Mohamad G. Ghosn PhD, MBA

Houston, TX (281) 844-1025 Moghoson22@gmail.com

LEADER, SCIENTIST, AND STRATEGIC THINKER WITH 20+ YEARS OF EXPERTISE IN MULTI-MODALITY CARDIOVASCULAR IMAGING

- ❖ Lead the development and implementation of the overall medical strategy and associated activities in alignment with the strategy of the Business Unit.
- ❖ Developed and executed pre- and post-launch strategies across functions, including building commercial team initiatives
- ❖ Work alongside a cross-functional group of Commercial, R&D, Legal, Marketing, and Regulatory affairs teams. Provide medical leadership to the cross-functional brand and product teams.
- ❖ Drive scientific exchange related to Business Unit's products in the clinical community by forming networks between KOLs and scientific societies to generate clinical evidence.
- ❖ Proficiency in and passionate about medical imaging. Over 20 years' experience in multi-modality cardiovascular imaging (MRI, Echocardiography, PET, SPECT, CT, and OCT).
- ❖ Authored over 30 peer-reviewed journal articles and two book chapters in various cardiovascular imaging areas.

EDUCATION

TWU

- **MBA with Healthcare Administration Emphasis** **2020**

Rice University

- **Program Certificate of Life Science Entrepreneurship** **2018**

University of Houston

- **Doctor of Philosophy in Biomedical Engineering** **2009**
- **Master of Science in Biomedical Engineering** **2006**
- **Bachelor of Science in Electrical and Computer Engineering** **2004**
- **Program Certificate of Engineering Leadership and Entrepreneurism Program** **2004**

PROFESSIONAL EXPERIENCE

GE HealthCare

Medical Director, Cardiology **August 2023 – Present**

- Lead the development and implementation of the overall medical strategy and associated activities for Business Unit products throughout launch and product lifecycles.
- Developed and executed pre- and post-launch strategies across functions, including building commercial team initiatives such as the Flyrcado Reading Training Program and ACC Flyrcado launch.
- Built initial cross-functional training programs for Sales, Market Access, Marketing, and Application Specialists.
- Serve as a leader in aggregating scientific, clinical, and technical customer-focused insights and strategic perspectives.
- Cultivated strong KOL relationships pre- and post-launch to drive advocacy, enabling peer-to-peer education and accelerating adoption within the academic community.
- Identify external clinical opinions, perceptions and trends that influence Business Unit's product and innovation strategies.
- Provide medical leadership to the cross-functional brand and product teams.
- Align with medical affairs colleagues on cross-functional team representation with the goal of developing and implementing integrated clinical and commercial strategies for Business Unit products.
- Co-led the integrated evidence generation strategy and delivered key ISTs and publications to support Flyrcado adoption
- Leveraged early real-world data and user feedback to refine product strategy, evolve TPP, and identify life cycle management tactics to maximize U.S. market value
- Lead review and provide medical input on promotional and other materials in accordance with appropriate regulations.
- Represent the team at regional and national scientific conferences.

Becton, Dickinson, and Company

Senior Clinical and Medical Affairs Manager **February 2022 – August 2023**

- Developed and executed a comprehensive product development strategy, encompassing clinical trial design and accelerated regulatory planning.

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- Secured expedited regulatory approval in 30 days, compared to the typical one-year timeline.
- Designed and operationalized a Phase III clinical trial within 18 months, including site and Principal Investigator (PI) selection.
- Built strategic relationships with 70+ KOLs to assess standards of practice and procedural complications for indication submission.
- Recruited KOLs for critical oversight roles, including the Data and Safety Monitoring Board (DSMB), Clinical Endpoint Committee (CEC), and Physician Imaging Review Panel for the IDE trial.
- Collaborated closely with BD leadership and cross-functional teams (Legal, Marketing, Finance, etc.) to ensure alignment and execution.
- Represented BD's Surgery Unit at national conferences, strengthening brand presence and scientific engagement.
- Served on the Surgery Business Unit Steering Committee, reviewing Investigator-Sponsored Study applications and guiding strategic decisions.

Houston Methodist Hospital Research Institute

Cardiovascular Research Administrator/Postdoctoral Fellows Manager
Assistant Professor of Imaging in Cardiology

September 2016 – February 2022

- Led the cardiovascular research division, managing over 20 FTEs, including MD fellows, PhD postdocs, research nurses, clinical coordinators, and finance staff.
- Serve as Principal Investigator, Co-Investigator, and Trial Manager on over 100 cardiovascular clinical trials in collaboration with leading pharmaceutical and device companies (GE, Medtronic, Siemens, Guerbet, Bayer, Gore, Merck, Novartis, Abbott) and top academic institutions (University of Houston, UCSF, Duke, Piedmont).
- Directed pharma collaboration strategies and pricing decisions to advance research priorities.
- Facilitate strategic partnerships between 50+ cardiologists and cardiovascular surgeons and major industry stakeholders to advance scientific exchange and secure collaborations.
- Master Trainer and Lecturer on clinical trial logistics, operations, and regulatory compliance; recognized for advanced public speaking and educational leadership.
- Drive risk mitigation strategies and maintain proactive communication with internal teams, sponsors, and vendors.

Houston Methodist Hospital - DeBakey Heart and Vascular Center

Research Associate II **July 2013 – September 2015**

- Lead a group of researchers in designing and executing various cardiovascular research projects.
- Design and author study protocols and grant proposals. Lead necessary regulatory submissions.
- Publish results in peer-reviewed journals. Present them in national and international conferences.
- Manage Communications with Hospital Internal Review Board (IRB) for Approval of trial launch.
- Lecturer in the various weekly cardiovascular and research conferences at Houston Methodist.

Baylor College of Medicine - Atherosclerosis and Vascular Medicine

Postdoctoral Research Fellow **December 2009 – June 2013**

- Designed and executed cardiovascular studies.
- Collaborate with physicians to design, generate and conduct human, animal, and bench research projects.
- Manage public funded research projects (NIH, NSF, AHA) and industry sponsored clinical trials.
- Complete project proposals and protocols, federal and local grant submissions, and their corresponding budgets.
- Publish multiple peer-reviewed scientific papers and two book chapters.

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CORE COMPETENCIES

Technical

FDA IDE Application management

Expertise in leading medical strategy for the launch of newly FDA approved product.

Clinical Trial Startup and Management Expertise **(design, protocol and documents, budget, contract, and regulatory affairs)**

Extensive experience in Cardiovascular Imaging Research **(MRI, Echocardiography, PET, SPECT, CT, and OCT)**

CCRP Certified. Expert in FDA 21 CFR Parts 11, 50, 54, 56, 814, &16 and ISO 14155:2020

Notable Projects

Millibot (Robotic) Swimmer – Tetherless device for clot removal and drug delivery – **Principal Investigator ($1 Million NSF Grant)**

Drug Perfusion Studies using Optical Coherence Tomography (OCT) – **PhD Project**

Recipient of multiple industry sponsored grants **(Siemens, Abbott, Guerbet, …)**

Co-host and Lecturer in the Weekly Advanced cardiovascular Imaging Conference **(MRI, PET, CT, ECHO),** semi-annual ***Houston Methodist CMR workshop*** and ***SCMR's Foundations of CMR workshop***

Founder and **CEO** of Houston Tutoring Academy L.L.C.

Honors/Awards

University of Houston **Teacher Assistant of the year**

American College of Cardiology (ACC) – **Best Poster Award**

American College of Cardiology (ACC) **- Best Moderated Presentation**

American College of Cardiology – Texas Chapter (TACC) – **Best Poster Award**

American Heart Association (AHA) – **Postdoctoral Fellowship Grant**

Over 30 Peer Reviewed Publications

Two Book Chapters published

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INVITED AND/OR PEER-SELECTED PRESENTATIONS

Regional

Toward Adaptive Control for 3D Navigation of Magnetic Milli-Swimmers.	Texas A&M, College Station TX	04/2019

National

Depth-resolved monitoring of analytes diffusion in ocular tissues	The International Society of Optics and Photonics (SPIE), San Jose CA	01/2008
Quantifying permeability of glucose in normal and atherosclerotic pig aorta in vitro using optical coherence tomography	The International Society of Optics and Photonics (SPIE), San Jose CA	01/2008
Nonlinear diffusivity of analytes in tissues	The International Society of Optics and Photonics (SPIE), San Jose CA	01/2008
Quantifying the effect of milli-molar glucose concentration on thickness of rabbit cornea with optical coherence tomography	The International Society of Optics and Photonics (SPIE), San Jose CA	01/2009
The nonlinear relationship between concentration of analyte and its permeability coefficient in ocular tissues	The International Society of Optics and Photonics (SPIE), San Jose CA	01/2009
Optical coherence tomography in estimating molecular diffusion of drugs and analytes in ocular tissues	The International Society of Optics and Photonics (SPIE), San Jose CA	01/2009
Effect of Hypothermic Preservation on Biological Tissues in Physiological Solution	The International Society of Optics and Photonics (SPIE), San Francisco CA	01/2010
The detection of left ventricular scar by delayed enhancement-CMR in non-ischemic cardiomyopathy is a stronger predictor of cardiovascular events than left ventricular ejection fraction	Journal of Cardiovascular Magnetic Resonance (JCMR), San Francisco CA	01/2013
In non-ischemic cardiomyopathy (NICMP), the presence of LV scar detected by Delayed Enhancement-CMR is a stronger predictor of cardiovascular events than Left Ventricular Ejection Fraction (LVEF)	Society of Cardiac Magnetic Resonance (SCMR), San Francisco, CA	02/2013
Relationship between Myocardial Extracellular Volume and Myocardial Scar In Non-ischemic Cardiomyopathy Patients	American Heart Association Scientific Sessions, Dallas, TX	11/2013
Cardiac Magnetic Resonance Imaging for the Functional Assessment of Normal Bioprosthetic Mitral Valves: A Comparison against in vitro Reference Standards and Doppler echocardiography	American Heart Association Scientific Sessions, Dallas, TX	11/2013
Cardiac Magnetic Resonance Derived Late Gadolinium Enhancement Replacement Fibrosis and Extracellular Volume Significance in the Detection of Diastolic Dysfunction	American Heart Association Scientific Sessions, Dallas, TX	11/2013

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Cardiac Magnetic Resonance 4D Flow: An In Vitro Validation of Bioprosthetic Mitral Valve Flow Volume Quantification	American Heart Association Scientific Sessions, Dallas, TX	11/2013
Relationship Between Myocardial Extracellular Volume And Myocardial Scar In Non-ischemic Cardiomyopathy Patients	American Heart Association Scientific Sessions, Dallas, TX	11/2013
An In Vitro Validation of Cardiac Magnetic Resonance 4D Flow measurements with Bioprosthetic Mitral Valve Flow Volumes Quantification	Society of Cardiac Magnetic Resonance (SCMR), New Orleans, LA	01/2014
Relationship between CMR derived myocardial extracellular volume and myocardial replacement scarring in non-ischemic cardiomyopathy	Society of Cardiac Magnetic Resonance (SCMR), New Orleans, LA	01/2014
Replacement Fibrosis Detected by CMR is a Predictor of Outcome in Patients with Non-Ischemic Cardiomyopathy	Society of Cardiac Magnetic Resonance (SCMR), New Orleans, LA	01/2014
Replacement Fibrosis Detected by CMR is a Predictor of Outcome in Patients with Non-Ischemic Cardiomyopathy	American College of Cardiology (ACC), Washington, DC	03/2014
Cardiac Magnetic Resonance in Differentiating Amongst Aortic Dissection and Aortic Intramural Hematoma in Acute Aortic Syndrome Patients	American Association for Thoracic Surgery, New York, NY	04/2014
A Dynamic ex vivo Porcine Model of Acute Type-B Aortic Dissection for the Validation of 4D-Flow Magnetic Resonance Measurements	American Association for Thoracic Surgery, New York, NY	04/2014
Replacement and Interstitial Fibrosis by Cardiac MR and Diastolic dysfunction in HCM	American Society of Echocardiography (ASE), Portland, OR	06/2014
Impact of Late Gadolinium Enhancement with Cardiac Magnetic Resonance on Mortality in Moderate to Severe Aortic Stenosis.	American Heart Association (AHA), Chicago, IL	11/2014
Replacement and Interstitial Fibrosis by Cardiac MR and Diastolic Dysfunction in Patients with Dilated Cardiomyopathy.	American Heart Association (AHA), Chicago, IL	11/2014
Bioprosthetic Mitral Valve Effective Orifice Area using 4D Flow Cardiac Magnetic Resonance derived Time Velocity Integral	American Heart Association (AHA), Chicago, IL	11/2014
Myocardial Extracellular Volume as a Predictor of Outcome – A Cardiac Magnetic Resonance Study	American College of Cardiology (ACC), San Diego, DC	03/2015
Detection of Left Atrial and Left Atrial Appendage Thrombus by Cardiac Magnetic Resonance in Patients Undergoing Pulmonary Vein Isolation	American College of Cardiology (ACC), San Diego, DC	03/2015
Replacement and Interstitial Fibrosis by Cardiac MR and Diastolic Dysfunction in Patients with Dilated Cardiomyopathy	American College of Cardiology (ACC), San Diego, DC	03/2015

Association of Myocardial Extracellular Volume and Clinical Outcome: A Cardiac Magnetic Resonance Study	American College of Cardiology (ACC), San Diego, DC	03/2015
Fresh Adipose Tissue Derived Stem Cells Significantly Enhance Ventricular Function in a Chronic Porcine Myocardial Infarction Model	American College of Cardiology (ACC), San Diego, DC	03/2015
Cardiac Magnetic Resonance Derived Late Gadolinium Enhancement Replacement Fibrosis and Extracellular Volume Significance in the Detection of Diastolic Dysfunction	American Heart Association (AHA), Chicago, IL	11/2018
Prognostic Significance of Myocardial Extracellular Volume Fraction	American Heart Association (AHA), Chicago, IL	11/2018
Reduction in Extracellular Volume Fraction After Mitral Valve Repair of Chronic Mitral Regurgitation: A Cardiac MRI Pilot Study	American Heart Association (AHA), Chicago, IL	11/2018
Elevated Myocardial Extracellular Volume Fraction (ECV) and its Prognostic Significance in Diabetic Individuals	Journal of the American College of Cardiology (JACC), Atlanta GA	05/2021
Differences in Myocardial Remodeling and Tissue Characteristics in Aortic and Mitral Regurgitation	Journal of the American College of Cardiology (JACC), Atlanta GA	05/2021
F-18 Flurpiridaz PET MPI in the Detection of Coronary Artery Disease	SNMMI Central Chapter	10/2024

International

Monitoring of drug diffusion in ocular tissues	The International Society of Optics and Photonics. Saratov, Russia	09/2006
The effect of solution concentration on diffusion in scleral tissues	The International Society of Optics and Photonics. Saratov, Russia	09/2007
Bioprosthetic Mitral Valve Effective Orifice Area Using 4D Flow Cardiac Magnetic Resonance Derived Time Velocity Integral. An In-Vitro Comparison with Doppler Echocardiography	Society of Cardiac Magnetic Resonance (SCMR), Nice, France	02/2015
Relationship between Cardiac Troponin T and Cardiac Morphology, Function, and Fibrosis – A Cardiac Magnetic Resonance Study	Society of Cardiac Magnetic Resonance (SCMR), Nice, France	02/2015
Evaluating Change of Function After Revascularization in Patients with Multi Vessel Coronary Artery Disease, Severely Reduced silvab	Society of Cardiac Magnetic Resonance (SCMR), Nice, France	02/2015
Left Ventricular Systolic Function and No Scar on CMR Imaging		
Agile 3D-Navigation of a Helical Magnetic Swimmer	IEEE International Conference on Robotics and Automation, Paris France	05/2019

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F-18 Flurpiridaz in PET MPI: A Novel Tracer for Coronary Artery Disease Detection	SNMMI Puerto Rico Chapter	09/2025
Implementing F-18 Flurpiridaz in PET MPI: Technical Perspectives	SNMMI Puerto Rico Chapter	09/2025

PEER-REVIEWED JOURNAL ARTICLES

1. **M.G. Ghosn**, V.V. Tuchin, and K.V. Larin. Depth-resolved monitoring of glucose diffusion in tissues by using optical coherence tomography. Optic Letters, 1 Aug 2006; 31;2314-6.
2. K.V. Larin and **M.G. Ghosn**. Influence of experimental conditions on drug diffusion in cornea. Quantum Electronics, 2016; 36:1083-1088.
3. R.K. Manapuram, **M.G. Ghosn**, and K.V. Larin. Identification of Artificial Fingerprints Using Optical Coherence Tomography Technique. Asian Journal of Physics, 2006; 15:15-27.
4. **M.G. Ghosn**, V.V. Tuchin, and K.V. Larin. Nondestructive quantification of analyte diffusion in cornea and sclera using optical coherence tomography. Investigative Ophthalmology and Visual Sciences, Jun 2007; 48;2726-33.
5. K.V. Larin**, M.G. Ghosn**, S.N. Ivers, A. Tellez, and J.F. Granada. Quantification of glucose diffusion in arterial tissues by using optical coherence tomography. Laser Physic Letters, 2007; 4:312-217.
6. **M.G. Ghosn**, E.F. Carbajal, N.A. Befrui, A. Tellez, J.F. Granada, and K.V. Larin. Permeability of hyperosmotic agent in normal and atherosclerotic vascular tissues. Journal of Biomedical Optics, 2008; 13:010505.
7. **M.G. Ghosn**, E.F. Carbajal, N.A. Befrui, V.V. Tuchin, and K.V. Larin. Differential permeability rate and percent clearing of glucose in different regions in rabbit sclera. Journal of Biomedical Optics, 2008; 13:021110.
8. **M. G. Ghosn**, E. F. Carbajal, N. A. Befrui, V. V. Tuchin, and K. V. Larin, Concentration effect on the diffusion of glucose in ocular tissues. Optics and Lasers in Engineering, 2008; 46: 911-914.
9. I. V. Larina, N. Sudheendran, **M. G. Ghosn,** J. Jiang, A. Cable, K. V. Larin, and M. E. Dickinson, Live imaging of blood flow in mammalian embryos using Doppler swept-source optical coherence tomography. Journal of Biomedical Optics, 2008; 13:060506.
10. **M.G. Ghosn,** M. Leba, A. Vijayananda, P. Rezaee, J. D. Morrisett, and K. V. Larin. Effect of temperature on permeation of low-density lipoprotein particles through human carotid artery tissues. Journal of Biophotonics, 2009; 2: 573-580.
11. **M.G. Ghosn,** S. H. Syed, N. A. Befrui, M. Leba, A. Vijayananda, N. Sudheendran, and K. V. Larin, Quantification of molecular diffusion in arterial tissues with Optical Coherence Tomography and Fluorescence Microscopy. Laser Physics, 2009*;* 19: 1-4.
12. **M.G. Ghosn,** N. Sudheendran, M. Wendt, A. Glasser, V. V. Tuchin, and K. V. Larin. Monitoring of glucose permeability in monkey skin in vivo using Optical Coherence Tomography. Journal of Biophotonics, 2009; 3;25-33.
13. N. Sudheendran, M. Mohamed, **M. G. Ghosn,** V. V. Tuchin, and K. V. Larin. Assessment of Tissue Optical Clearing as a Function of Glucose Concentration using Optical Coherence Tomography. Journal of Innovative Optical Health Sciences, 2010: 3,169.
14. **M. G. Ghosn**, M. Mashiatulla, M. A. Mohamed, S. Syed, F. Castro-Chavez, J. D. Morrisett, and K. V. Larin. Time Dependent Changes in Aortic Tissue during Cold Storage in Physiological Solution. Biochim Biophys Acta., 2011; 5: 555-60.
15. **M. G. Ghosn,** S. H. Syed, M. A. Mohamed, M. Mashiatulla, A. Mehralizad, K. V. Larin, and J. D. Morrisett. Permeation of Human Plasma Lipoproteins in Human Carotid Endarterectomy Tissues: Measurement by Optical Coherence Tomography. Journal of Lipid Research, 2011; 52:1429-1434, 2011.
16. E. A. Genina, A. N. Bashkatov, V. V. Tuchin, **M. G. Ghosn**, K. V. Larin, and T. G. Kamenskikh. Cortexin diffusion in human eye sclera. Quantum Electronics, 2011; 41:407-413.
17. K. V. Larin, **M. G. Ghosn**, A. N. Bashkatov, E. A. Genina, N. A. Trunina, and V. V. Tuchin. Optical clearing for OCT image enhancement and in-depth monitoring of molecular diffusion. IEEE Journal of Selected Topics in Quantum Electronics, 2012; 18(3):1244-1259.

18. A. A. Gupte, L. J. Minze, M. Reyes, X. Wang, G. Brunner, **M. G. Ghosn**, K. Ding, D. Pratico, J. D. Morrisett, Z. Shi, K. Li, D. Hamilton, and W. Hsueh. High fat feeding-induced hyperinsulinemia increases cardiac glucose uptake and mitochondrial function despite peripheral insulin resistance. Endocrinology, 2013; 154:2650-62.
19. **M. G. Ghosn**, Kongkiat Chaikriangkrai, Itamar Birnbaum, and Dipan J. Shah. Replacement Fibrosis as a Predictor of Outcomes in Patients with Non-Ischemic Cardiomyopathy. J Cardiovasc Magn Reson. 2014; 16(Suppl 1): P318. Published online 2014 Jan 16. doi: 10.1186/1532-429X-16-S1-P318.
20. **M. G. Ghosn**, Patrick Green, Itamar Birnbaum, Kongkiat Chaikriangkrai, and Dipan J. Shah. Non-Invasive Risk Stratification in Patients with Non-Ischemic Cardiomyopathy Using Cardiac Magnetic Resonance Imaging. Journal of the American College of Cardiology, April 2014; 63(12 Suppl): A1196. DOI: 10.1016/S0735-1097(14)61196-7
21. **M. G. Ghosn**, Dipan J. Shah. Important advances in technology and unique applications related to cardiac magnetic resonance imaging. Methodist Debakey Cardiovasc J, 2014 Jul-Sep;10(3):159-62. doi: 10.14797/mdcj-10-3-159. Review. PubMed PMID: 25574343;adi PubMed Central PMCID: PMC4280240.
22. X. Huang, Q. Wang, J. Zheng, J. Chen, **M. G. Ghosn**, D. Shah, W. Kainz. Using transfer function approach to develop MRI visible and low RF heating sleeve for cardiac application. 2016 IEEE/ACES International Conference on Wireless Information Technology and Systems (ICWITS) and Applied Computational Electromagnetics (ACES), 2016, pp. 1-2, doi: 10.1109/ROPACES.2016.7465440.
23. D. Kitkungvan, F. Nabi, **M. G. Ghosn**, A. S. Dave, M. Quinones, W. A. Zoghbi, M. Valderrabano, D. J. Shah. Detection of LA and LAA Thrombus by CMR in Patients Referred for Pulmonary Vein Isolation. JACC Cardiovasc Imaging, 2016 Jul;9(7):809-818. doi: 10.1016/j.jcmg.2015.11.029. Epub 2016 May 25. PubMed PMID: 27236529.
24. D. Maragiannis, P. A. Alvarez, **M. G. Ghosn**, K. Chin, J. J. Hinojosa, J. M. Buergler, D. J. Shah, S. F. Nagueh. Left ventricular function in patients with hypertrophic cardiomyopathy and its relation to myocardial fibrosis and exercise tolerance. Int J Cardiovasc Imaging, 2018 Jan;34(1):121-129. doi: 10.1007/s10554-017-1214-z. Epub 2017 Jul 26. PubMed PMID: 28748418.
25. M. Khan, E. Yang, **M. G. Ghosn**, F. Nabi, S. Pickett, P. Green, D. Aguilar, W. A. Zoghbi, S. F. Nagueh, and D. J. Shah. Elevated Myocardial Extracellular Volume Fraction (ECV) and it's Prognostic Significance in Diabetic Individuals, JACC, (Journal of the American College of Cardiology), 2017-03-21, Volume 69, Issue 11, Pages 1441-1441, Copyright © 2017 American College of Cardiology Foundation
26. H. W. de Beaufort, D. J. Shah, A. P. Patel, M. S. Jackson, D. Spinelli, E. Y. Yang, **M. G. Ghosn**, K. Autry, S. R. Igo, A. B. Lumsden, S. H. Little, S. Trimarchi, J. Bismuth. Four-dimensional flow cardiovascular magnetic resonance in aortic dissection: Assessment in an ex vivo model and preliminary clinical experience. J Thorac Cardiovasc Surg, 2019 Feb;157(2):467-476.e1. doi: 10.1016/j.jtcvs.2018.06.022. Epub 2018 Jul 3. PMID: 30121136
27. A. Haenel, **M. G. Ghosn**, T. Karimi, J. Vykoukal, D. Shah, M. Valderrabano, D. G. Schulz, A. Raizner, C. Schmitz, E. U. Alt. Unmodified autologous stem cells at point of care for chronic myocardial infarction. World J Stem Cells, 2019 Oct 26;11(10):831-858. doi: 10.4252/wjsc.v11.i10.831. PubMed PMID: 31692971; PubMed Central PMCID: PMC6828597.
28. E. Y. Yang, **M. G. Ghosn**, M. Khan, N. Gramze, G. Brunner, F. Nabi, V. Nambi, S. F. Nagueh, D. T. Nguyen, E. A. Graviss, E. B. Schelbert, C. M. Ballantyne, W. A. Zoghbi, D. J. Shah. Myocardial Extracellular Volume Fraction Adds Prognostic Information Beyond Myocardial Replacement Fibrosis. Circ Cardiovasc Imaging, 2019 Dec;12(12):e009535. doi: 10.1161/CIRCIMAGING.119.009535. Epub 2019 Dec 16. PMID: 31838882
29. J. Leclerc, A. Lu, A. T. Becker, **M. G. Ghosn**, D. J. Shah. Resonating Magnetic Manipulation for 3D Path-Following and Blood Clot Removal Using a Rotating Swimmer. IEEE/RSJ, 2020 October; 3083-3090.
30. J. Leclerc, H. Zhao, D. Bao, A. Becker, **M. G. Ghosn**, D. J. Shah. Agile 3D-Navigation of a Helical Magnetic Swimmer. 2020 IEEE International Conference on Robotics and Automation (ICRA), 2020, 7638-7644.
31. M. Malahfji, V. Crudo, D. Kitkungvan, A. Senapati, P. Bhugra, B. Tayal, D. Debs, M. Klosterman, **M. G. Ghosn**, D. Nguyen, E. Graviss, D. J. Shah (2021). Differences in Myocardial Remodeling and Tissue Characteristics in Aortic and Mitral Regurgitation. Journal of the American College of Cardiology. 2021, May; 77. 1736. 10.1016/S0735-1097(21)3092-8.
32. Y. Lu, J. Ramos, **M. G. Ghosn,** D. J. Shah, A. Becker, J. Leclerc. Insertion, Retrieval and Performance Study of Miniature Magnetic Rotating Swimmers for the Treatment of Thrombi. 2023 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).
33. M. Alwan, A. El Yaman, M. Al Rifai, S. Escobar, S. Abbasi, **M. G. Ghosn**, M. Di Carli, M. Al-Mallah. Optimizing Protocol Efficiency in F-18 Flurpiridaz PET MPI Through Dose Ratio–Driven Reduction of Residual Activity (In Press)

BOOK CHAPTERS

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1. K. V. Larin, **M. G. Ghosn**, and V. V. Tuchin. Noninvasive Assessment of Molecular Permeability with OCT, in Handbook of Photonics for Biomedical Science, V. V. Tuchin, Ed., ed: CRC Press, 2010. ISBN 9780367384074, pages: 446-466.
2. **M. G. Ghosn**, Mashiatulla M., J. D. Morrisett, and K. V. Larin. Assessment of Cardiovascular Disease through Permeability Rate: Quantified Using Optical Coherence Tomography, in Handbook of Photonics for Biomedical Science, V. V. Tuchin, Ed., Springer New York, 2013. pages: 1103-1123.