

Circulation Curriculum Vitae

Terrence M. Yau

A. Date Curriculum Vitae is Prepared: Feb 7, 2023

B. Biographical Information

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1. EDUCATION

Degrees

1990 - 1994	M.Sc., Institute of Medical Science, University of Toronto, Toronto, Ontario
1984 - 1988	M.D., C.M., McGill University, Montreal, Quebec
1980 - 1984	B.A., Johns Hopkins University, Baltimore, Maryland, United States

Postgraduate, Research and Specialty Training

1997 - 1998	Medical Research Council of Canada Research Fellowship (Division of Cardiovascular Surgery), The Toronto Hospital, Toronto, Ontario
1995 - 1997	Cardiovascular Surgery Residency Program, Toronto General Hospital/University of Toronto, Toronto, Ontario
1991 - 1992	Heart and Stroke Foundation of Canada Research Fellowship (Division of Cardiovascular Surgery), The Toronto Hospital, Toronto, Ontario
1990 - 1992	Department of Surgery, Surgical Scientist Program, University of Toronto, Toronto, Ontario
1989 - 1995	General Surgery Residency Program, Toronto General Hospital/University of Toronto, Toronto, Ontario
1988 - 1989	Comprehensive Surgical Internship, Toronto General Hospital/University of Toronto, Toronto, Ontario

Qualifications, Certifications and Licenses

1995 - 1997	F.R.C.S.C., Cardiovascular Surgery Residency Program, University of Toronto, Toronto, Ontario
1989 - 1995	F.R.C.S.C., Gallie Residency Program in General Surgery, University of Toronto, Toronto, Ontario

2. EMPLOYMENT

Current Appointments

2018 - present	Chair, Division of Cardiovascular Surgery, University of Toronto
2010 - present	Professor, Surgery, University of Toronto, Toronto, Ontario
2010 - present	Affiliate Scientist, Toronto General Research Institute, Toronto, Ontario, Canada
2006 - 2018	Angelo and Lorenza DeGasperis Chair in Cardiovascular Surgery Research, Toronto General Hospital, Toronto, Ontario
1999 - present	Director of Research, Division of Cardiovascular Surgery, Toronto General Hospital, Toronto, Ontario
1998 - present	Staff Surgeon, Division of Cardiac Surgery, Toronto General Hospital, Toronto, Ontario

Previous Appointments

HOSPITAL

1999 - 2010	Scientist, Toronto General Research Institute, Toronto, Ontario
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UNIVERSITY - RANK

2003 - 2010	Associate Professor, Surgery, University of Toronto, Toronto, Ontario
1998 - 2003	Assistant Professor, Surgery, University of Toronto, Toronto, Ontario

3. HONOURS AND CAREER AWARDS

Distinctions and Research Awards

NATIONAL

Received

1997 - 1998	Research Fellowship , Medical Research Council of Canada. (Research Award)
1991 - 1992	Research Fellowship , Heart and Stroke Foundation of Canada. (Research Award)
1980	National Honor Society , Hong Kong International School. (Distinction)
1979	National Honor Society , Hong Kong International School. (Distinction)
1978	National Honor Society , Hong Kong International School. (Distinction)
1977	National Honor Society , Hong Kong International School. (Distinction)
1976	National Honor Society , Hong Kong International School. (Distinction)

LOCAL

Received

2018 – 2019	Clinical Outcomes Award , lowest risk-adjusted mortality and major morbidity for CABG, UHN
2018 – 2019	Clinical Outcomes Award , lowest risk-adjusted mortality and major morbidity for all STS-tracked operation, UHN
2018 – 2019	MD Program Teaching Award of Excellence . Faculty of Medicine, University of Toronto
2017 - 2018	MD Program Teaching Award of Excellence . Faculty of Medicine, University of Toronto
1997	Davis & Geck Resident Research Award , University of Toronto. (Research Award)
1992	Davis & Geck Resident Research Award , University of Toronto. (Research Award)
1992	Finalist, Samson Resident Research Awards , University of Toronto. (Research Award)
1992	Runner-Up, Gallie-Bateman Resident Research Prize , University of Toronto. (Research Award)

	Award)
1991	Runner-Up, Gallie-Bateman Resident Research Prize , University of Toronto. (Research Award)
1984	Dean's List , Johns Hopkins University. (Distinction)
1983	Dean's List , Johns Hopkins University. (Distinction)
1982	Alpha Epsilon Delta Honorary Fraternity . (Distinction)
1982	Dean's List , Johns Hopkins University. (Distinction)
1981	Dean's List , Johns Hopkins University. (Distinction)
1980	Dean's List , Johns Hopkins University. (Distinction)
1980	Honor Roll , Hong Kong International School. (Distinction)
1979	Honor Roll , Hong Kong International School. (Distinction)
1978	Honor Roll , Hong Kong International School. (Distinction)
1977	Honor Roll , Hong Kong International School. (Distinction)
1976	Honor Roll , Hong Kong International School. (Distinction)

4. PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Associations

21st Century Cardiac Surgical Society
American Association for Thoracic Surgery
Association for Academic Surgery
Canadian Cardiovascular Society
Council on Cardiovascular and Thoracic Surgery, American Heart Association
Institute of Medical Sciences, University of Toronto
International Society for Heart and Lung Transplantation
International Society for Minimally Invasive Cardiothoracic Surgery
Royal College of Physicians and Surgeons

Administrative Activities

INTERNATIONAL

Data Safety and Monitoring Board, NEWTON-CABG Trial

2021 Jun – 2022 Member, Research Committee

Anemia Institute for Research and Education

2002 Oct - 2005 Oct Chair, Research Committee
2001 Jul - 2005 Oct Member, Board of Directors
2000 Sep - 2005 Oct Member, Research Committee

Cardiothoracic Surgery Network (CTSN)

2019 Dec – present LVAD MPC 2 Biomarker Committee
2019 Jun – present LVAD MPC 3 Protocol Development Committee
2017 Jun - present Circulatory Support Executive Protocol Development Committee
2017 Apr – present Co-chair, Biospecimen Committee
2016 Jul - 2017 TR Trial Protocol Development Committee

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2014 Jul – 2019 Nov	LVAD-MPC II Trial. Operations Committee
2014 Jul – 2019 Nov	LVAD-MPC II Trial. Steering Committee
2014 Jun – 2019 Nov	Network Co-PI, LVAD MPC II Trial
2014 Jun - 2015 May	SERCA 2a Gene Therapy Trial Protocol Development Committee
2013 Oct - 2014 Jul	LVAD - MPC II Trial. Protocol Development Committee

RL/HSF Centre of Excellence

2001 Feb - 2003 May	Research Advisory Committee
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PROVINCIAL / REGIONAL

Government of Ontario

2008 - 2017	Ontario Blood Advisory Committee
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Ontario Institute for Regenerative Medicine (OIRM)

2016 Nov - 2019	OIRM Clinical Trials Committee, Ontario, Canada.
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LOCAL

St. Michael's Hospital

2017 Oct - 2021	SEARCH-AF, Steering Committee
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University Health Network

2023 Jan - present	EDI rep, Search Committee, Heart Transplant Program
2014 Apr - present	Research Advisory Committee, Peter Munk Cardiac Program
2011 Aug - present	Innovation Committee, Peter Munk Cardiac Program

University of Toronto

2019 – present	Senior Advisory Committee, Department of Surgery
2018 Oct- present	U of T Advanced Aortic Surgery Program Committee
2016 Oct - 2019	UHN/MSH AMO Innovation Committee
2015 May - 2022	Mentorship Committee, Department of Surgery
2013 - 2022	Innovation Committee, Department of Surgery
2011 Nov - 2021	Promotions Committee, Department of Surgery

2015 – present	BlueRock Therapeutics Clinical Advisory Board
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Other Administrative Activities

Oct 2022 - present	Event organizer and chair, UTCVS Symposium, University of Toronto
Feb 2021 - present	Event organizer and chair, Bigelow Cardiac Surgery Resident Research Competition
Oct 2018 - present	Event organizer and chair, Bigelow Lecture, University of Toronto

Scientific Advisory Boards

2015 Jul – present	BlueRock Therapeutics
2022 Apr – present	Aziyo Therapeutics
2022 Nov – present	Novo Nordisk

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Peer Review Activities

GRANT REVIEWS

External Grant Reviewer

2000 Sep - present Canadian Institutes of Health Research
2000 Sep - present Heart and Stroke Foundation of Canada
1999 Sep - 2000 Sep Medical Research Council of Canada

Scientific Review Committee

2002 Nov - 2010 Heart and Stroke Foundation of Canada

MANUSCRIPT REVIEWS

External Reviewer

2003 Sep - present Circulation
2003 Sep - present Molecular Therapy
2001 Jul - present Annals of Thoracic Surgery
2001 Mar - present European Journal of Cardiothoracic Surgery
2001 Jan - present Journal of Cardiac Surgery
2001 Jan - present Journal of Thoracic and Cardiovascular Surgery
2000 Aug - present Heart

ABSTRACT REVIEWS

Reviewer

2022 Apr - Present ISHLT, AD Hoc Abstract Review Committee
2010 May - present American Association for Thoracic Surgery, Ad Hoc Abstract Review Committee
2005 - present American Heart Association, Ad Hoc Abstract Review Committee
2005 - present Canadian Cardiovascular Congress, Ad Hoc Abstract Review Committee

C. Research Funding

1. GRANTS, CONTRACTS AND CLINICAL TRIALS

PEER-REVIEWED GRANTS

FUNDED

2020 Jan – 2022 Jan **Co-Investigator.** Heart Regeneration with Mature Ventricular Cardiomyocytes from Human Pluripotent Stem Cells. Stem Cell Network. 599,685 CAD. [Grants]

2016 Jun **Co-Investigator.** A historical review of medical treatment and care of the adult with congenital heart disease. Ryerson University (Toronto, ON), Faculty of Community Services seed grant. PI: Lapum J, Fredericks S & Yau T. 6,000 CAD. [Grants]

2015 Dec - 2019 Mar **Co-Investigator.** Heart Regeneration with Pluripotent Stem Cell-Derived Ventricular Cardiomyocytes. Ontario Institute for Regenerative Medicine (OIRM). PI: Laflamme M, Keller

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G, Li R, Wright G, Zandstra P, **Yau T.** 1,100,000 CAD. [Grants]
OIRM Disease Team Grant Application.

- 2015 Jul - 2019 Mar **Co-Principal Investigator.** The roles for C-type natriuretic peptide in valve disease. Heart and Stroke Foundation of Canada (HSFC). Co-PI: Simmons, Craig. 288,867 CAD per year. [Grants]
- 2014 Jul - 2015 Jun **Collaborator.** Innovative treatments for heart failure; PMCC Innovation Fund. PI: Weisel RD. Collaborator(s): Keller G, Zandstra P, Li R-K, **Yau TM.** 240,000 CAD. [Grants]
- 2012 Oct - 2014 Jun **Principal Investigator.** Cardiac Regeneration - The Next Generation of Cell Therapy. Innovation Fund. 90,000 CAD. [Grants]
- 2012 Sep - 2013 Aug **Co-Investigator.** The design and planning of a randomized controlled trial to evaluate a tailored cardiovascular surgical patient education intervention in reducing post-hospital discharge complications and readmission rates. Canadian Institutes of Health Research (CIHR). 160,000 CAD. [Grants]
- 2011 Sep - 2012 Mar **Co-Investigator.** Individualized patient education delivered by telephone following hospital discharge for heart surgery: A pilot study. Ryerson New Faculty SRC Development Fund. 7,840 CAD. [Grants]
- 2011 Jul - 2014 Jun Screening for dysphagia in patients following prolonged intubation: Validation of the Toronto bedside swallowing screening test. Canadian Institutes of Health Research (CIHR). PI: Martino, Rosemary. Collaborator(s): Granton J, Ivanov J, **Yau TM.** 212,077 CAD. [Grants]
- 2011 Jul - 2013 Jun Improving transfusion practice and clinical outcomes in cardiac surgery. Innovation Fund. PI: Karkouti, K. Collaborator(s): Cursio C, Pendergrast J, Selby R, Wasowicz M, **Yau TM.** 207,000 CAD. [Grants]
- 2010 Jul - 2012 Jun Facilitators and barriers to effective discharge following open heart surgery: Patients' and nurses' experiential accounts. Ryerson New Faculty SRC Development Fund. PI: Lapum J. Collaborator(s): Fredericks S., Micevski V., **Yau TM.** 10,000 CAD. [Grants]
- 2010 Jul - 2011 Jun Anaconda Trial. Innovations Fund. PI: Wasowicz, Marcin. Collaborator(s): **Yau, TM.** 91,722 CAD. [Grants]
- 2010 Facilitators and barriers to effective discharge following open heart surgery: Patients' and nurses' experiential accounts. Faculty of Community Services Seed Grant. PI: Lapum, J. Collaborator(s): Fredericks S., Micevski V., **Yau TM.** 5,000 CAD. [Grants]
- 2009 Jul - 2012 Jun **Co-Principal Investigator.** Electrophysiological implications of regenerative therapy. Heart and Stroke Foundation of Ontario (HSFO). (Ontario). Collaborator(s): Kumaraswamy Nanthakumar (co-PI), Peter Backx. 273,000 CAD. [Grants]
- 2009 Jul - 2011 Jun Advance targeted transfusion in anemic cardiac surgical patients for kidney protection. Heart and Stroke Foundation of Canada (HSFC). (Canada). PI: Karkouti, Keyvan. Collaborator(s): **Yau, TM.** 124,202 CAD. [Grants]
- 2009 Jul - 2010 Jun Anaconda Trial. Innovations Fund. PI: Wasowicz, Marcin. Collaborator(s): **Yau, TM.** 98,010 CAD. [Clinical Trials]
- 2006 Jul - 2008 Jun Predictors of massive blood loss in cardiac surgery: value of intraoperative coagulation

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testing. Canadian Institutes of Health Research (CIHR). PI: Karkouti, Keyvan.
Collaborator(s): **Yau, TM**. 82,652 CAD. [Grants]

2005 Jul - 2006 Jun Predictors of massive blood loss in cardiac surgery: development and validation of a simple prediction rule. Canadian Institutes of Health Research (CIHR). PI: Karkouti, Keyvan.
Collaborator(s): **Yau, TM**. 97,900 CAD. [Grants]

2004 Jul - 2006 Jun **Principal Investigator**. Myocardial transgene expression in transplanted cells. Heart and Stroke Foundation of Ontario (HSFO). (Ontario). 102,592 CAD. [Grants]

2004 Jul - 2006 Jun **Principal Investigator**. The role of stem cell factor receptor in cardiac remodelling after myocardial infarctions. Physicians Services Incorporated Foundation (PSI). Collaborator(s): Fazel S. 20,000 CAD. [Grants]

2003 Jul - 2005 Jun Stem cells and restenosis: Defining the new paradigm. Heart and Stroke Foundation of Canada (HSFC). PI: Weisel, RD. Collaborator(s): **Yau, TM**. 71,320 CAD. [Grants]

2002 Jul - 2004 Jun **Principal Investigator**. Myocardial transgene expression in transplanted cells. Heart and Stroke Foundation of Canada (HSFC). (Ontario). 98,665 CAD. [Grants]

2001 Jul - 2003 Jun **Principal Investigator**. Insulin cardioplegia for poor left ventricular function. Canadian Institutes of Health Research (CIHR). Collaborator(s): Weisel, RD. 70,192 CAD. [Grants]

2001 Jul - 2003 Jun The efficacy of two modalities - intravenous iron and recombinant erythropoietin for treatment of profound postoperative anemia. Physicians Services Incorporated Foundation (PSI). PI: Karkouki, Keyvan. Collaborator(s): **Yau, TM**. 99,500 CAD. [Grants]

2000 Jul - 2002 Jun **Principal Investigator**. Myocardial transgene expression in transplanted cells. Connaught Foundation (Ontario). 30,000 CAD. [Grants]

2000 Jul - 2001 Jun Multi-Centre Radial Artery Patency Study. Medical Research Council of Canada (MRC). PI: Fremes, SE. Collaborator(s): **Yau, TM**. 270,000 CAD. [Grants]

1999 Jul - 2001 Jun **Principal Investigator**. Insulin cardioplegia for poor left ventricular function. Heart and Stroke Foundation of Canada (HSFC). Collaborator(s): Weisel, RD. 69,000 CAD. [Grants]

NON-PEER-REVIEWED GRANTS

FUNDED

2021 – present **Principal Investigator**. REVERSE-IT: Ticagrelor Reversal with Bentricimab.

2018 – present **Principal Investigator**. AGN-151607 (Allergan): A phase 2, Multi-Center, randomized, double-blind, dose-ranging study to evaluate the efficacy and safety of botulinum toxin type A (AGN-151607) injections into the epicardial fat pads to prevent post-operative atrial fibrillation in patients undergoing open-chest cardiac surgery.

2017 – present **Principal Investigator**. Trifecta GT: An observational, prospective evaluation of the Trifecta GT valve.

2006 Jul - 2007 Jun **Site Investigator**. A randomized, double-blind, placebo-controlled, multi-center study to evaluate the cardioprotective effects of MC-1 in patients undergoing high-risk coronary artery bypass graft (CABG) surgery. MEND-CABG II. 200,000 CAD. [Grants]

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- 2004 Jul - 2005 Jun **Site Investigator.** A randomized, double-blind, placebo-controlled, dose-ranging, multi-center study to evaluate the cardiovascular and cerebrovascular effects of MC-1 in patients undergoing high-risk coronary artery bypass graft (CABG) surgery. Medtronic Inc. 120,000 CAD. [Clinical Trials]
- 2003 Jul - 2006 Jun **Principal Investigator.** A randomized evaluation of the St. Jude Medical Inc., Second Generation Aortic Connector. St. Jude Medical Inc. 200,000 CAD. [Clinical Trials]
- 2003 Jul - 2005 Jun **Site Investigator.** A multicenter, randomized, double-blind, placebo-controlled, parallel study of E5564, a lipid A antagonist, in patients undergoing coronary artery bypass grafting and/or valve surgery with cardiopulmonary bypass. Eisai Research Institute. 100,000 CAD. [Clinical Trials]
- 2001 Jul - 2005 Jun Quest Trial. Quest Medical Inc. PI: Weisel RD. Collaborator(s): Rao V, **Yau TM**. 50,000 CAD. [Grants]
- 2001 Jul - 2003 Jun **Site Investigator.** EXPEDITION Trial (Na⁺/H⁺ exchange inhibitor to prevent coronary events in acute cardiac conditions. Aventis Pharma. Collaborator(s): Weisel RD. 130,200 CAD. [Clinical Trials]
- 2000 Jul - 2004 Jun **Principal Investigator.** A prospective evaluation of the St. Jude Inc., Cardiovascular Group Aortic Connector. St. Jude Medical Inc. 76,000 CAD. [Grants]

D. Publications

1. PEER-REVIEWED PUBLICATIONS

Journal Articles

1. Hibino M, Verma S, Pandey AK, Bisleri G, Yanagawa B, Verma R, Puar P, Quan Adrian, Teoh H, **Yau TM**, Verma A, Ha ACT, Mazer CD & SEARCH-AF trial investigators. The impact of statins on post-discharge atrial fibrillation after cardiac surgery: Secondary analysis from a randomized trial. *CJC Open*. Dec 2022. Online ahead of print. **Coauthor or Collaborator.**
2. Zhang YC, Wang MY, Zhang CY, Fan YF, Wu J, Li SH, Fu A, Sun Y, **Yau TM**, Lu TH, Sung HW & L RK. Epicardial delivery of a conductive membrane synchronizes conduction to reduce atrial fibrillation. *Journal of Controlled Release*. 2022 Oct 10;351:847-859. **Coauthor or Collaborator.**
3. Ribeiro RVP, Lee J, Elbatarny M, Friedrich JO, Singh S, **Yau T**, Yanagawa B & Canadian Cardiovascular Surgery Meta-Analysis Working Group. Left ventricular assist device implantation via lateral thoracotomy: A systematic review and meta-analysis. *The Journal of Heart and Lung Transplantation*. 2022 Oct; 41(10): 1440-1458. **Coauthor or Collaborator.**
4. An KR, Christakis N, Jegatheeswaran A, Cusimano R, Rao V, Badiwala M & **Yau TM**. Outcomes of expanded polytetrafluoroethylene pericardial membrane implantation in left ventricular assist device explantation and heart transplantation. *Journal of Cardiac Surgery*. 2022 Sep;37(12):4316-4323. **Senior Responsible Author.**
5. Stoklosa K, Mazina A, Forgie KA, Brown A, Hage A, Ridwan K, Laurin C, Luc JGY, Yanagawa B & **Yau TM**. Opening the black box for Canadian cardiac surgery residency applicants. *CJC Pediatric and Congenital Heart Disease*. Epub 2022 Aug. DOI:<https://doi.org/10.1016/j.cjco.2022.07.017>. **Senior Responsible Author.**
6. Barker J, Martino R & **Yau TM**. Changes in Cardiac Function During a Swallow Exercise Program in Patients with Coronary Artery Disease. *Dysphagia*. 2022 Jul. doi: 10.1007/s00455-022-10477-7. Online ahead of print. **Senior Responsible Author.**

7. Fu A, Yang U, Wu J, Li SH, Fan Y, **Yau TM** & Li RK. Bio-Conductive Polymers for Treating Myocardial Conductive Defects: Long-Term Efficacy Study. *Advance Healthcare Materials*. 2022 Jan;11(2):e2101838. doi: 10.1002/adhm.202101838. Epub 2021 Nov 9. PMID: 34704404. **Coauthor or Collaborator**.
8. Dhingra NK, Verma S, **Yau TM**, Yanagawa B, Hibino M. Stuck Between a Rock and a Hard Place: The Clinical Conundrum of Managing Cardiac Surgical Patients during the SARS-CoV-2 Pandemic. *Journal of Cardiac Surgery*. 2022 Jan;37(1):174-175. doi: 10.1111/jocs.16111. Epub 2021 Oct 25. PMID: 34697835 **Coauthor or Collaborator**.
9. Marvasti TB, Alibhai FJ, Wlodarek L, Fu A, Li SH, Wu J, Weisel RD, Cusimano RJ, Ouzounian M, **Yau T**, Li RK. Aging impairs human bone marrow function and cardiac repair following myocardial infarction in a humanized chimeric mouse. *Aging Cell*. 2021 Nov;20(11):e13494. doi: 10.1111/accel.13494. Online ahead of print. PMID: 34612564. **Coauthor or Collaborator**.
10. Mazine A, Rushani D & **Yau TM**. Clinical mesenchymal stem cell therapy in ischemic cardiomyopathy. *JTCVS Open*. 2021 Aug;8:135-141. **Senior Responsible Author**
11. Ha ACT, Verma S, Mazer CD, Quan A, Yanagawa B, Latter DA, **Yau TM**, Jacques F, Brown CD, Singal RK, Yamashita MH, Saha T, Teoh KH, Lam BK, Deyell MW, Wilson M, Hibino M, Cheung CC, Kosmopoulos A, Garg V, Brodutch S, Teoh H, Zuo F, Thorpe KE, Jüni P, Bhatt DL, Verma A; SEARCH AF CardioLink-1 Investigators. Effect of Continuous Electrocardiogram Monitoring on Detection of Undiagnosed Atrial Fibrillation After Hospitalization for Cardiac Surgery: A Randomized Clinical Trial. 2021 Aug 2;4(8):e2121867. Doi:10.1001/jamanetworkopen.2021.21867. PMID: 34448866. **Coauthor or Collaborator**.
12. Makhdoum A, Dhingra NK, Kirubaharan A, Eikelboom R, Luc J, Dagher O, Bierer J, Cartier A, Vaillancourt O, Vo TX, Forgie K, Bisleri G, **Yau TM**, Verma S, Yanagawa B. Ticagrelor Use and Practice Patterns Among Canadian Cardiac Surgeons. *J Card Surg*. 2021 Aug. 36(8):2793-2801. **Coauthor or Collaborator**.
13. He S, Wu J, Li SH, Wang L, Sun Y, Xie J, Ramnath D, Weisel RD, **Yau TM**, Sung HW & Li RK. The conductive function of biopolymer corrects myocardial scar conduction blockage and resynchronizes contraction to prevent heart failure. *Biomaterials*. 2020 Nov. 258:120285. Epub
14. Fukunaga N, Badiwala MV, **Yau TM**, Rao V, Cusimano RJ. Descending aortic thrombosis and acute type B dissection during central extracorporeal membrane oxygenation: A word of caution. *JTCVS Tech*. 2020 Nov 20;6:85-87. doi: 10.1016/j.xjtc.2020.11.006. eCollection 2021 Apr. PMID: 34318152 **Coauthor or Collaborator**.
15. Ribeiro RVP, Alvarez JS, Fukunaga N, Yu F, Adamson MB, Foroutan F, Cusimano RJ, **Yau T**, Ross H, Alba AC, Billia F, Badiwala MV & Rao V. Redo sternotomy versus left ventricular assist device explant as risk factors for early mortality following heart transplantation. *Interactive Cardiovascular and Thoracic Surgery*. 2020 Nov 1;31(5):603-610
16. Yanagawa B, Ribeiro RVP & **Yau TM**. Cardioplegia resets the clock. *Annals of Thoracic Surgery*. 2020 Oct;110(4): 1439-1440. **Coauthor or Collaborator**.
17. Elhenawy AM, Algarni K, Rao V & **Yau, TM**. Predictors of hospital mortality after surgery for ischemic mitral regurgitation: the Toronto General Hospital experience. *Journal of Cardiac Surgery*. 2020 Dec;35(12): 3334-3339
18. Ribeiro RVP, Rushani D, **Yau T** & Yanagawa B. Editorial: Coronary Surgery: is there a need for subspecialty? *Current Opinion of Cardiology*. 2020 Sep;35(5) 538-539. **Coauthor or Collaborator**.
19. Ribeiro RVP, Friedrich JO, Ouzounian M, **Yau T**, Lee J, Yanagawa B, & Canadian Cardiovascular Surgery Meta-Analysis Working Group. Supplemental Cardioplegia During Donor Heart Implantation: A Systematic Review and Meta-Analysis. *Annals of Thoracic Surgery*. 2020 Aug;110(2): 545-552; **Coauthor or Collaborator**.
20. Yin W., Gup J., Zhang C, Alibhai F., Li S., Billia., Wu J., **Yau T.**, Weisel R., & Li R. Knockout of Canopy 2 Activates p16INK4a Pathway to Impair Cardiac Repair. *Journal of Molecular and Cellular Cardiology*. 2019 Jul; 132:36-48 **Coauthor or Collaborator**.
21. Tobin SW, Alibhai FJ, Lee MM, Yeganeh A, Wu J, Li SH, Guo J, Tsang K, Tumiaty L, Rocha R, Butany J, **Yau TM**, Ouzounian M, David TE, Weisel RD, & Li RK. Novel mediators of aneurysm progression in bicuspid aortic valve disease. *Journal of Molecular and Cellular Cardiology*. 2019 Jul; 132: 71-83. **Coauthor or Collaborator**.

22. **Yau T.**, Pagani F., Mancini D., Chang H., Lala A., Woo Y J., Acker M., Selzman C., Soltesz E., Kern J., Maltais S., Charbonneau E., Pan S., Marks M., Moquete E., O'Sullivan K., Taddei-Peters W., McGowan L., Green C., Itescu S., Rose E., Jeffries N., Parides M., Weisel R., Miller M., Hung J., O'Gara P., Alan, Annetine Gelijns M., Bagiella E., & Milano C. A Randomized Trial of Intramyocardial Injection of Mesenchymal Precursor Cells in Left Ventricular Assist Device Recipients: Impact on Myocardial Recovery and Morbidity. *JAMA*. 2019 Mar; 321(12):1176-1186 **Principal Author**.
23. Lapum, J., Fredericks, Bailey B.S., **Yau T.**, Graham, J., & Marelli, A. Historical Investigation of Medical Treatment for Adult Congenital Heart Disease: A Canadian Perspective. *Congenital Heart Disease*. 2019 Mar; 14(2):185-192. **Coauthor or Collaborator**.
24. Adams RLE, Bernknopf B, Mirzaei Z, Caruso L, Zhong A, Tsang K, Cusimano RJ, Ouzounian M, Feindel CM, Butany J, **Yau TM** & Simmons CA. Sex differences in aortic valvular fibrosis are associated with perturbations in C-type natriuretic peptide signaling. *Circulation*. 2018 Sep. **Submitted**
25. Fredericks S, Lapum J, Graham J, Patel J, **Yau T**, Bailey B, & Marelli, A. Examining the continuity of care for adults diagnosed with congenital heart disease living within the community setting: A scoping review. *Primary Health Care*. 2019 May; 29(3):34-39. **Coauthor or Collaborator**.
26. Wąsowicz M, Jerath A, Luksun W, Sharma V, Mitsakakis N, Meineri M, Katznelson R, **Yau T**, Rao V, Beattie WS. Comparison of propofol-based versus volatile-based anaesthesia and postoperative sedation in cardiac surgical patients: a prospective, randomized, study. *Anaesthesiology Intensive Therapy*. 2018 Jun;50(3):200-209. **Coauthor or Collaborator**.
27. Rocha RV, Manhiot C, Feindel CM, **Yau TM**, Mueller B, David TE, Ouzounian M. Surgical Enlargement of the Aortic Root Does Not Increase the Operative Risk of Aortic Valve Replacement. *Circulation*. 2018 Apr; 137(15):1585-1597. **Coauthor or Collaborator**.
28. Cui Z, Ni NC, Wu J, Du GQ, He S, **Yau TM**, Weisel RD, Sung HW & Li RK. Polypyrrole-Chitosan Conductive Biomaterial Synchronizes Cardiomyocytes Contraction and Improves Myocardial Electrical Impulse Propagation. *Theranostics*. 2018 Apr; 8(10):2752-2764. **Coauthor or Collaborator**.
29. Duero Posada JG, Moayed Y, Alhussein M, Bunce PE, **Yau TM** & Ross HJ. Early pneumopericardium after heart transplantation. *Transplant Infectious Disease*. 2018 Feb;20(1). **Coauthor or Collaborator**.
30. Jerath A, Yang QJ, Pang KS, Looby N, Reyes-Garces N, Vasiljevic T, Bojko B, Pawliszyn J, Wijeyesundera D, Beattie WS, **Yau TM** & Wasowicz M. Tranexamic acid dosing for cardiac surgical patients with chronic renal dysfunction: A new dosing regimen. *Anesthesia & Analgesia*. 2018 Jan. **Coauthor or Collaborator**.
31. Skoretz SA, **Yau TM**, Granton JT & Martino R. The feasibility of assessing swallowing physiology following prolonged intubation after cardiovascular surgery. *Pilot and Feasibility Studies*. 2017 Nov;3:62. **Coauthor or Collaborator**.
32. Steinbach SK, **Yau TM**, Ouzounian M, Abdel-Qadir H, Chandy M, Waddell TK & Husain M. Skin-derived precursors from human subjects with Type 2 diabetes yield dysfunctional vascular smooth muscle cells. *Clinical Science*. 2017 Jul;131(15):1801-1814. **Coauthor or Collaborator**.
33. Tsubota H, Ribeiro R, Billia F, Cusimano RJ, **Yau TM**, Badiwala M, Stansfield WE & Rao V. Left ventricular assist device exchange: The Toronto General Hospital experience. *Canadian Journal of Surgery*. 2017 Aug;60(4):253-259. **Coauthor or Collaborator**.
34. Fredericks S, **Yau T**. Clinical effectiveness of individual patient education in heart surgery patients: A systematic review and meta-analysis. *International Journal of Nursing Studies*. 2017 Jan;66:44-53. **Senior Responsible Author**.
35. Noiseux N, Mansour S, Weisel R, Stevens LM, Der Sarkissian S, Tsang K, Crean AM, Larose E, Li SH, Wintersperger B, Vu MQ, Prieto I, Li RK, Roy DC, **Yau TM**. The IMPACT-CABG trial: A multicenter, randomized clinical trial of CD133+ stem cell therapy during coronary artery bypass grafting for ischemic cardiomyopathy. *The Journal of Thoracic Cardiovascular Surgery*. 2016 Dec;152(6):1582-1588. **Senior Responsible Author**.

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36. Wu J, Song HF, Li SH, Guo J, Tsang K, Tumiati L, Butany J, **Yau TM**, Ouzounian M, Fu S, David TE, Weisel RD & Li RK. Progressive Aortic Dilatation Is Regulated by miR-17-Associated miRNAs. *Journal of the American College of Cardiology*. 2016 Jun;67(25):2965-77. **Coauthor or Collaborator**.
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