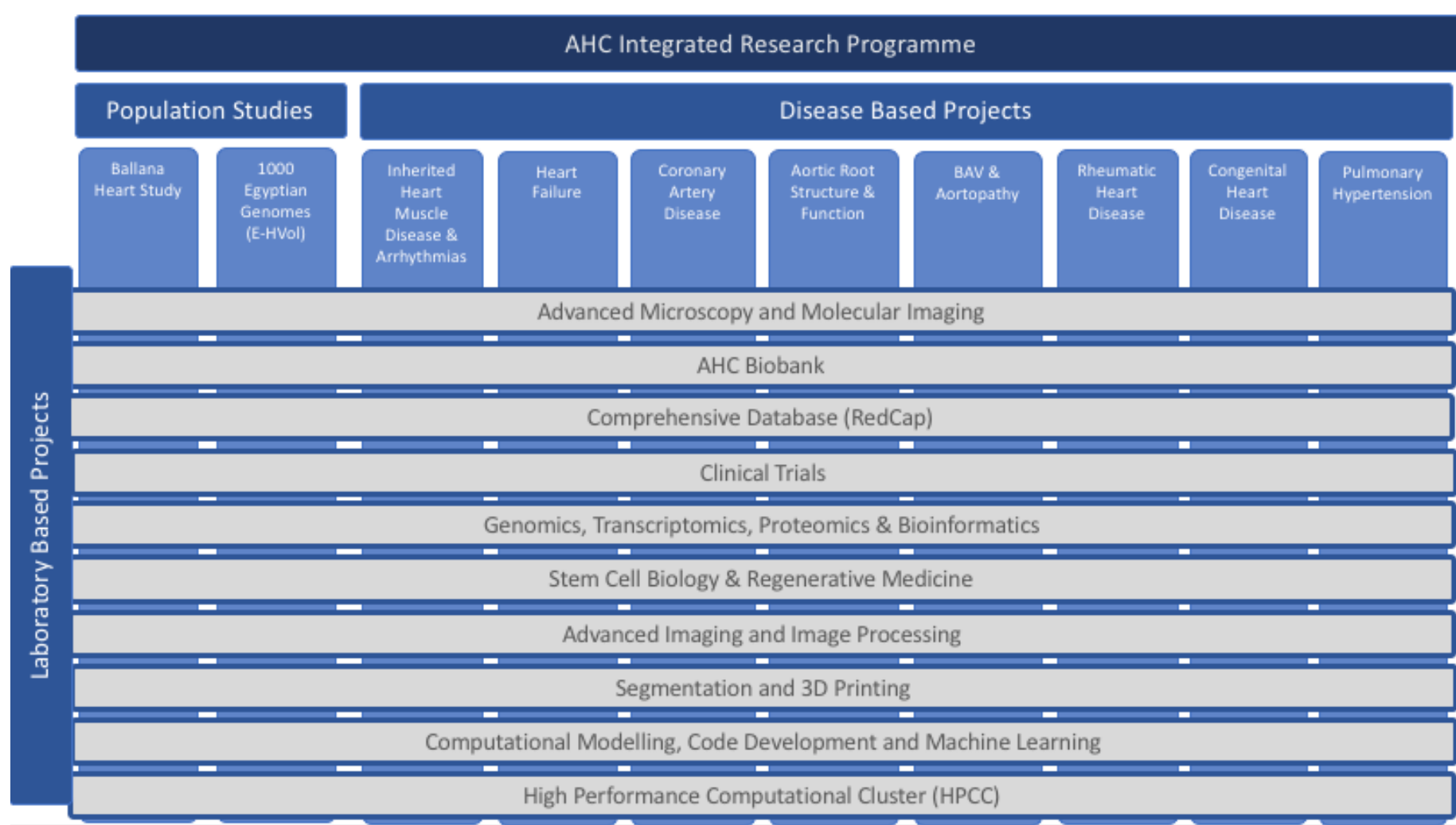


# AHC Integrated Research Program

## Population Studies and disease-based Projects



## AHC 2017 International Publications

- **Afifi A, Hosny H, Yacoub M.** Predicting the future by looking at the past: necessary but not binding. *European Heart Journal*, 2017.
- Bontemoui L, Vassanelli F, Lipari A, Locantore E, Cassa MB, Salghetti F, **Elmaghawry M**, Vizzardi E, Curnis A. Extraction of a coronary sinus lead: always so easy? *J Cardiovascular Med*, 2017.
- Dokainish, H., Teo, K., Zhu, J., Roy, A., AlHabib, K. F., & ElSayed, A. et al. (2017). Global mortality variations in patients with heart failure: results from the International Congestive Heart Failure (INTER-CHF) prospective cohort study. *Lancet Glob Health*, 5(7), e665-72.
- **ElGuindy A, Afifi A, Simry W, Romeih S, Yacoub M.** The Many Faces of EMF. *JACC -Cardiovascular Imaging*, 2017.
- **ElGuindy A, ElGuindy M.** Aneurysmal coronary artery disease: an overview. *Global Cardiology Science and Practice*, 2017.
- **ElGuindy A.** PARTNER 2A and SAPIEN 3: TAVI for intermediate risk patients. *Global Cardiology Science and Practice*, 2017.
- **Elmahdy MF, Hassan M, ElGuindy A.** Role of vascular ultrasound scanning in repeated trans-radial coronary artery intervention (prospective randomized study). *Catheterization and Cardiovascular Interventions*, 2017.
- Gemechu, T., **Mahmoud, H.**, Parry, E. H. O., Phillips, D. I. W., & **Yacoub, M. H.** (2017). Community-based prevalence study of rheumatic heart disease in rural Ethiopia. *European Journal of Preventive Cardiology*, 24(7), 717–723.
- **Hassan M, Wagdy K, Kharabish A, Selwanos P, Nabil A, ElGuindy A, ElFaramawy A, ElMahdy M, Mahmoud H, Yacoub M.** Validation of noninvasive measurement of cardiac output using inert gas rebreathing in a cohort of patients with heart failure and reduced ejection fraction. *Circulation Heart Failure*, 2017.
- **Hassan M, Philip P.** CANHEART: Is HDL cholesterol a cardiovascular-specific risk factor? *Global cardiology science and practice*, 2017.
- **Heba Kassem, Roddy Walsh, Paul Barton, Besra AbdelGhany, Remon Azer, Rachel Buchan, Shibu John, Ahmed ElGuindy, Sarah Moharem, Hala Badran, Hoda Shehata, Stuart Cook, Magdi Yacoub.** A comparative study of mutation screening of sarcomeric genes using single gene approach versus targeted gene panel next generation sequencing in a cohort of HCM patients in Egypt. *Egyptian Journal of Medical Human Genetics*, 2017.
- Karmachialis JM, **Aguib H, Anastasopoulos, A, Yacoub M.** Design, dynamism, and valve repair, *JTCS*, 2017.
- **Kotit, S., Said, K., ElFaramawy, A., Mahmoud, H., Phillips, D. I. W., & Yacoub, M. H.** (2017). Prevalence and prognostic value of echocardiographic screening for rheumatic heart disease. *Open Heart*, 4(2), e000702.
- **Mahmoud H, Hassan M, Nagy M, Abdel-hady A, ElGuindy A, Wagdy K, Yacoub M.** A novel method to measure mitral valve area in patients with rheumatic mitral stenosis using three-dimensional trans-esophageal echocardiography; feasibility and validation. *Echocardiography*, 2017.
- **Nasr E, Ibrahim M, Yacoub M.** Heart failure in a neonate with multiple cardiac masses. *Heart*, 2017.
- Sarah Kraus; Ntobeko Ntusi; Ashley Chin; Gasnat Shaboodien; John Lawrenson; George Comitis; Liesl Zuhlke; Barend Fourie; Nakita Laing; Ambroise Wonkam; Helen Wainwright; Antoinette Cilliers; Ferande Peters; Richard Nethononda; Albertino Damasceno; Ana Mocumbi; Lungile Pepeta; Khulile Moeketsi; Baby Thomas; Kandithalal Thomas; Makoali Makotoko; **Yasmine Aguib; Ahmed ElGuindy;** Mpiko Ntsekhe; Karen Sliwa; Motasim Badri; Heather Cordell; Bernard Keavney; Vanessa Ferreira; Masliza Mahmod; Stefan Neubauer; Leslie Cooper; **Magdi Yacoub;** Hugh Watkins; Bongani Mayosi. Rationale and design of the African Cardiomyopathy and Myocarditis Registry Programme: *The IMHOTEP Study American Heart Journal, in Review*
- **Samir A, ElGuindy A.** The role of intracoronary imaging in acute coronary syndromes: OCT in focus. *Global cardiology science and practice*, 2017.
- Ware J., Funke B., MacArthus D., O'Regan, Watkins H., **Yacoub M., Aguib Y.** Prasad S., Ck S. et al. Cardiac VariantFX. Cardiac Variant Interpretation Consortium. (2017) *published data set* <http://cardiac.variantfx.org/about>
- **Yacoub M, Afifi A, Saad H, Aguib H, ElGuindy A.** Current state of the art and future of myectomy. *Annals of Cardiothoracic Surgery*, 2017.
- **Yacoub M, Hosny H, Afifi A.** Surgery for TGA in Developing Countries: The End of the Beginning. *JACC*, 2017.
- **Yacoub M, Hosny H, Afifi A.** Improving postoperative outcome of congenital heart surgery in low/middle-income countries: climbing mount excellence. *Heart*, 2017.
- **Yacoub M, Mayosi B. ElGuindy A, Carpentier A, Yusuf S.** Eliminating acute rheumatic fever and rheumatic heart disease. *Lancet*, 2017.

## AHC International Publications 2018:

Walsh R., Whiffin N., Buchan R., Midwinter W., Wilk A., Govind R., Li N., Ahmad M., Mazzarotto F., Roberts A., Theotokis P., Mazaika E., Cook S., Barton P. J. R., Marvao A., O'Regan D., Thomson K., Watkins H.,...Allouba M., Aguib Y., Yacoub M. et al. (2018).

**Disease-specific variant pathogenicity prediction significantly improves clinical variant interpretation in inherited cardiac conditions.** Submitted, Nature Genetics.

Aguib Y., Allouba M., Halawa S., Walsh R., ElKhateb M., Afify A., Galal A., Sous M., Shehata N., Govind R., Whiffin N., Shorbagy S., Rahman E.A., El-Mozy W., Essam A., Maghawr M., Anwer S., Philip P., Wagdy K., Lee S., Cook S., Ware J., Aguib H., ElGuindy A., Barton P. J. R. & Yacoub M. (2018).

**Egyptian Genetic Variations and Cardiovascular Phenotype. The Genetic and Environmental Basis for Diseases in Understudied Populations,** Frontiers in Genetics. Abstract Accepted, Full Manuscript to be submitted.

Hatem H., Sedky Y., Simry W., Afifi A., Romeih S., Elsayy A., Elguindy A., Aguib H. & Yacoub M. (2018).

**Revival and Modification of the Mustard Operation. Journal of Thoracic and Cardiovascular Surgery. Yacoub M., Aguib H., Afifi A. Yacoub Operation in Surgical Management of Aortic Pathology,** 978- 3-7091-4872-3, 309218\_1\_En, (52), Olaf H. Stanger et al. (Eds), Springer (2018) (In Press) Karamichalis JM.,

Aguib H., Anastasopolous A. & Yacoub M.(2018). **Surgical relief of the left ventricular outflow tract in pediatric hypertrophic cardiomyopathy: the need for a tailored approach. The Journal of thoracic and cardiovascular surgery.**

Yacoub M., Aguib H., Gamrah M. Shehata N., Nagy M., Donia M., Aguib Y., Saad H., Romeih S., Torii R., Afifi A. & Lee SL. (2018).

**Aortic root dynamism, geometry and function after the remodeling operation: clinical relevance. The Journal of thoracic and cardiovascular surgery.**

Yacoub M., Hosny H., Romeih S., Aguib H., Simry W., Afifi A. & Sedky Y. (2018). **Mid-term outcome of a modified Mustard Operation for neglected transposition of the great arteries. Journal of the American College of Cardiology. International Conferences: Oral & Poster Presentations**

Yacoub M., Donia M., Elsayy A., Doss R., Samaan A., Abdelkhalek M., Hosny M., Morais P., Romeih S., Aguib Y., Bogaert J., ElGuindy A. & Aguib H. **Improvement in Systolic and Diastolic Right Ventricular Function Following Left Ventricular Myectomy for HOCM.** AHA Conference, 2018 Nov. , Chicago, Illinois, USA. Oral presentation

Francis N., Aguib H., Gamrah M, Philip P., Hesham B., Torii R., Broyd C., El Guindy A., & Yacoub M. Coronary Blood Flow in Hypertrophic Obstructive Cardiomyopathy: **The Critical Role of the Aortic Root. AHA Conference, 2018 Nov. ,** Chicago, Illinois, USA. Poster presentation (Young investigator's award)

Tseng Y-T., Aguib H., Chester A., Sohler J., Odille C., Latif N. & Yacoub M. **Design and Development of a Multi-Layered, Stand-Alone Pulmonary Valve Root.** 8th Biennial Heart Valve Biology & Tissue Engineering Meeting, 2018 Sept. 26-28, London, United Kingdom. Oral Presentation

Tseng Y-T., Sarathchandra P., McCormack A., Ebeid A., Aguib H., Grace N., Chester A., Yacoub M. & Latif N. **Interaction Of Adipose-Derived Stem Cells With Carbon Fibers - Relevance for Valve Tissue Engineering.** 8th Biennial Heart Valve Biology & Tissue Engineering Meeting, 2018 Sept. 26-28, London, United Kingdom. Poster presentation

## AHC International Publications 2018 continued:

Tseng Y-T., Halawa S., Latif N., Manickam C., Aguib Y., Moustafa A., Chester A. & Yacoub M. **Beyond Genetics: Profiling Genome-wide DNA Methylation Patterns in Human Aortic and Mitral Valves.** 8th Biannual Valve Meeting, 2018 Sept. 26-28, London, United Kingdom. Conference Paper & Oral Presentation

Aguib Y., Allouba M., Walsh R., Elkhateb M., Shehata N., Afify A., Halawa S., Govind R., Whiffin N., Sami B., Yehia D., ElShorbagy S., Abdel Rahman E., ElMozy W., Essam A., Maghawry M., Lee S., Cook S., Barton P., Ware J., Aguib H., ElGuindy A. & Yacoub M. **Characterization of Egyptian Genetic Variation in relation to Cardiovascular Phenotype.** ASHG conference, 2018, San Diego, California, USA. Conference Paper & Poster Presentation Allouba M.,

Aguib Y., Walsh R., Govind R., Whiffin N., Halawa S., Maher A., Afify A., Galal A., Buchan R.J, Kassem H.Sh, Samy B., Azer R., ElKhateb M., Mohamed F. , Elguindy A. , Cook S., Barton P., Ware J. & Yacoub M. **Defining the Genetic Architecture of Hypertrophic Cardiomyopathy in the Egyptian Population.** ASHG conference, 2018, San Diego, California, USA. Conference Paper & Poster Presentation

ElMaghawry M., Aguib Y., Kassem H., Afify A., Samy B., Azer R., Kamel O., Ahmed Sayed M. & Yacoub M. **Clinical and Molecular Characteristics of Eleven Egyptian Families with Autosomal Recessive Long QT Syndrome.** American College of Cardiology Scientific Sessions, 2018, Orlando, USA. Poster presentation

Yacoub M., Hosny H., Romeih S., Aguib H., Simry W., Ahmed A. & Sedky Y. **Mid-term Outcome of a Modified Mustard Operation for Neglected Transposition of the Great Arteries.** American College of Cardiology Scientific Sessions, 2018, Orlando, USA. Poster presentation

Aguib Y., Allouba M., Halawa S., Walsh R., Whiffin N., ElKhateb M., Galal A., Sous M., Afify A., Govind R., Sami B., Shorbagy S., Abdel Rahman E., El-Mozy W., Maghawry M., Cook S., Barton P., Ware J., Aguib H., Elguindy A. & Yacoub M. **Towards Identifying Clinically Actionable Genetic Variants in the Egyptian Population.** African Society of Human Genetics (AfSHG) conference. 2018, Kigali, Rwanda. Conference Paper & Oral Presentation

Tseng Y-T. , Halawa S., Latif N., Manickam C., Aguib Y., Moustafa A., Chester A. & Yacoub M. **Beyond Genetics: Profiling Genome-wide DNA Methylation Patterns in Human Aortic and Mitral Valves.** ESC congress, 2018, Munich, Germany. Conference Paper & Oral Presentation