




## Myriam Amsallem

Postdoctoral Research Fellow, Cardiovascular Medicine

 NIH Biosketch available Online

### Bio

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#### BIO

Myriam Amsallem MD PhD is a cardiologist specialized in cardiac imaging. She has an interest in heart failure, cardioimmunology and early detection of pulmonary hypertension using imaging and circulating biomarkers. She is currently working on studies on cardiac remodeling pulmonary hypertension with the goal of understanding the influence of inflammation and finding early biomarkers of remodeling. She also has a special interest in educational projects to improve the quality of imaging methodology.

#### HONORS AND AWARDS

- AHA Cournand and Comroe Young Investigator Award - Finalist, American Heart Association (2016)
- Travel & Exchange Ideas Award, Stanford Cardiovascular Institute (2016)
- Young Investigator Seed Grant, Vera Moulton Wall Center (2016)
- Best Poster Award Paris Echo 2015 Congress, Paris Echo 2015 Congress Committee (2015)
- Best 2014/2015 Thesis Award - Prix de thèse 2014 "Paul Chiche", French Society of Cardiology (2014)
- Medical Doctorate Thesis with the highest honors, Jury de thèse Paris 7 University (2014)
- Ranked 10th on all 7766 French medical students at the 2011 National Ranking Examination, French Ministry of Health (2011)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Heart Association (2015 - present)
- Member, Societe Francaise de Cardiology (2011 - present)
- Member, European Society of Cardiology (2011 - present)

#### PROFESSIONAL EDUCATION

- PhD, Universite Paris Sud - Paris Saclay (France) , Right Heart Remodeling in Pulmonary Hypertension: from deep phenotyping to proteomics profiling. (2019)
- Board Certification, French Board of Cardiovascular Medicine , Cardiovascular Medicine (2017)
- Residency and Fellowship, Universite Denis Diderot (Paris VII) - Assistance Publique Hôpitaux de Paris , Cardiovascular Medicine (2014)
- Master of Science, Universite Denis Diderot (Paris VII) - France , Vascular Biology (2014)
- Doctor of Medicine, Universite Claude-Bernard (Lyon I) (2012)

#### LINKS

- <http://med.stanford.edu/cvi/translational-research/clinical-biomarker-lab/lab-team.html>: <http://med.stanford.edu/cvi/translational-research/clinical-biomarker-lab/lab-team.html>
- [www.linkedin.com/in/myriam-amsallem-md](http://www.linkedin.com/in/myriam-amsallem-md): [www.linkedin.com/in/myriam-amsallem-md](http://www.linkedin.com/in/myriam-amsallem-md)

## Research & Scholarship

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### LAB AFFILIATIONS

- Francois Haddad, Clinical Biomarker and Phenotype Core Laboratory (11/1/2014)

### Publications

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#### PUBLICATIONS

- **Blood pressure in athletic preparticipation evaluation and the implication for cardiac remodelling.** *Heart (British Cardiac Society)*  
Hedman, K., Moneghetti, K. J., Christle, J. W., Bagherzadeh, S. P., Amsallem, M., Ashley, E., Froelicher, V., Haddad, F.  
2019
- **INDEPENDENT PROGNOSTIC VALUES OF CLINICAL RISK SCORES, RIGHT VENTRICULAR SYSTOLIC PRESSURE, AND N-TERMINAL PRO-B-TYPE PEPTIDE IN HEART FAILURE WITH PRESERVED EJECTION FRACTION: INSIGHTS FROM SUPERVISED AND UNSUPERVISED MODELS**  
Tremblay-Gravel, M., Kobayashi, Y., Boralkar, K., Li, X., Bouajila, S., Nishi, T., Amsallem, M., Moneghetti, K., Selej, M., Ozen, M., Demirci, U., Ashley, E. A., Wheeler, et al  
ELSEVIER SCIENCE INC.2019: 718
- **REPLY: Increasingly Recognized Role of Right Ventricle Assessment in Cardiac Amyloidosis** *JACC-HEART FAILURE*  
Amsallem, M., Witteles, R., Haddad, F.  
2019; 7 (3): 279–80
- **Autologous endothelial progenitor cell therapy improves right ventricular function in a model of chronic thromboembolic pulmonary hypertension.** *The Journal of thoracic and cardiovascular surgery*  
Loisel, F., Provost, B., Guihaire, J., Boulate, D., Arouche, N., Amsallem, M., Arthur-Ataam, J., Decante, B., Dorfmueller, P., Fadel, E., Uzan, G., Mercier, O.  
2019; 157 (2): 655–66.e7
- **Assessment of Left Ventricular Diastolic Function by Transesophageal Echocardiography Before Cardiopulmonary Bypass: Clinical Implications of a Restrictive Profile.** *Journal of cardiothoracic and vascular anesthesia*  
Beaubien-Souligny, W., Brand, F. Z., Lenoir, M., Amsallem, M., Haddad, F., Denault, A. Y.  
2019; 33 (9): 2394–2401
- **ICAM-1 promotes the abnormal endothelial cell phenotype in chronic thromboembolic pulmonary hypertension.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Arthur Ataam, J., Mercier, O., Lamrani, L., Amsallem, M., Arthur Ataam, J., Arthur Ataam, S., Guihaire, J., Lecerf, F., Capuano, V., Ghigna, M. R., Haddad, F., Fadel, E., Eddahibi, et al  
2019
- **Approaching Higher Dimension Imaging Data Using Cluster-Based Hierarchical Modeling in Patients with Heart Failure Preserved Ejection Fraction.** *Scientific reports*  
Kobayashi, Y., Tremblay-Gravel, M., Boralkar, K. A., Li, X., Nishi, T., Amsallem, M., Moneghetti, K. J., Bouajila, S., Selej, M., Ozen, M. O., Demirci, U., Ashley, E., Wheeler, et al  
2019; 9 (1): 10431
- **The Incremental Value of Right Ventricular Size and Strain in the Risk Assessment of Right Heart Failure Post - Left Ventricular Assist Device Implantation.** *Journal of cardiac failure*  
Aymami, M., Amsallem, M., Adams, J., Sallam, K., Moneghetti, K., Wheeler, M., Hiesinger, W., Teuteberg, J., Weisshaar, D., Verhoye, J., Woo, Y. J., Ha, R., Haddad, et al  
2018; 24 (12): 823–32
- **Forgotten No More: A Focused Update on the Right Ventricle in Cardiovascular Disease.** *JACC. Heart failure*  
Amsallem, M., Mercier, O., Kobayashi, Y., Moneghetti, K., Haddad, F.  
2018
- **Right ventricular load adaptability metrics in patients undergoing left ventricular assist device implantation.** *The Journal of thoracic and cardiovascular surgery*  
Amsallem, M., Aymami, M., Hiesinger, W., Zeigler, S., Moneghetti, K., Marques, M., Teuteberg, J., Ha, R., Banerjee, D., Haddad, F.  
2018

- **Impact of the initiation of balloon pulmonary angioplasty program on referral of patients with chronic thromboembolic pulmonary hypertension to surgery.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*  
Amsallem, M., Guihaire, J., Arthur Ataam, J., Lamrani, L., Boulate, D., Mussot, S., Fabre, D., Taniguchi, Y., Haddad, F., Sitbon, O., Jais, X., Humbert, M., Simonneau, et al  
2018
- **Optimizing right ventricular focused four-chamber views using three-dimensional imaging, a comparative magnetic resonance based study.** *The international journal of cardiovascular imaging*  
Amsallem, M., Lu, H., Tang, X., Do Couto Francisco, N. L., Kobayashi, Y., Moneghetti, K., Shiran, H., Rogers, I., Schnittger, I., Liang, D., Haddad, F.  
2018
- **RIGHT VENTRICULAR LOAD ADAPTABILITY IN PATIENTS UNDERGOING CONTINUOUS-FLOW LEFT VENTRICULAR ASSIST DEVICE IMPLANTATION**  
Amsallem, M., Aymami, M., Hiesinger, W., Zeigler, S., Moneghetti, K., Marques, M., Wheeler, M., Teuteberg, J., Ha, R., Banerjee, D., Haddad, F.  
ELSEVIER SCIENCE INC.2018: 1624
- **THE COMPLEMENTARY VALUE OF THE GET WITH THE GUIDELINES: HEART FAILURE RISK SCORE AND LABORATORY MARKERS AT DISCHARGE IN PREDICTING MORTALITY IN PATIENTS HOSPITALIZED WITH HEART FAILURE WITH PRESERVED EJECTION FRACTION**  
Boralkar, K., Kobayashi, Y., Pargaonkar, V., Moneghetti, K., Tuzovic, M., Krishnan, G., Amsallem, M., Kouznetsova, T., Horne, B., Knowlton, K., Heidenreich, P., Haddad, F.  
ELSEVIER SCIENCE INC.2018: 839
- **Stem cell therapy targeting the right ventricle in pulmonary arterial hypertension: is it a potential avenue of therapy?** *PULMONARY CIRCULATION*  
Loisel, F., Provost, B., Haddad, F., Guihaire, J., Amsallem, M., Vrtovec, B., Fadel, E., Uzan, G., Mercier, O.  
2018; 8 (2): 2045893218755979
- **EXPRESS: Non-invasive Right Ventricular Load Adaptability Indices in Patients with Scleroderma-Associated Pulmonary Arterial Hypertension.** *Pulmonary circulation*  
French, S., Amsallem, M., Ouazani, N., Li, S., Kudelko, K., Zamanian, R., Haddad, F., Chung, L.  
2018: 2045894018788268
- **In Situ Antegrade Laser Fenestrations During Endovascular Aortic Repair** *European journal of vascular and endovascular surgery : the official journal of the European Society for Vascular Surgery*  
Le Houerou, T., Fabre, D., Alonso, C., Bourkaib, R., Angel, C., Amsallem, M., Haulon, S.  
2018; 56 (3): 356–62
- **Current Knowledge and Recent Advances of Right Ventricular Molecular Biology and Metabolism from Congenital Heart Disease to Chronic Pulmonary Hypertension** *BIOMED RESEARCH INTERNATIONAL*  
Guimaron, S., Guihaire, J., Amsallem, M., Haddad, F., Fadel, E., Mercier, O.  
2018: 1981568
- **Right Heart End-Systolic Remodeling Index Strongly Predicts Outcomes in Pulmonary Arterial Hypertension: Comparison With Validated Models.** *Circulation. Cardiovascular imaging*  
Amsallem, M., Sweatt, A. J., Aymami, M. C., Kouznetsova, T., Selej, M., Lu, H., Mercier, O., Fadel, E., Schnittger, I., McConnell, M. V., Rabinovitch, M., Zamanian, R. T., Haddad, et al  
2017; 10 (6)
- **Editor's Choice-Medically managed patients with non-ST-elevation acute myocardial infarction have heterogeneous outcomes, based on performance of angiography and extent of coronary artery disease.** *European heart journal. Acute cardiovascular care*  
Feldman, L., Steg, P. G., Amsallem, M., Puymirat, E., Sorbets, E., Elbaz, M., Ritz, B., Hueber, A., Cattan, S., Piot, C., Ferrières, J., Simon, T., Danchin, et al  
2017; 6 (3): 262-271
- **Investigating the value of right heart echocardiographic metrics for detection of pulmonary hypertension in patients with advanced lung disease.** *The international journal of cardiovascular imaging*  
Amsallem, M., Boulate, D., Kooreman, Z., Zamanian, R. T., Fadel, G., Schnittger, I., Fadel, E., McConnell, M. V., Dhillon, G., Mercier, O., Haddad, F.  
2017
- **Full Circle on Pulmonary Flow Dynamics in Pulmonary Arterial Hypertension.** *JACC. Cardiovascular imaging*  
Haddad, F., Amsallem, M.  
2017; 10 (10 Pt B): 1278–80

- **Load Adaptability in Patients With Pulmonary Arterial Hypertension.** *The American journal of cardiology*  
Amsallem, M., Boulate, D., Aymami, M., Guihaire, J., Selej, M., Huo, J., Denault, A. Y., McConnell, M. V., Schnittger, I., Fadel, E., Mercier, O., Zamanian, R. T., Haddad, et al  
2017; 120 (5): 874-82
- **Load Adaptability in Patients With Pulmonary Arterial Hypertension.** *Am J Cardiol*  
Amsallem, M., et al  
2017: 874-82
- **Full Circle on Pulmonary Flow Dynamics in Pulmonary Arterial Hypertension.** *JACC Cardiovasc Imaging*  
Haddad, F., Amsallem, M.  
2017
- **Early Development of Right Ventricular Ischemic Lesions in a Novel Large Animal Model of Acute Right Heart Failure in Chronic Thromboembolic Pulmonary Hypertension.** *Journal of cardiac failure*  
Boulate, D., Arthur Ataam, J., Connolly, A. J., Giraldeau, G., Amsallem, M., Decante, B., Lamrani, L., Fadel, E., Dorfmueller, P., Perros, F., Haddad, F., Mercier, O.  
2017
- **Dual-Modality Activity-Based Probes as Molecular Imaging Agents for Vascular Inflammation** *JOURNAL OF NUCLEAR MEDICINE*  
Withana, N. P., Saito, T., Ma, X., Garland, M., Liu, C., Kosuge, H., Amsallem, M., Verdoes, M., Ofori, L. O., Fischbein, M., Arakawa, M., Cheng, Z., McConnell, et al  
2016; 57 (10): 1583-1590
- **Challenging the complementarity of different metrics of left atrial function: insight from a cardiomyopathy-based study.** *European heart journal cardiovascular Imaging*  
Kobayashi, Y., Moneghetti, K. J., Boralkar, K., Amsallem, M., Tuzovic, M., Liang, D., Yang, P. C., Narayan, S., Kuznetsova, T., Wu, J. C., Schnittger, I., Haddad, F.  
2016
- **Right heart imaging in patients with heart failure: a tale of two ventricles.** *Current opinion in cardiology*  
Amsallem, M., Kuznetsova, T., Hanneman, K., Denault, A., Haddad, F.  
2016; 31 (5): 469-482
- **Magnetic Resonance Imaging and Positron Emission Tomography Approaches to Imaging Vascular and Cardiac Inflammation** *CIRCULATION JOURNAL*  
Amsallem, M., Saito, T., Tada, Y., Dash, R., McConnell, M. V.  
2016; 80 (6): 1269-1277
- **Regional right ventricular dysfunction in acute pulmonary embolism: relationship with clot burden and biomarker profile** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*  
Tuzovic, M., Adigopula, S., Amsallem, M., Kobayashi, Y., Kadoch, M., Boulate, D., Krishnan, G., Liang, D., Schnittger, I., Fleischmann, D., McConnell, M. V., Haddad, F.  
2016; 32 (3): 389-398
- **Addressing the Controversy of Estimating Pulmonary Arterial Pressure by Echocardiography** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*  
Amsallem, M., Sternbach, J. M., Adigopula, S., Kobayashi, Y., Vu, T. A., Zamanian, R., Liang, D., Dhillon, G., Schnittger, I., McConnell, M. V., Haddad, F.  
2016; 29 (2): 93-102
- **Early and late outcomes after trans-catheter aortic valve implantation in patients with previous chest radiation.** *Heart*  
Bouleti, C., Amsallem, M., et al  
2016
- **Exercise Strain Echocardiography in Patients With a Hemodynamically Significant Myocardial Bridge Assessed by Physiological Study** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*  
Kobayashi, Y., Tremmel, J. A., Kobayashi, Y., Amsallem, M., Tanaka, S., Yamada, R., Rogers, I. S., Haddad, F., Schnittger, I.  
2015; 4 (11)
- **Exercise Strain Echocardiography in Patients With a Hemodynamically Significant Myocardial Bridge Assessed by Physiological Study.** *Journal of the American Heart Association*  
Kobayashi, Y., Tremmel, J. A., Kobayashi, Y., Amsallem, M., Tanaka, S., Yamada, R., Rogers, I. S., Haddad, F., Schnittger, I.  
2015; 4 (11)

- **Predictors of high on-aspirin platelet reactivity in high-risk vascular patients treated with single or dual antiplatelet therapy.** *American journal of cardiology*  
Amsallem, M., Manzo-Silberman, S., Dillinger, J., Sideris, G., Voicu, S., Bal dit Sollier, C., Drouet, L., Henry, P.  
2015; 115 (9): 1305-1310
  
- **Comparative assessment of ascending aortic aneurysms in Marfan patients using ECG-gated computerized tomographic angiography versus trans-thoracic echocardiography** *INTERNATIONAL JOURNAL OF CARDIOLOGY*  
Amsallem, M., Ou, P., Milleron, O., Henry-Feugeas, M., Detaint, D., Arnoult, F., Vahanian, A., Jondeau, G.  
2015; 184: 22-27
  
- **Addressing the Controversy of Estimating Pulmonary Arterial Pressure by Echocardiography.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*  
Amsallem, M., Sternbach, J. M., Adigopula, S., Kobayashi, Y., Vu, T. A., Zamanian, R., Liang, D., Dhillon, G., Schnittger, I., McConnell, M. V., Haddad, F.  
2015
  
- **Ticagrelor effectiveness overestimated by VASP index Platelet inhibition by ticagrelor versus prasugrel in acute coronary syndrome patients according to platelet function tests** *INTERNATIONAL JOURNAL OF CARDIOLOGY*  
Dillinger, J., Silberman, S. M., Sollier, C. B., Amsallem, M., Sideris, G., Voicu, S., Henry, P., Drouet, L.  
2014; 176 (2): 557-559
  
- **Optical Coherence Tomography Imaging of Takayasu Coronary Arteritis** *CANADIAN JOURNAL OF CARDIOLOGY*  
Amsallem, M., Henry, P., Silberman, S. M.  
2014; 30 (4)