

Curriculum Vitae

PERSONAL DATA

Name: Ademuyiwa Aromolaran, FAHA, FHRS, Ph.D.

Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
2018 - 2019	Graduate Certificate	Massachusetts College of Pharmacy and Health Sciences (Regulatory Affairs) Worcester, MA
2006 - 2010	Research Fellow	Loyola University Medical Center (Physiology) Maywood, IL
2001 - 2006	Research Fellow	Loyola University Medical Center (Physiology) Maywood, IL
1996 - 2001	Ph.D.	St George's, University of London (Pharmacology) London, England
1995 - 1996	M.Sc.	King's College London (Pharmacology) London, England
1988 - 1991	B.Sc.	University of Ibadan (Physiology) Ibadan, Nigeria

UNIVERSITY OF UTAH ACADEMIC HISTORY

Surgery (Cardiothoracic Surgery), 08/01/2021 - Present

08/01/2021	Associate Professor
08-01/2021	Investigator- Nora Eccles Harrison Cardiovascular Research and Training Institute (CVRTI), Molecular Medicine Program.
2022-Present	Adjunct Associate Professor, Departments of Biochemistry, Biomedical Engineering, Nutrition & Integrative Physiology

PROFESSIONAL EXPERIENCE

Full-Time Positions

2019 - 2021	Assistant Professor, Masonic Medical Research Institute, Utica, NY
2019 - 2021	Assistant Professor, Department of Pharmacology, State University of New York Upstate Medical University, Syracuse, NY
2018 - 2019	Co-Director, CVD-Program to Increase Diversity Among Individuals Engaged in Cardiovascular Health-Related Research Institute, State University of New York Downstate Health Sciences University, Brooklyn, NY
2016 - 2019	Assistant Professor, Department of Cell Biology, State University of New York Downstate Health Sciences University, Brooklyn, NY
2016 - 2019	Research Scientist, Brooklyn VA Medical Center, Brooklyn, NY
2010 - 2016	Associate Research Scientist, Department of Physiology and Cellular Biophysics, Columbia University Vagelos College of Physicians and Surgeons, New York, NY

Editorial Experience

2022 - Present	Editorial Board for <i>Journal of Cellular Physiology</i>
2021 - Present	Consulting Editorial Board for <i>American Journal of Physiology-Heart and Circulatory Physiology</i>
2021 - Present	Guest Editor for Special Issue "New Insights into Cardiac Ion Channel Regulation 2.0" in <i>International Journal of Molecular Sciences: Section: Molecular Biology</i> .
2020 - Present	Editorial Board for <i>Journal of Cardiovascular Pharmacology and Therapeutics</i>
2019 - Present	Topic Editor for Perturbations in Metabolic Cues: Implications for Adverse Cardiac Function Leading to Sudden Cardiac Death in <i>Frontiers in Physiology Cardiac Electrophysiology</i>
2018 - Present	Associate Editor for <i>Frontiers in Physiology Cardiac Electrophysiology</i>
2018 - 2019	Topic Editor for Arrhythmogenic Substrates in Diabetes and Obesity in <i>Frontiers in Physiology Cardiac Electrophysiology</i>
2017 - 2018	Review Editor/Guest Associate Editor for <i>Frontiers in Physiology Cardiac Electrophysiology</i>

Reviewer Experience

Ad-Hoc Reviewer for <i>BMC Developmental Biology</i>
Ad-Hoc Reviewer for <i>International Journal of Molecular Sciences</i>
Ad-Hoc Reviewer for <i>Journal of Molecular and Cellular Cardiology</i>
Ad-Hoc Reviewer for <i>Journal of Physiology</i>
Ad-Hoc Reviewer for <i>Cardiovascular Research</i>
Ad-Hoc Reviewer for <i>Journal of Biological Chemistry</i>
Ad-Hoc Reviewer for <i>Proceedings of the National Academy of Sciences</i>
Ad-Hoc Reviewer for <i>Heart Rhythm Journal</i>

SCHOLASTIC HONORS

2020	"Up-and-Coming" Junior Investigator Award, Cardiovascular Research Summit, Cardiovascular Research Center, University of Wisconsin–Madison, Madison, WI
2015	Poster Merit Award, Cardiac Arrhythmias, Gordon Research Conference, Lucca (Barga), Italy
2014 - 2017	Mentor/Mentee Award, Mentor: Dr. Gail Robertson, American Heart Association
2013 - 2014	Scholar, Program to Increase Diversity in Cardiovascular Health Related Research, National Institutes of Health
2006	Travel Award, Muscle: Excitation-Contraction Coupling, Gordon Research Conference, New London, NH
1996 - 2000	Ph.D. Studentship, British Pharmacological Society

ADMINISTRATIVE EXPERIENCE

Professional Organization & Scientific Activities

2022	Chair (Pending): AHA Cardiac Biology Basic Science #1 Fellowship Committee
2022	Chair: AHA TPA Cardiac Basic Sciences Committee

2022 Judge: Young Investigator Award competition of the Cardiac Electrophysiology Society, San Diego, CA

2022 Panelist: Cell-Cell Communication in Cardiovascular Disease, UC Davis Cardiovascular Symposium, Davis, CA

2022 Co-Chair: Muscle Electrophysiology II Platform, Biophysics Meeting, San Francisco, CA

2021 - Present Chair: AHA Cardiology 1- Cardiac Biology Basic Science Committee

2021 - Present Member, American Heart Association, Career Development Award Cardiac Biology Committee

2021 - Present Member, Center for Scientific Review, Peer Ad-Hoc, Basic Biology of Blood, Heart and Vasculature study section

2021 - Present Member, American Heart Association, Cardiac Electrophysiology (Fellowships Cardiac 4) Committee

2021 Member, Center for Scientific Review, Peer Ad-Hoc, Integrative Myocardial Physiology/Pathophysiology A study section

2021 Member, Special Review, Peer Ad-Hoc, Tobacco Regulatory Science study section

2020 - Present Member, Biophysical Society, Early Careers Committee

2020 Peer Reviewer, National Institutes of Health, Ad Hoc (ZRG1 CCHF-S (01))

2019 - Present Peer Reviewer, American Heart Association, Career Development Award Cardiac Basic Sciences 2 Committee

2018 - 2021 Peer Reviewer, American Heart Association, TPA Basic Sciences Committee

2018 - 2020 Peer Reviewer, National Institutes of Health, Ad Hoc (CCHF)

SERVICE AT PREVIOUS INSTITUTIONS

2019 - 2021 Chair, Masonic Medical Research Institute, Institutional Animal Care and Use Committee

2019 - 2021 Member, Masonic Medical Research Institute, Biosafety Committee

2019 - 2021 Member, Masonic Medical Research Institute, Compliance Committee

2017 - 2019 Member, Brooklyn VA Medical Center, Research Biosafety Committee

2017 - 2019 Member, Brooklyn VA Medical Center, Research Safety Subcommittee

2016 - 2019 Member, Brooklyn VA Medical Center, Institutional Animal Care and Use Committee

CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Heart Association
 Biophysical Society
 Heart Rhythm Society
 Cardiac Electrophysiology Society

FUNDING

Active Grants

01/01/22 – 6/30/23 NETF Grant
 Principal Investigator(s): Ademuyiwa Aromolaran
 CVRTI University of Utah

- 01/01/19 - 12/01/24 Role: Principal Investigator
 NHBLI-R25 Grant
 Principal Investigator(s): Mohamed Boutjdir PhD
 National Heart, Lung, and Blood Institute
 Role: Co-Investigator
- 01/01/19 - 12/01/23 NIH-R01 Grant
 Principal Investigator(s): Ademuyiwa Aromolaran
 National Heart, Lung, and Blood Institute
 Role: Principal Investigator

Pending Grants

- 07/01/23 - 06/30/27 NIH-R01 Grant (Study Section: MPPB) (Pending)
 Principal Investigator(s): Ademuyiwa Aromolaran
 National Heart, Lung, and Blood Institute
 Role: Principal Investigator
- 12/01/22 - 11/30/27 NHBLI-R25 Grant
 Principal Investigator(s): Sarah Franklin PhD
 National Heart, Lung, and Blood Institute
 Role: Co- Principal Investigator

Past Grants

- 01/01/13 - 12/01/18 National Center Research Program Scientist Development Grant
 Principal Investigator(s): Ademuyiwa S. Aromolaran
 American Heart Association
 Role: Principal Investigator
- 01/01/03 - 12/01/05 Postdoctoral Fellowship
 Principal Investigator(s): Ademuyiwa S. Aromolaran
 American Heart Association
 Role: Principal Investigator

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Course Lectures

- Spring Semesters Lecturer, Auditory Signals, Loyola University Chicago, Neuroscience
 2006-2010 Program, 1st year neuroscience and physiology graduate students
- Fall Semesters Lecturer, Membrane Excitability, Loyola University Chicago, Department of
 2005-2010 Physiology, 2nd year physiology graduate students; Topics include: counting
 channels and noise analysis, structure of membrane proteins, potassium and
 chloride channels
- Summer Semester Teaching Assistant, Pharmacology, St George's, University of London, Ion
 2000 Channel and Cell Signaling Centre, Basic Medical Sciences Division, 1st year
 medical students

Trainee Supervision

Faculty

- 2020 Mentor, Gary Aistrup, Masonic Medical Research Institute, Topic: Cardiac
 electrophysiology and metabolic disorders

Fellow

- 2021 – 2022 Mentor, Kamrul H Chowdhury, CVRTI, University of Utah, Topic: Molecular Mechanisms of metabolic disorder arrhythmias
- 2020 - 2021 Mentor, Joyce Bernardi, Masonic Medical Research Institute, Topic: Cardiac electrophysiology, inflammation and metabolic disorders
- 2016 Mentor, Ujala Srivastava, State University of New York Downstate Health Sciences University, Department of Cell Biology, Topic: Structure-function of Ca^v1.3 channels in heart failure
- 2015 Mentor, Zunaira Shuja, Columbia University, Department of Physiology, Topic: Structure function of calcium channels in heart
- 2015 Mentor, Aritz Gonzalez, Columbia University, Department of Physiology, Topic: Trafficking of KCNQ1-KCNE1 channel subunits
- 2006 Mentor, Rose Snopko, Loyola University Chicago, Department of Physiology, Topic: Neonatal cardiac electrophysiology

PhD/Doctorate

- 2022- Mentor, Andrea Corbin, University of Utah, Department of Biomedical Engineering, Nora Eccles Harrison Cardiovascular Training Institute (CVRTI), Sciences University, Topic: Arrhythmias of Obesity
- 2022- Mentor, Jade Bookwalter, University of Utah, Department of Biomedical Engineering, Nora Eccles Harrison Cardiovascular Training Institute (CVRTI), Sciences University, Topic: Cytokine proarrhythmic mechanisms in Metabolic Disorders
- 2018 Mentor, Alessandra Alí, State University of New York Downstate Health Sciences University, Department of Cell Biology, Topic: Ca_v1.2/Ca_v1.3 channel functions in heart failure
- 2016 - 2017 Mentor, Aparajita Bhattacharya, State University of New York Downstate Health Sciences University, Department of Cell Biology, Topic: Ca_v1.2/Ca_v1.3 channel functions in heart failure
- 2016 Mentor, Daniel Roybal, Columbia University, Department of Pharmacology, Topic: Electrophysiology of calcium channels (a^{1H}) in HEK293 cells
- 2016 Mentor, Aaron Owji, Columbia University, Department of Pharmacology, Topic: Molecular partners of Ca^v1.2 channels
- 2015 Mentor, Travis Morgenstern, Columbia University, Department of Pharmacology, Topic: Electrophysiology of calcium channels (a^{1B}) in HEK293 cells
- 2012 Mentor, Kei Saotome, Columbia University, Department of Biochemistry and Molecular Biophysics, Topic: Electrophysiology of a^{1D}+b⁴ in HEK293 cells
- 2011 - 2015 Mentor, Sihui Ma, Columbia University, Department of Pharmacology, Topic: Surface membrane delivery and removal of calcium channel subunits in HEK293 cells

- 2011 Mentor, Seth Robey, Columbia University, Department of Pharmacology, Topic: Electrophysiology of calcium channels (a^{1C}) in HEK293 cells
- 2010 - 2015 Mentor, Akil Puckerin, Columbia University, Department of Pharmacology, Topic: Molecular biology and electrophysiology of potassium and calcium channels
- 2010 - 2015 Mentor, Donald Chang, Columbia University, Department of Physiology and Cellular Biophysics, Topic: Electrophysiology and FRET imaging of potassium and calcium channels
- 2009 Mentor, Joshua Maxwell, Loyola University Chicago, Topic: Functional properties of IP₃-receptor channels reconstituted in lipid bilayer
- 2007 Mentor, Sara Hein, Loyola University Chicago, Biochemistry Program, Topic: Mechanotransduction
- 2004 Mentor, Elena Domínguez de Frutos, University of Valladolid, Spain, Topic: Developmental changes of the trigger Ca²⁺ waveform in freshly isolated myocytes from rat heart
- 2004 Mentor, Michael Russell, Notre Dame University, Topic: Hypoxia and agonist induced changes in intracellular Ca²⁺ in isolated vascular smooth muscle cells from the sealamprey
- 2003 Mentor, Haiyan Chen, Loyola University Chicago, Department of Physiology, Topic: Patch clamp electrophysiology
- 2003 Mentor, Nidhi Kapur, Loyola University Chicago, Department of Physiology, Topic: Endothelium intracellular calcium regulation by protein kinases
- 2002 Mentor, Fei Han, Loyola University Chicago, Department of Physiology, Topic: Regulation of cardiac alternans by β adrenergic stimulation

MD, PhD

- 2015 Mentor, Scott Kanner, Columbia University, Department of Physiology, Topic: Trafficking properties of calcium channel subunits

Other

- 2012 Mentor, Nicole Lanza, The Urban Assembly School for Criminal Justice for Young Women, Columbia University Medical School, Summer Science Teacher Research Program, Topic: Generation of adenovirus vectors coding for cardiac KCNE1-5 regulatory subunits

PEER-REVIEWED JOURNAL ARTICLES

1. Aromolaran KA, Do J, Bernardi J, **Aromolaran AS**. mTOR Modulation of *IKr* through hERG1b-Dependent Mechanisms in Lipotoxic Heart. *Int J Mol Sci*. 23(15).
2. **Aromolaran AS** (2021). Is there an emerging role for IKs in aging-related ventricular arrhythmias? *J Cell Physiol. Dec* 8. doi: 10.1002/jcp.30658.
3. Chowdhury KH, Martinez-Mateu L, Do J, Aromolaran KA, Saiz J, **Aromolaran AS** (2021). Macrophage-Dependent Interleukin-6-Production and Inhibition of *I_K* Contributes to Acquired QT Prolongation in Lipotoxic Guinea Pig Heart. *Int J Mol Sci*, 22(20).
4. Bernardi J, Aromolaran KA, Zhu H, **Aromolaran AS** (2021). Circadian Mechanisms: Cardiac Ion
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- Channel Remodeling and Arrhythmias. *Front Physiol*, 11, 611860.
5. Bernardi J, Aromolaran KA, **Aromolaran AS** (2020). Neurological Disorders and Risk of Arrhythmia. *Int J Mol Sci*, 22(1).
 6. **Aromolaran AS** (2019). Mechanisms of electrical remodeling in lipotoxic guinea pig heart. *Biochem Biophys Res Commun*, 519(3), 639-644.
 7. Martinez-Mateu L, Saiz J, **Aromolaran AS** (2019). Differential Modulation of *IK* and *ICa,L* Channels in High-Fat Diet-Induced Obese Guinea Pig Atria. *Front Physiol*, 10, 1212.
 8. Boutjdir M, **Aromolaran AS**, de Las Fuentes L, Boyington JEA, Arteaga SS, Jobe J, Jeffe DB, Rao DC, Rice TK, Davila-Roman VG (2019). Research Education and Mentoring Program in Cardiovascular Diseases for Under-Represented Junior Faculty From NHLBI SIPID/PRIDE. *J Am Coll Cardiol*, 73(14), 1861-1865.
 9. Alí A, Boutjdir M, **Aromolaran AS** (2019). Cardioliipotoxicity, Inflammation, and Arrhythmias: Role for Interleukin-6 Molecular Mechanisms. *Front Physiol*, 9, 1866.
 10. **Aromolaran AS**, Srivastava U, Alí A, Chahine M, Lazaro D, El-Sherif N, Capecchi PL, Laghi-Pasini F, Lazzarini PE, Boutjdir M (2018). Interleukin-6 inhibition of hERG underlies risk for acquired long QT in cardiac and systemic inflammation. *PLoS ONE*, 13(12), e0208321.
 11. **Aromolaran AS**, Chahine M, Boutjdir M (2018). Regulation of Cardiac Voltage-Gated Sodium Channel by Kinases: Roles of Protein Kinases A and C. *Handb Exp Pharmacol*, 246, 161-184.
 12. Lazzarini PE, Laghi-Pasini F, Bertolozzi I, Morozzi G, Lorenzini S, Simpatico A, Selvi E, Bacarelli MR, Finizola F, Vanni F, Lazaro D, **Aromolaran A**, El Sherif N, Boutjdir M, Capecchi PL (2017). Systemic inflammation as a novel QT-prolonging risk factor in patients with torsades de pointes. *Heart*, 103(22), 1821-1829.
 13. **Aromolaran AS**, Boutjdir M (2017). Cardiac Ion Channel Regulation in Obesity and the Metabolic Syndrome: Relevance to Long QT Syndrome and Atrial Fibrillation. *Front Physiol*, 8, 431.
 14. Srivastava U, **Aromolaran AS**, Fabris F, Lazaro D, Kassotis J, Qu Y, Boutjdir M (2017). Novel function of α_{1D} L-typecalcium channel in the atria. *Biochem Biophys Res Commun*, 482(4), 771-776.
 15. **Aromolaran AS**, Colecraft HM, Boutjdir M (2016). High-fat diet-dependent modulation of the delayed rectifier K(+) current in adult guinea pig atrial myocytes. *Biochem Biophys Res Commun*, 474(3), 554-559.
 16. Puckerin A, Aromolaran KA, Chang DD, Zukin RS, Colecraft HM, Boutjdir M, **Aromolaran AS** (2016). hERG 1a LQT2 C-terminus truncation mutants display hERG 1b-dependent dominant negative mechanisms. *Heart Rhythm*, 13(5), 1121-1130.
 17. **Aromolaran AS**, Subramanyam P, Chang DD, Kobertz WR, Colecraft HM (2014). LQT1 mutations in KCNQ1 C-terminus assembly domain suppress IKs using different mechanisms. *Cardiovasc Res*, 104(3), 501-11.
 18. Rong YP, Bultynck G, **Aromolaran AS**, Zhong F, Parys JB, De Smedt H, Mignery GA, Roderick HL, Bootman MD, Distelhorst CW (2009). The BH4 domain of Bcl-2 inhibits ER calcium release and apoptosis by binding the regulatory and coupling domain of the IP3 receptor. *Proc Natl Acad Sci U S A*, 106(34), 14397-402.
 19. Rong YP, **Aromolaran AS**, Bultynck G, Zhong F, Li X, McColl K, Matsuyama S, Herlitz S, Roderick HL, Bootman MD, Mignery GA, Parys JB, De Smedt H, Distelhorst CW (2008). Targeting Bcl-2-IP3 receptor interaction to reverse Bcl-2's inhibition of apoptotic calcium signals. *Mol Cell*, 31(2), 255-65.
 20. **Aromolaran AS**, Zima AV, Blatter LA (2007). Role of glycolytically generated ATP for CaMKII-mediated regulation of intracellular Ca²⁺ signaling in bovine vascular endothelial cells. *Am J Physiol Cell Physiol*, 293(1), C106-18.

21. Snopko RM, **Aromolaran AS**, Karko KL, Ramos-Franco J, Blatter LA, Mejía-Alvarez R (2007). Cell culture modifies Ca²⁺ signaling during excitation-contraction coupling in neonate cardiac myocytes. *Cell Calcium*, 41(1), 13-25.
22. **Aromolaran AA**, Blatter LA (2005). Modulation of intracellular Ca²⁺ release and capacitative Ca²⁺ entry by CaMKII inhibitors in bovine vascular endothelial cells. *Am J Physiol Cell Physiol*, 289(6), C1426-36.
23. Albert AP, **Aromolaran AS**, Large WA (2001). Agents that increase tyrosine phosphorylation activate a non-selective cation current in single rabbit portal vein smooth muscle cells. *J Physiol*, 530(Pt 2), 207-17.
24. **Aromolaran AS**, Albert AP, Large WA (2000). Evidence for myosin light chain kinase mediating noradrenaline-evoked cation current in rabbit portal vein myocytes. *J Physiol*, 524 Pt 3, 853-63.
25. **Aromolaran AS**, Large WA (1999). Comparison of the effects of divalent cations on the noradrenaline-evoked cation current in rabbit portal vein smooth muscle cells. *J Physiol*, 520 Pt 3, 771-82.

ADDITIONAL PUBLICATIONS

Editorials

1. Delisle BP, **Aromolaran AS**. (2021). Editorial: Perturbations in Metabolic Cues: Implications for Adverse Cardiac Function Leading to Sudden Cardiac Death. *Front Physiol*. 12, doi: 10.3389/fphys.2021.788904. PMID: 34867488; PMCID: PMC8634259
2. Morrow JP, Akar FG, **Aromolaran AS** (2019). Editorial: Arrhythmogenic Substrates in Diabetes and Obesity. *Front Physiol*, 10, 549.

ORAL PRESENTATIONS

Meeting Presentations

International

- 2019 **Aromolaran A**. Potassium Channel Regulation in Lipotoxic Heart. Invited Speaker. The Ion Channel Regulation Conference: Molecules to Disease, Federation of American Societies for Experimental Biology, Lisbon, Portugal
- 2019 **Aromolaran A**. Unraveling Mechanisms of Obese Heart. Invited Speaker. Cardiac Arrhythmia Mechanisms, Gordon Research Conference, Lucca (Barga), Italy
- 2015 Puckerin A, Chang DD, Colecraft HM, **Aromolaran AS**. Distinct Biophysical Mechanisms of HERG1 C-termini (LQT2) Truncation Mutations on Hetero-tetrameric HERG1A-HERG1B Channel Complexes. Cardiac Arrhythmia Mechanisms: The Surprising Heart: A Hetero-Cellular, Multi-Physics, and Inter-Disciplinary Challenge, Gordon Research Conference, Lucca (Barga), Italy

National

- 2022 **Aromolaran AS**. Circadian Mechanisms: Cardiac Ion Channel Remodeling and Arrhythmias (Pending). Invited Speaker. Circadian Mechanisms and Cardiac Arrhythmias, Heart Rhythm Society Meeting, San Francisco, CA
- 2022 Chowdhury KH, Aromolaran KA, Do J, **Aromolaran AS**. Regulation of hERG1a/1b Channels Through the mTOR Complex 1 Signaling Pathway in Lipotoxic Heart. Selected Speaker. Muscle Electrophysiology II

- Platform, Biophysics Meeting, San Francisco, CA
- 2020 **Aromolaran A.** Arrhythmias of Obesity. Invited Speaker. Cardiovascular Research Summit, Cardiovascular Research Center, University of Wisconsin-Madison, Madison, WI
- 2020 Martinez-Mateu L, Leduc C, Zhang X, Cole L, Sun X, Shen Y, Leibel R, Saiz J, **Aromolaran AS.** Dynamic Regulation of K and Ca Currents in Lipotoxic Supraventricular Arrhythmias. Selected Speaker. Cardiac Electrophysiology Platform, Biophysics Meeting, San Diego, CA
- 2018 Srivastava U, Bhattacharya A, Boutjdir M, **Aromolaran AS.** Mechanisms of Atrial Electrical Remodeling in Obese Heart. Selected Speaker. Cardiac Electrophysiology Platform, Biophysics Meeting, San Francisco, CA
- 2017 Srivastava U, Bhattacharya A, Fabris F, Boutjdir M, **Aromolaran AS.** K Channel Regulation in Heart: Relevance to Long QT Syndrome and Atrial Fibrillation. Invited Speaker. National Research Week, The Department of Veterans Affairs New York Harbor Healthcare System, New York City, NY
- 2015 Puckerin A, Chang DD, Subramanyam P, Colecraft HM, **Aromolaran AS.** Trafficking and Gating Mechanisms of HERG1A C-Terminus (LQTS-2) Truncation Mutations on HERG1A-HERG1B Hetero-Multimeric Channel. Selected Speaker. Cardiac, Smooth & Skeletal Electrophysiology Platform, Biophysics Meeting, Baltimore, MD
- 2013 **Aromolaran A,** Kobertz WR, Colecraft HM. Differential Impact of Distinct Long QT Syndrome-1 (LQTS-1) C-Terminus Mutations on KCNQ1-KCNE1 Channel Trafficking and Gating. Selected Speaker. Cardiac, Smooth & Skeletal Electrophysiology Platform, Biophysics Meeting, Philadelphia, PA
- 2012 **Aromolaran A,** Kobertz WR, Colecraft HM. Illuminating Trafficking of KCNQ1/KCNE1 Channels in Heart. Gordon-Merck Research Seminar (Ion Channels): Excitable Cells and Electrical Signaling, Massachusetts, MA
- 2012 **Aromolaran A,** Kobertz WR, Colecraft HM. Illuminating Trafficking of KCNQ1/KCNE1 Channels in Heart. Selected Speaker. Cardiac Electrophysiology Platform, Biophysics Meeting, San Diego, CA

Invited/Visiting Professor Presentations

Local/Regional

- 2023 **Aromolaran A.** Invited Speaker (Pending). Department of Nutrition and Integrative Physiology University of Utah, Salt Lake City, UT
- 2022 **Aromolaran A.** Invited Speaker (Pending). Department of Physiology Seminar Series, Eastern Virginia School of Medicine, Norfolk, VA
- 2022 **Aromolaran A.** Invited Speaker (Pending). UCLA Cardiac Arrhythmia Center & EP Programs Seminar Series, UCLA Health System 100 UCLA Medical Plaza, LA, CA
- 2022 **Aromolaran A.** Acquired Arrhythmias in Metabolic Disorders. Invited Speaker (Pending). Department of Pharmacology, 2021-2022 UC Davis, Frontiers in Pharmacology Seminar Series, University of California, Davis, Davis CA.
- 2022 **Aromolaran A.** Insights into the Cellular Proarrhythmic Mechanisms of the Delayed Rectifier K Channels. Invited Speaker. College of Agriculture and Applied Sciences, Utah State University, Logan, Utah

- 2022 **Aromolaran A.** The Excitement About Delayed Rectifier K Channel Signaling in Heart. Invited Speaker. Biomedical Engineering Seminar Series, Department of Biomedical Engineering, University of Utah, Salt Lake City, Utah,
- 2021 **Aromolaran A.** Role for Inflammatory Mechanisms in Acquired Ventricular Arrhythmias. Invited Speaker. Department of Pharmacology, University of Michigan, Ann Arbor, MI
- 2020 **Aromolaran A.** Illuminating Mechanisms of Cardiac Arrhythmias: Focus on LQT and AF. Invited Speaker. Department of Pharmacology, State University of New York Upstate Medical University, Syracuse, NY
- 2020 **Aromolaran A.** Molecular Pathways of Arrhythmias. Invited Speaker. Department of Physiology and Biophysics, Medical College of Virginia School of Medicine, Richmond, VA
- 2019 **Aromolaran A.** Arrhythmia Mechanisms: Role for Potassium Channels. Invited Speaker. Department of Physiology, University of Kentucky, Lexington, KY
- 2019 **Aromolaran A.** Coupling of Metabolic Disorders and Arrhythmias: Role for Lipotoxicity and Potassium Channels. Invited Speaker. Masonic Medical Research Institute, Utica, NY
- 2018 **Aromolaran A.** Illuminating the regulation of K channels in arrhythmias. Special Lecture Invited Speaker. Lillehei Heart Institute Lecture Series, University of Minnesota, Minneapolis, MN
- 2015 **Aromolaran A.** Mechanisms of Long QT Syndrome-1 Mutations in Heart. Department of Neuroscience and Cardiovascular Research Center, University of Wisconsin-Madison, Madison, WI