

Publications (10 most relevant publications of the last 5 years)

1. Sossalla S, Kallmeyer B, Wagner S, Mazur M, Maurer U, Toischer K, Schmitto JD, Seipelt R, Schöndube FA, Hasenfuss G, Belardinelli L, Maier LS. Altered Na<sup>+</sup> currents in atrial fibrillation – Effects of ranolazine on arrhythmias and contractility in human atrial myocardium. *J Am Coll Cardiol*. 2010; 55:2330-42.
2. Sossalla S, Fluschnik N, Ort K, Schotola H, Neef S, Schulte T, Renner A, Gummert J, Hasenfuss G, Maier LS. Inhibition of elevated Ca<sup>2+</sup>/calmodulin-dependent protein kinase II (CaMKII) improves contractility in human failing myocardium. *Circ Res*. 2010. 107:1150-1161.
3. Sossalla S, Maurer U, Schotola H, Hartmann N, Didié M, Zimmermann WH, Jacobshagen C, Wagner S, Maier LS. Diastolic dysfunction and arrhythmias caused by overexpression of CaMKII $\delta_c$  can be reversed by inhibition of late Na<sup>+</sup> current. *Basic Res Cardiol*. 2011; 106:263-272.
4. Schotola H, Toischer K, Popov AF, Renner A, Schmitto JD, Gummert J, Quintel M, Bauer M, Maier LS, Sossalla S. Mild metabolic acidosis impairs the beta-adrenergic response in isolated human failing myocardium. *Crit Care*. 2012; 16:R153.
5. Luo M, Guan X, Luczak E, Kutschke W, Gao Z, Yang J, Glynn P, Sossalla S, Swaminathan PD, Weiss R, Yang B, Rokita A, Maier LS, Efimov IR, Hund T, Anderson ME. Diabetes increases mortality after myocardial infarction by oxidizing CaMKII. *J Clin Invest*. 2013; 123:1262-1274.
6. Toischer K, Hartmann N, Wagner S, Fischer TH, Herting J, Danner BC, Sag CM, Hund TJ, Mohler PJ, Belardinelli L, Hasenfuss G, Maier LS, Sossalla S. Role of late sodium current as a potential arrhythmogenic mechanism in the progression of pressure-induced heart disease. *J Mol Cell Cardiol*. 2013; 61:111-22.
7. Fischer TH, Herting J, Tirilomis T, Renner A, Neef S, Toischer K, Ellenberger D, Förster A, Schmitto JD, Gummert J, Schöndube FA, Hasenfuss G, Maier LS, Sossalla S. CaMKII and PKA differentially regulate SR Ca<sup>2+</sup>-leak in human cardiac pathology. *Circulation*. 2013; 128:970-981.
8. Fischer TH, Eiringhaus J, Dybkova N, Förster A, Herting J, Kleinwächter A, Ljubojevic S, Schmitto JD, Streckfuß-Bömeke K, Renner A, Gummert J, Hasenfuss G, Maier LS, Sossalla S. CaMKII equally induces SR Ca<sup>2+</sup> leak in human ischemic and dilated cardiomyopathy. *Eur J Heart Fail*. 2014; 16:1292-1300.
9. Fischer T, Herting J, Mason FE, Hartmann N, Watanabe S, Nikolaev VO, Sprenger JU, Fan P, Yiao L, Popov AF, Danner BC, Schöndube F, Belardinelli L, Hasenfuss G, Maier LS, Sossalla S. Late INa increases diastolic SR Ca<sup>2+</sup> leak in atrial myocardium by activating PKA and CaMKII Corresponding Author. *Cardiovasc Res*. 2015; Epub ahead of print
10. Mirtschink P, Krishnan J, Grimm F, Sarre A, Hörl M, Kayikci M, Fankhauser N, Christinat Y, Cortijo C, Feehan O, Vukolic A, Sossalla S, Stehr SN, Ule J, Zamboni N, Pedrazzini T, Krek W. *Nature*. 2015; in press.