



Francois Haddad

Clinical Professor, Medicine - Cardiovascular Medicine

CLINICAL OFFICES

- **Cardiovascular Medicine**

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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Bio

BIO

Dr. Francois Haddad, MD is a Clinical Professor of Medicine that specializes in the field of cardio-vascular imaging, pulmonary hypertension, advanced heart failure and transplantation. Dr. Haddad has over 18 years of practice in the field of cardiology. He directs Stanford Cardiovascular Institute Biomarker and Phenotypic Core Laboratory dedicated to translational studies in cardiovascular medicine. The laboratory focuses on (1) identifying early biomarkers of heart failure and aging, (2) bioengineering approaches to cardiovascular disease modeling and (3) novel informatic approach for the detection and risk stratification of disease. He is involved in several precision medicine initiatives in health including the Project Baseline, the Integrated Personalized Omics Profiling Initiative, the Athletic screening program at Stanford and the Strong-D cardiac rehabilitation initiative in individuals with diabetes mellitus.

CLINICAL FOCUS

- Cardiology
- RIght Heart Failure
- Pulmonary Hypertension
- Hypertensive Heart Disease
- Heart Failure with preserved ejection fraction
- Advanced heart failure
- Heart Transplantation
- Unexplained Dyspnea
- Mechanical Cardiac Support

ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance

ADMINISTRATIVE APPOINTMENTS

- Task Force member, WHO Pulmonary Hypertension Committee, (2013-2018)
- Right Heart Expert Panel, American Thoracic Society, (2015-2018)
- Director Biomarker and Phenotypic Core Laboratory, Cardiovascular Institute, (2013- present)

HONORS AND AWARDS

- Dean's Honours List, University of Montreal (2000-2004)
- Governor's General Medal of Excellence, Government of Canada (1992)
- Faculty Teacher Award, Montreal University (2004)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Expert Panelist, American Thoracic Association (2015 - present)
- Council Leadership, American Heart Association 3CPR Council (2013 - present)

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2007) CA
- Board Certification: Cardiology, Royal College of Physicians and Surgeons (2004)
- Fellowship: Montreal Heart Institute (2004) Canada
- Residency: Montreal University Medical Center (2001) Canada
- Internship: University of Montreal/Sacre-Coeur Hospital (1999) Canada
- Board Certification: Internal Medicine, Royal College of Physicians and Surgeons (2003)
- Medical Education: University of Montreal (1998) Canada

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- Recognition of Heart Failure With Micro Electro-Mechanical Sensors (REFLECS), Not Recruiting
- Safety and Efficacy Study of Stem Cell Transplantation to Treat Dilated Cardiomyopathy, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Reference change value of global longitudinal strain in clinical practice: A test-rest quality implementation project.** *Echocardiography (Mount Kisco, N.Y.)*
Tuzovic, M., Tang, X., Francisco, N., Sell, A., Drew, R., Paloma, A., Chow, J., Liang, D., Heidenreich, P., Salerno, M., Schnittger, I., Haddad, F.
2022
- **4D flow cardiovascular magnetic resonance recovery profiles following pulmonary endarterectomy in chronic thromboembolic pulmonary hypertension.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*

- Dong, M. L., Azarine, A., Haddad, F., Amsallem, M., Kim, Y., Yang, W., Fadel, E., Aubrege, L., Loecher, M., Ennis, D., Pavec, J. L., Vignon-Clementel, I., Feinstein, et al
2022; 24 (1): 59
- **Association of left ventricular diastolic function with coronary artery calcium score: A Project Baseline Health Study.** *Journal of cardiovascular computed tomography*
Haddad, F., Cauwenberghs, N., Daubert, M. A., Kobayashi, Y., Bloomfield, G. S., Fleischman, D., Koweek, L., Maron, D. J., Rodriguez, F., Liao, Y. J., Moneghetti, K., Amsallem, M., Mega, et al
2022
 - **Elucidating tricuspid Doppler signal interpolation and its implication for assessing pulmonary hypertension** *PULMONARY CIRCULATION*
Dual, S. A., Verdonk, C., Amsallem, M., Pham, J., Obasohan, C., Nataf, P., McElhinney, D. B., Arunamata, A., Kuznetsova, T., Zamanian, R., Feinstein, J. A., Marsden, A., Haddad, et al
2022; 12 (3): e12125
 - **Temporal shift and predictive performance of machine learning for heart transplant outcomes.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Miller, R. J., Sabovcik, F., Cauwenberghs, N., Vens, C., Khush, K. K., Heidenreich, P. A., Haddad, F., Kuznetsova, T.
2022
 - **An inflammatory aging clock (iAge) based on deep learning tracks multimorbidity, immunosenescence, frailty and cardiovascular aging.** *Nature aging*
Sayed, N., Huang, Y., Nguyen, K., Krejciova-Rajaniemi, Z., Grawe, A. P., Gao, T., Tibshirani, R., Hastie, T., Alpert, A., Cui, L., Kuznetsova, T., Rosenberg-Hasson, Y., Ostan, et al
2021; 1: 598-615
 - **Donor and Recipient Size Matching in Heart Transplantation with Predicted Heart and Lean Body Mass.** *Seminars in thoracic and cardiovascular surgery*
Miller, R. J., Hedman, K. n., Amsallem, M. n., Tulu, Z. n., Kent, W. n., Fatehi, A. n., Clarke, B. n., Heidenreich, P. n., Hiesinger, W. n., Khush, K. K., Teuteberg, J. n., Haddad, F. n.
2021
 - **The Right Heart Network and Risk Stratification in Pulmonary Arterial Hypertension.** *Chest*
Haddad, F., Contrepolis, K., Amsallem, M., Denault, A. Y., Bernardo, R. J., Jha, A., Taylor, S., Arthur Ataam, J., Mercier, O., Kouznetsova, T., Vonk Noordegraaf, A., Zamanian, R. T., Sweatt, et al
2021
 - **Cardiopulmonary Exercise Testing With Echocardiography to Assess Recovery in Patients With Ventricular Assist Devices.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
Christle, J. W., Moneghetti, K. J., Duclos, S., Mueller, S., Moayedi, Y., Khush, K. K., Haddad, F., Hiesinger, W., Myers, J., Ashley, E. A., Teuteberg, J. J., Wheeler, M. T., Banerjee, et al
2021; 67 (10): 1134-1138
 - **Association of Subclinical Heart Maladaptation With the Pooled Cohort Equations to Prevent Heart Failure Risk Score for Incident Heart Failure.** *JAMA cardiology*
Cauwenberghs, N., Haddad, F., Kuznetsova, T.
2020
 - **Are pressure-volume loops relevant for hemodynamic assessment during ex vivo heart perfusion?** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Guihaire, J., Haddad, F., Mercier, O.
2020; 39 (10): 1165-66
 - **Trends in Left Ventricular Ejection Fraction for Patients With a New Diagnosis of Heart Failure.** *Circulation. Heart failure*
Tisdale, R. L., Haddad, F., Kohsaka, S., Heidenreich, P. A.
2020: CIRCHEARTFAILURE119006743
 - **The Project Baseline Health Study: a step towards a broader mission to map human health.** *NPJ digital medicine*
Arges, K., Assimes, T., Bajaj, V., Balu, S., Bashir, M. R., Beskow, L., Blanco, R., Califf, R., Campbell, P., Carin, L., Christian, V., Cousins, S., Das, et al
2020; 3 (1): 84
 - **Quantifying the Influence of Wedge Pressure, Age, and Heart Rate on the Systolic Thresholds for Detection of Pulmonary Hypertension.** *Journal of the American Heart Association*
Amsallem, M., Tedford, R. J., Denault, A., Sweatt, A. J., Guihaire, J., Hedman, K., Peighambari, S., Kim, J. B., Li, X., Miller, R. J., Mercier, O., Fadel, E., Zamanian, et al

2020: e016265

- **Are pressure-volume loops relevant for hemodynamic assessment during ex vivo heart perfusion?** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Guihaire, J., Haddad, F., Mercier, O.
2020
- **Subclinical left atrial dysfunction profiles for prediction of cardiac outcome in the general population.** *Journal of hypertension*
Cauwenberghs, N. n., Haddad, F. n., Sabov#ik, F. n., Kobayashi, Y. n., Amsallem, M. n., Morris, D. A., Voigt, J. U., Kuznetsova, T. n.
2020
- **Targeted Proteomics of Right Heart Adaptation to Pulmonary Arterial Hypertension.** *The European respiratory journal*
Amsallem, M. n., Sweatt, A. J., Arthur Ataam, J. n., Guihaire, J. n., Lecerf, F. n., Lambert, M. n., Ghigna, M. R., Ali, M. K., Mao, Y. n., Fadel, E. n., Rabinovitch, M. n., de Jesus Perez, V. n., Spiekerkoetter, et al
2020
- **The impact of prescribed fire versus wildfire on the immune and cardiovascular systems of children** *ALLERGY*
Prunicki, M., Kelsey, R., Lee, J., Zhou, X., Smith, E., Haddad, F., Wu, J., Nadeau, K.
2019; 74 (10): 1989–91
- **Outcomes in patients undergoing cardiac retransplantation: A propensity matched cohort analysis of the UNOS Registry.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Miller, R. J., Clarke, B. A., Howlett, J. G., Khush, K. K., Teuteberg, J. J., Haddad, F.
2019
- **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
- **A longitudinal big data approach for precision health** *NATURE MEDICINE*
Rose, S., Contrepois, K., Moneghetti, K. J., Zhou, W., Mishra, T., Mataraso, S., Dagan-Rosenfeld, O., Ganz, A. B., Dunn, J., Hornburg, D., Rego, S., Perelman, D., Ahadi, et al
2019; 25 (5): 792-+
- **Right ventricular mitochondrial respiratory function in a piglet model of chronic pulmonary hypertension.** *The Journal of thoracic and cardiovascular surgery*
Noly, P., Piquereau, J., Coblence, M., Ataam, J. A., Guihaire, J., Rucker-Martin, C., Decante, B., Haddad, F., Fadel, E., Mercier, O.
2019
- **Circulating Biomarkers Predicting Longitudinal Changes in Left Ventricular Structure and Function in a General Population.** *Journal of the American Heart Association*
Cauwenberghs, N., Ravassa, S., Thijs, L., Haddad, F., Yang, W., Wei, F., Lopez, B., Gonzalez, A., Diez, J., Staessen, J. A., Kuznetsova, T.
2019; 8 (2): e010430
- **Discovery of Distinct Immune Phenotypes Using Machine Learning in Pulmonary Arterial Hypertension.** *Circulation research*
Sweatt, A. J., Hedlin, H. K., Balasubramanian, V. n., Hsi, A. n., Blum, L. K., Robinson, W. H., Haddad, F. n., Hickey, P. M., Condliffe, R. A., Lawrie, A. n., Nicolls, M. R., Rabinovitch, M. n., Khatri, et al
2019
- **Pathophysiology of the right ventricle andof the pulmonary circulation in pulmonary hypertension: an update.** *The European respiratory journal*
Vonk Noordegraaf, A., Chin, K. M., Haddad, F., Hassoun, P. M., Hemnes, A. R., Hopkins, S. R., Kawut, S. M., Langleben, D., Lumens, J., Naeije, R.
2018
- **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 CardiovascularDisease.** *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
- **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
- **Long-term prognostic value of invasive and non-invasive measures early after heart transplantation.** *International journal of cardiology*
Kobayashi, Y. n., Kobayashi, Y. n., Yang, H. M., Bouajila, S. n., Luikart, H. n., Nishi, T. n., Choi, D. H., Schnittger, I. n., Valantine, H. A., Khush, K. K., Yeung, A. C., Haddad, F. n., Fearon, et al
2018; 260: 31–35
- **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. n., Arthur Ataam, J. n., Connolly, A. J., Giraldeau, G. n., Amsallem, M. n., Decante, B. n., Lamrani, L. n., Fadel, E. n., Dorfmueller, P. n., Perros, F. n., Haddad, F. n., Mercier, O. n.
2017
- **Noninvasive Imaging in the Assessment of the Cardiopulmonary Vascular Unit** *CIRCULATION*
Noordegraaf, A. V., Haddad, F., Bogaard, H. J., Hassoun, P. M.
2015; 131 (10): 899-913
- **Experimental Models of Right Heart Failure: A Window for Translational Research in Pulmonary Hypertension** *SEMINARS IN RESPIRATORY AND CRITICAL CARE MEDICINE*
Guihaire, J., Bogaard, H. J., Flecher, E., Noly, P., Mercier, O., Haddad, F., Fadel, E.
2013; 34 (5): 689-699
- **Effects of Intracoronary CD34(+) Stem Cell Transplantation in Nonischemic Dilated Cardiomyopathy Patients 5-Year Follow-Up** *CIRCULATION RESEARCH*
Vrtovec, B., Poglajen, G., Lezaic, L., Sever, M., Domanovic, D., Cernelc, P., Socan, A., Schrepfer, S., Torre-Amione, G., Haddad, F., Wu, J. C.
2013; 112 (1): 165-173
- **Sudden death in myotonic dystrophy** *NEW ENGLAND JOURNAL OF MEDICINE*
Vrtovec, B., Haddad, F.
2008; 359 (15): 1628-1628
- **Twenty-year survivors of heart transplantation at Stanford University** *AMERICAN JOURNAL OF TRANSPLANTATION*
Deuse, T., Haddad, F., Pham, M., Hunt, S., Valantine, H., BATES, M. J., Mallidi, H. R., Oyer, P. E., Robbins, R. C., Reitz, B. A.
2008; 8 (9): 1769-1774
- **The changing face of heart transplantation** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Hunt, S. A., Haddad, F.
2008; 52 (8): 587-598
- **Right ventricular function in cardiovascular disease, Part II - Pathophysiology, clinical importance, and management of right ventricular failure** *CIRCULATION*
Haddad, F., Doyle, R., Murphy, D. J., Hunt, S. A.
2008; 117 (13): 1717-1731
- **Right ventricular function in cardiovascular disease, part I - Anatomy, physiology, aging, and functional assessment of the right ventricle** *CIRCULATION*
Haddad, F., Hunt, S. A., Rosenthal, D. N., Murphy, D. J.
2008; 117 (11): 1436-1448
- **Right ventricular myocardial performance index predicts perioperative mortality or circulatory failure in high-risk valvular surgery** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
Haddad, F., Denault, A. Y., Couture, P., Cartier, R., Pellerin, M., Levesque, S., Lambert, J., Tardif, J.

2007; 20 (9): 1065-1072

- **Pulmonary Vasodilator Response of Combined Inhaled Epoprostenol and Inhaled Milrinone in Cardiac Surgical Patients.** *Anesthesia and analgesia*
Elmi-Sarabi, M., Jarry, S., Couture, E. J., Haddad, F., Cogan, J., Sweatt, A. J., Rousseau-Saine, N., Beaubien-Souligny, W., Fortier, A., Denault, A. Y.
2022
- **Multiparametric evaluation of right ventricular function in pulmonary arterial hypertension associated with congenital heart disease.** *Revista espanola de cardiologia (English ed.)*
Fournier, E., Selegny, M., Amsallem, M., Haddad, F., Cohen, S., Valdeolmillos, E., Pavec, J. L., Humbert, M., Isorni, M. A., Azarine, A., Sitbon, O., Jais, X., Savale, et al
2022
- **Multi-dimensional characterization of prediabetes in the Project Baseline Health Study.** *Cardiovascular diabetology*
Chatterjee, R., Kwee, L. C., Pagidipati, N., Koweek, L. H., Mettu, P. S., Haddad, F., Maron, D. J., Rodriguez, F., Mega, J. L., Hernandez, A., Mahaffey, K., Palaniappan, L., Shah, et al
2022; 21 (1): 134
- **A PILOT CLINICAL TRIAL OF CELL THERAPY IN HEART FAILURE WITH PRESERVED EJECTION FRACTION.** *European journal of heart failure*
Vrtovec, B., Frljak, S., Poglajen, G., Zemljic, G., Cerar, A., Sever, M., Haddad, F., Wu, J. C.
2022
- **Endogenous Retroviral Elements Generate Pathologic Neutrophils in Pulmonary Arterial Hypertension.** *American journal of respiratory and critical care medicine*
Taylor, S., Isobe, S., Cao, A., Contrepois, K., Benayoun, B. A., Jiang, L., Wang, L., Melemenidis, S., Ozen, M. O., Otsuki, S., Shinohara, T., Sweatt, A. J., Kaplan, et al
2022
- **Wnt Signaling Interactor WTIP (Wilms Tumor Interacting Protein) Underlies Novel Mechanism for Cardiac Hypertrophy.** *Circulation. Genomic and precision medicine*
De Jong, H. N., Dewey, F. E., Cordero, P., Victorio, R. A., Kirillova, A., Huang, Y., Madhvani, R., Seo, K., Werdich, A. A., Lan, F., Orcholski, M., Robert Liu, W., Erbilgin, et al
2022: 101161CIRCGEN121003563
- **Cardiac Fibrosis in the Pressure Overloaded Left and Right Ventricle as a Therapeutic Target.** *Frontiers in cardiovascular medicine*
Schimmel, K., Ichimura, K., Reddy, S., Haddad, F., Spiekerkoetter, E.
2022; 9: 886553
- **Induction and Phenotyping of Acute Right Heart Failure in a Large Animal Model of Chronic Thromboembolic Pulmonary Hypertension.** *Journal of visualized experiments : JoVE*
Boulate, D., Amsallem, M., Menager, J., Dang Van, S., Dorfmueller, P., Connolly, A., Todesco, A., Decante, B., Fadel, E., Haddad, F., Mercier, O.
2022
- **ANALYZING PROGRESSION OF DISEASE IN HYPERTROPHIC CARDIOMYOPATHY UTILIZING SEQUENTIAL CARDIOPULMONARY EXERCISE TESTING**
Devareddy, A., Busque, V., Haddad, F., Myers, J. N., Christle, J., Ashley, E. A., Wheeler, M.
ELSEVIER SCIENCE INC.2022: 241
- **Evaluation of diastole by echocardiography for detecting early cardiac dysfunction: an outcome study.** *ESC heart failure*
Kuznetsova, T., Cauwenberghs, N., Sabovcik, F., Kobayashi, Y., Haddad, F.
2022
- **Heterozygous LMNA mutation-carrying iPSC lines from three cardiac laminopathy patients.** *Stem cell research*
Cho, S., Lee, C., Lai, C., Zhuge, Y., Haddad, F., Fowler, M., Sallam, K., Wu, J. C.
1800; 59: 102657
- **Biological and clinical correlates of the patient health questionnaire-9: exploratory cross-sectional analyses of the baseline health study.** *BMJ open*
Califf, R. M., Wong, C., Doraiswamy, P. M., Hong, D. S., Miller, D. P., Mega, J. L.
2022; 12 (1): e054741
- **Insulin Growth Factor Phenotypes in Heart Failure with Preserved Ejection Fraction, an INSPIRE Registry and CATHGEN Study: IGF axis in HFpEF.** *Journal of cardiac failure*

Haddad, F., Ataam, J. A., Amsallem, M., Cauwenberghs, N., Kuznetsova, T., Rosenberg-Hasson, Y., Zamanian, R. T., Karakikes, I., Horne, B. D., Muhlestein, J. B., Kwee, L., Shah, S., Maecker, et al
1800

- **Proteomic profiling for detection of early-stage heart failure in the community**
Cauwenberghs, N., Sabovcik, F., Haddad, F., Kuznetsova, T.
OXFORD UNIV PRESS.2021: 861
- **Pulmonary Hypertension in the Context of Heart Failure with Preserved Ejection Fraction.** *Chest*
Inampudi, C., Silverman, D., Simon, M. A., Leary, P. J., Sharma, K., Houston, B. A., Vachieri, J., Haddad, F., Tedford, R. J.
2021
- **Temporal changes in soluble angiotensin-converting enzyme 2 associated with metabolic health, body composition, and proteome dynamics during a weight loss diet intervention: a randomized trial with implications for the COVID-19 pandemic.** *The American journal of clinical nutrition*
Cauwenberghs, N., Prunicki, M., Sabovcik, F., Perelman, D., Contrepois, K., Li, X., Snyder, M. P., Nadeau, K. C., Kuznetsova, T., Haddad, F., Gardner, C. D.
2021
- **Predicting Peak VO2 In Clinical Populations With Obesity**
Busque, V., Moneghetti, K. J., Ashley, E. A., Wheeler, M. T., Haddad, F., Myers, J., Christle, J. W.
LIPPINCOTT WILLIAMS & WILKINS.2021: 446
- **Respiratory Gas Kinetics After Maximal Exercise In Patients Referred For Cardiopulmonary Exercise Testing**
Christle, J. W., Patti, A., Blumberg, Y., Neunhaeuserer, D., Ashley, E. A., Haddad, F., Myers, J., Moneghetti, K. J.
LIPPINCOTT WILLIAMS & WILKINS.2021: 98-99
- **Optimal Tricuspid Regurgitation Velocity to Screen for Pulmonary Hypertension in Tertiary Referral Centers.** *Chest*
Montane, B. E., Fiore, A. M., Reznicek, E. C., Jain, V., Jellis, C., Rokadia, H., Li, M., Wang, X., Dweik, R., Loh, E., Watkins, A. C., Haddad, F., Amsallem, et al
2021
- **Right Ventricle Remodeling Metabolic Signature in Experimental Pulmonary Hypertension Models of Chronic Hypoxia and Monocrotaline Exposure.** *Cells*
Hautbergue, T., Antigny, F., Boet, A., Haddad, F., Masson, B., Lambert, M., Delaporte, A., Menager, J., Savale, L., Pavec, J. L., Fadel, E., Humbert, M., Junot, et al
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- **Proteomic profiling for detection of early-stage heart failure in the community.** *ESC heart failure*
Cauwenberghs, N., Sabovcik, F., Magnus, A., Haddad, F., Kuznetsova, T.
2021
- **Improving Right Ventricular Function by Increasing BMP Signaling with FK506.** *American journal of respiratory cell and molecular biology*
Boehm, M., Tian, X., Ali, M. K., Mao, Y., Ichimura, K., Zhao, M., Kuramoto, K., Dannewitz Prosseda, S., Fajardo, G., Dufva, M. J., Qin, X., Kheyfets, V. O., Bernstein, et al
2021
- **Retraction notice to 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
2021; 40 (4): 318
- **CTA pulmonary artery enlargement in patients with severe aortic stenosis: Prognostic impact after TAVR.** *Journal of cardiovascular computed tomography*
Turner, V. L., Jubran, A., Kim, J. B., Maret, E., Moneghetti, K. J., Haddad, F., Amsallem, M., Codari, M., Hinostroza, V., Mastrodicasa, D., Sailer, A. M., Kobayashi, Y., Nishi, et al
2021
- **Peripheral Oxygen Extraction and Exercise Limitation in Asymptomatic Patients with Diabetes Mellitus.** *The American journal of cardiology*
Kobayashi, Y., Christle, J. W., Contrepois, K., Nishi, T., Moneghetti, K., Cauwenberghs, N., Myers, J., Kuznetsova, T., Palaniappan, L., Haddad, F.
2021
- **Sirolimus Adverse Event Profile in a Non-Clinical Trial Cohort of Heart Transplantation Patients.** *Annals of transplantation*
Sallam, K., Bhumireddy, G. P., Evuri, V. D., Abella, J. P., Haddad, F., Valentine, H. A., Nguyen, P. K., Pham, M. X.
2021; 26: e923536

- **Predicting post-operative right ventricular failure using video-based deep learning.** *Nature communications*
Shad, R., Quach, N., Fong, R., Kasinpila, P., Bowles, C., Castro, M., Guha, A., Suarez, E. E., Jovinge, S., Lee, S., Boeve, T., Amsallem, M., Tang, et al
2021; 12 (1): 5192
- **Severe Pulmonary Arterial Hypertension is Characterized by Increased Neutrophil Elastase and Relative Elafin Deficiency.** *Chest*
Sweatt, A. J., Miyagawa, K., Rhodes, C. J., Taylor, S., Del Rosario, P. A., Hsi, A., Haddad, F., Spiekerkoetter, E., Bental-Roof, M., Bland, R. D., Swietlik, E. M., Gräf, S., Wilkins, et al
2021
- **Immune biomarkers link air pollution exposure to blood pressure in adolescents.** *Environmental health : a global access science source*
Prunicki, M., Cauwenberghs, N., Ataam, J. A., Movassagh, H., Kim, J. B., Kuznetsova, T., Wu, J. C., Maecker, H., Haddad, F., Nadeau, K.
2020; 19 (1): 108
- **Biomarkers and Risk Prediction Tools for Stroke and Dementia in Patients with Atrial Fibrillation** *CURRENT CARDIOVASCULAR RISK REPORTS*
Boralkar, K. A., Haddad, F., Horne, B. D.
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