

Georges E. HADDAD, Ph.D.

Department of Physiology & Biophysics
College of Medicine, Howard University
520 W street, NW, #2309 (office), #4412-16 (Lab)
Washington DC 20059
202-806 6305
ghaddad@howard.edu

EDUCATION

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| 1993 | Ph.D. in Physiology (Biophysics)
University of Sherbrooke, Sherbrooke, Q.C., Canada. |
| 1987 | M.Sc. in Physiology
American University of Beirut, Beirut, Lebanon. |
| 1985 | B.Sc. in Biology
American University of Beirut, Beirut, Lebanon. |

ACADEMIC APPOINTMENTS

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| 8/2011 – present | Professor (Tenure)
Howard University, Dept. Physiology and Biophysics,
College of Medicine |
| 8/2011 – present | Professor (Tenure)
Howard University, Dept. Physiology and Biophysics,
Graduate School of Arts and Sciences |
| 8/2005 – 7/2011 | Associate Professor (Tenure)
Howard University, Dept. Physiology and Biophysics,
College of Medicine |
| 8/2005 - 7/2011 | Associate Professor (Tenure)
Howard University, Dept. Physiology & Biophysics
Graduate School of Arts and Sciences |
| 2/1999 - 8/2005 | Assistant Professor
Howard University, Dept. Physiology and Biophysics,
College of Medicine |
| 2/1999 - 8/2005 | Assistant Professor
Howard University, Dept. Physiology and Biophysics,
Graduate School of Arts and Sciences |
| 2/2000 – 11/2011 | Director of Graduate Studies
Howard University, Dept. Physiology and Biophysics |
| 1997-1999 | Assistant Professor
American University of Beirut, Depts. of Pharmacology and of Physiology |
| 1994-1997 | Post-doctoral fellow
Clinical Research Institute of Montreal, Experimental Hypertension and
Vasoactive Peptides laboratory |
| 1993-1994 | Post-doctoral fellow
University of Cincinnati, Department of Physiology and Biophysics |

EXPERIENCE**Teaching Experience**Coordinator:

- Coordinator of the Organ System Unit 3 Course “Respiratory and Cardiology” of the 2nd year Medical curriculum, Howard University (2011-present)
- Course Coordinator/Co-coordinator of the Structure and Function, Unit 3 of the 1st year Medical curriculum, Howard University (2010-2017/2019)
- Unit leader of the “Musculoskeletal Unit” and “Thorax and Abdomen” of the 1st year “Structure and Function” Medical School curriculum (51613-IND 108), Howard University (2005-2010).
- Course coordinator of “Advanced Mammalian Physiology” (PHSI 204; 7 Credits) (2007-present).
- Course coordinator of “Special Problems in Physiology” courses (PHSI 302; 1-4 credits): 2000-2011.
- Course coordinator of “Research in Physiology” Courses (PHSI 200; 1-10 credits): 2000-2011.

Teaching

- The Cardiovascular System Unit of the Structure and Function Unit 3 course of the 1st year Medical curriculum, Howard University (1999-2016).
- The Cardiac Unit of the Structure and Function Unit 3 course of the 1st year Medical Curriculum, Howard University (2017-present)
- “Electrophysiology of the Heart” in Organ System Unit 3 Course of the 2nd year Medical curriculum, Howard University (2011-present).
- Cardiac section of the Dental Physiology Course, Dental School, Howard University (2017-present)
- Cardiovascular section of the Dental Physiology course, Dental School, Howard University (2015-2016)
- “Pathophysiology of Dysrhythmias and of Anti-Arrhythmic Drugs” in the 2nd year “Organ & Systems-Cardiovascular System” Medical School curriculum, Howard University (2002-2012).
- “Cardiovascular Pathophysiology” section of the “Pathophysiology” course for Allied Health, Howard University. (2012-2016).
- “Electrical Activity of the Heart” section of the “Advanced Mammalian Physiology” course (PHSI 204) for Graduate students at the Dept. Physiology and Biophysics, Howard University (since 1999).
- Cell membrane biophysics and ion channels in the “Cellular and Molecular Physiology” course (PHSI 250) to Graduate students at the Dept. Physiology and Biophysics, Howard University (2017-present)
- “Signaling and Ion Channels” in the “Cellular-Molecular Physiology” course (PHSI 250) to Graduate students at the Dept. of Physiology & Biophysics, Howard University (2001-2016).
- “Cardiac Physiology” section of the “General Physiology” course (MPHY-14234-101/84550-101) for Nursing & Allied Health students, Howard University (since 2000).
- “Cardiac Physiology and ECG” in the “Biomedical Sciences I” course (86687-301-01) for Pharmacy students (since 2004, except 2007).
- “Cardiovascular Electrophysiology” of the “Summer Directed Studies Program” (since 2002): mentoring and assisting MedStar Students.

- “Physiology of Ion Channels” in the course “Cardiovascular Physiology” to Graduate students (2002, 2003, 2005).
- “Biophysics/Electrophysiology” section of the “Physiology” course for medical and graduate students, American University of Beirut, Lebanon (1996-1999).
- “Electrophysiology of anti-arrhythmic drugs” for Medical and Graduate students, American University of Beirut, Lebanon (1996-1997).
- “Renal System” for Nursing and Allied Health students, American University of Beirut, Lebanon (1996-1998).

Main Research Areas

- Effects of combined Anti-retroviral treatment on the heart.
- Alcoholic Cardiomyopathy and Signaling pathways: Mechanisms and Gene Therapy.
- Ionic channels and intracellular signal transduction (from the cytoplasmic membrane to the nucleus) induced by active peptides (IGF-1 and ANG II) during cardiovascular hypertrophy and/or hypertension and heart failure
- Study the pathogenic role of the renin-angiotensin system in cardiac hypertrophy and/or hypertension
- Regulation of calcium current as well as intracellular calcium homeostasis by cyclic nucleotides and protein kinases and their role in cardiac hypertrophy.
- Role of potassium channels in the metabolic response and development of the heart.

Administrative Achievements and Services

- **Howard University**
 - ♦ Director of the RCMI, Investigator Development Core (2019-2024)
 - ♦ Chair, College-Wide Appointment, Promotion and Tenure Committee, College of Medicine (2021-2022)
 - ♦ Chair, AdHoc College-Wide Appointment, Promotion and Tenure Committee, College of Pharmacy (2018-present)
 - ♦ Chair, Search and Recruitment Committee, Department of Physiology Biophysics, Howard University (2018-present)
 - ♦ Director of the RCMI, Pilot Project Program (2014-2018)
 - ♦ Program Prioritization Task Force, Provost office (2019)
 - ♦ NBME Wokrshop HUCOM (2017)
 - ♦ Appointments, Promotions and Tenure Committee member, Department of Physiology and Biophysics, Howard University (since 2005)
 - ♦ Appointments, Promotions and Tenure Committee member, College of Medicine, Howard University (2016-2022)
 - ♦ Appointments, Promotions and Tenure Committee member, Faculty Senate, Howard University (2016-2018)
 - ♦ Admission Committee member, College of Medicine, Howard University (since 2004)
 - ♦ Executive Committee, College of Medicine, Howard University (2007-2011)
 - ♦ Faculty retreat HUCOM 2016-2019
 - ♦ Member of the “Awards committee” for the College of Medicine, Howard University (since 2010)
 - ♦ Director of Graduate Studies, Department of Physiology and Biophysics, (2000 - 2011)

- ◆ Ad hoc Strategic Planning Advisory Committee member for the Office of the Vice Provost for Research and Graduate School (2009).
 - ◆ Curriculum Committee, College of Medicine, Howard University (2007-2011)
 - ◆ Search and Recruitment Committee member, Department of Physiology & Biophysics, Howard University (2012-2016)
 - ◆ Radiation Safety Committee, Howard University (2007-2009)
 - ◆ Howard University, College of Medicine MD/Ph.D. admission subcommittee member (since 2006).
 - ◆ Executive Committee member, Department of Physiology and Biophysics, Howard University (1999-2003, 2006-2008, 2013-19)
 - ◆ Committee member of the Dean's Interdisciplinary Research Conference Series (2009)
 - ◆ Program Director of the Cardiovascular Summer Research Opportunity Program (since 2005)
 - ◆ Member of the Search Committee for: Chair for Internal Medicine Chair (2012), Emergency Medicine (2013) and Director for Cancer Center (2013).
 - ◆ Organizer of the “Grant Writing Workshop” at Howard University, 5/2011 and 4/2013
 - ◆ Howard University STEP-UP Program mentor (NIH-NIDDK) (Since 2012)
 - ◆ Howard University AMGEN Scholars Program mentor (2008-2009)
 - ◆ Howard University Honors undergraduate program mentor (since 2006)
 - ◆ Howard University Graduate School’s Responsible Conduct of Research (RCR) Workshop: Data Management. Speaker and mentor. (2006-2007)
 - ◆ Research committee member, Department of Physiology and Biophysics at the College of Medicine (since 2004)
 - ◆ Member of the Advisory Council for the Howard University-University of Texas at El Paso Alliance for Graduate Education and the Professoriate (HUTEP-AGEP) (2004)
 - ◆ GAANN (Dr. Robert Canada, P.I.) Advisory Committee member for Dept. Physiology & Biophysics (2004)
 - ◆ Member of the Faculty Advisory review Panel/Committee for *the Strategic Framework for Action’s* Fund for Academic Excellence Grants Program (since 2003)
 - ◆ Recruiter for the Graduate School Recruitment Fairs (2003-2006)
 - ◆ Participate in the Provost workshop entitled “Academic and Administrative Leadership in the Academy: Programs and Services within a Framework of Institutional Assessment”, at Kellogg conference center (2002)
- **Scientific Community**
 - ◆ Associate Editor: Frontiers in Physiology- Clinical and Translational Physiology Section (2022-present)
 - ◆ Life Sciences Journal Editorial Advisory Board member (2017-present)
 - ◆ Regular member as a reviewer for the NIH/NIAAA-AA1 Biomedical Review Committee (6/2014-6/2018)
 - ◆ Ad hoc reviewer for the NIH/NIAAA-AA-1 Biomedical Review Committee (2011-2014; 2022)
 - ◆ Ad hoc reviewer for the NIH/CSR-Center for Scientific Research/Integrated Research Group/Cardio-Vascular and Respiratory Sciences/Cardiac Contractility, Hypertrophy, and Heart Failure section (since 2014)
 - ◆ National Research Mentoring Network Coach/Mentor for Faculty and Postdoctoral fellows (2016-2022)
 - ◆ Reviewer of U54 Pilot grants for Savannah State University (2020-2022)

- ♦ Reviewer of U54 grants for Morehouse College of Medicine (2018-2022)
 - ♦ American Center for Investigative Cardiology, Chair of the Board of Directors member (2019-present)
 - ♦ American Center for Investigative Cardiology, Scientific Director and Board of Directors member (2016-2018)
 - ♦ Leader of the Cardiovascular scientific team over 19 minority research institutions of the RCMI Translational Research Network (RTRN) (2011-2018)
 - ♦ Ad hoc reviewer for the American Heart Association (since 2013)
 - ♦ Ad hoc reviewer NIH/ZRG1-CVRS-B (since 2012)
 - ♦ Ad hoc reviewer for the NSF-Developmental Biology (2012)
 - ♦ Ad hoc reviewer for the Charles Drew University AXIS Pilot Project (2015, 2016)
 - ♦ Federation of American Societies for Experimental Biology (FASEB)/Minority Access to Research Careers (MARC) Advisory Board member (2003-2016)
 - ♦ Howard University College of Medicine LCME Accreditation preparation team (2016-2017)
 - ♦ Judge for the Annual Biomedical Research Conference for Minority Students presentations (2008, 2010).
 - ♦ Working Group member of the “Use of Genomics and Proteomics Resources at Minority-Serving Institutions Working Group, NIH/NHLBI (2005).
 - ♦ Reviewer for Life Sciences (since 2017)
 - ♦ Reviewer for the Alcoholism: Clinical and Experimental Research Journal (since 2011)
 - ♦ Reviewer for the American Journal of Physiology (since 2004)
 - ♦ Reviewer for the Journal of the American College of Cardiology (since 2014)
 - ♦ Reviewer for Cardiology (2009)
 - ♦ Reviewer for the British Journal of Physiology (2006)
 - ♦ Reviewer for the Association Francasie contre les myopathies (since 2008)
 - ♦ Reviewer for Circulation Journal (since 2007)
 - ♦ Reviewer for European Heart Journal (since 2008)
 - ♦ Reviewer for Therapeutic Advances in Cardiovascular Disease (2008)
 - ♦ Reviewer for the Canadian Journal of Physiology and Pharmacology (since 2000)
 - ♦ Reviewer for the Journal of Molecular and Cellular Cardiology (2009)
 - ♦ Reviewer for Gene Therapy (*Nature*) (since 2006)
 - ♦ Reviewer for the Physiological Genomics (2008)
 - ♦ Reviewer for Lippincott Williams & Wilkins, a Wolter Kluwers Co. (2003)
 - ♦ Reviewer for NIH-National Heart, Lung, and Blood Institute (2000)
 - ♦ Reviewer for the Journal of the European Society of Cardiology, Cardiovascular Research (since 2000)
 - ♦ Reviewer for Morgan State University: MBRS SCORE Program (2002)
 - ♦ Reviewer for American University of Beirut, College of Medicine grants (since 2000)
 - ♦ Jury member for “Student Research Days” at Georgetown University, USA (2000)
 - ♦ Jury member for “graduate students research day” at the IRCM, Montreal, Canada (1998)
 - ♦ Jury member for graduate students thesis evaluation, American University of Beirut
 - ♦ Initiating and implementing the collaboration program between the American University of Beirut and the University of Sherbrooke concerning health sciences: research, education and conferences (1996).
 - ♦ Setting up a core facility laboratory at the American University of Beirut (1996-1997).
- *Community service at large*

- ♦ Drink to Your Health? By Marine Schwartz of Health magazine March 2022 Issue: Interview and discussion of Dr. Georges Haddad work on alcohol effects on the heart.
 - ♦ Invited Speaker at Louisiana State University Health Science Center, Shreveport (May 4, 2017)
 - ♦ Invited speaker at the Cardiovascular center of Mount Sinai School of Medicine, NY (May 16, 2016)
 - ♦ Board of Directors and Basic Science Director for the American Center for Investigative Cardiology (since 2015)
 - ♦ Research day judge for University of District of Columbia (2014-2015)
 - ♦ Invited speaker at the AIRIG conference at Loyola University, Chicago (2013).
 - ♦ Invited seminar speaker at Louisiana State University, Nashville (2013).
 - ♦ Invited radio interview on Super Human Radio hosted by Mr. Carl Lanore, aired live on April 16, 2013 (1:00-2:00 pm) entitled “Alcohol: the Good, the Bad and the Ugly”: http://www.superhumanradio.com/components/com_podcast/media/mp3s/SHR_Show_1173.mp3
 - ♦ Member and invited participant at the Western Interstate Commission for Higher Education Conference (2011-2012).
 - ♦ Organizer of the MARC Student Day for the Washington area at the Experimental Biology conference (2004, 2007).
 - ♦ Member of the Community Advisor Council, Wheaton High School, Bioscience and Medicine Program in, Montgomery county Public Schools, MD (since 2004).
 - ♦ Work with The Dana Alliance for Brain Initiative at Walter Reeds Hospital, Washington, USA (2001).
- **Advisorship and Mentoring**
 - ♦ Post-doctoral Fellows: Dr. Aiqiu Zhao (2003-2008), Dr. Rong Duane (2006-2008), Dr. Mustafa El-Rubaiee (2009 – present), Dr. Robin Walker (2012 – 2015)
 - ♦ Advisor of Ph.D. candidates at the Department of Physiology & Biophysics, College of Medicine, Howard University: Dr. Krista Blackwell (2003 – Assistant Professor at Rutgers University), Dr. Denyce Nichols (MD 2006 – Clinical practice, Chicago), Dr. Leyla Teos (2007 – NIH/NIDCR), Dr. Graham Laurence (MD/PhD 2007 – Neurosurgery York Hospital), Dr. Zikiar Alvin (2010 – post-doct fellow Loyola Univ. Chicago), Dr. Valerie Cousins (2012: Faculty at Genetics Dept., Howard University), Ms. Nsini Umoh (2014-post-doct at Yale University), Ms. Miara Jeffress (2014-UMBC).
 - ♦ Committee Member/Chair on thesis dissertation, Dept. Physiology & Biophysics. Dr. Luc Magoire Oke Ph.D (1999-2001), Dr. Giovanni Jubiz M.D./Ph.D. (2003-2005), Beverlyn Seattles-Reeves (2000-2007), Dr. Emad Abdel-Hamid, M.D./Ph.D. (2006-2008), Thomas Bradley , Ph.D. (2004-2008), Dr. Heather Carryl (Committee Chair 2013-2017), Dr. Donte Pennington (Committee Chair, 2013-2017), Dr. Norah Algarzae (Committee Chair, 2014-2019); Ms. Bosung Titanji (M.Sc. Anatomy 2019-2020); Kristen McPike (Ph.D. Anatomy; 2019-)
 - ♦ Mentor for the CDEIPI program: Ms. Riana Cacanindin, Ms. Mia Kamara
 - ♦ Mentor of the Cardiovascular Summer Research Program Fellows: Mr. Frank Evans, Mr. Raymond Young, Ms. Thomas Leandria, Ms. Angelica White, Ms. Treena Bailey, Ms. McFarland Shashawna, Ms. Czarina Amian, Ms. Leumoana Nerisa, Mr. Richard Hodges, Mr. Pius Walcourt, Mr. Jamal Whyte, Ms. Tiffaney Jackson, Mr. Bradley Thomas, Ms. Carla Bourne, Mr. Alexandre Scheer, Ms. Aileen Cangiano, Mr. Alfred Burris, Mr. Mohamed Mansour, Mr. Darnell Gregory, Ms. Tiffany Turner, Maia Warner, Bryan Dayton, Ms. Karen Jeoffroy, Ms. India Jones, .

- ♦ Mentor for NIH/NIDDK STEP-UP program: Semawit Solomon (2019), Morgan Allen (2018), Deborah Kauffman and Kanyansola Onitiri (2017)
- ♦ Mentorship of work study undergraduate students at Howard University (since 2012): Tiorra Ross, Stephanie Douglas, Voke M. Ojakovo, Alexis Copes, Toni Jenkins, Micheal Singleton, Caleb Glenn.
- ♦ Mentor for American Physiological Society Minority Travel Fellow during the Experimental Biology meeting (2003-2016).
- ♦ Mentor for the American Physiological Society, UGSRF/IOSP: Ms. Krystal Ealy (NYU, 2012), Mr. Adams Fellows (Oxford University, 2012), Ms. Gabrielle Aitcheson (NYU, 2012), Ezeamama E. Precious (Barry University, 2013), Janay Little (2016).
- ♦ Mentor for the Howard University Honors Program (2005-2009): Tamare'al Ross, Sylvia Eberhardt.
- ♦ Mentor for the Howard University Amgen Scholars Program (2008-2009): Ms. Thomas Leandria (Xavier University) and Angelica White (Alcorn State University), Sylvia Eberhardt (Howard University), Shade Johnson (University of Chicago).
- ♦ Mentor for the National Science Foundation/Alliances for Graduate Education and the Professoriate Summer research program (since 2001).
- ♦ Committee member on thesis dissertation, American University of Beirut: Miss Karla Farhat M.Sc. Miss Nadine Zeinoun M.Sc.

GRANTS

Grants Awarded

- NIH/NIGMS Grant T34GM149816; 4/1/2023-3/31/2028 \$1,469,595.
Georges E. Haddad: External Collaborator (PI: Alvin Holder and Co-PI: Desh Ranjan).
Undergraduate Research Training Initiative for Student Enhancement (U-Rise)
- DC-CFAR; 1/1/2022-12/31/2024 \$50,000
The effects of cART on the Heart.
Georges E. Haddad: Principal Investigator
- NIH/NIHMD Grant U54MD007597; 6/1/2019-1/31/2024 \$17,301,651
Georges E. Haddad: Director, Investigator Development Core (PI: William Southerland)
Percent effort: 1.2 Calendar months
Biomedical Infrastructure for Health Disparities Research (RCMI)
- BFPSAP HUCOM 100214; 11/2016-11/2107 \$20,985
Georges E. Haddad: Principal Investigator
Fetal alcohol exposure induced long-term cardiovascular impairment in middle-aged non-human primates
- NIH/NIHMD Grant 8 G12MD007597; 7/2014-6/2019 \$10,055,894
Georges E. Haddad: Director, Pilot Project Program (PI: William Southerland)
Biomedical Infrastructure for Health Disparities Research (RCMI)
- NIH/NIAAA grant 1R15AA019816-01A1; 9/2011-8/2015 \$442,002

Georges E. Haddad: Principal Investigator

Mechanisms of Alcohol-induced Cardiomyopathy

- NIH/NIGMS grant S06 GM008016-36; 9/2006-8/2012 \$1,100,000
Program Director: George K. Littleton
Georges E. Haddad: Project Investigator.
Role of IGF-1 signaling and MAP Kinase in Cardiac Hypertrophy
- NIH/NRCC/RCMI/RTRN grant SGP09-024; 12/2010-06/2012 \$50,000
Principle Investigator: Suzanne Porszasz-Reisz, Charles Drew University
Georges E. Haddad: Collaborator.
Histological and Genetic Analysis of Muscle in COPD Patients
- Mordecai-Whyatt Johnson grant 217512/U200043; 8/2007-7/2009 \$100,000
Georges E. Haddad: Principal Investigator.
Role of MAPK in the progression of cardiac hypertrophy into heart failure.
- NIH/NHLB T32 Grant (HL073428-01), 8/2006-7/2009 \$610,493
Georges E. Haddad: Principle Investigator.
Neural control of breathing and cardiovascular function.
- NIH/NINDS grant NS039407-06A1; 9/2005-8/2011
Program Director: M. Haxhiu/J. Massari/Werner Graf
Georges E. Haddad: Consultant.
Central autonomic control: aging and oxidative stress
- NIH/SCORE Grant (GM08016 33S1), 2003-2006 \$686,639
Program Director: George K. Littleton
Georges E. Haddad: Project Investigator.
Cross talk between RAS and IGF-1 during eccentric cardiac hypertrophy.
- NIH/NRCC/RCMI grant 2G12 RR003048; 8/2006-7/2007 \$16,703
Program Director: William Southerland
Georges E. Haddad: Project Investigator.
Role of Nuclear Factor Kappa-B in the progression of cardiac hypertrophy into heart failure
- NIH/NINDS grant 5U54NS39407-020004; 9/1999-8/2994
Program Director: Musa Haxhiu
Georges E. Haddad: Consultant
Gene regulatory mechanisms and neurogenic airway inflammation
- Toby & Mort Mower Philanthropic Fund, 2000-2005. \$137,000
Georges E. Haddad: Principal Investigator.
Effect of Waveform Modification on Calcium Channels and intracellular Calcium Handling in Atrial Myocytes.
- Howard University Funds for Academic Excellence Award, 2001-2002 \$3,000

Georges E. Haddad: Principal Investigator.

FASEB Summer Research Conference on Neuronal Mechanisms in Cardiovascular Regulation

- Howard University Funds for Academic Excellence Award, 2000-2001 \$3,000
Georges E. Haddad: Principal Investigator.
Medical Science Education Program

- Howard University New Faculty Award, 1999-2001 \$40,000
Georges E. Haddad: Principal Investigator.
Modulation of Ionic Currents during Development and Regression of Cardiac Hypertrophy: Role of ANG II and IGF-1”.

- American University of Beirut, University Research Board-World Health Organization Grant, 1998-1999
Georges E. Haddad: Principal Investigator.
Role of insulin-like growth factor-1 in cardiac hypertrophy in adult male Sprague-Dawley rats”.

- American University of Beirut, Medical Practice Plan grant, 1998-1999
Georges E. Haddad: Principal Investigator.
“Role of insulin growth factor-1 in cardiac hypertrophy”

- American University of Beirut, University Research Board-World Health Organization grant, 1996-1997
Georges E. Haddad: Principal Investigator.
“Regulation of Taurine’s effect on heart muscle”

- American University of Beirut, Medical Practice Plan grant, 1996-1997
Georges E. Haddad: Principal Investigator.
“Physiologic role and pharmacology of Taurine in heart muscle”.

CERTIFICATES

- Distance Learning Certification-CETLA-Howard University (6-2020)
- Blackboard Certification-CETLA-Howard University (5-2020)
- US Department of Health and Human Services, Public Health Service, NIH/NIAAA Certificate of Recognition for Dedicated Services (2018)
- FASEB/MARC Faculty Mentor Award Certificate, 2005, 2008 (3), 2012, 2013 (2), 2014 (2), 2015.
- Certificate of Teaching Skills, The Johns Hopkins Faculty Development Program, College of Medicine, Johns Hopkins University, 2003
- Basic Radiation Safety Certificate, Howard University, 2003-2006
- Certificate of Appreciation by LCME Self-Study Task Force, College of Medicine, Howard University, 2002
- Certificate of Appreciation by Howard University College of Medicine Curriculum Committee, 2002
- American Biographical Institute hall of fame, 2001
- Safety Training Certificate, Howard university, 1999

- Losartan Award from Dupont-Merck at the ASPET meeting, 1997.

AWARDS AND SPECIAL MERITS:

- Provost's Distinguished Service Award (01//29/2021)
- APS STRIDE mentoring award (2016, 2017, 2018)
- Howard University, College of Medicine Outstanding Faculty Research Award (2013)
- FASEB MARC Travel Award, 2003, 2004, 2007-2009, 2013, 2014.
- APS Frontiers in Physiology Mentor Award: 2007 (2), 2008
- Certificate of Completion of the OVPRC Research Administration Retreat (8/2006)
- Howard University, College of Medicine e-Newsletter article (vol.1, issue 1, 2009).
- Appreciation letter from the Office of the Vice Provost for Research and the Office of Research Administration, Howard University, 2004
- Distinguished Faculty Author Award, Howard University (2000-2013)
- Who's Who Among Executives and Professionals Throughout the World 2010.
- National Science Foundation, Quality Education for Minorities Network workshop, 2003
- The American Physiology Society travel award to attend the XXXIV International Congress of Physiological Sciences in Christchurch, New Zealand, 2001
- FASEB Award to attend the "Write Winning Grants" Seminar In Tuscon, Arizona, 2001
- American Physiological Society Travel Award to attend the joint Scandinavian Physiological Society and APS meeting, 2000
- Summer Research workshop scholarship from FASEB/MARC on "Calcium & calcium function", 2000
- Finalist for grant offered by the "Association Québécoise d'Hypertension Artérielle", 1995
- Canadian International Development Agency Excellence Ph.D. Scholarship, 1988 - 1992

MEMBERSHIP

- Member of the Society for Research on Alcoholism (since 2011)
- Member in the American Physiological Society (since 1999)
- Member in the American Heart Association, Council on Basic Cardiovascular Sciences (since 1999)
- Member of the American Society for Investigative Pathology (2009-2013)
- Member of The American Society for Gene Therapy (2009-2013)
- Member of the Interdisciplinary working group on functional genomics & translational biology (since 2004)
- Member of the American Stroke Association (2003-2009)
- Member in the Biophysical Society (2000-2003)
- Member of the International Association of Medical Science Educators (2001-2003)
- Member in the American Society for Pharmacology and Experimental Therapeutics (1998-2002)
- Member of the American Biographical Institute (2000)

PUBLICATIONS

Patent

1. Gwathmey J., Del Monte F., Hajjar, R., and **G. Haddad** (2001). Isolation procedure and optimized solution to enhance long-term survival of cells. Serial Number 60/252,657.

Peer-reviewed Articles

PubMed NCBI, My Bibliography link:

<http://www.ncbi.nlm.nih.gov/myncbi/browse/collection/48038883/?sort=date&direction=ascending>

1. Cassandra Olea, Alexandra Haddad, Nia James, Chidi Martins, **Georges Haddad**, Mark Burke. Mind, body, and society: the far-reaching effects of fetal alcohol exposure. (*In Preparation*).
2. Moni Nader, **Georges E. Haddad**, Jacobo Elies, Sriharsha Kantamneni, and Firas Albadarin. Physiological underpinnings of long COVID: What have we learned? *Front. Physiol.* 2023 (accepted)
3. Batta Y., King C., Cooper F., Johnson J., Haddad N., Boueri M.G., DeBerry E., and **Georges E. Haddad**. Direct and indirect cardiovascular and cardiometabolic sequelae of the combined anti-retroviral therapy on people living with HIV. *Front. Physiol.* 2023 Mar 27; 14:1118653 doi: 10.3389/fphys.2023.1118653
4. John L. Pinches IV1, Yiuing L. Pinches1, John O. Johnson, Natasha C. Haddad, Myriam G. Boueri, Luc M. Oke, **Georges E. Haddad**. Could “cellular Exercise” be the missing ingredient in a healthy life? Diets, caloric restrictions and exercise-induced Hormesis. *Nutrition* (2022), doi: <https://doi.org/10.1016/j.nut.2022.111629>
5. Batta Y, King C, Johnson J, Haddad N, Boueri M, **Haddad G**. Sequelae and Comorbidities of COVID-19 Manifestations on the Cardiac and the Vascular Systems. *Front. Physiol.* 2022 Jan 14;12:748972. doi: 10.3389/fphys.2021.748972. eCollection 2021.
6. Yanagihara R, Berry MJ, Carson MJ, Chang SP, Corliss H, Cox MB, **Haddad G**, Hohmann C, Kelley ST, Lee ESY, Link BG, Noel RJ Jr, Pickrel J, Porter JT, Quirk GJ, Samuel T, Stiles JK, Sy AU, Taira DA, Trepka MJ, Villalta F, Wiese TE. Building a Diverse Workforce and Thinkforce to Reduce Health Disparities. *Int J Environ Res Public Health.* 2021 Feb 7;18(4):1569. doi: 10.3390/ijerph18041569.PMID: 33562262
7. LaRocca TJ, Altman P, Jarrah AA, Gordon R, Wang E, Hadri L, Burke MW, **Haddad GE**, Hajjar RJ, Tarzami ST. CXCR4 Cardiac Specific Knockout Mice Develop a Progressive Cardiomyopathy. *Int J Mol Sci.* 2019 May 8;20(9). pii: E2267. doi: 10.3390/ijms20092267.
8. Dguzeh U, Haddad NC, Smith KTS, Johnson JO, Doye AA, Gwathmey JK, **Haddad GE**. (2018). Alcoholism: A Multi-Systemic Cellular Insult to Organs. *Int. J. Environ. Res. Public Health*, 15 (6), pii E1083, 2019.
9. Obad A, Peeran A, Little JI, **Haddad GE**, Tarzami ST. (2018). Alcohol-mediated organ damages: Heart and Brain. *Front. Pharmacol.* 9, 81.
10. **Haddad GE**. (2017). Modified mRNAs in the Cardiovascular System: A New Platform for Gene Therapy. *Mol Ther. (Nature)* 7;25(6):1266-1268. doi: 10.1016: PMID:28550973
11. Guers JJ*, Gwathmey J*, **Haddad G***, Vatner DE, Vatner SF. (2017). Minority investigators lack NIH funding. *Science*. 9; 356 (6342):1018-1019. doi: 10.1126/ science. aan 6602. PMID: 28596331 (*equal contribution)
12. Nakhoul MR, Seif KE, Haddad N., **Haddad GE** (2017). Fetal Alcohol Exposure: The common toll. *Alcoholism and Drug dependence*, 5 (1) pii 257.

13. Wilcox WC, Wells J, **Haddad G**, & Gwathmey JK (2016). “Historically Black Colleges and Universities in American Democracy” Chapter 8 pp 556-572. *In Neoliberalizing the University: Implications for American Democracy*. Editor: Sanford Schram. Routledge Publisher.
14. Johnson J, Jones T, **Haddad G**, Wilcox WC, Gwathmey JK (2016). “Strategies to Enhance the Role of HBCUs in Increasing the Science, Technology, Engineering, Mathematics and Medical (STEM) Workforce” Chapter 7 pp 96-118. In *Setting a New Agenda for Student Engagement and Retention in Historically Black Colleges and Universities*. Editor Charles Prince and Rochelle Ford. Publisher: IGI Global.
15. Rodriguez A, Chawla K, Umoh NA, Cousins VM, Ketegou A, Reddy MG, AlRubaiee M, **Haddad GE**, Burke MW (2015). Alcohol and Apoptosis: Friends or Foes? *Biomolecules*. (4):3193-203.
16. Zebalda D. Bamji and **Haddad G.E.** (2015). Convergence of Theories of Alcohol Administration Postanabolic Stimulation on mTOR Signaling: Lessons for Exercise Regimen. *Alcoholism: Clinical and Experimental Research Journal* 39(5):787-9. doi: 10.1111/acer.12702
17. **Haddad G.E.**, Chams S. and Chams N. (2015). The role of coronary microvascular disorder in congestive heart failure. *Am. J. Physiol. (Heart and Circ. Physiol.)* 308(8):H814-5. doi: 10.1152/ajpheart.00118.2015
18. Morris NL, Ippolito JA, Curtis BJ, Chen MM, Friedman SL, Hines IN, **Haddad GE**, Chang SL, Brown LA, Waldschmidt TJ, Mandrekar P, Kovacs EJ, Choudhry MA. (2014). Alcohol and inflammatory responses: Summary of the 2013 Alcohol and Immunology Research Interest Group (AIRIG) meeting. *Alcohol*. 2014; S0741-8329(14)20160-1.
19. Clyde Wilcox, JoVita Wells, **Georges Haddad** and Judith K. Wilcox (2014). The changing democratic functions of historically black colleges and universities. *New Political Science* 36:4-17, DOI: 10.1080/07393148.2014.954793
20. Nsini A. Umoh, Robin K. Walker, Mustafa Al-Rubaiee, Miara A. Jeffress, and **Georges E. Haddad** (2014). Acute alcohol modulates cardiac function as PI3K/Akt regulates oxidative stress. *Alcoholism: Clinical and Experimental Research Journal* 38 (7):1847-1864.
21. Nsini A. Umoh., Robin K., Richard M. Millis, Mustafa Al-Rubaiee M., Pandu Gangula, and **Georges E. Haddad** (2014). Calcitonin gene-regulated peptide regulates cardiomyocyte survival through regulation of oxidative stress by PI3K/Akt and MAPK signaling pathways. *Annals of Clinical and Experimental Hypertension* 2 (1): 1007-1032.
22. Bond V., Curry BH, Adams RG., Asadi MS., Stancil KA., Millis RM., **Haddad GE** (2014). Effects of nitrate supplementation on cardiovascular and autonomic reactivity in African-American Females. *ISRN Physiol.* Feb 23; 2014 pii: 676235.
23. Vernon Bond Jr., Bryan H. Curry, Richard G. Adams, Richard M. Millis and **Georges E. Haddad** (2014). Cardiorespiratory function associated with dietary nitrate supplementation. *Applied Physiology, Nutrition, and Metabolism* 39(2): 168-172.
24. Richard M. Millis, Vernon Bond, **Georges Haddad**, and Richard Adams (2013). Oxygen consumption at 30 W of exercise is surrogate for peak oxygen consumption. *ISRN Physiology*, Volume 2013, Article ID 756276, 5 pages.
25. Robin K. Walker, Valerie M. Cousins, Nsini A. Umoh, Miara A. Jeffress, Delaram Taghipour, Mustafa Al-Rubaiee, **Georges E. Haddad** (2013). The good, the bad and the ugly with alcohol use and abuse on the heart. *Alcoholism: Clinical and Experimental Research Journal* 37 (8)1253-1260.

26. Bond V Jr, Curry BH, Adams RG, Asadi MS, Millis RM, **Haddad GE** (2013). Effects of dietary nitrates on systemic and cerebrovascular hemodynamics. *Cardiol. Res. Pract.* 2013:435629.
27. Mustafa Al-Rubaiee, Pandu R. Gangula, Richard M. Millis, **Georges E. Haddad** (2013). Inotropic and Lusitropic effects of Calcitonin Gene-Related Peptide in the heart. *AJP-Heart and Circ. Physiol.* 304: H1525-H1537.
28. Gangula PR, Dong YL, Al-Hendy A, Richard-Davis G, Montgomery-Rice V, **Haddad G**, Millis R, Nicholas SB, Moseberry D (2013). Protective cardiovascular and renal actions of vitamin D and estrogen. *Frontiers in Biosciences (Schol Ed.)* 5:134-148.
29. Richard Millis, Alvin Zikiar, Aiqiu Zhao and **Georges E. Haddad** (2012). Effects of IGF-1 on IK and IK1 Channels via PI3K/Akt Signaling in Neonatal Cardiac Myocytes. *Int. J. Cell. Biol.*, Vol. 2012, 712153.
30. Zikiar Alvin, Graham G. Laurence, Bernell R. Coleman, Aiqiu Zhao, Majd Hajj-Moussa, **Georges E. Haddad** (2011). Regulation of L-Type Inward Calcium Channels Activity by Captopril and Angiotensin II via the Phosphatidyl Inositol 3-Kinase pathway in cardiomyocytes from volume-overload hypertrophied rat hearts. *Can. J. Physiol. Pharmacol.* 89 (3): 206 -215.
31. Zikiar Alvin, Graham G. Laurence, Bernell Coleman, Aiqiu Zhao, Majd Hajj-Moussa, **Georges E. Haddad** (2011). Regulation of the instantaneous inward rectifier and the delayed outward rectifier potassium channels by captopril and angiotensin II via the phosphoinositide-3 kinase pathway in volume-overload-induced hypertrophied cardiac myocytes. *Medical Science Monitor* 2011, BR 165-72.
32. Zikiar V. Alvin, Richard M. Millis, Wissam Hajj-Moussa, and **Georges E. Haddad** (2011). ATP-Sensitive Potassium Channel Currents in Eccentrically Hypertrophied Cardiac Myocytes of Volume-Overloaded Rats. *Int. J. Cell Biol.* Vol. 2011, 838951.
33. Larocca TJ, Schwarzkopf M, Altman P, Zhang S, Gupta A, Gomes I, Alvin Z, Champion HC, **Haddad G**, et. al. (2010). beta2-Adrenergic Receptor Signaling in the Cardiac Myocyte is Modulated by Interactions with CXCR4. *J. Cardiovasc. Pharmacol.* 56 (5): 548-559.
34. Aiqiu Zhao, Zikiar Alvin, Graham G. Laurence, Chuanfu Li, and **Georges E. Haddad** (2010). Cross-talk between MAPKs and PI-3K pathways alters the functional density of IK channels in hypertrophied hearts. *Ethnicity & Disease*; 20 (S1): 219-224.
35. Leyla Teos, Aiqiu Zhao, Zikiar Alvin, Graham G. Laurence, Chianfu Li, and **Georges E. Haddad** (2009). Basal and IGF-1-dependent regulation of potassium channels by MAP kinases and PI-3 kinase during eccentric cardiac hypertrophy. *Am. J. Physiol. Heart Circ Physiol.*, 295: H1834-H1845.
36. **Georges E. Haddad**, Lori Sanders, Seth Crosby, Maria Carles, Frederica del Monte, Micheal R. Bristow, Francis G. Spinale, Thomas E. Macgillivray, Marc J. Semigran, G. William Dec, Roger J. Hajjar, and Judith K. Gwathmey (2008). Human cardiac specific cDNA array for idiopathic dilated cardiomyopathy: sex related differences. *Physiological Genomics*, 33 (2): 267-277.
37. **Georges E. Haddad**, Lori Sanders, Maria Carles, Seth Crosby, Frederica del Monte, Thomas E. Macgillivray, Marc J. Semigran, G. William Dec, Roger J. Hajjar, Angelia A. Doye, Rita glass, Margo El, and Judith K. Gwathmey (2008). Fingerprint profile of alcohol-associated heart failure in human hearts. *Alcoholism: Clinical and Experimental Research*, 32 (5): 814-821. (Journal Media Highlight article).
38. **Georges E Haddad** (2006). Gene Therapy for Treating Diabetic Cardiomyopathy: A New Approach for a Difficult Clinical Problem. *Molecular Therapy, (Nature)* 13 (5): 835-838.

39. Tuanzhu Ha, Yuehua Li, Fang Hua, Jinag Ma, Xiang Gao, Jim Kelley, Aiqiu Zhao, **Georges E. Haddad**, David L. Williams, I. William Browder, Race L. Kao, and Chuanfu Li (2006). Blockade of MyD88 attenuates cardiac hypertrophy and decreases cardiac myocyte apoptosis in pressure overload-induced cardiac hypertrophy in vivo. *Am J Physiol. Heart Circ. Physiol.*; 90(3):H985-94.
40. Tuanzhu Ha, Yuehua Li, J. Ma, Xiang Gao, Jim Kelley, Aiqiu Zhao, **Georges E. Haddad**, David L. Williams, I. William Browder, Race L. Kao, and Chuanfu Li (2005). Reduced cardiac hypertrophy in toll-like receptor 4-deficient mice following pressure overload. *Cardiovasc. Res.* 2005 Nov 1;68(2):224-34.
41. **Georges E. Haddad**, Alexandre Scheer, Alfred Burris, Graham Laurence and Aiqiu Zhao (2005). Insulin-like growth factor 1 modulates angiotensin II-induced inotropic response in atrial muscle. *Int. J. Cardiovasc. Med. and Science*, 5: 91-96.
42. Tuanzhu Ha, Yuehua Li, Xiang Gao, Julie R. McMullen, Tetsuo Shioi, Seigo Izumo, Jim Kelley, Aiqiu Zhao, **Georges E. Haddad**, David L. Williams, I. William Browder, Race L. Kao, and Chuanfu Li (2005). Attenuation of cardiac hypertrophy by inhibiting both mTOR and NFκB activation in vivo. *Free Radic Biol Med.* 39(12):1570-80.
43. **Georges E. Haddad**, Alexandre Scheer, Aiqiu Zhao, Elijah Clarke Jr, Jason K. Arguinizoni and Sonya K. Sobrian (2005). Prenatal cocaine alone and combined with nicotine alter ANG II and IGF-1 induced left atrial contractions in aging male offspring. *Can. J. Physiol. Pharmacol.*, 83 (11): 957-965.
44. **Georges E. Haddad**, Bernell R. Coleman, Aiqiu Zhao and Krista N. Blackwell (2005). Regulation of myocardial contraction by PKA and PKC during the development and regression of eccentric cardiac hypertrophy. *Am. J. Physiol. (Heart Circ. Physiol.)* 288: H695-H704
45. **Georges E. Haddad**, Bernell R. Coleman, Aiqiu Zhao and Krista N. Blackwell (2004). Modulation of atrial contraction by PKA and PKC during the compensated phase of eccentric cardiac hypertrophy. *Bas. Res. Cardiol.*, 99 (5), 317-327.
46. **Haddad G.**, Blackwell K., and A. Bikhazi (2003). Regulation of IGF-1 by RAS during regression of eccentric hypertrophy through ACE-inhibitor and AT1 antagonist. *Can. J. Physiol. and Pharmacol.* 81 (2), 142-149.
47. Bikhazi AB, Azar ST, Birbari AE, El-Zein GN, **Haddad GE**, Haddad RE, Bitar KM (2000). Characterization of insulin resistance: role of receptor alteration in insulin-dependent diabetes mellitus, essential hypertension, and cardiac hypertrophy. *Eur. J Pharm Sci* 11(4):299-306
48. Bikhazi A., Ziadeh A., Abbud R., Nabhan S., and **G. Haddad** (1999). Two uncompetitive, activated, and transport sites of the Na⁺/H⁺ exchanger for pH regulation in perfused rat kidney. *Comp. Biochem. Physiol.* A 123, 417-422.
49. **Haddad G.**, Saadeh F., Sharaf L., Nahle Z., Abou-Fares M., Haddad R., Bitar K., and A. Bikhazi (1999). Alterations in IGF-I binding on cardiac myofibers and capillary endothelium during chronic volume-overload-induced hypertrophy. *J. Biochem., Mol. Biol., Biophys.* 3: 65-74.
50. Farhad A., **Haddad G.**, and R. Garcia (1999). Renal angiotensin II receptor regulation and renin angiotensin system inhibition in one-kidney, one-clip hypertensive rats. *J. Hypertens*, 17 (2): 279-286.
51. **Haddad G.E.**, Ruiz-Petrich E., Zumino A.P., and O.F. Schanne (1997). Background K⁺ currents and response to metabolic inhibition during early development in rat cardiocytes. *Mol. Cell. Biochem.* 177, 159-168.

52. Bkaily G., Pothier P., D'Orleans-Juste P., Simaan M., Jacques D., Jaalouk D., Belzile F., Boutin C., **Haddad G.**, and W. Neugebauer (1997). The use of confocal microscopy in the investigation of cell structure and function in heart, vascular endothelium and smooth muscle cells. *Mol. Cell. Biochem.*, 172, 171-194.
53. Bikhazi A., Nahle Z., Kreydiyyeh S., Haddad R., Bitar K., **Haddad G.**, and A. Abdelnoor (1997). Endotoxin binding on capillary endothelium and myocyte plasma membranes in perfused rat heart. *J. Endotoxin Res.*, 4 (1): 45-51.
54. **Haddad G.**, Amiri F., and R. Garcia (1997). Modulation of renal glomerular angiotensin II receptors by ACE inhibition and AT1 receptor antagonism. *Regulatory Peptides*, 68: 111-117.
55. **Haddad G.**, and R. Garcia (1997). Effect of angiotensin converting enzyme two-week inhibition on renal ANG II receptors, and reactivity of renal vessels of the SHR. *J. Mol. Cell. Cardiol.*, 29: 813-822.
56. Bkaily G., Jaalouk D., **Haddad G.**, Gros-Louis N., Simaan M., Naik R., and P. Pothier (1997). Modulation of cytosolic and nuclear Ca²⁺ and Na⁺ transport by taurine in heart cells. *Mol. Cell. Biochem.*, 170: 1-8.
57. **Haddad G.**, and R. Garcia (1996). Characterization and hemodynamic implications of renal vascular angiotensin II receptors in SHR. *J. Mol. Cell. Cardiol.*, 28: 351-361.
58. Bkaily G., **Haddad G.**, Gros-Louis N., Jaalouk D., Taoudi Benchekroun R., Naik P., Pothier P., D'Orleans-Juste P., Bui M., Wang S., and N. Sperelakis (1996). Modulation of Ca²⁺ and Na⁺ transport by taurine in heart and vascular smooth muscle. *Adv. Exp. Med. Biol. (Taurine 2)*. 28: 263-273.
59. **Haddad G.E.**, Sperelakis N., and G. Bkaily (1995). Regulation of the calcium slow channel by cyclic GMP dependent protein kinase in chick heart cells. *Mol. Cell. Biochem.*, 148: 89-94.
60. Sperelakis N., Xiong Z., **Haddad G.**, and H. Masuda (1994). Regulation of slow calcium channels of myocardial cells and vascular smooth muscle cells by cyclic nucleotides and phosphorylation. *Mol. Cell. Biochem.*, 140: 103-117.

Peer-reviewed Book Chapters

1. Millis RM, Bond Jr V, Asadi MS & **Haddad GE**: Epigenetics, protein kinases and heart failure. In: Payne CJ (ed.), Epigenomics and Epigenetics, Croatia, *InTech*, pp. 57-75, 2014. <http://dx.doi.org/10.5772/57194>.
2. Aiqiu Zhao, Songping Wang, Hong Wang, **Georges E. Haddad**, Hannan Cui, Yishan Huang (2004). *Science of Chinese Materia Medicine*. Edited by Aiqiu Zhao, Songping Wang, Hong Wang, Georges E. Haddad, Hannan Cui, Yishan Huang. Published by China Press of Traditional Medicine, Beijing, China.
3. Sperelakis N., and **G.E. Haddad** (1995). In: *Physiology and pathophysiology of the heart*, 3rd edition. "Developmental changes in membrane electrical properties of the heart". N. Sperelakis (ed.) Kluwer Acad. Publishers, Norwell, Mass., USA: 667-700.
4. Bikhazi A.B., **Haddad G.E.**, Alloush H.M., Uthman F.H., Fakruddin N.A., and M. El-Kasti (1994). In: *Membrane physiopathology* "Effect of insulin and glucagon on hepatocellular alanine uptake in normal and streptozocin-induced diabetic rats". G. Bkaily (ed.) Kluwer Acad. Publishers, Norwell, Mass., USA: 271-291.
5. Schanne O.F., Qu J., **Haddad G.E.**, and E. Ruiz-Petrich (1994). In: *Membrane physiopathology* "Membrane dysfunction and abnormal spontaneous activity: a study in explanted cardiac cells". G. Bkaily (ed.) Kluwer Acad. Publishers, Norwell, Mass., USA: 47-70.

Presentations

1. Georges E. Haddad (5/4/2017). The sweet and sour taste of alcohol in the heart. Louisiana State University Health Science Center, Shreveport, LA
2. Dilated Hypertrophic Cardiomyopathy: Eccentric and Alcoholic (16/5/2016). Cardiovascular Center of Mount Sinai School of Medicine, NY
3. Georges E. Haddad (2014). Alcohol and the heart: The good, the bad and the ugly. California Northern University, CA
4. Georges E. Haddad (2013). Inotropic Signaling in Dilated Hypertrophic Cardiomyopathy. Louisiana State University, New Orleans, LA
5. Georges E. Haddad (2013). Alcoholic Cardiomyopathy: The Heart got NRF. Loyola University, Chicago, IL.
6. Georges E. Haddad (2012). Bi-directional partnership and collaborative research: An ideal win-win situation. GUTCCS conference Howard University.
7. Georges E. Haddad (4/2012). Signaling pathways in cardiac myocytes: Electrophysiological Assays. Frontiers in Stem Cells. Howard University.
8. Georges E. Haddad (2012). Altered Angiotensin II-Dependent MAPK and PI-3K Activation during Eccentric Cardiac Hypertrophy. RCMI, Howard University.
9. Georges E. Haddad (2/2012). Role of MAPK and PI3K in inotropic alterations during cardiac hypertrophy. Meharry Medical College, Nashville, TN.
10. Georges E. Haddad (8/2011). Electrophysiological role of MAPK and PI3K in Cardiac Hypertrophy. Savannah State University.
11. Georges E. Haddad (3/2011). Molecular Pathophysiology of Cardiac hypertrophy. Pharmacy School, Howard University.
12. Georges E. Haddad (3/2010). Regulation of cardiac contraction and ion channels by protein kinases during eccentric cardiac hypertrophy. Intrexon Inc.
13. Georges E. Haddad (12/14/2009). Diastolic Heart Failure. Howard University College of Medicine Dean's Interdisciplinary Research Conference.
14. Georges E. Haddad (9/2008). Cardiac Hypertrophy is associated with MAPK- and Akt-dependent modulation of the delayed outward rectifier channel. RCMI meeting oral presentation, Honolulu, HI.
15. Georges E. Haddad (6/2008). Regulation of myocardial contraction and ion channels by protein kinases during eccentric cardiac hypertrophy. The Cardiovascular Center, Mount Sinai School of Medicine, NY.
16. Georges E. Haddad (4/2007) Academia Research. At the Post-Doctoral Preparation Institute; FASEB/MARC at EB 2007.
17. Georges E. Haddad (12/2006). Regulation of ionic channels by protein kinases during cardiac hypertrophy. Department of Pharmacology, College of Medicine, Howard University, Washington, DC.
18. Georges E. Haddad (2006). Altered Angiotensin II-Dependent MAPK and PI-3K Activation during Eccentric Cardiac Hypertrophy. RCMI conference, Puerto-Rico.

Abstracts

1. R.K. Walker; M.A. Jeffress; M. AlRubaiee; N.A. Umoh; D. Yenza; S. Douglas; G.E. Haddad (2014). Nrf2 for low but akt for high chronic alcohol-mediated cardiac effects. Alcoholism: Clinical and Experimental Research

2. sini A. Umoh, Miara A. Jeffress and Georges E. Haddad (2014). PI3K/Akt signaling sustains the alcoholic effects in the heart. *FASEB* 281: 862.7
3. Miara Jeffress, Nsini Umoh and Georges Haddad (2014). Regulation of SERCA2a by chronic ethanol: Role of Akt. *FASEB* 281:864.8
4. P Ezeamama and G. Haddad (2014). Creatine influence on acute high and low ethanol exposure on cardiac heart muscle. *FASEB* 154: 547.5
5. R.K. Walker; M.A. Jeffress; M. AlRubaiee; N.A. Umoh; T. Ross; S. Douglas; G.E. Haddad (2013). What's nrf got to do with alcoholic cardiomyopathy? *Circulation*.
6. R.K. Walker; M.A. Jeffress; M. AlRubaiee; N.A. Umoh; T. Ross; S. Douglas; G.E. Haddad. NRF2 conveys the diverging effects of chronic low and high alcohol consumption on the heart's inotropic function (2013). *Alcoholism: Clinical and Experimental Research*.
7. Mustafa AlRubaiee, Nsini Umoh, Robin K Walker, Valerie Cousins, Miara Jeffress, and Georges E Haddad (2013). Oxidative stress level mediates the inotropic effects of alcohol on the heart. *FASEB J.* 27:1126.10
8. Miara Akiel Jeffress, Nsini Umoh, Robin Walker, Mustafa Alrubaiee, George Haddad (2013). Regulation of SERCA2a by Akt in alcoholic cardiomyopathy. *FASEB J.* 27:1197.5
9. Nsini Umoh, Robin K Walker , Miara Jeffress, Valerie Cousins, Mustafa AlRubaiee, and Georges E Haddad (2013). Akt/PI3K signaling sustains the acute alcoholic effects in isolated adult rat cardiocytes. *FASEB J.* 27: 1197.4
10. Robin K Walker and Georges E Haddad (2013). The role of inflammatory responses in alcoholic cardiomyopathy. *FASEB J.* 27: 1128.9
11. Robin K. Walker, Nsini A. Umoh and Georges E. Haddad (2012). Chronic alcohol effects on oxidative stress markers in the rat heart. *Society for Inflammation and Leukocyte*.
12. Robin Walker, Valerie Cousins, Nsini Umoh, Mark Burke and Georges Haddad (2012). Akt mediates acute alcohol inotropic effects on the heart. *71st Conference on Developmental Biology*. 294.
13. Burke Mark, Curtis Kimberly, Carryl Heather, Haddad Georges, Abel Kristina (2012). The integrity of the hippocampus in SIV-infected infant primates. *71st Conference on Developmental Biology*. 287: B107.
14. V. Cousins, M. El-Rubaiee, R. Walker, K. Sankavaram, J. Allard, N. Umoh, R.E. Taylor, G.E. Haddad (2012). PI3K/AKT Signaling Mediated the Positive Cardiac Inotropic Effect of Low Alcohol. *Alcoholism: Clinical and Experimental Research*, 36, S1:0748.
15. Robin Kevina Walker, Valerie Cousins, and George E. Haddad. Acute alcohol effect on cardiac pro- and anti-apoptotic pathways in the perfused adult rat heart (2012). *FASEB J.* 26:1b649.
16. Georges E. Haddad and Valerie M. Cousins (2011). Pivotal Role of PI3K in Mediating the Inotropic Effects of Alcohol in Cardiomyocytes. *FASEB J.*, 25, 829.6
17. Aiqiu Zhao, Zikiar Alvin, Valerie M. Cousins and Georges E. Haddad (2010). PI3K and MAPK Cross reactivity During Eccentric Cardiac Hypertrophy. *FASEB J.*, 24, 620.6
18. Zikiar Alvin, Graham Laurence, Bernell R. Coleman, Georges E. Haddad (2010). Regulation of IK and IK1 by Captopril and ANG II via PI3 Kinase Pathway in Hypertrophied Cardiac Myocytes. *FASEB J.*, 24, 1b538
19. Valerie M. Cousins, Zikiar Alvin, Aiqiu Zhao, Georges E. Haddad (2010). PI3 Kinase/Akt Signaling Pathway Mediates Alcohol-Induced Cardiomyopathy. *FASEB J.*, 24, 1048.2
20. Haddad G.E., Alvin Z., Duan R., A. Zhao (2009). Akt-dependent regulation of potassium channels by IGF-1 in cardiomyocytes. *59th Annual meeting Am. Soc. Human Genetics, Hawaii*. P666, #2345.

21. Zhao A., Duan R., Alvin Z., G.E. Haddad (2009). Distinct hypertrophic and survival pathways for IGF-1 and ANG II. 59th Annual meeting Am. Soc. Human Genetics, Hawaii. P665, #2340
22. Alvin Z., Zhao A., Duan R., Laurence G.G., Teos L., Coleman B.R., Haddad G.E (2009). Regulation of IK by PI3 kinase/Akt pathway in cardiac myocytes. FASEB J., D455, 624.1.
23. Sridhar R., Cousins V.M., Zhang R., Zhou Y., Haddad G., Ashayeri E. (2009). Calcium restriction inhibits cancer cell proliferation in vitro. FASEB J. C279, 885.3.
24. Aiqiu Zhao, Zikiar Alvin, Rong Duane, and Georges E. Haddad (2008). Interaction of IGF-1 survival pathway with TNF- α and ANG II. RCMI meeting oral presentation, Honolulu, HI.
25. Georges E. Haddad, Zikiar Alvin, Graham G. Laurence, and Leyla Teos (2008). Altered MAP kinases and Akt activation during compensated eccentric cardiac hypertrophy. FASEB J., 22, 970.49
26. Georges Haddad, Maria C. Carles, Lori J. Saunders, Federica Del Monte, Davide Giani, Kindra M. King, Seth D. Crosby, James G. Dobson, Jr., Michael R. Bristow, Francis G. Spinale, Naveen Pereira, G. William Dec, Marc Semigran, Thomas E. Macgillivray, Roger J. Hajjar, and Judith K. Gwathmey (2008) Unique Genomic Fingerprint Identifies Women With Heart Failure. American College of Cardiology 57th Annual Scientific Session. E-poste, Chicago.
27. Aiqiu Zhao, Zikiar Alvin, Leyla Teos, Graham Laurence, Georges E. Haddad (2007). Regulation of MAPK and PI-3K by Bradykinin and Angiotensin II during Eccentric Cardiac Hypertrophy. FASEB J., 908.27, A1259.
28. Leyla Teos, Aiqiu Zhao, Zikiar Alvin, Graham Laurence, Georges E. Haddad (2007). IGF-1 Modulatory Effects on IK and IK1 Through ERK1/2 and PI 3K During Eccentric Cardiac Hypertrophy. FASEB J., 973.5, A1420.
29. Graham Laurence, Zikiar Alvin, Aiqiu Zhao, Leyla Teos, Georges Haddad (2007). Angiotensin II modulation of L-type current in compensated eccentric cardiac hypertrophy. FASEB J., 907.18, A1252.
30. Aiqiu Zhao and Georges E. Haddad (2006). IGF-I-Dependent Signaling Pathways during Eccentric Cardiac Hypertrophy. RCMI conference, Puerto-Rico
31. Nerisa Leumoana, Zikiar Alvin, Graham Laurence, Czerina Amian, Georges E. Haddad (2006). Effects of cromakalim and glibenclamide on ATP-sensitive potassium channels. The FASEB J., 214.3, A320.
32. Leyla Teos, Aiqiu Zhao, Graham G. Laurence, Zikiar Alvin, Richard Hodges, Georges E. Haddad (2006). Modulation of potassium currents by MAPK and PI 3K during eccentric cardiac hypertrophy. The FASEB J. 215.12, A326.
33. Aiqiu Zhao, Paul Wang, Songping Wang, Chuanfu Li, Georges E. Haddad (2006). The effects of ACE-Inhibition on ANG II and IGF-1 signaling pathways during the development and regression of eccentric cardiac hypertrophy. The FASEB J. 495.3, A834.
34. Graham George Laurence, Jamal Whyte, Zikiar Alvin, Aiqiu Zhao, Leyla Teos, Georges E. Haddad (2006). Angiotensin II and IGF-1 modulation of calcium handling in compensated eccentric cardiac hypertrophy. The FASEB J. 919.12, A1448.
35. Czarina Amian, Aiqiu Zhao, Nerissa Leumonana, Georges Haddad (2005). Effect of angiotensin II and IGF on cell level of activation of MAPK: p44/p42, p38 and PI3K at different incubation time points. Ann. Biomed. Res. Conference for Minority Students, D60, p259, Atlanta, GA.

36. Leyla Teos, Graham G. Laurence, Aiqiu Zhao, Alvin Zikiar and Georges E. Haddad (2005). Regulation of potassium channels by MAPK during volume overload. SNRP meeting, Laurel, MD.
37. Leyla Y. Teos, Aiqiu Zhao, Qingjun Tian, Georges E. Haddad (2005). Changes in the intracellular protein kinase regulation of IK1 and IK by ANG II during eccentric cardiac hypertrophy. *FASEB J.*, 919.26
38. Aiqiu Zhao¹, Leyla Y. Teos¹, Paul Wang, Krista N. Blackwell¹, Georges E. Haddad (2005). Alterations in ANG II and IGF-1 Signaling Pathways During Eccentric Cardiac Hypertrophy. *FASEB J.*, 344.11
39. Krista N. Blackwell, Aiqiu Zhao, Graham Laurence, Bernell R. Coleman, Georges E. Haddad (2005). Differential regulation of intracellular calcium by alpha- and beta-adrenergic stimulation in volume-overload cardiac hypertrophy. *FASEB J.*, 679.16
40. Georges E. Haddad, Paul Wang, Bernell R. Coleman, Aiqiu Zhao and Krista Blackwell (2004). Protein kinase regulation of atrial contraction during eccentric cardiac hypertrophy. RCMI meeting, Baltimore, MD.
41. G.G. Laurence, R.W. Putman, N. Ritucci, M.A. Haxhiu, G.E. Haddad (2004). pH modulation of delayed rectifier currents in PC12 cells. SNRP meeting, Nashville, TN.
42. Georges E. Haddad, Alexandre Scheer (2004). Cross-talk between ANG II and IGF-1 on atrial contraction. *FASEB J.* 700.10, A1092.
43. Krista Natasha Blackwell, Bernell R. Coleman, Georges E. Haddad (2004). The effect of protein kinase signaling on atrial contraction in eccentric cardiac hypertrophy. *FASEB J.* 831.9, A1246.
44. Graham George Laurence, Keytashia Guy, Musa A. Haxhui, Georges E. Haddad (2004). pH modulation of the rapidly activating component of delayed rectifier currents. *FASEB J.* 690.4, A1059.
45. Georges E. Haddad and Krista Blackwell. IGF-1 receptor modulation during the development and regression of cardiac eccentric hypertrophy by either ACE-inhibitor or AT1-antagonist (2002). *FASEB Summer Research Conference on Neuronal Mechanisms in Cardiovascular Regulation.* 56, Copper Mountain, CO.
46. Haddad G., Blackwell K. and B. Coleman. Modulation of atrial contraction by protein kinase phosphorylation during eccentric cardiac hypertrophy (2001). *IUPS XXXIV Int. Congress Physiol. Sci.*, Christchurch, New Zealand.
47. Haddad G. and A. Bikhazi. Does IGF-1 play a key role in the regression of eccentric cardiac hypertrophy by ACE-inhibitor or AT1-antagonist treatment? (2001). *IUPS XXXIV Int. Congress Physiol. Sci.*, Christchurch, New Zealand.
48. Haddad G. and A. Bikhazi. Interaction of the renin-angiotensin system and the IGF-1 axis in volume overload cardiac hypertrophy (2001). Invited Speaker. *International Society for Heart Research meeting on The Cardiovascular system and inflammatory Mediators; Monte Carlo, Monaco.*
49. Haddad G.E., Sharaf L., Nahle Z., Bitar K. and A.B. Bikhazi (1999). IGF-1 receptor kinetics during regression of cardiac hypertrophy following ACE-inhibition or AT1-antagonist treatment. *FASEB J.*, 13 (4), A438: 369.2.
50. Anwar B. Bikhazi, Alexander G. Ziadeh, Rita A. Abbud, Suad I. Nabhan, and George E. Haddad (1998). Two uncompetitive titrated sites of the Na⁺/H⁺ Exchanger in perfused rat kidney. *PharmSci* 1(1), S391: 3090.

51. Haddad G., Saadeh F., Sharaf L., Nahle Z., Abou-Fares M., Bitar K., and A. Bikhazi (1998). Kinetics of IGF-I binding on cardiac myofibers and capillary endothelium during eccentric hypertrophy. *FASEB J.*,12(5), A709: 4113.
52. Haddad G.E., and R. Garcia (1997). Treatment with ACE inhibitor modulates renal ANG II receptors, vascular reactivity and hypertrophy of the SHR. *The Pharmacologist* 39(1), A22:24.
53. Amiri F., Haddad G., and R. Garcia (1997). Modulation of renal glomerular angiotensin II receptors by ACE inhibition and AT1 receptor antagonist. Dupont Merck Award, *The Pharmacologist* 39(1), A23:24.
54. Haddad G., and Garcia R., (1996). Inhibition de l'enzyme de conversion de l'angiotensine et le système de la rénine-angiotensine chez le rat spontanément hypertendu. *Médecine Sciences*, 12 (suppl 1): 15.
55. Bkaily G., Haddad G., Bui M., Jaalouk D., Gros-Louis N., Taoudi Benchekroun M., Naik R., Wang S., and N. Sperelakis (1995). *Proceeding of Internat. Taurine Symposium 95 (Osaka)*. 24.
56. Haddad G., and R. Garcia (1995). Interactions entre l'inhibition de l'enzyme de conversion de l'angiotensine et le système de la rénine-angiotensine chez le rat spontanément hypertendu. *Archives des Maladies du Coeur et des Vaisseaux*. 88: 19.
57. Haddad G., and R. Garcia (1995). Upregulation of angiotensin II receptors in renal microvessels of the SHR. *3e Réunion Scientifique Annuelle de la Société Québécoise d'Hypertension Artérielle (Québec)*.
58. Haddad G., and R. Garcia (1995). Regulation of angiotensin II receptors in renal microvessels of the SHR. *Hypertension*, 25: 6.
59. Haddad G., and R. Garcia (1995). Régulation des récepteurs de l'angiotensin II dans les micro-vaisseaux rénaux du rat spontanément hypertendu. *Médecine Sciences*, 11 (suppl 1): 8.
60. Schanne O.F., Dumaine R., Haddad G.E., and E. Ruiz (1994). Alterations of INa during accelerated growth in short term cultured rat ventricle cells. *J. Mol. Cell. Cardiol.*, 26: 78.
61. Haddad G.E., Ruiz-Petrich E., and O. Schanne (1992). Background currents in ventricular myocytes of newborn and 7-day old rats. *The FASEB Journal*, vol. 6, (4): A979.
62. Haddad G.E., Schanne O.F., and E. Ruiz-Petrich (1991). Influence de la densité des canaux de I K - ATP sur la réponse du coeur à l'inhibition métabolique. *Les Annales de l'ACFAS*, 59: 178.
63. Haddad G.E., Schanne O.F., and E. Ruiz-Petrich (1991) Density of ATP-sensitive K-channels influences the response of neonatal rat myocytes to metabolic inhibition. *Biophysical Journal*, 59: 280a.
64. Haddad G.E., Ruiz-Petrich E., and O.F. Schanne (1990) Blocage des canaux potassiques sensibles à l'ATP ne modifie pas la réponse à l'hypoxie. *Les Annales de l'ACFAS*, 58: 106.