofidis T**, Lee CH. *Heart*. 2020 May 18.
16. Sazzad F, Kuzemczak M, Kofidis T. A Novel Minimally Invasive Technique of Temporary Caval Occlusion for Right Heart Surgery. *Ann Thorac Surg*. 2020 Apr;109(4):e309-e311. doi: 10.1016/j.athoracsur.2019.10.033.
17. Alaa M, Tsopanomichalou Gklotsou M, Vu TD, Ti LK, Lee CN, Kofidis T. Comprehensive and Integrative Experimentation Setup for Large Animal Hybrid Valvular Heart Surgery. *J Surg Res*. 2019 Feb;234:249-261.
18. Rufaihah AJ, Cheyyatraivendran S, Mazlan MDM, Lim K, Chong MSK, Mattar CNZ, Chan JKY, Kofidis T, Seliktar D. The Effect of Scaffold Modulus on the Morphology and Remodeling of Fetal Mesenchymal Stem Cells. *Front Physiol*. 2018 Dec 21;9:1555. doi: 10.3389/fphys.2018.01555. eCollection 2018.
19. Zilla P, Yacoub M, Zühlke L, Beyersdorf F, Sliwa K, Khubulava G, Bouzid A, Mocumbi AO, Velayoudam D, Shetty D, Ofoegbu C, Geldenhuys A, Brink J, Scherman J, du Toit H, Hosseini S, Zhang H, Luo XJ, Wang W, Mejia J, **Kofidis T**, Higgins RSD, Pomar J, Bolman RM, Mayosi BM, Madansein R, Bavaria J, Yanes-Quintana AA, Kumar AS, Adeoye O, Chauke RF, Williams DF. Global Unmet Needs in Cardiac Surgery. *GlobHeart*. 2018 Dec;13(4):293-303.
20. Derda AA, Woo CC, Wongsurawat T, Richards M, Lee CN, **Kofidis T**, Kuznetsov VA, Sorokin VA. Gene expression profile analysis of aortic vascular smooth muscle cells reveals upregulation of cadherin genes in myocardial infarction patients. *Physiol Genomics*. 2018 Aug 1;50(8):648-657. Epub 2018 May 18.
21. Vu TD, Nguyen DV, Oo MZ, Alaa M, Ocampo EM, Cheyyatraivendran Arularasu S, Wai Win P, Ja'afar N, Si-Guim G, Ong P, Ti LK, Richards AM, **Kofidis T**. On-pump transapical cardioscopic mitral valve replacement with cardiac arrest: short-term results in a porcine survival model. *Interact Cardiovasc Thorac Surg*. 2018 Sep 1;27(3):437-445.
22. Vu TD, Oo MZ, Nguyen DV, Ocampo EM, Ong Y, Cheyyatraivendran-Arularasu S, Ti LK, Richards MA, Kofidis T. Transapical cardioscopic mitral annuloplasty: a short-term survival study in a porcine model. *Interact Cardiovasc Thorac Surg*. 2018 Jan 1;26(1):131-138. doi: 10.1093/icvts/ivx282. PubMed PMID: 29049549.

Earlier publications:

1. Rufaihah AJ, Yasa IC, Ramanujam VS, Arularasu SC, **Kofidis T**, Guler MO, Tekinay AB. Angiogenic peptide nanofibers repair cardiac tissue defect after myocardial infarction. *Acta Biomater*. 2017 Aug;58:102-112.
2. Efraim Y, Sarig H, Cohen Anavy N, Sarig U, de Berardinis E, Chaw SY, Krishnamoorthi M, Kalifa J, Bogireddi H, Duc TV, **Kofidis T**, Baruch L, Boey FYC, Venkatraman SS, Machluf M. Biohybrid cardiac ECM-based hydrogels improve long term cardiac function post myocardial infarction. *Acta Biomater*. 2017 Mar 1;50:220-233.
3. Rufaihah AJ, Johari NA, Vaibavi SR, Plotkin M, Di Thien DT, **Kofidis T**, Seliktar D. Dual delivery of VEGF and ANG-1 in ischemic hearts using an injectable hydrogel. *Acta Biomater*. 2017 Jan 15;48:58-67. PubMed PMID: 27756647.
4. Efraim Y, Sarig H, Cohen Anavy N, Sarig U, de Berardinis E, Chaw SY, Krishnamoorthi M, Kalifa J, Bogireddi H, Duc TV, **Kofidis T**, Baruch L, Boey FYC, Venkatraman SS, Machluf M. Biohybrid

- cardiac ECM-based hydrogels improve long term cardiac function post myocardial infarction. *Acta Biomater.* 2017 Mar 1;50:220-233. PubMed PMID: 27956366.
5. Rufaihah AJ, Johari NA, Vaibavi SR, Plotkin M, Di Thien DT, **Kofidis T**, Seliktar D. Dual delivery of VEGF and ANG-1 in ischemic hearts using an injectable hydrogel. *Acta Biomater.* 2017 Jan 15;48:58-67. PubMed PMID: 27756647.
 6. Biohybrid Cardiac ECM-Based Hydrogels Improve Long Term Cardiac Function Post Myocardial Infarction. Efraim Y, Sarig H, Cohen Anavy N1, Sarig U, de Berardinis E, Chaw SY, Krishnamoorthi M, Kalifa J, Bogireddi H, Vu Duc T, **Kofidis T**, Baruch L, Y C Boey F, Venkatraman SS, Machluf M. *Acta Biomater.* 2016 Dec 9. pii: S1742-7061(16)30683-3. doi: 10.1016/j.actbio.2016.12.015. [Epub ahead of print] PMID: 27956366 (IF: 6.008)
 7. Dual delivery of VEGF and ANG-1 in ischemic hearts using an injectable hydrogel. Jalil Rufaihah A, Azizah Johari N, Ramanujam Vaibavi S, Plotkin M, Thi Di Thien D, **Kofidis T**, Seliktar D. *Acta Biomater.* 2016 Oct 15. pii: S1742-7061(16)30540-2. doi: 10.1016/j.actbio.2016.10.013. PMID: 27756647 (IF: 6.008)
 8. Natural myocardial ECM patch drives cardiac progenitor based restoration even after scarring. Sarig U, Sarig H, de-Berardinis E, Chaw SY, Nguyen EB, Ramanujam VS, Thang VD, Al-Haddawi M, Liao S, Seliktar D, **Kofidis T**, Boey FY, Venkatraman SS, Machluf M. *Acta Biomater.* 2016 Oct 15;44:209-20. doi: 10.1016/j.actbio.2016.08.031. Epub 2016 Aug 18. PMID: 27545814 (IF: 6.008)
 9. A Score for Predicting Acute Kidney Injury After Coronary Artery Bypass Graft Surgery in an Asian Population. Mithiran H, Kunnath Bonney G, Bose S, Subramanian S, Zhe Yan ZN, Zong En SY, Papadimas E, Chauhan I, MacLaren G, **Kofidis T**. *J Cardiothorac Vasc Anesth.* 2016 Oct;30(5):1296-301. doi: 10.1053/j.jvca.2016.03.135. Epub 2016 Mar 17. PMID: 27474335 (IF: 1.519)
 10. Sleep apnoea is a risk factor for acute kidney injury after coronary artery bypass grafting. Kua J, Zhao LP, **Kofidis T**, Chan SP, Yeo TC, Tan HC, Lee CH. *Eur J Cardiothorac Surg.* 2016 Apr;49(4):1188-94. doi: 10.1093/ejcts/ezv382. Epub 2015 Nov 17. PMID: 26582346 (IF: 2.803)
 11. Sleep apnea is associated with new-onset atrial fibrillation after coronary artery bypass grafting. Zhao LP, **Kofidis T**, Lim TW, Chan SP, Ong TH, Tan HC, Lee CH. *J Crit Care.* 2015 Dec;30(6):1418.e1-5. doi: 10.1016/j.jcrc.2015.07.002. Epub 2015 Jul 9. PMID: 26235653 (IF: 2.445)
 12. Sleep apnoea and unscheduled re-admission in patients undergoing coronary artery bypass surgery. Zhao LP, **Kofidis T**, Chan SP, Ong TH, Yeo TC, Tan HC1, Lee CH. *Atherosclerosis.* 2015 Sep;242(1):128-34. doi: 10.1016/j.atherosclerosis.2015.07.006. Epub 2015 Jul 10. PMID: 26188535 (IF: 3.942)
 13. Unravelling the Proteome of Degenerative Human Mitral Valves. Tan HT, Lim TK, Richards AM, **Kofidis T**, Teoh KL, Ling LH, Chung MC. *Proteomics.* 2015 Sep;15(17):2934-44. doi: 10.1002/pmic.201500040. Epub 2015 Jun 8. PMID: 25914152 (IF: 4.079)
 14. An autologous platelet-rich plasma hydrogel compound restores left ventricular structure, function and ameliorates adverse remodeling in a minimally invasive large animal myocardial restoration model: a translational approach: Vu and Pal "Myocardial Repair: PRP, Hydrogel and

- Supplements". Vu TD, Pal SN, Ti LK, Martinez EC, Rufaihah AJ, Ling LH, Lee CN, Richards AM, **Kofidis T**. *Biomaterials*. 2015 Mar;45:27-35. doi: 10.1016/j.biomaterials.2014.12.013. Epub 2015 Jan 13. PMID: 25662492 (IF: 8.387)
15. Coaxial projection profilometry based on speckle and fringe projection. Cong Liu, Lujie Chen, Xiaoyuan He, Vu Duc Thang, **Theodoros Kofidis**. *Optics Communications* 341 (2015) 228-236. WoS & Scopus (IF: 1.48)
 16. Sutureless aortic valve implantation: first experience in Asia. Chang G, Vu dT, Teoh KL, Ti LK, **Kofidis T**. *Singapore Med J*. 2014 Nov;55(11):598-600. PMID: 25631972 (IF: 0.573)
 17. Feasibility of transapical cardioscopic surgery in a pig model. **Kofidis T**, Duc Vu T, Pal SN, Vaibavi SR, Chang G, Chua YC, Ti LK, Lee CN. *J Card Surg*. 2015 Apr;30(4):355-9. doi: 10.1111/jocs.12419. PMID: 25099949 (IF: 0.783)
 18. Fiber optic projection-imaging system for shape measurement in confined space. Chen L, Bavigadda V, **Kofidis T**, Howe RD. *Scientific World Journal*. 2014 Feb 10;2014:206569. doi: 10.1155/2014/206569. eCollection 2014. PMID: 24688368 (IF:0)
 19. Is continuation of antiplatelets until coronary artery bypass safe in Asians? Vu TD, Zaw MH, Chang G, Hu SL, Tay CW, Ng CW, Chia DK, Lee CN, **Kofidis T**. *Asian Cardiovasc Thorac Ann*. 2014 Oct;22(8):909-18. doi: 10.1177/0218492314521421. Epub 2014 Jan 27. PMID: 24585288 (IF: 0)
 20. Influence of Prosthesis Type on Long-Term Survival after Re-replacement of Aortic Valve Prosthesis. Akhyari P, Lichtenberg A, Hartmann A, Ismail I, Hiroyuki K, Minol JP, **Kofidis T**, Klima U, Karck M, Haverich A. *Heart Surg Forum*. 2013 Dec 1;16(6):E298-302. doi: 10.1532/HSF98.20111167. PMID: 24370796 (IF: 0.343)
 21. The effect of matrix stiffness of injectable hydrogels on the preservation of cardiac function after a heart attack. Plotkin M, Vaibavi SR, Rufaihah AJ, Nithya V, Wang J, Shachaf Y, **Kofidis T**, Seliktar D. *Biomaterials*. 2014 Feb;35(5):1429-38. doi: 10.1016/j.biomaterials.2013.10.058. Epub 2013 Nov 21. PMID: 24268664 (IF: 8.387)
 22. Enhanced infarct stabilization and neovascularization mediated by VEGF-loaded PEGylated fibrinogen hydrogel in a rodent myocardial infarction model. Rufaihah AJ, Vaibavi SR, Plotkin M, Shen J, Nithya V, Wang J, Seliktar D, **Kofidis T**. *Biomaterials*. 2013 Nov;34(33):8195-202. doi: 10.1016/j.biomaterials.2013.07.031. Epub 2013 Jul 24. PMID: 23891519 (IF: 8.387)
 23. Grafts Enriched with Subamniotic-Cord-lining Mesenchymal Stem Cell Angiogenic Spheroids Induce Post-Ischemic Myocardial Re-vascularization and Preserve Cardiac Function in Failing Rat Hearts. Martinez EC, Vu DT, Wang J, Lilyanna S, Ling LH, Gan SU, Tan AL, Phan TT, Lee CN, **Kofidis T**. *Stem Cells Dev*. 2013 Dec 1;22(23):3087-99. doi: 10.1089/scd.2013.0119. Epub 2013 Aug 31. PMID: 23869939 (IF: 3.777)
 24. Cord Lining-Mesenchymal Stem Cells Graft Supplemented with an Omental Flap Induces Myocardial Revascularization and Ameliorates Cardiac Dysfunction in a Rat Model of Chronic Ischemic Heart Failure. Lilyanna S, Martinez EC, Vu TD, Ling LH, Gan SU, Tan AL, Phan TT, **Kofidis T**. *Tissue Eng Part A*. 2013 Jun;19(11-12):1303-15. doi: 10.1089/ten.tea.2012.0407. Epub 2013 Feb 28. PMID: 23448654 (IF: 3.892)
 25. Novel sutureless mitral valve implantation method involving a bayonet insertion and release mechanism: A proof of concept study in pigs. Vu DT, Ti LK, Ong LC, Neo PH, Lee CN, **Kofidis T**. *J Thorac Cardiovasc Surg*. 2012 Apr;143(4):985-8. doi: 10.1016/j.jtcvs.2012.01.037. Epub 2012 Feb 11. PMID: 22329979 (IF: 3.494)

26. Post-ischaemic angiogenic therapy using in vivo prevascularized ascorbic acid-enriched myocardial artificial grafts improves heart function in a rat model.
Martinez EC, Wang J, Lilyanna S, Ling LH, Gan SU, Singh R, Lee CN, **Kofidis T**.
J Tissue Eng Regen Med. 2013 Mar;7(3):203-12. doi: 10.1002/term.512. Epub 2011 Oct 28.
PMID: 22034461 (IF: 4.71)
27. A novel and simple atrial retractor.
Kofidis T, Lee CN.
Ann Thorac Surg. 2011 May;91(5):1634-5. doi: 10.1016/j.athoracsur.2010.10.079.
PMID: 21524488 (IF: 2.975)
28. Off-Pump coronary artery bypass is a safe option in patients presenting as emergency.
Martinez EC, Emmert MY, Thomas GN, Emmert L, Lee CN, **Kofidis T**.
Ann Acad Med Singapore. 2010 Aug;39(8):607-12.
PMID: 20838701 (IF: 1.041)
29. Five-year experience with congenital cardiac surgery at National University Heart Centre, Singapore.
Kang GS, Soh YF, **Kofidis T**, Lee CN.
Singapore Med J. 2010 Jul;51(7):570-5.
PMID: 20730397 (IF: 0.573)
30. Off-pump coronary bypass surgery is safe in patients with a low ejection fraction (< or =25%).
Emmert LS, Martinez EC, Lee CN, **Kofidis T**.
Heart Surg Forum. 2010 Jun;13(3):E136-42. doi: 10.1532/HSF98.20091178.
PMID: 20534411 (IF: 0.343)
31. Off-pump versus on-pump coronary artery bypass procedures: postoperative renal complications in an Asian population.
Loganathan S, Nieh CC, Emmert MY, Woitek F, Martinez EC, Muecke S, Lee CN, **Kofidis T**.
Ann Acad Med Singapore. 2010 Feb;39(2):112-6.
PMID: 20237732 (IF: 1.041)
32. Ascorbic acid improves embryonic cardiomyoblast cell survival and promotes vascularization in potential myocardial grafts in vivo.
Martinez EC, Wang J, Gan SU, Singh R, Lee CN, **Kofidis T**.
Tissue Eng Part A. 2010 Apr;16(4):1349-61. doi: 10.1089/ten.TEA.2009.0399.
PMID: 19908964 (IF: 3.892)
33. Long-term follow-up after minimal invasive direct coronary artery bypass grafting procedure: a multi-factorial retrospective analysis at 1000 patient-years.
Kofidis T, Emmert MY, Paeschke HG, Emmert LS, Zhang R, Haverich A.
Interact Cardiovasc Thorac Surg. 2009 Dec;9(6):990-4. doi: 10.1510/icvts.2009.213900.
PMID: 19734173 (IF: 1.329)
34. Predictors of adverse neurological outcome following cardiac surgery.
Chang G, Luo HD, Emmert MY, Lee CN, **Kofidis T**.
Singapore Med J. 2009 Jul;50(7):674-9.
PMID: 19644621 (IF: 0.573)
35. Off-pump coronary bypass grafting is safe and efficient in patients with left main disease and higher EuroScore.
Thomas GN, Martinez EC, Woitek F, Emmert MY, Sakaguchi H, Muecke S, Lee CN, **Kofidis T**.
Eur J Cardiothorac Surg. 2009 Oct;36(4):616-20. doi: 10.1016/j.ejcts.2009.04.029.
PMID: 19523845 (IF: 2.803)

36. Aortic root and ascending aortic replacement.
Akhyari P, Bara C, **Kofidis T**, Khaladj N, Haverich A, Klima U.
Int Heart J. 2009 Jan;50(1):47-57.
PMID: 19246846 (IF: 1.938)
37. The minimized extracorporeal circulation system causes less inflammation and organ damage.
Kofidis T, Baraki H, Singh H, Kamiya H, Winterhalter M, Didilis V, Emmert M, Woitek F, Haverich A, Klima U.
Perfusion. 2008 May;23(3):147-51. doi: 10.1177/0267659108097880.
PMID: 19029264 (IF: 1.442)
38. Determinants of bioartificial myocardial graft survival and engraftment in vivo.
Mueller-Stahl K, **Kofidis T**, Akhyari P, Lee DH, Lenz A, Martinez EC, Woitek F, Haverich A.
J Heart Lung Transplant. 2008 Nov;27(11):1242-50. doi: 10.1016/j.healun.2008.08.003.
PMID: 18971098 (IF: 7.509)
39. Factors affecting post minimally invasive direct coronary artery bypass grafting incidence of myocardial infarction, percutaneous transluminal coronary angioplasty, coronary artery bypass grafting and mortality of cardiac origin.
Kofidis T, Gerd Paeschke H, Lichtenberg A, Emmert M, Woitek F, Didilis V, Haverich A, Klima U.
Interact Cardiovasc Thorac Surg. 2009 Jan;8(1):49-53. doi: 10.1510/icvts.2008.185280.
PMID: 18786942 (IF: 1.329)
40. Myocardial restoration and tissue engineering of heart structures.
Kofidis T, Müller-Stahl K, Haverich A.
Methods Mol Med. 2007;140:273-90.
PMID: 18085214 (IF: 0)
41. Preliminary experience with the mini-extracorporeal circulation system (Medtronic resting heart system).
Kamiya H, **Kofidis T**, Haverich A, Klima U.
Interact Cardiovasc Thorac Surg. 2006 Dec;5(6):680-2.
PMID: 17670682 (IF: 1.329)
42. Long term angiographic monitoring reveals safety and efficacy of the Converge end-to-side anastomotic coupler.
Klima U, **Kofidis T**, Boening A, Haverich A.
Interact Cardiovasc Thorac Surg. 2005 Dec;4(6):505-8.
PMID: 17670468 (IF: 1.329)
43. Impact of ascending aorta replacement combined with a Ross procedure on autograft root distensibility and function in patients with combined pathology of the aortic valve and ascending aorta.
Leyh RG, Hagl C, **Kofidis T**, Haverich A.
Interact Cardiovasc Thorac Surg. 2003 Jun;2(2):116-9.
PMID: 17670005 (IF: 1.329)
44. In vivo optical bioluminescence imaging of collagen-supported cardiac cell grafts.
Kutschka I, Chen IY, **Kofidis T**, von Degenfeld G, Sheikh AY, Hendry SL, Hoyt G, Pearl J, Blau HM, Gambhir SS, Robbins RC.
J Heart Lung Transplant. 2007 Mar;26(3):273-80. PMID: 17346630 (IF: 7.509)
45. MRI-based safety evaluation of the ventricular magnetic coronary anastomotic system.
Klima U, Beilner J, Bagaev E, Fischer S, **Kofidis T**, Lotz J.
Asian Cardiovasc Thorac Ann. 2007 Jan;15(1):24-9.
PMID: 17244918 (IF: 0)

46. Long-term cardiac allograft valves after heart transplant are functionally and structurally preserved, in contrast to homografts and bioprostheses.
 Wilhelmi MH, Bara C, **Kofidis T**, Wilhelmi M, Pichlmaier M, Haverich A.
J Heart Valve Dis. 2006 Nov;15(6):777-82.
 PMID: 17152785 (IF: 0.715)

47. [In vivo detection of integration of grafted cells after myocardial transplantation].
 Ruhparwar A, Bara C, **Kofidis T**, Ruebesamen N, Karck M, Martin U, Haverich A.
Zentralbl Chir. 2006 Oct;131(5):420-4. German.
 PMID: 17089294 (IF: 0.638)

48. Creatine kinase isoenzyme MB relative index as predictor of mortality on extracorporeal membrane oxygenation support for postcardiotomy cardiogenic shock in adult patients.
 Zhang R, **Kofidis T**, Kamiya H, Shrestha M, Tessmann R, Haverich A, Klima U.
Eur J Cardiothorac Surg. 2006 Oct;30(4):617-20.
 PMID: 16934992 (IF: 2.803)

49. Adenoviral human BCL-2 transgene expression attenuates early donor cell death after cardiomyoblast transplantation into ischemic rat hearts.
 Kutschka I, **Kofidis T**, Chen IY, von Degenfeld G, Zwierzchoniewska M, Hoyt G, Arai T, Lebl DR, Hendry SL, Sheikh AY, Cooke DT, Connolly A, Blau HM, Gambhir SS, Robbins RC.
Circulation. 2006 Jul 4;114(1 Suppl):I174-80.
 PMID: 16820569 (IF: 17.047)

50. Collagen matrices enhance survival of transplanted cardiomyoblasts and contribute to functional improvement of ischemic rat hearts.
 Kutschka I, Chen IY, **Kofidis T**, Arai T, von Degenfeld G, Sheikh AY, Hendry SL, Pearl J, Hoyt G, Sista R, Yang PC, Blau HM, Gambhir SS, Robbins RC.
Circulation. 2006 Jul 4;114(1 Suppl):I167-73.
 PMID: 16820568 (IF: 17.047)

51. Allopurinol/uricase and ibuprofen enhance engraftment of cardiomyocyte-enriched human embryonic stem cells and improve cardiac function following myocardial injury.
Kofidis T, Lebl DR, Swijnenburg RJ, Greeve JM, Klima U, Robbins RC.
Eur J Cardiothorac Surg. 2006 Jan;29(1):50-5. Epub 2005 Dec 6.
 PMID: 16337396 (IF: 2.803)

52. Dual in vivo magnetic resonance evaluation of magnetically labeled mouse embryonic stem cells and cardiac function at 1.5 t.
 Arai T, **Kofidis T**, Bulte JW, de Bruin J, Venook RD, Berry GJ, Mcconnell MV, Quertermous T, Robbins RC, Yang PC.
Magn Reson Med. 2006 Jan;55(1):203-9.
 PMID: 16315206 (IF: 3.782)

53. Intra-vital fluorescence microscopy for intra-myocardial graft detection following cell transplantation.
 Ruhparwar A, **Kofidis T**, Ruebesamen N, Karck M, Haverich A, Martin U.
Int J Cardiovasc Imaging. 2005 Oct;21(5):569-74.
 PMID: 16175449 (IF: 1.88)

54. Novel injectable bioartificial tissue facilitates targeted, less invasive, large-scale tissue restoration on the beating heart after myocardial injury.
Kofidis T, Lebl DR, Martinez EC, Hoyt G, Tanaka M, Robbins RC.
Circulation. 2005 Aug 30;112(9 Suppl):I173-7.
 PMID: 16159811 (IF: 17.047)

55. Embryonic stem cell immunogenicity increases upon differentiation after transplantation into ischemic myocardium.
Swijnenburg RJ, Tanaka M, Vogel H, Baker J, **Kofidis T**, Gunawan F, Lebl DR, Caffarelli AD, de Bruin JL, Fedoseyeva EV, Robbins RC.
Circulation. 2005 Aug 30;112(9 Suppl):I166-72.
PMID: 16159810 (IF: 17.047)
56. They are not stealthy in the heart: embryonic stem cells trigger cell infiltration, humoral and T-lymphocyte-based host immune response.
Kofidis T, deBruin JL, Tanaka M, Zwierzchoniewska M, Weissman I, Fedoseyeva E, Haverich A, Robbins RC.
Eur J Cardiothorac Surg. 2005 Sep;28(3):461-6. PMID: 15990327 (IF: 2.803)
57. Early inhibition of caspase-3 activity lessens the development of graft coronary artery disease.
Balsam LB, Mokhtari GK, Jones S, Peterson S, Hoyt EG, **Kofidis T**, Tanaka M, Cooke DT, Robbins RC. J Heart Lung Transplant. 2005 Jul;24(7):827-32. PMID: 15982609 (IF: 7.509)
58. Myocardial restoration with embryonic stem cell bioartificial tissue transplantation.
Kofidis T, de Bruin JL, Hoyt G, Ho Y, Tanaka M, Yamane T, Lebl DR, Swijnenburg RJ, Chang CP, Quertermous T, Robbins RC. J Heart Lung Transplant. 2005 Jun;24(6):737-44.
PMID: 15949735 (IF: 7.509)
59. Stimulation of paracrine pathways with growth factors enhances embryonic stem cell engraftment and host-specific differentiation in the heart after ischemic myocardial injury.
Kofidis T, de Bruin JL, Yamane T, Tanaka M, Lebl DR, Swijnenburg RJ, Weissman IL, Robbins RC.
Circulation. 2005 May 17;111(19):2486-93.
PMID: 15883216 (IF: 17.047)
60. Caspase-3 inhibition preserves myocardial geometry and long-term function after infarction.
Balsam LB, **Kofidis T**, Robbins RC.
J Surg Res. 2005 Apr;124(2):194-200.
PMID: 15820248 (IF: 2.198)
61. Cyclosporine mitigates graft coronary artery disease in murine cardiac allografts: description and validation of a novel fully allogeneic model.
Tanaka M, Mokhtari GK, Balsam LB, Cooke DT, **Kofidis T**, Zwierzchoniewska M, Robbins RC.
J Heart Lung Transplant. 2005 Apr;24(4):446-53.
PMID: 15797747 (IF: 7.509)
62. Insulin-like growth factor promotes engraftment, differentiation, and functional improvement after transfer of embryonic stem cells for myocardial restoration.
Kofidis T, de Bruin JL, Yamane T, Balsam LB, Lebl DR, Swijnenburg RJ, Tanaka M, Weissman IL, Robbins RC.
Stem Cells. 2004;22(7):1239-45. PMID: 15579642 (IF: 5.902)
63. Injectable bioartificial myocardial tissue for large-scale intramural cell transfer and functional recovery of injured heart muscle.
Kofidis T, de Bruin JL, Hoyt G, Lebl DR, Tanaka M, Yamane T, Chang CP, Robbins RC.
J Thorac Cardiovasc Surg. 2004 Oct;128(4):571-8. PMID: 15457158 (IF: 3.494)
64. Overexpression of human copper/zinc superoxide dismutase (SOD1) suppresses ischemia-reperfusion injury and subsequent development of graft coronary artery disease in murine cardiac grafts. Tanaka M, Mokhtari GK, Terry RD, Balsam LB, Lee KH, **Kofidis T**, Tsao PS, Robbins RC.
Circulation. 2004 Sep 14;110(11 Suppl 1):II200-6.
PMID: 15364863 (IF: 17.047)

65. Suppression of graft coronary artery disease by a brief treatment with a selective epsilonPKC activator and a deltaPKC inhibitor in murine cardiac allografts.
Tanaka M, Terry RD, Mokhtari GK, Inagaki K, Koyanagi T, **Kofidis T**, Mochly-Rosen D, Robbins RC.
Circulation. 2004 Sep 14;110(11 Suppl 1):II194-9.
PMID: 15364862 (IF: 17.047)
66. Cardiomyocyte-specific Bcl-2 overexpression attenuates ischemia-reperfusion injury, immune response during acute rejection, and graft coronary artery disease.
Tanaka M, Nakae S, Terry RD, Mokhtari GK, Gunawan F, Balsam LB, Kaneda H, **Kofidis T**, Tsao PS, Robbins RC.
Blood. 2004 Dec 1;104(12):3789-96. PMID: 15280201 (IF: 11.841)
67. Pulmonary preservation with LPD and celsior solution in porcine lung transplantation after 24h of cold ischemia.
Sommer SP, Warnecke G, Hohlfeld JM, Gohrbandt B, Niedermeyer J, **Kofidis T**, Haverich A, Strüber M.
Eur J Cardiothorac Surg. 2004 Jul;26(1):151-7.
PMID: 15200994 (IF: 2.803)
68. Replacement of the aortic root for acute prosthetic valve endocarditis: prosthetic composite versus aortic allograft root replacement.
Leyh RG, Knobloch K, Hagl C, Ruhparwar A, Fischer S, **Kofidis T**, Haverich A.
J Thorac Cardiovasc Surg. 2004 May;127(5):1416-20. PMID: 15116001 (IF: 3.494)
69. Distinct cell-to-fiber junctions are critical for the establishment of cardiotypical phenotype in a 3D bioartificial environment.
Kofidis T, Balsam L, de Bruin J, Robbins RC.
Med Eng Phys. 2004 Mar;26(2):157-63. PMID: 15036183 (IF 1.619)
70. Haematopoietic stem cells adopt mature haematopoietic fates in ischaemic myocardium.
Balsam LB, Wagers AJ, Christensen JL, **Kofidis T**, Weissman IL, Robbins RC.
Nature. 2004 Apr 8;428(6983):668-73.
PMID: 15034594 (IF: 38.138)
71. Pulsatile perfusion and cardiomyocyte viability in a solid three-dimensional matrix.
Kofidis T, Lenz A, Boublik J, Akhyari P, Wachsmann B, Mueller-Stahl K, Hofmann M, Haverich A.
Biomaterials. 2003 Dec;24(27):5009-14.
PMID: 14559014 (IF: 8.387)
72. [Ross procedure with combined replacement of the ascending aorta: impact on autograft root function and distensibility].
Leyh RG, **Kofidis T**, Hagl C, Fischer S, Knobloch K, Akhyari P, Karck M, Haverich A.
Z Kardiol. 2003 May;92(5):392-7. German.
PMID: 12966831 (IF: 0.971)
73. Antegrade versus retrograde perfusion of the donor lung: impact on the early reperfusion phase.
Kofidis T, Strüber M, Warnecke G, Sommer S, Leyh RG, Balsam LB, Robbins RC, Haverich A.
Transpl Int. 2003 Nov;16(11):801-5.
PMID: 12856115 (IF: 2.835)
74. Methylene blue: the drug of choice for catecholamine-refractory vasoplegia after cardiopulmonary bypass? Leyh RG, **Kofidis T**, Strüber M, Fischer S, Knobloch K, Wachsmann B, Hagl C, Simon AR, Haverich A. J Thorac Cardiovasc Surg. 2003 Jun;125(6):1426-31.
PMID: 12830064 (IF: 3.494)

75. In vivo repopulation of xenogeneic and allogeneic acellular valve matrix conduits in the pulmonary circulation.
Leyh RG, Wilhelmi M, Rebe P, Fischer S, **Kofidis T**, Haverich A, Mertsching H.
Ann Thorac Surg. 2003 May;75(5):1457-63; discussion 1463.
PMID: 12735562 (IF: 2.975)
76. Carboxyfluorescein diacetate succinimidyl ester facilitates cell tracing and colocalization studies in bioartificial organ engineering.
Mueller-Stahl K, **Kofidis T**, Akhyari P, Wachsmann B, Lenz A, Boublik J, Heine M, Muehlfait V, Haverich A, Mertsching H.
Int J Artif Organs. 2003 Mar;26(3):235-40.
PMID: 12703890 (IF: 1.005)
77. Restoration of blood flow and evaluation of corresponding angiogenic events by scanning electron microscopy after a single dose of VEGF in a model of peripheral vascular disease.
Kofidis T, Nolte D, Simon AR, Metzakis A, Balsam L, Robbins R, Haverich A.
Angiogenesis. 2002;5(1-2):87-92.
PMID: 12549864 (IF: 4.301)
78. High failure rate after valve-sparing aortic root replacement using the "remodeling technique" in acute type A aortic dissection.
Leyh RG, Fischer S, Kallenbach K, **Kofidis T**, Pethig K, Harringer W, Haverich A.
Circulation. 2002 Sep 24;106(12 Suppl 1):I229-33.
PMID: 12354738 (IF: 17.047)
79. Traveling after heart transplantation.
Kofidis T, Pethig K, Rütger G, Simon AR, Strueber M, Leyh R, Akhyari P, Wiebe K, Haverich A.
Clin Transplant. 2002 Aug;16(4):280-4.
PMID: 12099984 (IF: 1.844)
80. In vitro engineering of heart muscle: artificial myocardial tissue.
Kofidis T, Akhyari P, Boublik J, Theodorou P, Martin U, Ruhparwar A, Fischer S, Eschenhagen T, Kubis HP, Kraft T, Leyh R, Haverich A.
J Thorac Cardiovasc Surg. 2002 Jul;124(1):63-9.
PMID: 12091810 (IF: 3.494)
81. Transplanted fetal cardiomyocytes as cardiac pacemaker.
Ruhparwar A, Tebbenjohanns J, Niehaus M, Mengel M, Irtel T, **Kofidis T**, Pichlmaier AM, Haverich A.
Eur J Cardiothorac Surg. 2002 May;21(5):853-7. PMID: 12062274 (IF: 2.803)
82. Clinical relevance of intracranial high intensity transient signals in patients following prosthetic aortic valve replacement.
Kofidis T, Fischer S, Leyh R, Mair H, Deckert M, Haberl R, Haverich A, Reichart B.
Eur J Cardiothorac Surg. 2002 Jan;21(1):22-6. PMID: 11788250 (IF: 2.803)
83. Surfactant function in lung transplantation after 24 hours of ischemia: advantage of retrograde flush perfusion for preservation.
Strüber M, Hohlfeld JM, **Kofidis T**, Warnecke G, Niedermeyer J, Sommer SP, Haverich A.
J Thorac Cardiovasc Surg. 2002 Jan;123(1):98-103.
PMID: 11782762 (IF: 3.494)
84. Impact of vascular branching sites on focal progression of allograft vasculopathy in transplanted hearts.
Pethig K, **Kofidis T**, Heublein B, Westphal A, Haverich A.
Atherosclerosis. 2001 Sep;158(1):155-60. PMID: 11500186 (IF: 3.942)

85. Minimally invasive coronary artery revascularization on the beating heart.
Cremer JT, Wittwer T, Böning A, Anssar MB, **Kofidis T**, Mügge A, Haverich A.
Ann Thorac Surg. 2000 Jun;69(6):1787-91.
PMID: 10892924 (IF: 2.975)
86. Early angiographic results after revascularization by minimally invasive direct coronary artery bypass (MIDCAB).
Cremer J, Mügge A, Wittwer T, Boening A, Kim P, Kofidis T, Drexler H, Haverich A.
Eur J Cardiothorac Surg. 1999 Apr;15(4):383-7; discussion 387-8.
PMID: 10371109 (IF: 2.803).

Total: 108

B. Reviews/Meta-analyses (18)

1. Targeted Myocardial Restoration with Injectable Hydrogels-In Search of The Holy Grail in Regenerating Damaged Heart Tissue.
Sazzad F, Kuzemczak M, Loh E, Wu W, **Kofidis T**.
Biomedicines. 2021 May 24;9(6):595. doi: 10.3390/biomedicines9060595.
PMID: 3407391
2. Impact of avoiding cardioplegic arrest on clinical outcome in patients undergoing CABG in Bangladesh: a systematic review and meta-analysis.
Sazzad F, Ganesh G, Cheekoty P, Veerappan M, **Kofidis T**. Indian J Thorac Cardiovasc Surg. 2021 Mar;37(2):153-163. doi: 10.1007/s12055-020-01054-4. Epub 2021 Jan 7.
PMID: 33642713
3. Antifibrinolytics reduces blood loss in thoracic surgery: a systematic review and meta-analysis.
L Leow, J Ng, HD Luo, AMTL Choong, H Mithiran, **T Kofidis**, JKC Tam
ANZ Journal of Surgery 91 (6), 1251-1259
4. FFR-guided versus coronary angiogram-guided CABG: A review and meta-analysis of prospective randomized controlled trials.
D Timbadia, A Ler, F Sazzad, C Alexiou, **T Kofidis**
Journal of Cardiac Surgery 35 (10), 2785-2793
5. Automated Fastener vs Hand-tied Knots in Heart Valve Surgery: A Systematic Review and Meta-analysis.
Sazzad F, Ler A, Kuzemczak M, Ng S, Choong AM, **Kofidis T**. Ann Thorac Surg. 2020 Dec 7:S0003-4975(20)32080-4. doi: 10.1016/j.athoracsur.2020.08.117. Online ahead of print. PMID: 33301736 Review.
6. Role of Vascular Smooth Muscle Cell Plasticity and Interactions in Vessel Wall Inflammation.
Sorokin V, Vickneson K, **Kofidis T**, Woo CC, Lin XY, Foo R, Shanahan CM.
Front Immunol. 2020 Nov 26;11:599415. doi: 10.3389/fimmu.2020.599415. eCollection 2020.
PMID: 33324416
7. Anticoagulation After Isolated Mitral Valve Repair: A Systematic Review and Meta-Analysis of Clinical Outcomes.
Papadimas E, Tan YK, Choong AMTL, **Kofidis T**, Teoh KKL. Heart Lung Circ. 2020 Oct 17:S1443-9506(20)30481-9. doi: 10.1016/j.hlc.2020.09.005. Online ahead of print. PMID: 33082110 Review.
8. Mitral valve re-repair vs replacement following failed initial repair: a systematic review and meta-analysis.

- Veerappan M, Cheekoty P, Sazzad F, **Kofidis T**. *J Cardiothorac Surg*. 2020 Oct 7;15(1):304. doi: 10.1186/s13019-020-01344-3. PMID: 33028386 Free PMC article. Review.
9. Left heart bypass versus circulatory arrest for open repair of thoracoabdominal aortic pathologies. Papadimas E, Tan YK, Qi Q, Ng JJ, **Kofidis T**, Teoh K, Sorokin V, Choong AMTL. *ANZ J Surg*. 2020 Sep 16. doi: 10.1111/ans.16287. Online ahead of print. PMID: 32935430 Review.
 10. Organization of thoracic surgical services during the COVID pandemic. Leow L, Ramanathan K, **Kofidis T**, Tam JKC, Mithiran H. *Surgeon*. 2020 Aug 7:S1479-666X(20)30100-1. doi: 10.1016/j.surge.2020.07.001. Online ahead of print. PMID: 32778525 Free PMC article. Review.
 11. Structural durability of early-generation Transcatheter aortic valve replacement valves compared with surgical aortic valve replacement valves in heart valve surgery: a systematic review and meta-analysis. Ler A, Ying YJ, Sazzad F, Choong AMTL, **Kofidis T**. *J Cardiothorac Surg*. 2020 Jun 8;15(1):127. doi: 10.1186/s13019-020-01170-7. PMID: 32513222; PMCID: PMC7278207.
 12. Comparison of outcomes of the use of Del Nido and St. Thomas cardioplegia in adult and paediatric cardiac surgery: a systematic review and meta-analysis. Ler A, Sazzad F, Ong GS, **Kofidis T**. *Perfusion*. 2020 May 18.
 13. Meta-Analysis of the Benefit of Beta-Blockers for the Reduction of Isolated Atrial Fibrillation Incidence after Cardiac Surgery. Yoshio Masuda, Luo Hai Dong, MD, PhD, Kang Giap Swee, MBBS, FRCS, Kristine Teoh Leok-Kheng, MBBS, FRCS, Theodoros Kofidis, MD, FRCS. *JTCVS Open*, Aug. 2020.
 14. Myocardial restoration: is it the cell or the architecture or both? Vu DT, Martinez EC, **Kofidis T**. *Cardiol Res Pract*. 2012;2012:240497. doi: 10.1155/2012/240497. Epub 2012 Feb 16. PMID: 22400122 (IF: 0)
 15. Challenges in deriving and utilizing stem cell-derived endothelial cells for regenerative medicine: a key issue in clinical therapeutic applications. Rufaihah AJ, Lee CN, **Kofidis T**. *J Stem Cells*. 2011;6(2):93-9. PMID: 22997849 (IF: 0)
 16. Adult stem cells for cardiac tissue engineering. Martinez EC, **Kofidis T**. *J Mol Cell Cardiol*. 2011 Feb;50(2):312-9. doi: 10.1016/j.yjmcc.2010.08.009. Epub 2010 Aug 13. PMID: 20709074 (IF: 4.874)
 17. Myocardial tissue engineering: the quest for the ideal myocardial substitute. Martinez EC, **Kofidis T**. *Expert Rev Cardiovasc Ther*. 2009 Aug;7(8):921-8. doi: 10.1586/erc.09.81. Review. PMID: 19673670 (IF: 0)
 18. [Tissue engineering: in vitro creation of tissue substitutes]. Teebken OE, **Kofidis T**, Akhyari P, Haverich A. *Zentralbl Chir*. 2007 Jun;132(3):236-46. Review. German. (IF: 0.638)

C. Editorials (6)

1. **Theo Kofidis**, Mario Gaudino. Mitral valve repair for ischemic mitral regurgitation: the jury is still out. *Ann Thorac Surg*.2021Apr24;S0003-4975(21)00738-4.doi 10.1016/j.athoracsur.2021.04.035. Online ahead of print.
2. Commentary: Surgical mitral plasticity: Another brick in the wall? Antonio M. Calafiore, **Theodoros Kofidis**, Mario Gaudino. *JTCVS Open*Volume 1March 2020. Pages 17-19
3. How Minimal is ... Minimal?
Kofidis T.
Hellenic J Cardiol. 2013 Mar-Apr;54(2):81-3.
PMID: 23557606 (IF: 0.94)
4. Burden of End-Stage Organ Failures on Quality of Life and Impact on Society.
MH Zaw, **Kofidis T.**
Annals Academy of Medicine Singapore, 2011 May, 40 (5), 204-206. PMID: 21678009 (IF: 1.041)
5. The ideal graft of the future: a prospect of messianic proportions?
Klima U, **Kofidis T.**
Asian Cardiovasc Thorac Ann. 2009 Jun;17(3):238-9. doi: 10.1177/0218492309104760.
PMID: 19643845 (IF: 0)
6. From vision to mission in myocardial restoration.
Kofidis T, Lee CN.
Asian Cardiovasc Thorac Ann. 2008 Apr;16(2):91-2
PMID: 18381862 (IF: 0)

D. Case Reports (20)

1. HK Shi, S Chook, L Leow, SL Lim, K Ramanathan, **T Kofidis**, GS Kang. Massive pulmonary embolism in a patient with nephrotic syndrome and single lung. *J Thromb Thrombolysis*. 2021 Jan 2. doi:1007/s11239-020-02350-x. Online ahead of print.
2. Total pulmonary artery replacement with an Avalus-Gelweave conduit in a patient with giant pulmonary artery aneurysm with pulmonary regurgitation. Qian Q, Subbian SK, **Kofidis T.** *J Card Surg*. 2020 Mar 16.
3. Chan PF, **Kofidis T**, Tan KB, Yip JW, Ling LH. Left atrial appendage mass. *Echocardiography*. 2018 Dec;35(12):2106-2108.
4. Kong WKF, Choong CC, Sule JA, Poh KK, **Kofidis T.** Paravalvular root abscess with mycotic pseudoaneurysm. *Eur Heart J*. 2018 Nov 1;39(41):3751-3752. PubMed PMID: 30020432.
5. Three-Dimensional Transesophageal Echocardiography in the Excision of a Myocardial Pseudoaneurysm. Chang G, Lim RT, Vu TD, **Kofidis T**, Ti LK. *Anesth Analg*. 2015 Dec;121(6):1464-6. PMID: 26579654 (IF: 3.827)
6. Difficulties With the Use of Thromboelastometry in a Patient With Antiphospholipid Syndrome Undergoing Cardiac Surgery. Lee ES, Narasimhan U, **Kofidis T**, Ti LK. *J Cardiothorac Vasc Anesth*. 2015 Aug;29(4):1016-20. doi: 10.1053/j.jvca.2014.02.006. Epub 2014 Sep 10. PMID: 25217399 (IF: 1.519)
7. Video-assisted thoracoscopic surgery atrial clipping for atrial fibrillation. Mithiran H, Sule J, Sazzad F, Ong Y, Kah Ti L, **Kofidis T.** *Asian Cardiovasc Thorac Ann*. 2016 May;24(4):372-4. doi: 10.1177/0218492314563086. Epub 2014 Dec 11. PMID: 25504982 (IF:0)

8. Central extracorporeal membrane oxygenation for septic shock in an adult with H1N1 influenza. MacLaren G, Cove M, **Kofidis T**. *Ann Thorac Surg*. 2010 Sep;90(3):e34-5. doi:10.1016/j.athoracsur.2010.06.019. PMID: 20732472 (IF: 2.975)
9. Single Incision Minimally Invasive Cardiac Surgery (SIMICS). **Theodore Kofidis**, Duc Thang Vu, Chuen Neng Lee. Monday, August 26, 2013. <http://www.ctsnet.org/article/single-incision-minimally-invasive-cardiac-surgery-simics> (IF:0)
10. Intra-atrial embolus trapped in patent foramen ovale before systemic embolization. Ooi OC, Woitek F, Wong RC, Lee CN, Klima U, **Kofidis T**. *J Thorac Cardiovasc Surg*. 2010 Mar;139(3):e49-50. doi: 10.1016/j.jtcvs.2008.07.064. PMID: 19660325 (IF: 3.494)
11. Consequences of incomplete repair of acute type A aortic dissection. Sorokin VA, **Kofidis T**, Woitek F, Martinez EC, Lee CN, Klima U. *Interact Cardiovasc Thorac Surg*. 2008 Dec;7(6):1121-3. doi: 10.1510/icvts.2008.183418. PMID: 18718955 (IF: 1.329)
12. Aortic prosthesis re-replacement due to concealed stenosing subvalvular pannus ring. Emmert M, **Kofidis T**, Didilis V, Haverich A, Klima U. *Thorac Cardiovasc Surg*. 2007 Aug;55(5):331-2. PMID: 17629869 (IF: 0.957)
13. Iatrogenic type A dissection after attempted stenting of a descending aortic aneurysm. Zhang R, **Kofidis T**, Baus S, Klima U. *Ann Thorac Surg*. 2006 Oct;82(4):1523-5. PMID: 16996974 (IF: 2.975)
14. Anastomotic obstruction after magnetic vascular coupling after minimally invasive direct coronary artery bypass grafting. Klima U, **Kofidis T**, Beilner J, Maringka M, Kirschner S, Haverich A. *Ann Thorac Surg*. 2006 Feb;81(2):728-9. PMID: 16427888 (IF: 2.975)
15. Ross procedure with a quadricuspid pulmonary autograft. Sommer SP, Bara C, **Kofidis T**, Haverich A, Klima U. *J Thorac Cardiovasc Surg*. 2005 Jul;130(1):212-3. PMID: 15999067 (IF: 3.494)
16. Giant, free floating tendinous cord in the left ventricle. **Kofidis T**, Bara C, Haverich A, Klima U. *Eur J Cardiothorac Surg*. 2005 Apr;27(4):710. PMID: 15784383 (IF: 2.803)
17. Aortic root reimplantation for successful repair of an insufficient pulmonary autograft valve after the Ross procedure. Leyh RG, **Kofidis T**, Fischer S, Kallenbach K, Harringer W, Haverich A. *J Thorac Cardiovasc Surg*. 2002 Nov;124(5):1048-9. PMID: 12407400 (IF: 3.494)
18. Reversal of severe vasoplegia with single-dose methylene blue after heart transplantation. **Kofidis T**, Strüber M, Wilhelmi M, Anssar M, Simon A, Harringer W, Haverich A. *J Thorac Cardiovasc Surg*. 2001 Oct;122(4):823-4. PMID: 11581623 (IF: 3.494)
19. Hemoptysis following left ventricular aneurysm repair: a misleading clinical sign. **Kofidis T**, Hoepfer MM, Haverich A, Harringer W. *Chest*. 2000 Nov;118(5):1500-3. PMID: 11083711 (IF: 5.94)
20. Transthoracic fistula with erosion of the ascending aorta along an IMA-protecting graft. **Kofidis T**, Cremer JT, Haverich A. *Ann Thorac Surg*. 1999 Nov;68(5):1853-5. PMID: 10585077 (IF: 2.975)

E. Letters to Editor (6)

1. **Kofidis T**, Chang GH, Lee CN. Establishment of a minimally invasive cardiac surgery programme in Singapore. *Singapore Med J*. 2017 Oct;58(10):576-579.

Singapore Med J. 2017 Dec;58(12):723. PMID: PMC5651501.

2. First paediatric left ventricular assist device implantation as bridge-to-recovery in Singapore.
Kofidis T, Woitek F, Quek SC, Ang BL, Martinez EC, Klima U, Lee CN.
Ann Acad Med Singapore. 2009 Jul;38(7):649-2.
PMID: 19652861 (IF: 1.041)
3. eComment: radial artery doppler study in every case?
Kofidis T, Woitek F.
Interact Cardiovasc Thorac Surg. 2008 Oct;7(5):800. doi: 10.1510/icvts.2007.172569B.
PMID: 18801804 (IF: 1.329)
4. Nonpharmacologic support of the failing right ventricle.
MacLaren G, **Kofidis T**, Klima U.
Crit Care Med. 2008 Feb;36(2):662. doi: 10.1097/CCM.0B013E318162B7B5.
PMID: 18216653 (IF: 7.422)
5. A few critical aspects--and Achilles heels--of tissue engineering approaches to restore injured myocardium.
Kofidis T, Balsam LB, Robbins RC.
J Thorac Cardiovasc Surg. 2003 Dec;126(6):2113-4
PMID: 14688751 (IF: 3.494)
6. A novel contractile artificial myocardial tissue - on the way to the bioartificial heart.
Kofidis T, Ruhparwar A, Akhyari P, Haverich A.
J Heart Lung Transplant. 2001 Feb;20(2):188.
PMID: 11250318 (IF: 7.509)

Online / Media Publications

-Stanford University, William Gates Center -Department of Biodesign and Bioengineering. Link:
http://scpd.stanford.edu/scpd/students/DAM_UI/pages/VideoList.asp?CourseInfo=ME389&URL=http://stanford-online.stanford.edu/autumn2002/me389video.xml

-CTS Network: <http://www.ctsnet.org/sections/newsandviews/specialreports/article-4.html>
"Alternative Cardiac Therapies: Stem Cells and Tissue Engineering for the Heart"

Publications in:

- To Bima (Major circulation Greek Newspaper), multiple times.
- Kathimerini (Major Circulation Greek Newspaper and Journal), multiple times.
- Eleftherotypia (Major Circulation Greek Newspaper) and more.
- Multiple Greek magazines, Media, TV Interviews
- The World Society of Cardiothoracic and Vascular Surgery YouTube
- The Straits Times (Singapore), Multiple Contributions
- The Sun (online)

See **www** for Theo Kofidis at **Google: 19,200 Citations**

Dissertations/Theses supervised

1. Akhyari P. Production and Characterization of bioartificial myocardial tissue (Artificial Myocardial Tissue, A.M.T.). Hannover Medical School 2005 („magna cum laude“).
2. Metzakis A. Implantation of VEGF-loaded matrices following induction of hind limb ischemia. Hannover Medical School 2005. (Suma cum laude).
3. Boublik J. Mechanical properties and remodelling of hybrid cardiac grafts made from heart cells, fibrin and a biodegradable, elastomeric knitted fabric”. December 2005. (Magna cum laude).
4. Müller-Stahl K. Cardiac Tissue Engineering: analysis of implantation- and engraftment cinetics of bioartificial myocardial tissue in a heterotopic rat model. Hannover Medical School, Jan 2006, (Magna cum laude).
5. Lenz Andre. Manufacture of a 3-dimensional myocardial tissue equivalent in a novel bioreactor system. Hannover Medical School, 2006 (Magna cum laude).
6. Antonakis Manolis. Improvement of embryonic stem cell engraftment in a mouse myocardial restoration model, (ongoing).
7. Emmert Maximilian. Isolation and characterization of human resident cardiac stem cells. Manuscript finished and to be submitted in Feb to Circulation. Singapore, 2009.
8. Joerg de Bruin. Myocardial restoration using embryonic stem cells. Stanford, 2002-2003. (Multiple publications in peer-reviewed journals).
9. Rutger Jan Swijnenburg. Characterization of the recipients' immune response to embryonic stem cells injected for myocardial restoration. Stanford, 2003-2004 (Circulation 2005).
10. Darren Lebl. Suppression of tumorigenicity of embryonic stem cells destined for myocardial restoration. Stanford 2004.
11. Chang Guohao. Predictors of neurological outcome following cardiac surgery. Singapore 2007-2009, (manuscript accepted after revisions by the SMJ).
12. Georgiou Athanasia and Felix Woitek: OPCAB surgery in patients presenting with heart failure. Singapore 2008, (manuscript ready for submission).
13. Alison McKean. Poor glycemic control and higher than normal HbA1c levels do not affect post CABG outcome, Singapore 2008, (manuscript in preparations).

14. Alex Boehm and Trysha Chan. Influence of preop b-blocker therapy on the development of postoperative atrial fibrillation, Singapore 2008, (manuscript ready for submission).
15. Kanan Loganathan and Nieh Chin Chang. Renal function following OPCAB surgery vs. on-pump conventional revascularization, Singapore 2009, (manuscript ready for submission).
16. Ong Chin Siang. Saphenous grafts external support using a novel vein mesh device to prevent graft occlusion, Singapore, 2008-2009, (data collection, study ongoing).
17. Rufahiah bte Mohammad. Impact of previous coronary artery stenting on postoperative outcome following OPCAB vs. On-Pump Surgery. Singapore 2008, (manuscript in internal review)

The under #17 mentioned Rufahiah has now accomplished her **postdoctoral fellowship** at Stanford University Medical School under my NUS-based supervision and is now Asst. Professor in the Department of Surgery, NUS.

18. George Naveen Thomas. OPCAB surgery in patients who present with left main CAD, Singapore 2008, Paper submitted to the European Journal of CT Surgery.
19. Felix Woitek. Impact of antibiotic-coated sutures on postoperative surgical site infections, Singapore, (Manuscript in preparation).
20. Dr. Oh Hyun Rim. Injectable oxygen carrier and hydrogel prevents myocardial ischemia and enhances cell viability in rat myocardial ischemia/reperfusion model
21. Dr. Luo Hai Dong. Multi-Racial Asian Score (MRAS): An Innovative Postoperative Mortality Risk Prediction Tool for Isolated Coronary Artery Bypass Graft Surgery
22. Dr. Vu Duc Thang. Improvement of myocardial function and attenuation of cardiac remodeling after myocardial infarction using autologous platelet – Rich plasma and a hyaluronic acid-based hydrogel

Further supervisees:

Dr. Eliana Martinez (**RF, PhD, graduated**, now Asst. Professor, University of Miami, USA)

Dr. Sebastian Dunda (**postdoctoral fellow**, Germany)

Dr. Shera Liljiana (**post graduate research assistant, Singapore**)

Dr. Angelika Hagemann (**research fellow**, Germany).

Dr. Ooi Oon Cheong, Master of Science, have graduated.

Dr. Luo Hai Dong, **PhD**, have graduated

Dr. Vu Duc Thang, **PhD**, have graduated

Current PhD students under my supervision:

a. **Dr. Faizus Sazzad**

Thesis title: “Developing personalized atrioventricular heart valves for human implantation: biomimicry in design and testing”

Abstracts published / presented (Extracts, non-exhaustive)

1. **Kofidis T**, Baker A, Klima U, Haverich A. Mouse embryonic stem cells engraft in ischemic heart muscle, and induce a recipient splenocyte cytokine response. *Thorac cardiovasc Surg* 2005; 53:S3.
2. **Kofidis T**, Lenz A, Akhyari P, Klima U, Haverich A. Full thickness myocardial tissue construct with anastomosable core vessel based upon cardiomyocyte and endothelial cell coculture. *Thorac cardiovasc Surg* 2005; 53:S3.
3. **Kofidis T**, de Bruin J, Gold J, Haverich A, Robbins R. Cardiomyocyte-enriched human embryonic stem cells engraft in ischemic myocardium and support myocardial restoration. *Thorac cardiovasc Surg* 2005;53, Suppl.1, S45.
4. **Kofidis T**, Lebl DR, Martinez EC, Hoyt G, Tanaka M, Robbins RC. Novel injectable bioartificial tissue facilitates targeted, less invasive, large-scale tissue restoration on the beating heart after myocardial injury. *Circulation*. 2004;110, (17 Suppl):III1-835.
5. **Kofidis T**, de Bruin JL, Zwierchoniewska M, Swijnenburg R-J, Cooke DT, Lebl DR, Tanaka M, Fedoseyeva E, Robbins RC. Embryonic stem cell transplantation elicits a primarily Th-1 host T-cell response. *J Heart Lung Transplant*. 2004;23, (2 Suppl):S160-S161
6. **Kofidis T**, de Bruin JL, Swijnenburg R-J, Lebl DR, Cooke DT, Tanaka M, Robbins RC. MHC-I Expression on Donor Allogeneic Embryonic Stem Cells Transplanted for Myocardial Repair Correlates with Indices of Differentiation. *J Heart Lung Transplant*. 2004;23, (2 Suppl):S101.
7. **Kofidis T**, de Bruin JL, Hoyt G, Yamane T, Swijnenburg R-J, Lebl DR, Tanaka M, Weissman IL, Robbins RC. Myocardial restoration with embryonic stem cell bioartificial tissue transplantation. *J Heart Lung Transplant*. 2004;23, (2 Suppl):S161.
8. **Kofidis T**, Balsam LB, de Bruin JL, Yamane T, Hoyt G, Yamane Weissman IL, Robbins RC. Engraftment and tumorigenicity of early embryonic stem cells in myocardial scar tissue –A comparative study in syngeneic, allogeneic and SCID mice. *Am J Transplantation*. 2003;3, (S5):547
9. **Kofidis T**, Ruhparwar A, Akhyari P, Haverich A. A novel contractile artificial myocardial tissue - on the way to the bioartificial heart. Abstract 116. *J Heart Lung Transplant*. 2001 Feb; 20(2): 188.

10. **Kofidis T**, Strüber M, Warnecke G, Sommer S, Haverich A. Antegrade vs. Retrograde Perfusion of Donor Lung. Impact on the Early Reperfusion Phase. *Thorac Cardiovasc Surg.* 2000 Feb; 48 Suppl 1:1-170.
11. **Kofidis T**, Wittwe T, Schoder C, Haverich A, Cremer J. Indications for the minimal invasive direct coronary artery bypass grafting (MIDCAB) in patients with multiple vessel disease. *Cardiovasc Surg.* 1999 Sep; 7 Suppl 1:1-159.
12. **Kofidis T**, Deckert M, Welz A, Mair H, Reichart B, Haberl R. HITS after prosthetic heart valve implantation: comparison of two valve types. *J Neuroimaging* 1995; 5(supp 2)
13. **Kofidis T**, Mair H, Welz A, Deckert M, Haberl R, Reis A, Reichert B. Clinical relevance of cerebral microembolism after heart valve prosthesis. *Int J Artif Organs.* 1995; 18(8): 443
14. Tanaka M, **Kofidis T**, Robbins RC. In vivo visualization of cardiac allograft rejection and trafficking passenger leucocytes using bioluminescence imaging. *Circulation.* 2004 Oct 26;110, (17 Suppl):III1-835.
15. Lebl DR, **Kofidis T**, Robbins RC. Gene transfer of BCL2 into embryonic stem cells enhances cell survival following transplantation into ischemic mouse myocardium. *Circulation.* 2004 Oct 26;110, (17 Suppl):III1-835.
16. de Bruin JL, **Kofidis T**, Yamane T, Tanaka M, Weissman IL, Robbins RC Stimulation of Paracrine Pathways Enhances Embryonic Stem Cell Engraftment and Differentiation in the Injured Heart, *J Heart Lung Transplant.* 2004 Feb; 23, (2 Suppl):S101
17. Tanaka M, Terry RD, Koyanagi T, Inagaki K, **Kofidis T**, Mochly-Rosen D, Robbins RC. Combined treatment with epsilon protein kinase C activator and delta protein kinase C inhibitor ameliorates ischemia reperfusion injury and graft coronary artery disease in murine cardiac allografts. *J Heart Lung Transplant.* 2004;23, (2 Suppl):S126
18. Tanaka M, Terry RD, Nakae S, Cooke DT, **Kofidis T**, Robbins RC. Overexpression of human Bcl-2 attenuates graft coronary artery disease by modulating local th1 immune response but not host immune response in murine cardiac allografts. *J Heart Lung Transplant.* 2004;23, (2 Suppl):S161
19. Tanaka M, Terry RD, Mokhtari GK, Hoyt G, Cooke DT, Cafarelli AD, **Kofidis T**, Robbins RC. Prolonged cold ischemia in rat cardiac allografts promotes ischemia reperfusion injury and the development of graft coronary artery disease in a linear fashion. *Am J Transplantation.* 2004;4, (S8):391
20. Tanaka M, Gunawan F, Cafarelli D, Koichi I, **Kofidis T**, Mochly-Rosen D, Robbins RC. Combined treatment with ePKC activator and dPKC Inhibitor reduces ischemia reperfusion injury and graft coronary artery disease caused by prolonged ischemia in rat cardiac allografts. *Am J Transplantation.* 2004; 4(S8).
21. Balsam LB, **Kofidis T**, Robbins RC. Caspase-3 inhibition preserves myocardial geometry and long-term function after infarction. *Circulation.* 2003;108, (17 Suppl):IV1-787.
22. Klima U, **Kofidis T**, Kutschka I, Lichtenberg A, Wittwer T, Haverich A. Perioperative Morbidität nach Doppelklappenersatz bei pulmonalem Hypertonus. *Acta Chir Austriaca.* 1999;(Suppl 153): 106.
23. Klima U, Cremer J, Wittwer T, Lichtenberg A, Harringer W, **Kofidis T**, Haverich A. Minimal Invasive Bypassoperationen als Rezidiveingriff. *Acta Chir Austriaca.* 1999;(Suppl 153): 29.

24. Klima U, Warnecke G, Kutschka I, Lichtenberg A, **Kofidis T**, Strüber M, Haverich A. Verbesserte Rechtsherzfunktion nach Applikation eines C-1-Esterase-Inhibitors im Rechtsherztransplantationsmodell. *Acta Chir Austriaca*. 1999;(Suppl 153): 40.
25. Harriger W, Pethig K, Schäfers KJ, **Kofidis T**, Hagl C, Wahlers T, Cremer J, Haverich A. Replacemnt of ascending aorta with repair of the aortic valve – 4 years follow up. *Thorac Cardiovas Surg*. 1998;46, (Suppl 1):223
26. Pfefferkorn T, Schwarz J, Tatsch K, **Kofidis T**, Schiller W, Haberl RL. Asymetrical 123-IBZM-binding in patients with prosthetic heart valves and asymptomatic transcranial Doppler-detected signals. *Cerebrovasc Dis*. 1996; 6(Suppl 2).
27. **Kofidis T**, Chen I, Martinez EC, Haverich A, Robbins RC. Large-scale myocardial repair on the beating heart using embryonic stem cell – derived cardiac myoblasts in a bioartificial matrix. 4th EACTS-ESTS Joint Meeting. Barcelona, Spain, September 25-28, 2005.
28. **Kofidis T**, Chen I, Hoyt G, Robbins RC. Large-scale myocardial repair on the beating heart using embryonic stem cell – derived cardiac myoblasts in a bioartificial matrix. 2nd International Conference on Tissue Engineering. Crete, Greece, May 22-27, 2005. Abstract Bulletin Aegean Conferences Series Vol.16, p. 82.
29. **Kofidis T**, Martinez EC, Klima U, Robbins RC. Novel, injectable bioartificial tissue facilitates targeted, less invasive, large-scale tissue restoration on the beating heart following myocardial injury. ESCVS 54th International Congress. Athens, Greece, May 19-22, 2005.
30. **Kofidis T**, Klima U, Beilner J, Haverich A. Facilitated MIDCAB with automated magnetic distal anastomotic system. ESCVS 54th International Congress. Athens, Greece, May 19-22, 2005.
31. **Kofidis T**, de Bruin JL, Hoyt G, Toshiyuki Yamane, Chang CP, Robbins RC. Injectable Bioartificial Tissue for Cell Transfer and Cardiac Repair: Embryonic Stem Cells for Tissue Engineering. 7th World Biomaterials Conference. Sydney, Australia, 17 – 21, May 2004.
32. **Kofidis T**, Swijnenburg R, Lebl DR, De BruinJL, Greve JM, Gold J, Xu C, Robbins RC. Allopurinol/Uricase and Ibuprofen enhance the restorative effect of cardiomyocyte-enriched, human embryonic stem cells following myocardial injury. Western Thoracic Surgical Association 30th Annual Meeting. Maui-Hawaii, USA. June 23-26 2004.
33. **Kofidis T**, De BruinJL, Zwierzchoniewska M, Yamane T, Tanaka M, Weissman I L, Fedoseyeva EV, Robbins RC. They are not stealthy in the heart: embryonic stem cells trigger cell infiltration, humoral and t-lymphocyte-based host immune response. 3rd EACTS / ESTS Joint Meeting. Leipzig, Germany, September 12-15, 2004.
34. **Kofidis T**, Swijnenburg R, Lebl DR, De BruinJL, Greve JM, Gold J, Xu C, Robbins RC. Allopurinol/Uricase and Ibuprofen enhance the restorative effect of cardiomyocyte-enriched, human embryonic stem cells following myocardial injury. Western Thoracic Surgical Association 30th Annual Meeting. Maui- Hawaii, USA, June 23-26, 2004.
35. **Kofidis T**, Wachsmann B, Akhyari P, Mueller-Stahl K, Lenz A, Cebotari S, Calliess T, Mertsching H, Haverich A. A new large animal model for the evaluation of bioartificial vascularized myocardial tissue. 30th Annual Congress European Society for Artificial Organs. Aachen – Germany, September 3 – 6, 2003.
36. **Kofidis T**, Wachsmann B, Akhyari P, Mueller-Stahl K, Lenz A, Cebotari S, Mertsching H, A Haverich. A new large animal model of transmural myocardial restoration using bioartificial vascularized myocardial grafts. 2nd EACTS / ESTS Joint Meeting. Vienna, Austria, October 12-15, 2003.

37. Bioartificial myocardial tissue for transmural heart muscle replacement. **T. Kofidis**. ESEM 2001. The 6th Biennial Conference of the European Society for Engineering and Medicine. Belfast, Northern Ireland May 3-5, 2001.
38. **Kofidis T**, Akhyari P, Martin U, Boublik J, Theodorou P, Ruhparwar A, Kraft T, Kubis HP, Brenner B, Gros G, Haverich A. Artificial Myocardial Tissue (AMT) – A Novel Contractile Engineered Heart Muscle. 1st Congress of the Cardiac Bioassist Association. Lübeck-Travemünde, Germany 24th - 26th May, 2001.
39. **Kofidis T**, Ruhparwar A, Akhyari P, Haverich A. A novel contractile artificial myocardial tissue - on the way to the bioartificial heart. The International Society for Heart and Lung Transplantation 21st Annual Meeting and Scientific Sessions. Vancouver, Canada, April 25-28, 2001.
40. **Kofidis T**, Akhyari P, Theodorou P, Boublik J, Ruhparwar A, Martin U, Haverich A. A Novel, Contractile Artificial Myocardial Tissue - on the Way to the Bioartificial Heart. 30th Annual Meeting of the German Society of Thoracic and Cardiovascular Surgery, February 18-21, 2001. Leipzig, Germany.
41. **Kofidis T**, Ruhparwar A, Akhyari P, Haverich A. A novel contractile artificial myocardial tissue - on the way to the bioartificial heart. 2nd International Meeting of the Onassis Cardiac Surgery Center. Athens, Greece, December 7-9, 2000.
42. **Kofidis T**, Ruhparwar A, Akhyari P, Haverich A. A novel multifunctional bioreactor –New prospects in tissue engineering and angiogenesis research. 2nd International Meeting of the Onassis Cardiac Surgery Center. Athens, Greece, December 7-9, 2000.
43. **Kofidis T**, Pethig K, Ruther G, Simon AR, Strueber M, Leyh R, Akhyari P, Wiebe K, Haverich A. Traveling after heart transplantation. 2nd International Meeting of the Onassis Cardiac Surgery Center. Athens, Greece, December 7-9, 2000.
44. **Kofidis T**, Strüber M, Haverich A. Extended hemodynamic and respiratory monitoring of reduced invasivity in the early posttransplantation phase. 4th International Congress on Lung Transplantation. Paris, France, September 15, 2000.
45. Kutschka I, Chen IY, **Kofidis T**, Zwierzchoniewska M, Arai T, von Degenfeld G, Sheikh AY, Hendry II SL, Lebl DR, Cooke DT, Gambhir SS, Robbins RC. Adenoviral Human BCL-2 Attenuates Early Cell Death Following Cardiomyoblast Transplantation into Ischemic Rat Hearts. Poster: 2146. AHA Scientific Sessions. Dallas, USA, Nov 13-16 2005.
46. Kutschka I, Chen I, **Kofidis T**, Pearl J, Sheikh A, Hendry S, Gambhir SS, Robbins RC. In vivo survival studies of transplanted cardiomyoblasts using optical bioluminescence. 4th EACTS-ESTS Joint Meeting. Barcelona, Spain, September 25-28, 2005.
47. Gruh I, Wunderlich S, Schwanke K, **Kofidis T**, Martin U. Lentiviral vectors mediating cardiomyocyte-specific gene expression –A versatile tool to characterize artificial myocardial tissue. 2nd International Conference on Tissue Engineering. Crete, Greece, May 22-27, 2005. Abstract Bulletin Aegean Conferences Series Vol.16, p. 82.
48. Klima U, **Kofidis T**, Akhyari P, Haverich A. Modern and prospective surgical therapies of ischemic heart disease. 23rd International Cardiovascular Surgical Symposium. Zürs am Alberg, Austria, February 26- March 5, 2005.
49. Callies T, Wachsmann B, Lenz A, Mueller-Stahl K, **Kofidis T**, Haverich A, Mertsching H. Cardiac tissue engineering: histological and functional characterisation of a myocardial patch. 30th Annual Congress European Society for Artificial Organs. Aachen – Germany, September 3 – 6, 2003.

50. Leyh RG, Wilhelmi M, Herden T, **Kofidis T**, Fischer S, Haverich A, Mertsching H. Engineering of Allogenic Acellularized Matrix Valvular Conduits Re-Endothelialized with Autologous Cells in the Pulmonary Circulation Western Thoracic Surgical Association 28th Annual Meeting. Montana, USA, June 19-22, 2002.
51. Mertsching H, Brenning O, **Kofidis T**, Haverich A. A vascularized biological scaffold with arterial and venous pedicles. 8th World Congress on Heart Failure. Washington DC, USA, July 13-16, 2002.
52. Brenning OH, Mertsching H, **Kofidis T**, Ruhparwar A, Macchiarini P, Haverich A. Construction of long, autologous tracheal segments by use of tissue engineering and a primarily vascularized starter matrix. 1st EACTS / ESTS Joint Meeting. Lisbon, Portugal, September 16-19, 2001.
53. Klima U, Lichtenberg A, Kutschka I, Warnecke G, **Kofidis T**, Bauer T, Haverich A. Risks of open internal thoracic arteries after CABG. 17th International Cardiovascular Surgical Symposium. Zürs, Austria, March 6-13 1999.
54. Three-Dimensional Transesophageal Echocardiography in the Excision of a Myocardial Pseudoaneurysm. Guohao Chang, Roy Tet Chen Lim, Thang Duc Vu, Theodoros Kofidis, Lian Kah Ti. Accepted on 9/10/15 for publication in Echo Rounds.
55. The Advent of a New Era in Coronary Revascularisation. Chang GH, T.Kofidis. Journal of Continuing Cardiology Education.
56. Cannulation strategies in Type A Aortic Dissection in a Tertiary Institution. Chang Guohao, Theo Kofidis. ASCVTS 2014.
57. Post-Operative Acute Kidney Injury in Stanford Type A Aortic Dissection. Chang Guohao, Theodoros Kofidis. WSCTS 2013.
58. Post-Infarction Ventricular Septal Rupture in a Tertiary Institution. Chang Guohao, Kang Giap Swee, Theodoros Kofidis
59. Case Report: Myocardial abscess in the Crux of the Heart. Chang GH, T Kofidis. ASCVTS 2014.
60. Presentation: How to Set-up a New Minimally Invasive Cardiac Surgery Program Theodoros Kofidis, Thailand, 2012.
61. Presentation: Aortic Clamps for MICS; Theodoros Kofidis, 2012
62. Presentation: Surgery From the Side; Theodoros Kofidis AATS Valve Meeting, Istanbul, September 2014.
63. Presentation: Mitral Valve Repair Anterior Leaflet Repair and Single-Incision MICS Theodoros Kofidis, KL Conference, 2012.
64. Presentation Natural patches from the heart to the infarct: functional improvements and induced vascularization towards regeneration of a scarred tissue. Sarig, Hadar; Sarig, Udi; Chaw, Su Yin; de Berardinis, Elio; Ramanujam, Vaibavi .S.; Jalil, Rufaihah B.A.; Thang, Vu D.; Seliktar, Dror; Kofidis, Theodoros; Boey, Freddy Yin Chiang; Venkatraman, Subbu; Machluf, Marcelle. ICBME 2013 .
65. Presentation Transapical Cardioscopic Surgery. Kofidis, Theo, Vu, Duc-Thang Srirangam, Vaibavi Ramanujam, Chang, Guohao, Shripad, Pal Nagesh, Lee, Chuen-Neng, AATS 2013.
66. Presentation THE FIRST EXPERIENCE WITH PERCEVAL-S SUTURELESS AORTIC

PROSTHESIS IN SINGAPORE. Duc Thang Vu, Guohao Chang, Hardip Singh, Kristine Leok Kheng Teoh, Chuen Neng Lee, Theo Kofidis,; ASCTVS2013, Kobe Japan.

67. Poster: Autologous, Non-cell Based Compound Restores Left Ventricular Structure And Function And Amelioration Adverse Remodeling In A Minimally Invasive Large Animal Myocardial Ischemia Model; A Translational Approach. Duc-Thang Vu, Shripad N Pal, Lian-Kah Ti, Lieng-Hsi Ling, Chuen-Neng Lee, Mark A Richards, Theo Kofidis,. AHA2013, Dallas, TX, USA.
68. Presentation: Heart Failure Therapy Using Partial Flow Minimally Invasive Assist Devices and Myocardial Restoration; Turning INTERMACS 3,4,5,6 Heart Failure to a Manageable Disease Theodoros Kofidis; USC Meeting May, 2013.
69. Presentation: The Trifecta™ Heart Valve; Theodoros Kofidis ATCSA2014, Hanoi, Vietnam.
70. Presentation: Cardiac Surgery in Asia; Theodoros Kofidis 24th WSCTS World Congress 2014 # Geneva, Switzerland.
71. Presentation Design of a Novel Flexible Endoscope: Cardioscope. Zheng Li, Min Zin Oo, Varun Nalam, Duc Thang Vu, Haoyong Yu, Hongliang Ren, Theodoros Kofidis ASME 2015 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE 2015)

Academic Activities (Invited Lectures/Workshops etc.)

1. **Invited Speaker:** Multimodal surgical approach: CABG & Mitral Valve Repair & LV Reconstruction, Invited Speaker 2 - Combined Use of stem cell transplant & bioartificial tissue for myocardial restoration in ischemic cardiomyopathy 9th Panhellenic Congress of Heart Failure. Athens, Greece 01.02.2008-03.02.2008.
2. **Invited speaker:** ' Medical Writing ' & Invited Speaker: Title - Surgical Possibilities in the therapy of heart failure: between myth & panacea. Cardiac Surgery -Series of Lunchtime Educational Talks. Onassis Cardiac Surgery Ctr, Athens, Greece 12.02.2008 -14.02.2008.
3. **Invited Speaker:** Myocardial Restoration: In search of the magic cell. Biomedical Research Foundation, Academy of Athens, Greece. 04.02.2008.
4. **Invited tutor:** Instructor for Hands-On Session Regent & Epic Valves. SJM WetLab Course for CTS Surgeons - The Tan Sri Khoo Teck Puat ASTC. Invited Instructor for St Jude Medical.
5. **Invited speaker:** Tissue Engineering & Stem Cell Transplantation in Cardiac Surgery: The Implications on Patient Safety & Nursing Care. ASCVS2008. Raffles City Convention Hall, Singapore. Committee Member /Speaker/Chairperson.
6. **Internal/External Examiner:** MBBS Exams in SGH.
7. **Nominated Marker:** for MBBS-OSSE Exam. Dept of O & G Shared Conference Room.
8. **Editor:** 2008 Editorial Board Meeting of The Asian Cardiovascular & Thoracic Annals. Raffles City Convention Centre, 2 Stamford Road, Level 4, Meeting Room.
9. **Invited Surgeon (Videoconference):** 3D Transesophageal Echocardiogram Workshop. Cardiovascular Centre Int'l Advisory Panel Meeting. Khoo Teck Puat ASTC, Level 2, KRW. Seminar Room, ASTC Level 2, KRW, NUH.
10. **Organizer, invited speaker:** 18th World Congress: World Society of Cardio-Thoracic Surgeons Co-chairman: Coronaries. Topic 1: Myocardial restoration by stem cells & tissue engineering, Topic 2: Trends & alternatives in heart failure. Kos Island - Greece. 30.04.2008
11. **Inventor (NUS/IO):** Title of Invention: An Improved Device & Method for Implantation of a prosthesis. Filing of Patent Application SP9341/ME. 14.04.2008.
12. **Trainee:** Post Graduate Course: Percutaneous Valvular Therapies Course, Poster Presentation: Minimal Invasive, Large Scale Myocardial Restoration on the Beating Heart Following Myocardial

- Injury. 11th Annual Scientific Meeting of ISMICS. Boston Massachusetts, USA. 11.06.2008-14.06.2008.
13. **Trainee:** Post Graduate Course: Master of Valve Repair Program. The Premier College on Endoscopic & Transcatheter Valve Interventions. Aalst, Belgium. 16.06.2008 -18.06.2008.
 14. **Supervisor:** Research Title: External Saphenous Vein Support Mesh Graft Study/ESVS. UROP: Undergraduate Research Opportunities Program, YLL SoM. NUH, Singapore. 27.06.2008.
 15. **Invited speaker:** Towards novel & efficient cardiac surgery techniques: a hand -in-hand approach. Cardiac Dept Lecture Theatre, Level 3 Main Building NUH. 23.07.2008, 115pm - 2pm.
 16. **Trainee:** Eurasian Workshop on Valve Repair in a rural cardiac centre. St Gregorios Cardiovascular Centre & sponsored by Dr KM Cherian Heart Foundation. Parumala, Pathanamthitta, Kerala, India. 11.07.2008 -13.07.2008.
 17. **Invited speaker:** Myocardial Restoration Using Stem Cells & Tissue Engineering Technology: from vision to mission. Invited Speaker for The 37th Stem Cell Club Meeting: Invitation from Prof Robert Zweigerdt. Breakthrough, Level 4, Matrix, Biopolis 17.07.2008:530pm - 630pm.
 18. **Invited speaker:** Guidelines for Surgical Site Infection Documentation. Dept of CTVS, Weekly CME Lecture Theatre. 16.07.2008, 730am – 8 am.
 19. **Invited tutor, Co-organizer:** Designing & structuring a study, drafting a paper. Short Course on Research Methodology Workshop.26.07.2008
 20. **Invited speaker:** Current developments in myocardial restoration: between hype & hope. Invited Lecturer for the 3rd Scientific Meeting of Asian Society for Vascular Biology/ ASVB. Centre for Life Sciences Auditorium. 05.08.2008, 1420 – 1445.
 21. **Advisor:** Research material for ESVS/External Saphenous Vein Support Mesh Graft Study as invited by Kips Bay Inc. Minnesota, 10.08.2008-17.08.2008. Minnesota, USA.
 22. **Trainer & Speaker:** Guidelines & Indications for heart valve surgery. Valve WetLab Workshop. Khoo Teck Puat ASTC Level 2 KRW NUH. 07.08.2008.
 23. **Examiner/Tutor:** M3 End of Posting Test/Assessment. Seminar Room 4B, Level 4, Main Building. 02.08.2008. NUH.
 24. **Invited tutor, Co-organizer:** Workshop on Clinical Research Methodology. Dept of Surgery Research Committee Course. Seminar Room 4B, Level 4, Main Building, NUH. 13.09.2008.
 25. **Clinical tutor:** Cardiac Tutorial. M3. CTVS Lecture Theatre, Dept of CTVS, Level 2 Main Building, NUH. 02.10.2008. Cardiac Tutorial CTVS Lecture Theatre, Dept of CTVS, Level 2 Main Building, NUH. 21.10.2008.
 26. **Trainee:** Medical Ethics, Professionalism & Health Law Course for AST & FM Trainees. SAFRA Mt Faber, 2 Telok Blangah Way, Spore 098803. 09.10.2008 - 11.10.2008.
 27. **Invited Speaker:** Myocardial restoration using stem cells & tissue engineering technology: from vision to mission. The 24 th Kumamoto Medical Bioscience Symposium: Frontiers of Vascular Medical Science & Innovative Therapy Kumamoto, Japan.
 28. **Invited Speaker:** Promise of stem cell therapy 7th Panhellenic Congress of Thoracic & Cardiovascular Surgery. Thessaloniki, Greece @ Grand Palace Hotel.
 29. **Participant:** NHG Annual Scientific Congress. Suntec Spore Int'l Convention & Exhibition Ctr.
 30. **Trainee:** Robotic Surgery Workshop. ASTC-Seminar Hall/ SmartLab, Level 2 KRW, NUH.
 31. **Participant:** Thoracic Course ASTC, Level 2, KRW, NUH.
 32. **Invited Speaker:** The BIG Pitch NUS Extension – National Research Foundation @ Park Mall.
 33. **Trainee:** Workshop on Imaging, Transcatheter Techniques & Technologies for Cardiac Surgeons: Individual Training & Hands -on simulation Siemens Educational Center, Forchheim, Germany 03.12.2008 - 05.12.2008.

34. **Invited speaker / Press Conference:** NRF -POC Grant. EDB Level 28, Room 16, Raffles City, Singapore. 18.12.2008.
35. **Tutor:** M5 Cardiac Tutorial. Lecture Theatre 29, Science Faculty, NUS. 23.12.2008.
36. **Moderator** Free Paper Session & Participant , Aortic Bali Asia 2012 & ASCVTS2012, 07.03.2012 -11.03.2012 , BICC, Westin Resort , Nusa Dua Bali Indonesia.
37. **Examiner & Marker,** The 3rd Professional Examination for BDS (Clinical Component) , Meeting Room , KTP Advanced Surgery Training Centre, 15.03.2012, 0830hrs - 1400 hrs.
38. **Speaker:** OPCAB in Multivessel Disease, CTS Retreat : Updates on Complex Coronary Surgery
Organiser : College of Surgeons , Singapore, NUHS Towerblock, 1E Kent Ridge Rd, Spore 119228, 07.04.2012, 0800 hrs - 1330 hrs "
39. **Speaker:** Single Incision/Port Minimally Invasive Mitral Valve Surgery, Invited Speaker at "SORIN: Heart of Evolution - Asian Chapter Kuala Lumpur, Malaysia ". Institut Jantung Negara , Kuala Lumpur , Malaysia. 9.05.2012 - 10.05.2012
40. **Invited Faculty,** Site Visit & Research Discussion with Prof Dror Seliktar for the Technion - NRF Project, Tel Aviv , Israel , 21.05.2012 - 27.05.2012
41. Transcatheter Valve Therapies: An Advanced Scientific & Clinical Workshop , Organised by Cardiovascular Research Foundation , Westin Hotel , Seattle , USA , 01.06.2012 - 06.06.2012
42. **Invited Faculty/Speaker:** Presentations on Heart Failure Programme -Title : Bigger Disease - Smaller Surgery : State of the Art Heart Failure and Minimally Invasive Heart , Lung & Vessel Operations , Collaboration with Siloam Hospitals Group & Universitas Pelita Harapan (Medical Faculty), Siloam Hospitals Group , Jakarta , Indonesia , 28.06.2012 - 29.06.2012.
43. Job Shadowing Programme (Student Attachment), Ms Choo Shuk Yee (Self-request), Dept of CTVS, NUHCS, 01.07.2012 - 15.07.2012.
44. Job Shadowing Programme (Student Attachment), Mr Victor Lee (Self-request), Dept of CTVS, NUHCS, 23.07.2013 - 06.08.2013.
45. Advanced TAVI Training, TAVI Heart Team and ACURATE TA Aortic Bioprosthesis and Delivery System Training, Hamburg, Germany, 23.07.2012 - 29.07.2012.
46. Hosting Proctor Prof Borut Gersak: Chairperson for Invited Lecture, NUHS Towerblock, L9, 02.08.2012.
47. **Proctor:** Wetlab Workshop on Pig's Heart -Implantation of SORIN PERCEVAL Sutureless Valve ,Hand Microsurgery Training Room , Level 2 , ASTC , KRW, 03.08.2012
48. **Invited Speaker:** Singapore VALVE -Heart Valve and latest Therapies. Mitral Regurgitation Session. Title: "Recorded Case Mini MVR", Grand Copthorne Waterfront Hotel, 07.09.2012 - 09.09.2012.
49. **Invited Speaker,** Topic: "How do I prepare for a new minimally invasive cardiac surgery project". 2nd Minimally Invasive Mitral Valve Surgery, Chiang Mai, Thailand, 09.09.2012 - 11.09.2012.
50. **Chair and faculty:** Hosting Visiting Expert: Prof Frank Van Praet (sponsored by Edwards Lifesciences). Live Surgeries using Endoballoon & Speaker for Dinner Lectures at Marriott Hotel Belimbing Room, 14th Sept 6 pm - 10 pm. Title "External Clamping Techniques in Minimal Invasive Heart Valve Surgery". Dept of CTVS, NUHCS, 12.09.2012 - 14.09.2012
51. **Invited Speaker,** Topic: "New Trends in Heart Surgery: Minimally Invasive Technologies". NUH Health Education Talk. O &G seminar room, Level 6, MB, NUH.
52. Job Shadowing Programme (Student Attachment), Ms Annika Karina Wenka (Self-request) Dept of CTVS, NUHCS. 15.09.2012 - 23.11.2012.
53. **Organizer and speaker:** MOH HMDP Visiting Expert Program: Local Coordinator & Host "Live Surgery - MICS by Prof Jurg Grunenfelder from University of Zurich, Switzerland " Dept of CTVS , NUHCS . 08.10.2012 - 12.10.2012
54. **Invited Speaker:** 33rd Panhellenic Congress of Cardiology, Athens, Greece, Received Life-time contributions Award.

55. Singapore **Faculty Member & Speaker**, Title "Innovations in Cardiac Surgery – MIS, Robots and more", 7th Asian Cardiothoracic Surgery Specialty Update Course (7th ACSSUC), Auditorium, NUHS, Tower block.
56. Hospital Visit, Ho Chi Minh City, Vietnam, 06.01.2013 - 08.01.2013
57. Student Attachment: Jared Yeo (Medical Yr 2 Student from University of New South Wales - Currently attachment under Dr Yeo Tseng Tsai) to observe cardiac surgery, Dept of CTVS, NUHS, 17.01.2013.
58. **Invited Speaker**, topic: "Modern PCI and New Frontiers of Coronary Revascularisation: Combining Science, Practice & Technology", Invited Speaker, Topic: "Hybrid Revascularisation Case", The Sands Expo & Convention Centre, Singapore", 24.01.2013.
59. Student Attachment: Joshua to observe Surgery, Dept of CTVS, NUHS, 28.01.2013 & 31.01.2013.
60. Student Attachment: Joshua to observe cardiac surgery, Dept of CTVS, NUHCS, 04.02.2013.
61. **Invited Speaker**: Presentation to Royal Embassy of Cambodia's visit to NUHS. Presenter Topic: "Minimally Invasive Cardiac Surgery", NUHCS, 14.02.2013.
62. Singapore-MIT Presentation: BIO13042A - A Grid Ring for Heart Valve Repair. SMART Office; CREATE Tower #10-01 Singapore 138602", 05.03.2013.
63. **Invited Speaker** - Case Scenario: to set the scene an INTERMACS I. Case Topic: "What will I do?" CTS Retreat No: 3 - Heart Failure. National Heart Centre (NHCS), Singapore, 09.03.2013
64. **Invited Speaker** by NUH International. 1. Topic: ""Pax Cardiaca - The peace of the heart" at Nguyen Tri Phuong Hospital; 2. Topic: ""Hybrid Portfolio to be expanded and explored" at Cho Ray Hospital , Ho Chi Minh City, Vietnam"; 14.03.2013 - 16.03.2013.
65. **Invited Faculty and Speaker**: ASCVTS 2013, Kobe, Japan; 04.04.2013 - 08.03.2013
66. New **Proctor** Welcome Meeting Sorin in Milan 17.04.2013 - 21.04.2013.
67. Speaker, American Association for Thoracic Surgery (AATS) 04.05.2013 - 08.05.2013
68. McGinn MICS CABG Education Program 10.05.2013 - 11.05.2013
69. Hand-off observer; Dr Guo Hongwei; Dept of CTVS, NUHS 20.05.2013 - 11.06.2013.
70. Student Attachment: Amoudtha D/O Rasendra M Dept of CTVS, NUHS 27.05.2013 - 24.08.2013.
71. Hands-off Observership: Dr Do Xuan Hai/Dr Trinh Cao Minh, Dept of CTVS, NUHS 17.06.2013 - 12.07.2013.
72. **Invited Speaker**, Topic: ""Less is more... Minimally Invasive Cardiac Surgery", Makassar Cardiac Update, Makassar, Indonesia 21.06.2013 - 23.06.2013.
73. Job Shadowing Programme: Angel Tan, Dept of CTVS, NUHS 24.06.2013 - 26.06.2013.
74. **Invited Speaker** Topic: "Improving Visibility and Quality of Anastomosis in Off-Pump Surgery " 4th CTS Retreat; ASTC, NUS 06.07.2013
75. Hands-Off Observership: Dr Md Faizu Sazzad, Dept of CTVS, NUHS 08.07.2013 - 13.07.2013.
76. **Invited Speaker**, Topics: "AVR Surgery in Asian vs. Western patients - Differences in patient presentation". Case Presentations – "Interesting and Difficult Cases Single Incision Minimally Invasive Cardiac Surgery (SIMICS)"; "Femoral Cannulation Techniques"; Heart of Evolution; Bangkok, Thailand 09.07-2013 - 11.07.2013
77. **Speaker Topic**: "Recent Advances in CTVS – NUHCS"; 5th CTS Retreat; Dept of CTVS, NUHS, 02.08.2013.
78. 5th CTS Retreat Co-organizer; Clinical Research Centre; 03.08.2013
79. **Invited Speaker**, Topic: "Minimal Access Mitral Valve Surgery Difficulties"; MICS 2013 - 3rd Live Minimally Invasive Cardiac Surgery Workshop; Yashoda Hospital, India 10.08.2013
80. Open Communications course - Milestone Devt Program NUHS, Tower Block 15.08.2013
81. 360 Results Workshop & 360 one-to-one coaching session for Medical Leaders NUHS, Tower Block 16.08.2013.
82. Large-Scale Synthesis & Potential Applications of Graphene Materials NUS 21.08.2013.

83. **Invited Speaker** Topics: "Minimal Access Mitral Valve Techniques More Minimal Than Minimal?" **Moderator** in Minimally Invasive Valve Surgery, World Society of Cardio-Thoracic Surgeons, Split, Croatia 13.09.2013 - 15.09.2013.
84. **Lecturer**, Topic: "Minimally Invasive Heart Surgery - Trend & Indication" Phase III CG25-CG32 Students 20.09.2013
85. **Invited Speaker**: Topic: "Less is more: the era of less invasive heart surgery, NUHCS Public Symposium - The Heart Truth, The Joyden Hall, Singapore, 21.09.2013.
86. **Lecturer** Topic: "Cardiac Surgical Intervention II (Valvular Surgery), 7th Perfusion Course - 2013 23.09.2013.
87. **Invited Speaker** Topic: "Minimally Invasive Cardiac surgery in General"; GP CME, NUHS Tower Block, 05.10.2013.
88. Cardiac CME Talk Topic: "MIDCAB", Cardiac Dept, 08.10.2013.
89. **Invited Speaker** Topics: "Minimally Invasive Cardiac Surgery Various Approaches to Minimally Invasive Mitral Valve Surgery", ATCSA 2013, Raffles City Convention Centre, Singapore 12.10.2013
90. Organizer: Visiting Expert: Prof Joseph McGinn Organizer, Dept of CTVS, NUHS 21.10.2013 - 25.10.2013.
91. SMC Lecture 2013: Mr Ngiam Tong Dow - Developing Singapore as an International Medical Centre, Grand Copthorne Waterfront Hotel, 26.10.2013.
92. **Lecturer**, Topic: "Modern Cardiac Surgery", Phase V Students, 28.10.2013.
93. **Invited Speaker** Topic: "Less Invasive Cardiac Surgery", Medtech & Surgical Excellence Conference, NUHS Tower Block, 01.11.2013.
94. **Invited Speaker**: Topic: "How we minimize the invasiveness of heart valve surgery" 7th Mulu Rafflesia Heart Valve Symposium, Siem Reap - Cambodia 20.11.2013 - 25.11.2013.
95. **Lecturer** Topic: "Minimally Invasive Heart Surgery - Trends and Indications Dept of Surgery" - Yr III Students, 25.11.2013.
96. Hosting BMRC Deputy Directory Dr Ed Holmes, National Research Foundation 27.11.2013.
97. BCLS +AED Course 2013, NUH, 29.11.2013.
98. **Course Director**, MICS Workshop "8th Asian Cardiothoracic Surgery Specialty Update Course", 02.12.2013 - 03.12.2013.
99. Lung Cancer Symposium, NUHS Tower Block, 11.01.2014.
100. Student Attachment: Ali Jafary, Dept of CTVS, NUH 16.01.2014 - 17.01.2014.
101. **Program Committee**: STS Meeting, Orlando, USA, 23.01.2014 - 29.01.2014.
102. **Lecturer** - Phase III Posting, Topic: "Minimally Invasive Heart Surgery - Trends & Indications", Dept of Surgery, NUHS Tower Block 03.02.2014.
103. **Lecturer** - Phase V Posting, Topic: "Advances in Heart Surgery, Dept of Surgery, NUHS Tower Block, 05.02.2014.
104. **Awardee** AMDA Briefing, NUHS Tower Block, 07.02.2014.
105. **Proctor**: new medical device implantation, involving trips, tutoring and hands-on, Macau 16.02.2014 - 19.02.2014
106. **Examiner**: MBBS Objective Structured Clinical Exam (OSCE), NUS, 01.03.2014.
107. **Examiner**: MBBS Objective Structured Clinical Exam (OSCE), NUHS, Tower Block, 07.03.2014.
108. **Speaker and Chairperson**, 10th International Congress of update in Cardiology & Cardiovascular Surgery, Topic: "SIMICS - Single Incision Minimally Invasive Cardiac Surgery". Valve Summit - Chairperson", Istanbul 12.03.2014 - 18.03.2014.
109. **Organizer** 1st Asian MICS Course, 22nd Annual Meeting of the Asian Society for Cardiovascular & Thoracic Surgery Istanbul, 31.03.2014 - 09.04.2014.
110. Hospital **Advisor**, Peaon Medical Group Shanghai, Shanghai, China, 21.03.2014 - 23.03.2014.
111. **Lecturer** - Phase III Posting, Topic: "Minimally Invasive Heart Surgery - Trends & Indications", NUHS Tower Block 15.04.2014.
112. Chief Executive's Townhall Session 2014 (NUHS' Vision 2020) NUHS Tower Block, 16.04.2014.

113. **Speaker** at Graphene Meeting, Merci, Resonance, Singapore 17.04.2014.
114. Hospital **Advisor**, Peaon Medical Group Shanghai, Shanghai 25.04.2014 - 25.04.2014.
115. **Invigilator** AY2013/2014 - Phase III MEQ Paper (Part1) NUS 05.05.2014
116. **Speaker** at Minimally Invasive & Robotic Cardiovascular Surgery Symposium. Course Director: Minimally Invasive Cardiac Surgery Course; Session: Instrument Usage in Minimally Invasive Surgery Course (Simulation Box) (Course Director); Topic: "State of the Art MICS"; Coronary 1: Topic: "MICAB"; Topic: "Hybrid Revascularization"; AORT1 Panel I(Live Surgery); Mitral 1, Topic: "Minimally Invasive Mitral Valve Surgery" (Moderator), Istanbul, 09.05.2014 - 10.05.2014.
117. Academic Medicine Development Award (AMDA) Stanford University School of Medicine, "Minimally Invasive Cardiac Surgery " California, USA, 16.05.2014 - 23.05.2014.
118. Satori World Medical, San Diego, 19.05.2014 - 19.05.2014.
119. Academic Medicine Development Award (AMDA) Texas Medical Cente, "Minimally Invasive Cardiac Surgery , Houston, USA, 24.05.2014 - 27.05.2014.
120. Academic Medicine Development Award (AMDA) Mount Sinai Medical Center (Miami), "Advanced Training in Minimally invasive Aortic Valve Surgery Minimally Invasive Heart Surgery" Miami, USA, 04.06.2014 - 06.06.2014.
121. Academic Medicine Development Award (AMDA) Mount Sinai Medical Center (NY), Observer: Mitral Valve Surgery. Speaker: Grand Round, New York, USA 08.06.2014 - 12.06.2014.
122. Minimal Extracorporeal Circulation Technologies (MiECT) Thessaloniki, Greece 13.06.2014 - 14.06.2014.
123. **Organizing Director**: Visiting Expert: Prof Dr Med Hendrik Treede", NUHS Tower Block, 19.06.2014 - 20.06.2014.
124. **Organizing Director** : Visiting Expert: Prof Stefan Fischers, NUHS Tower Block, 24.06.2014 - 26.06.2014.
125. Student Attachment: Ying Mao Gn, Dept of CTVS, NUH 30.06.2014 - 15.08.2014.
126. Visiting Expert: Prof Roberto Di Bartolomeo, Chapter of Cardiothoracic Surgeons , Singapore 04.07.2014.
127. Health Minister's Townhall Session with NUHS & Jurong Health Services, NUHS Tower Block 15.07.2014.
128. Course on Medical Law, Professionalism & Ethics, NUHS Tower Block, 16.07.2014.
129. **Lecturer** - Phase III Posting, Topic: "Minimally Invasive Heart Surgery -; Trends & Indications", NUHS Tower Block, 08.08.2014.
130. **Invited Expert**, NUH International , Surabaya 09.08.2014.
131. CTS Retreat, Singapore, 30.08.2014.
132. **Invited Faculty and Speaker**, Topic: "Surgery from the Side", AATS Cardiovascular Valve Symposium 2014, Istanbul 03.09.2014 - 06.09.2014.
133. **Invited Faculty and Speaker**, topic: "Cardiac Surgery in Asia". Session Co Chair, Session: Asian Society. WSCTS 2014, Geneva, 07.09.2014 - 10.09.2014.
134. **Invited Faculty and Speaker**, SingValve 2014, Singapore, 27.09.2014.
135. Lecturer Phase III Posting, NUHS Tower Block, 29.09.2014.
136. **Speaker**, CVRI Meeting, NUS, 09.10.2014.
137. Minister **Advisor**, NUH International, Timor Leste, 14.10.2014 - 16.10.2014.
138. **Speaker**, Topic: "Minimally Invasive Cardiac Surgery - History & Rationale", Combined Anaesthetic Meeting, NUHS Tower Block, 25.10.2014.
139. **Invited Speaker and Faculty** , Topic: "Approaches to Medical Tourism in Singapore"; Topic: "Less Invasive CABG – Techniques: A New Integrated Service". Complex Cardiovascular Therapeutics (CCT), Kobe, Japan 31.10.2014 - 02.11.2014.
140. **Invited Speaker**, Topic: "Advanced Biological Valve: Experience with the St Jude Medical Trifecta Valve". ATCSA 2014, Hanoi 05.11.2014 - 06.11.2014.
141. **Co-organizer**: Prof Reichenspurner (President of ISHLT), NUHS Tower Block, 15.11.2014 - 18.11.2014.

142. **Faculty:** Panelist of Session: Adults with Congenital Heart Disease. Azerbaijan Heart & Health Association (AHHA), Azerbaijan 19.11.2014 - 23.11.2014.
143. **Invited Faculty and Speaker:** 9th ACSSUC "Aortic Root Wet Lab; "Hands-On" Wet Lab (I) - Nicks Procedure and Aortic Valve Replacement; "Hands-On" Wet Lab (II) - Manougian Procedure and Aortic Valve Replacement; Mitral/Tricuspid Valve Repair; "Hands-On" Wet Lab (I) - Mitral Repair: Carpentier Technique; "Hands-On" Wet Lab (II) - Mitral Repair: Advanced Techniques; "Hands-On" Wet Lab (III) - Tricuspid Repair". Hong Kong; 25.11.2014 - 29.11.2014.
144. **Lecturer:** Phase III Posting, NUHS Tower Block, 02.12.2014.
145. Prof Andrew Boyle's Visit, Singapore, 10.12.2014.
146. **Organizing Director,** LVAD Training Program, Singapore 08.12.2014 - 12.12.2014.
147. **Invited Speaker:** "The Era of Minimally Invasive Heart Surgery (M.I.C.S.), Mount Elizabeth Novena Hospital, 16.01.2015.
148. **Examiner** Standardization Session (Final Professional Examinations for the Degrees of MBBS), NUHS 14.02.2015.
149. **Examiner** "Final Professional Examinations for the Degrees of MBBS" MD6, Level 4, NUS 07.03.2015.
150. **Trainer** NUHCS Aortic Valve Replacement Workshop, Covidien Singapore, 103 Penang Road, VisionCrest Commercial #10-01, Singapore 238467 14.03.2015
151. **Invited Speaker** Topic: "Making Things that Matter, for Singapore", NMRC Awards Ceremony & Research Symposium 2015 @ Grand Copthorne Waterfront Hotel, 18.03.2015.
152. **Examiner** 3rd Professional Examination for the Degree of BDS (Surgery - Oral Examination) Advanced Surgery Training Centre (ASTC), NUHS, 20.03.2015.
153. **Speaker,** Topic: "Valvular Heart Disease". 5th Advanced Thoracic Nursing Course 2015. TTSH, Annex 2, Level 1, L1-W-T016 30.03.2015.
154. **Proctor,** Perceval Proctorship Program, NUHS, 01.04.2015 - 02.04.2015.
155. **Invited Faculty:** Participant ISHLT NICE (France), 14.04.2015 - 18.04.2015.
156. Presented my New book "Minimally Invasive and Hybrid Cardiac Surgery; Practical Guide" with Taylor and Francis and coauthors. AATS Meeting, Seattle (USA), 25.04.2015 - 01.05.2015.
157. Participant in "5th Leadership Milestone Program", NUHS 22.05.2015.
158. Participant NUHS Leadership Retreat 2015, Singapore Island Country Club 23.05.2015.
159. **Proctor,** "MICS Preceptorship Program", NUHS 08.06.2015 - 11.06.2015.
160. Hands-on Observership, LVAD Training, University Hamburg Medical Center, 27.06.2015 - 30.06.2015.
161. Hands-off Observership, LVAD Training, University Hamburg Medical Centre, 01.07.2015 - 05.07.2015.
162. **Invited speaker/faculty:** The Valve therapies symposium, Bangkok Thailand, Sept 3-5, 2015.
163. **Co-Chair and Organizer,** ISHLT-APAC symposium, Singapore, Nov 5-9, 2015.
164. **Invited faculty/proctor** and live-transmission surgeon, National Heart Foundation meeting, Dhaka, Bangladesh, 30 Nov-2 Dec 2015.
165. **Convenor, Co-Chair, and speaker.** Royal College of Surgeons Update course, MICS workshop.
166. **Invited Speaker,** 62nd Annual Meeting of IACTS, Lucknow, India, 18.02.2016 – 21.02.2016
167. **Invited Speaker and Chair** of ISHLT International Session Program Committee, Member of JHLT Editorial Board Meeting. Topic "Science Surgery and Shock in MCS", 36th Annual ISHLT Meeting & Scientific Sessions, Washington, USA, 27.04.2016 – 30.04.2016
168. **Invited Speaker,** Topic "Minimally Invasive Cardiac Surgery: A southeast Asian Perspective", 47th Annual Convention & Scientific Meeting, PHA 2016, Philippines, 25.05.2016 – 27.05.2016
169. **Invited Speaker,** Topic 1 "Minimally Invasive Mitral Valve Surgery present and future", Topic 2: "Wire Skill and TEE for surgeons and anesthesiologists for peripheral cardiopulmonary bypass in minimally invasive cardiac surgery", Inaugural conference of Society of Minimally Invasive Cardiovascular and thoracic surgeons of India, New Delhi, 06.08.2016 – 07.08.2016

170. **Organizing and Program committee**, The World Society for Cardiothoracic Surgery Annual meeting, Cape town, Sept. 2016.
171. **Co-Organiser/Chairman**, Workshop in Anastomotic Skills and Mitral Valve Simulation Skills by Prof. Paul Sergeant, NUHCS, 11.10.2016 – 12.10.2016
172. **Invited Speaker**, Topic 1 “Multi-vessel CABG via thoracotomy: Why & How”, Topic 2: “Minimally Invasive Surgery: MIDCAB vs ThoraCAB”, ICC 2016, New Delhi, India, 11.11.2016 – 13.11.2016.
173. **Faculty**, Minimally Invasive Surgery Symposium, Ibrahim Cardiac Hospital and Research Institute, Dhaka, Bangladesh, 06.02.2017 – 07.02.2017
174. **Faculty**, Topic: “What the cardiac surgeon wants to know from TEE during mitral valve repair surgery, including Minimally Invasive Cardiac Surgery”, 2nd NUHS Peri-operative TEE Course, National University Hospital, Singapore, 08.03.2017 – 09.03.2017
175. **Participant**, ISHLT 37th Annual Meeting and Scientific Sessions, 05.04.2017 – 08.04.2017
176. **Participant**, 12th Introductory Course in Interventional Cardiology, National University Heart Centre Singapore, 22.04.2017
177. **Participant**, 97th AATS Centennial, Boston, 28.04.2017 – 03.05.2017
178. **Faculty**, Topic: “Minimally Invasive Cardiac Surgery; Current Trends and Future Perspective”, Workshop: “Mini Thoracotomy (Mitral Valve Repair in Cow Heart”, 3rd Minimally Invasive and Robotic Cardiovascular Surgery Congress, Istanbul, 12.05.2017 – 14.05.2017
179. **Faculty**, 7th WCPCCS 2017, 16.07.2017 – 21.07.2017
180. **Faculty**, Topic: “Minimally Invasive Cardiac Surgery – Surgical aspects of MICS”, 20th General Scientific Meeting of the Singapore Society of Anaesthesiologists (SSA) in conjunction with the 5th Congress of Asian Society of Neuroanesthesia and Critical Care (ASNACC), Singapore, 18.08.2017 – 19.08.2017
181. **Speaker**, Topic 1: “Session 2: Pros and Cons of MICS approach in cardiac valve disease: Current debates”, Topic 2: “For young surgeons, when and how to start Minimally Invasive Cardiac Surgery?”, 8th New Horizon in Cardiac Surgery (Workshop for minimally invasive cardiac surgery), Asan Medical Centre, South Korea, 01.09.2017 – 02.09.2017
182. **Course Director**, Minimally Invasive Cardiac Surgery, ATSOP 2017, Tan Tock Seng Hospital, Singapore, 15.09.2017 – 16.09.2017
183. **Speaker**, 4th Myanmar Cardiology Conference, Yangon, Myanmar, 05.10.2017 – 07.10.2017
184. **Participant**, 31st EACTS 2017, Vienna, Austria, 07.10.2017 – 11.10.2017
185. **Speaker and Judge**, Topic 1: “MICS CABG, Singapore Experience”, Topic 2: “Video on a box: MICS CABG”, Presentation Judge for Best Paper, 18th MATCVS Annual Scientific Meeting 2017, Malaysia, 12.10.2017 – 14.10.2017
186. **Conference Co-Chairman**, 2nd Asia Pacific MCS Conference 2017 – Endorsed by ISHLT, Singapore, 28.10.2017 – 29.10.2017
187. **Speaker and Moderator**, Topic 1: “Perfusion and Myocardial protection options for minimally invasive surgery”, Topic 2: “Hybrid Coronary Revascularization”, Topic 3: “State of the art surgery: What’s Here, What’s coming?”, Wetlab: “Minimally Invasive Valve and Coronary Surgery”, 27th Annual Congress of ACTSA, Melbourne, 16.11.2017 – 19.11.2017
188. **Panelist**, North-South Dialogue, 50th Anniversary of the 1st Heart Transplant, Cape Town, 02.12.2017 – 04.12.2017
189. **Faculty**, Minimally Invasive Cardiac Surgery, 11th ACSSUC 2017, 04.12.2017 – 06.12.2017
190. **Faculty**, Winter ISMICS Workshop, Abu Dhabi, 08.12.2017 – 09.12.2017
191. **Faculty**, Techno-Practicum College, Sydney, Australia, 08.03.2018 – 10.03.2018
192. **Proctor & Course Director**, Minimally Invasive Cardiac Surgery Workshop for Thai Surgeons, NUHCS-Abbott, Singapore 07.05.2018 – 09.05.2018
193. **Panelist**, Cardiac Session 4: “Developing a Minimally Invasive and Robotic Cardiac Surgical Program”, Vancouver, Canada, 13.06.2018 – 16.06.2018
194. **Speaker**, Topic: “LA Auricle Management”, Korean Arrhythmia Surgery Network Meeting, Seoul, South Korea, 07.07.2018 – 08.07.2018

- 195. **Speaker and Chairman**, Topic: "MIS in Mitral Valve Disease", 2nd Current Updates Surgical Techniques in Cardiac Surgery Conference, Ho Chi Minh City, Vietnam, 10.08.2018 – 11.08.2018
- 196. **Proctor & Course Director**, Minimally Invasive Cardiac Surgery Workshop, NUHCS-J&J, Singapore, 27.08.2018 – 28.08.2018
- 197. **Proctor & Course Director**, Minimally Invasive Cardiac Surgery Workshop, NUHCS-Medtronic, Singapore, 24.09.2018 – 25.09.2018
- 198. **Proctor**, Topic: "Why Perceval?", Proctors Advisory Board Meeting, EACTS, Milan, Italy, 18.10.2018
- 199. **Moderator**, Round table: "Meet the experts – Mitral Valve Repair", The Athens Crossroad Congress, Greece, 08.11.2018 – 10.11.2018
- 200. **Proctor & Faculty**, 1st QSHC KKU-MIVS Meeting, Queen Sirikit Heart Centre, Thailand, 27.11.2018 – 29.11.2018
- 201. **Proctor & Course Director**, Minimally Invasive Cardiac Surgery Workshop for Taiwanese Surgeons, NUHCS-Medtronic, Singapore, 25.03.2019 – 27.03.2019
- 202. **Multiple Webinars** and On-line Conference lectures and panels

Languages:

	spoken	written
Greek	excellent	excellent
German	excellent	excellent
English	excellent	excellent
Spanish	conversational	comprehensive