

Nipavan Chiamvimonvat, M.D.

Clinical Interests	Nipavan Chiamvimonvat completed a two-year clinical cardiac arrhythmia fellowship at the University of Calgary and was also a research fellow at Johns Hopkins University from 1993 to 1997. Her clinical activities include attending for pacemaker and defibrillator clinics, coronary care unit service, and consult service. Chiamvimonvat's research goal is to understand the cellular and molecular mechanisms contributing to cardiac arrhythmias and sudden cardiac death in patients with cardiac hypertrophy and failure. She is working to develop a multidisciplinary research initiative in cardiovascular biology, which will include emphasis on fundamental mechanisms in cardiac arrhythmias and cardiac ion channelopathy.
Title	Professor, Roger Tatarian Endowed Professor of Cardiovascular Medicine
Specialty	Cardiology , Cardiovascular Medicine , Internal Medicine
Department	Internal Medicine
Division	Cardiovascular Medicine
Center/Program Affiliation	Cardiovascular Services
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Additional Phone	Phone: 916-734-5678
Education	M.D., University of Toronto, Toronto, Ontario, 1984
Internships	University of Toronto, Toronto, Ontario, 1985
Residency	University of Toronto, Toronto, Ontario, 1987
Fellowships	University of Calgary, Calgary, Alberta, 1991 University of Western Ontario, Toronto, Ontario, 1989
Board Certifications	American Board of Internal Medicine, 1988 American Board of Internal Medicine, Cardiovascular Medicine, 1989
Professional Memberships	Ad hoc member, Peer Review Committee, CVA Study Section, National Institutes of Health

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Member, Peer Review Committee, ESTA Study Section, National Institutes of Health
American Association for the Advancement of Science
Basic Science Council, American Heart Association
Biophysical Society
Cardiac Electrophysiology Society
Editorial Board, Circulation Research
Fellow of the American Heart Association
North American Society of Pacing and Electrophysiology
Peer Review Committee, CV Pathophysiology Study Group 1, American Heart Association, National Center
Peer Review Committee, Ohio Valley Affiliate, American Heart Association
Reviewer for Cardiovascular Research, Circulation Research, Journal of Molecular and Cellular Cardiology, American Journal of Physiology, Journal of American College of Cardiology
Society of General Physiologists
Special Emphasis Panel, ECS Study Section, National Institutes of Health

Honors and Awards

Dean's Excellence in Mentoring Award, 2011
Loyola University, Chicago, Department of Physiology Title: Molecular identification of a calcium-activated potassium channel in human and mouse heart, 2003
Ohio State University, Columbus, Ohio, Department of Physiology and Cell Biology Title: Characterization of a novel calcium-activated potassium channel in human and mouse heart, 2003

Select Recent Publications

Awasthi S, Matthews DL, Li RA, Chiamvimonvat N, Lieu DK, Chan JW. Label-free identification and characterization of human pluripotent stem cell-derived cardiomyocytes using second harmonic generation (SHG) microscopy. *J Biophotonics*. 2012 Jan;5(1):57-66.

Sirish P, Lopez JE, Li N, Wong A, Timofeyev V, Young JN, Majdi M, Chen H-SV, Chiamvimonvat N. MicroRNA profiling predicts a variance in the proliferative potential of cardiac progenitor cells derived from neonatal and adult murine hearts. *J Mol Cell Cardiol*. 2012; 52(1):264-272.

Liu JY, Qiu H, Morisseau C, Hwang SH, Tsai HJ, Ulu A, Chiamvimonvat N, Hammock BD. Inhibition of soluble epoxide hydrolase contributes to the anti-inflammatory effect of antimicrobial triclocarban in a murine model. *Toxicol Appl Pharmacol*. 2011;255(2):200-206.

Puglisi JL, Yuan W, Timofeyev V, Myers RE, Chiamvimonvat N, Samarel AM, Bers DM. Phorbol Ester and Endothelin-1 alter Functional Expression of Na/Ca²⁺ Exchange, K and Ca²⁺ Currents in Cultured Neonatal Rat Myocytes. *Am J Physiol Heart Circ Physiol*. 2011;300:H617-626. PMID: PMC3044063.

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- Zhang Q, Timofeyev V, Qiu H, Lu L, Li N, Singapuri A, Torado CL, Shin HS, Chiamvimonvat N. Expression and roles of Cav1.3 (?1D) L-Type Ca² Channel in atrioventricular node automaticity. *J Mol Cell Cardiol.* 2011;50:194-202.
- Fu JD, Rushing SN, Lieu DK, Chan CW, Kong CW, Geng L, Wilson KD, Chiamvimonvat N, Boheler KR, Wu JC, Keller G, Hajjar RJ, Li RA. Distinct roles of microRNA-1 and -499 in ventricular specification and functional maturation of human embryonic stem cell-derived cardiomyocytes. *PloS One.* 2011; 6(11);e27417.
- Li N, Liu JY, Qiu H, Harris TR, Sirish P, Hammock BD, Chiamvimonvat N. Use of metabolomic profiling in the study of arachidonic acid metabolism in cardiovascular disease. *Congest Heart Fail.* 2011;17(1):42-46. PMID: PMC2947894
- Liu JY, Li N, Yang J, Qiu H, Ai D, Chiamvimonvat N, Zhu Y, Hammock BD. Metabolic profiling of murine plasma reveals an unexpected biomarker in rofecoxib-mediated cardiovascular events. *Proc Natl Acad Sci U S A.* 2010;107:17017-17022.
- Timofeyev V, Porter CA, Tuteja D, Qiu H, Li N, Tang T, Singapuri A, Han PL, Lopez JE, Hammond HK, Chiamvimonvat N. Disruption of adenylyl cyclase type V does not rescue the phenotype of cardiac-specific overexpression of G_βq protein-induced cardiomyopathy. *Am J Physiol Heart Circ Physiol.* 2010;299:H1459-1467.
- Tuteja D, Rafizadeh S, Timofeyev V, Wang S, Zhang Z, Li N, Mateo RK, Singapuri A, Young JN, Knowlton AA, Chiamvimonvat N. Cardiac small conductance Ca²-activated K channel subunits form heteromultimers via the coiled-coil domains in the C termini of the channels. *Circ Res.* 2010; 107:851-859.

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