

Publications for Helge Rasmussen

2017

Bundgaard, H., Axelsson, A., Thomsen, J., Sorgaard, M., Kofoed, K., Hasselbalch, R., Fry, N., Valeur, N., Boesgaard, S., Gustafsson, F., Rasmussen, H., et al (2017). The first-in-man randomized trial of a beta3 adrenoceptor agonist in chronic heart failure: the BEAT-HF trial. *European Journal of Heart Failure*, 19(4), 566-575. [More Information]

2016

Garcia, A., Liu, C., Cornelius, F., Clarke, R., Rasmussen, H. (2016). Glutathionylation-dependence of Na⁺-K⁺-pump currents can mimic reduced subsarcolemmal Na⁺ diffusion. *Biophysical Journal*, 110(5), 1099-1109. [More Information]

Huang, A., Murphy, J., Shaw, E., Kozor, R., Yan, W., Loxton, A., Soo Hoo, S., Figtree, G., Rasmussen, H., Hansen, P., Nelson, G., Bhindi, R., Ward, M. (2016). Routine aspiration thrombectomy improves the diagnosis and management of embolic myocardial infarction. *Catheterization and cardiovascular interventions*, 87(4), 642-647. [More Information]

Liu, C., Teh, R., Mozar, C., Baxter, R., Rasmussen, H. (2016). Silencing overexpression of FXRD3 protein in breast cancer cells amplifies effects of doxorubicin and γ -radiation on Na⁺/K⁺-ATPase and cell survival. *Breast Cancer Research and Treatment*, 155(2), 203-213. [More Information]

2015

Karimigalougahi, K., Liu, C., Garcia, A., Fry, N., Hamilton, E., Figtree, G., Rasmussen, H. (2015). Beta3-Adrenoceptor activation relieves oxidative inhibition of the cardiac Na⁺-K⁺ pump in hyperglycemia induced by insulin receptor blockade. *American Journal of Physiology: Cell Physiology*, 309(5), C286-C295. [More Information]

Garcia, A., Eljack, N., Sani, M., Separovic, F., Rasmussen, H., Kopec, W., Khandelia, H., Cornelius, F., Clarke, R. (2015). Membrane accessibility of glutathione. *Biochimica et Biophysica Acta - Biomembranes*, 1848 (10 (Part A)), 2430-2436. [More Information]

Cockburn, J., Karimi, K., Hoo, S., Rasmussen, H., Hansen, P., Nelson, G., Ward, M., Bhindi, R., Figtree, G. (2015). Outcomes by Day and Night for Patients Bypassing the Emergency Department Presenting with ST-Segment Elevation Myocardial Infarction Identified with a Pre-Hospital Electrocardiogram. *Journal of Interventional Cardiology*, 28(1), 24-31. [More Information]

Chia, K., Liu, C., Hamilton, E., Garcia, A., Fry, N., Hannam, W., Figtree, G., Rasmussen, H. (2015). Stimulation of the cardiac myocyte Na⁺-K⁺ pump due to reversal of its

constitutive oxidative inhibition. *American Journal of Physiology: Cell Physiology*, 309(4), C239-C250. [More Information]

2014

Karimigalougahi, K., Liu, C., Gentile, C., Kok, C., Nunez, A., Garcia, A., Fry, N., Davies, M., Hawkins, C., Rasmussen, H., Figtree, G. (2014). Glutathionylation Mediates Angiotensin II-Induced eNOS Uncoupling, Amplifying NADPH Oxidase-Dependent Endothelial Dysfunction. *Journal of the American Heart Association*, 3(2), 1-11. [More Information]

Mares, J., Garcia, A., Rasmussen, H., Cornelius, F., Mahmoud, Y., Berlin, J., Lev, B., Allen, T., Clarke, R. (2014). Identification of Electric-Field-Dependent Steps in the Na⁺,K⁺-Pump Cycle. *Biophysical Journal*, 107(6), 1352-1363. [More Information]

2013

Garcia, A., Fry, N., Karimi, K., Liu, C., Apell, H., Rasmussen, H., Clarke, R. (2013). Extracellular allosteric Na⁺ binding to the Na⁺, K⁺-ATPase in cardiac myocytes. *Biophysical Journal*, 105(12), 2695-2705. [More Information]

McMahon, R., Siow, W., Bhindi, R., Hoo, S., Figtree, G., Hansen, P., Nelson, G., Rasmussen, H., Ward, M. (2013). Left bundle branch block without concordant ST changes is rarely associated with acute coronary occlusion. *International Journal of Cardiology*, 167(4), 1339-1342. [More Information]

Figtree, G., Rasmussen, H., Liu, C. (2013). Oxidative regulation of the na⁺-k⁺ pump in cardiac physiology and pathology: clarifying the published evidence. *Circulation Research*, 112(1), e1-e1. [More Information]

Karimigalougahi, K., Liu, C., Garcia, A., Fry, N., Hamilton, E., Rasmussen, H., Figtree, G. (2013). Protein kinase-dependent oxidative regulation of the cardiac Na⁺-K⁺ pump: evidence from in vivo and in vitro modulation of cell signalling. *Journal of Physiology*, 591(12), 2999-3015. [More Information]

Clarke, R., Catauro, M., Rasmussen, H., Apell, H. (2013). Quantitative calculation of the role of the Na⁺,K⁺-ATPase in thermogenesis. *Biochimica et Biophysica Acta*, 1827 (10), 1205-1212. [More Information]

Liu, C., Fry, N., Hamilton, E., Chia, K., Garcia, A., Karimigalougahi, K., Figtree, G., Clarke, R., Bundgaard, H., Rasmussen, H. (2013). Redox-dependent regulation of the Na⁺-K⁺ pump: New twists to an old target for treatment of heart

failure. *Journal of Molecular and Cellular Cardiology*, 61, 94-101. [More Information]

2012

Karimigalougahi, K., Liu, C., Bundgaard, H., Rasmussen, H. (2012). Beta-Adrenergic Regulation of the Cardiac Na⁺-K⁺-ATPase Mediated by Oxidative Signaling. *Trends In Cardiovascular Medicine*, 22(4), 83-87. [More Information]

Garcia, A., Rasmussen, H., Apell, H., Clarke, R. (2012). Kinetic comparisons of heart and kidney Na⁺, K⁺ -ATPases. *Biophysical Journal*, 103(4), 677-688. [More Information]

Figtree, G., Karimigalougahi, K., Liu, C., Rasmussen, H. (2012). Oxidative regulation of the Na⁺ -K⁺ pump in the cardiovascular system. *Free Radical Biology and Medicine*, 53(12), 2263-2268. [More Information]

Murphy, J., Kozor, R., Figtree, G., Hansen, P., Rasmussen, H., Ward, M., Nelson, G., Bhindi, R. (2012). Procedural and in-patient outcomes in patients aged 80 years or older undergoing contemporary primary percutaneous coronary intervention. *EuroIntervention*, 8(8), 912-919. [More Information]

Liu, C., Garcia, A., Mahmmoud, Y., Hamilton, E., Galougahi, K., Fry, N., Figtree, G., Cornelius, F., Clarke, R., Rasmussen, H. (2012). Susceptibility of β 1 Na⁺ -K⁺ pump subunit to glutathionylation and oxidative inhibition depends on conformational state of pump. *Journal of Biological Chemistry*, 287(15), 12353-12364. [More Information]

2011

Hamilton, E., Figtree, G., Rasmussen, H. (2011). Consideration of natriuretic peptide receptor C. *Circulation Research*, 108(4), e4-e5. [More Information]

Bibert, S., Liu, C., Figtree, G., Garcia, A., Hamilton, E., Marassi, F., Sweadner, K., Cornelius, F., Geering, K., Rasmussen, H. (2011). FXYD Proteins Reverse Inhibition of the Na⁺-K⁺ Pump Mediated by Glutathionylation of Its beta 1 Subunit. *Journal of Biological Chemistry*, 286(21), 18562-18572. [More Information]

2010

White, C., Liu, C., Garcia, A., Hamilton, E., Chia, K., Figtree, G., Rasmussen, H. (2010). Activation of cAMP-dependent signaling induces oxidative modification of the cardiac Na⁺-K⁺ pump and inhibits its activity. *Journal of Biological Chemistry*, 285(18), 13712-13720. [More Information]

Rasmussen, H., Liu, C., Figtree, G. (2010). Reversible oxidative modification: implications for cardiovascular physiology and pathophysiology. *Trends In Cardiovascular Medicine*, 20(3), 85-90. [More Information]

Bundgaard, H., Liu, C., Garcia, A., Hamilton, E., Huang, Y., Chia, K., Hunyor, S., Figtree, G., Rasmussen, H. (2010). β 3 Adrenergic Stimulation of the Cardiac Na⁺-K⁺ Pump by Reversal of an Inhibitory Oxidative Modification. *Circulation*, 122, 2699-2708. [More Information]

2009

White, C., Figtree, G., Liu, C., Garcia, A., Hamilton, E., Chia, K., Rasmussen, H. (2009). Angiotensin II inhibits the Na⁺-K⁺ pump via PKC-dependent activation of NADPH oxidase. *American Journal of Physiology: Cell Physiology*, 296(4), C693-C700. [More Information]

Figtree, G., Liu, C., Bibert, S., Hamilton, E., Garcia, A., White, C., Chia, K., Cornelius, F., Geering, K., Rasmussen, H. (2009). Reversible oxidative modification: A key mechanism of Na⁺-K⁺ + pump regulation. *Circulation Research*, 105(2), 185-193. [More Information]

Rasmussen, H., Figtree, G., Krum, H., Bundgaard, H. (2009). The use of beta3-adrenergic receptor agonists in the treatment of heart failure. *Current Opinion in Investigational Drugs (Print)*, 10(9), 955-962. [More Information]

2008

William, M., Hamilton, E., Bundgaard, H., Garcia, A., Chia, K., Figtree, G., Rasmussen, H. (2008). Natriuretic peptides stimulate the cardiac sodium pump via NPR-C coupled NOS activation. *American Journal of Physiology: Cell Physiology*, 294(4), C1067-C1073. [More Information]

White, C., Hamilton, E., Garcia, A., Wang, D., Chia, K., Figtree, G., Rasmussen, H. (2008). Opposing effects of coupled and uncoupled NOS activity on the Na⁺-K⁺ pump in cardiac myocytes. *American Journal of Physiology: Cell Physiology*, 294, C572-C578. [More Information]

2007

Rasmussen, H., Figtree, G. (2007). "Don't flog the heart!" - development of specific drug therapies for heart failure. *Critical Care and Resuscitation*, 9(4), 364-369. [More Information]

Hansen, P., Clarke, R., Buhagiar, K., Hamilton, E., Garcia, A., White, C., Rasmussen, H. (2007). Alloxan-induced diabetes reduces sarcolemmal Na⁺-K⁺ pump function in rabbit ventricular myocytes. *American Journal of Physiology: Cell Physiology*, 292, C1070-C1077. [More Information]

Carstensen, S., Nelson, G., Hansen, P., Macken, L., Irons, S., Flynn, M., Kovoov, P., Soo Hoo, S., Ward, M., Rasmussen, H. (2007). Field triage to primary angioplasty combined with emergency department bypass reduces treatment delays and is

associated with improved outcome. *European Heart Journal*, 28(19), 2313-2319. [More Information]

2006

Hansen, P., Clarke, R., Buhagiar, K., Hamilton, E., Garcia, A., White, C., Rasmussen, H. (2006). Alloxan-induced diabetes reduces sarcolemmal Na⁺-K⁺ pump function in rabbit ventricular myocytes. *American Journal of Physiology: Cell Physiology*, 292(3), C1070-C1077. [More Information]

Abdulla, I., Kay, S., Mussap, C., Nelson, G., Rasmussen, H., Hansen, P., Ward, M. (2006). Apical sparing in tako-tsubo cardiomyopathy. *Internal Medicine Journal*, 36(7), 414-418. [More Information]

White, C., Hamilton, E., Garcia, A., Rasmussen, H. (2006). PKA inhibits the Na⁺-K⁺ pump in cardiac myocytes via superoxide. *30th Annual Meeting of the Australasian Section of the International Society of Heart Research (ISHR)*, United Kingdom: Academic Press.

2005

Hamilton, E., Garcia, A., William, M., White, C., Franzin, C., Marassi, F., Rasmussen, H. (2005). Phospholemman enhances the sensitivity of the rabbit ventricular myocyte Na⁺-K⁺ pump to intracellular Na⁺. *Biophysical Society 49th Annual Meeting*, Bethesda, MD: Biophysical Society.

William, M., Vien, J., Hamilton, E., Garcia, A., Bundgaard, H., Clarke, R., Rasmussen, H. (2005). The nitric oxide donor sodium nitroprusside stimulates the Na⁺-K⁺ pump in isolated rabbit cardiac myocytes. *Journal of Physiology*, 565.3(3), 815-825. [More Information]

Lozzi, L., Carstensen, S., Rasmussen, H., Nelson, G. (2005). Why do acute myocardial infarction patients not call an ambulance? An interview with patients presenting to hospital with acute myocardial infarction symptoms. *Internal Medicine Journal*, 35(11), 668-671. [More Information]

2004

Buhagiar, K., Hansen, P., Kong, B., Clarke, R., Fernandes, C., Rasmussen, H. (2004). Dietary Cholesterol Alters Na⁺/K⁺ Selectivity At Intracellular Na⁺/K⁺ Pump Sites In Cardiac Myocytes. *American Journal of Physiology: Cell Physiology*, 286(2), C398-C405.

2003

Pitt, A., Fernandes, C., Bewick, N., Hemsworth, P., Buhagiar, K., Hansen, P., Rasmussen, H., Delbridge, L., Whalley, D. (2003). Chronic amiodarone-induced inhibition of the Na⁺ -K⁺ pump in rabbit cardiac myocytes is thyroid-dependent: comparison with dronedarone. *Cardiovascular Research*, 57(1), 101-108. [More Information]

2002

Hansen, P., Buhagiar, K., Kong, B., Clarke, R., Gray, D., Rasmussen, H. (2002). Dependence of Na⁺-K⁺ pump current-voltage relationship on intracellular Na⁺, K⁺, and Cs⁺ in rabbit cardiac myocytes. *American Journal of Physiology: Cell*

Physiology, 283(5), 1511-1521.

Hanratty, C., Koyama, Y., Rasmussen, H., Hansen, P., Nelson, G., Ward, M. (2002). Exaggeration of Nonculprit Stenosis Severity During Acute Myocardial Infarction: Implications for Immediate Multivessel Revascularization. *Journal of the American College of Cardiology*, 40(5), 911-916. [More Information]

Koyama, Y., Hansen, P., Hanratty, C., Nelson, G., Rasmussen, H. (2002). Prevalance of Coronary Occlusion and Outcome of an Immediate Invasive Strategy in Suspected Acute Myocardial Infarction with and without ST-Segment Elevation. *American Journal of Cardiology*, 90(6), 579-584.

2001

Mardini, M., Rasmussen, H., Mihailidou, A., Wong, A. (2001). Cyclosporine and FK506 differentially regulate the sarcolemmal Na⁺-K⁺ pump. *Journal of Pharmacology and Experimental Therapeutics*, 297, 804-810.

Buhagiar, K., Hansen, P., Rasmussen, H., Bewick, N. (2001). Protein kinase C-omega contributes to regulation of the sarcolemmal Na⁺-K⁺ pump. *American Journal of Physiology: Cell Physiology*, 50.

Rasmussen, H., Hansen, P., Koyama, Y., Adelstein, B., O'Connell, A., Nelson, G. (2001). Trial of a trial by media. *Medical Journal of Australia*, 175, 625-628.

2000

Mihailidou, A., Bundgaard, H., Mardini, M., Hansen, P., Kjeldsen, H., Rasmussen, H. (2000). Hyperaldosteronemia in rabbits inhibits the cardiac sarcolemmal Na⁺-K⁺ pump. *Circulation Research*, 86, 37-42. [More Information]