



## Anne A. Knowlton, M.D.

<b>Clinical Interests</b>	Anne A. Knowlton specializes in cardiology, with particular interests in atrial fibrillation and heart failure. She graduated from Harvard University magna cum laude with a degree in biology. After earning her medical degree from Yale University and doing her internship and residency training at Boston City Hospital, Dr. Knowlton completed a cardiology fellowship at Boston University Medical Center. She was honored with a National Research Award as a postdoctoral fellow at the Cardiovascular Institute at Boston University School of Medicine from 1984 to 1986. Knowlton has research interests in heat shock protein, apoptosis, heart failure, estrogen and aging. She has written numerous papers and several book chapters on topics related to cardiovascular medicine and serves on the editorial board of the Journal of Heart Disease and Open Autoimmunity.
<b>Title</b>	Professor
<b>Specialty</b>	<a href="#">Cardiology</a> , <a href="#">Cardiovascular Medicine</a> , Internal Medicine
<b>Department</b>	Internal Medicine
<b>Division</b>	Cardiovascular Medicine
<b>Center/Program Affiliation</b>	<a href="#">Cardiovascular Services</a>
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<b>Education</b>	M.D., Yale University, New Haven, Connecticut, 1979 A.B., Harvard University, Boston, Massachusetts, 1974
<b>Internships</b>	Boston City Hospital, Boston, Massachusetts, 1979
<b>Residency</b>	Boston City Hospital, Boston, Massachusetts, 1980-82
<b>Fellowships</b>	Boston University Medical Center, Boston, Massachusetts, 1982-84
<b>Board Certifications</b>	American Board of Internal Medicine, 1984 American Board of Internal Medicine, Cardiology, 1987
<b>Professional Memberships</b>	American Heart Association, Fellow American Physiological Society, Fellow Council on Basic Science, AHA Fellow, American College of Cardiology



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International Society for Heart Research

### Honors and Awards

Vice Chancellor's Faculty Award for Excellence and Achievement, University of California, Davis, 2007

Patient Service Award, VA Medical Center, 2000

### Select Recent Publications

Despa, S., K. B. Margulies, L. Chen, A.A. Knowlton, P. J. Havel, H. Taegtmeier, D. M. Bers, and F. Despa, Hyperamylinemia contributes to cardiac dysfunction in obesity and diabetes - a study in humans and rats. *Circ. Res.* 2012;110(4):598-608

Stice, J.P., F.N. Mbai, L. Chen and A. A. Knowlton , Rapid Activation of Nuclear Factor- $\kappa$ B by 17 $\beta$ -Estradiol and Selective Estrogen Receptor Modulators: Pathways Mediating Cellular Protection. *Shock*, 2012; 38(2):128-136

Juhasz, B., S. Mukherjee, R. Gesztelyi, I. Lekli, U. Raychoudhury, J. Bardhan, S. Banerji, A.A. Knowlton, D. K Das, Vitamin E Isomers Tocotrienols Confer Resistance to Ischemic Injury in Hypercholesterolemic Hearts. *Mol Cell Biochem.* 2012; 360 (1-2):35-45

Kobba, S., S.C. Kim, L. Chen, E. J. Kim, A. L. Tran, P. Knuefermann, and A.A. Knowlton. The Heat Shock Paradox and Cardiac Myocytes: Role of Heat Shock Factor. *Shock*, 2011; 35(5):478-484

Stice, J.P., L. Chen, S.C. Kim, J.S. Jung, A. L. Tran, T. T. Liu and A.A. Knowlton. 17 $\beta$ -Estradiol, Aging, Inflammation and the Stress Response in the Female Heart. *Endocrinology*, 2011;152:1589-98

Gower, R. M., Wu, H., Devaraj, S., Jialal, I., Ballantyne, C.M., Knowlton, A.A., S. I. Simon. CD11c/CD18 expression is upregulated on blood monocytes during hypertriglyceridemia and enhances adhesion to VCAM. *Atherosclerosis and Vascular Biology*, 2011; 31:160-6

A.S. Pechenino, L. Lin, F. N. Mbai, A. R. Lee, X. M. He, J. N. Stallone and A. A. Knowlton. Impact of Aging vs. Estrogen Loss on Cardiac Gene Expression: Late Estrogen Replacement and Inflammation. *Physiologic Genomics*, 2011; 43:1065-1073

Filosto S, Fry W, Bardet K, Knowlton A.A., T. Goldkorn. Neutral sphingomyelinase 2 (NSMASE2) is a phosphoprotein regulated by calcineurin (PP2B). *J. Biol. Chem.* 2010;285:10213-22

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 Ca<sup>2+</sup>-Activated K Channel Subunits Form Heteromultimers via the Coiled-Coil Domains in the C Termini of the Channels. *Circ Res.* 2010;107:851-9

Wang, Y., L. Chen, N. Hagiwara, and A. A. Knowlton. Regulation of Heat Shock Protein (HSP) 60 and 72 Expression in the Failing Heart. *J. Mol. Cell. Cardiol.* 2010;48:360-366



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