

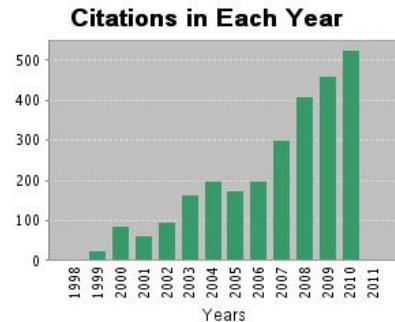
Publikationsverzeichnis Prof. Dr. Lars S. Maier

Originalarbeiten mit komplettem Reviewprozess (*Impactfactor/Zitate*)

Impact-factor	Gesamt	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
	546	3,1	24,5	28,1	14,2	4,0	35,9	30,6	16,8	7,1	79,1	74,8	44,4	74,4	~85	~25

Citation report laut ISI Web of KnowledgeSM (1.1.2011):

- Sum of the Times Cited: 2710
- Average Citations per year: 180,7
- Average Citations per item: 18,8
- h-index (Hirsch-Index): 26



1. **Maier LS**, Pieske B, Allen DG. Influence of stimulation frequency on $[Na^+]_i$ and contractile function in Langendorff-perfused rat heart. *Am J Physiol.* 273:H1246-H1254.1997. (3,116/24)
2. **Maier LS**, Brandes R, Pieske B, Bers DM. Effects of left ventricular hypertrophy on force and Ca^{2+} handling in isolated rat myocardium. *Am J Physiol.* 274:H1361-H1370.1998. (3,077/34)
3. Brandes R, **Maier LS**, Bers DM. Regulation of mitochondrial $[NADH]$ by cytosolic $[Ca^{2+}]_i$ and work in trabeculae from hypertrophic and normal rat hearts. *Circ Res.* 82:1189-1198.1998. (7,988/15)
4. Schlotthauer K, Schattmann J, Bers DM, **Maier LS**, Schütt U, Minami K, Just H, Hasenfuss G, Pieske B. Frequency-dependent changes in contribution of SR Ca^{2+} to Ca^{2+} transients in failing human myocardium assessed with ryanodine. *J Mol Cell Cardiol.* 30:1285-1294.1998. (2,720/29)
5. Hasenfuss G, Pieske B, Castell M, Kretschmann B, **Maier LS**, Just H. Influence of the novel inotropic agent levosimendan on isometric tension and calcium cycling in failing human myocardium. *Circulation.* 98:2141-2147.1998. (9,173/134)
6. Hasenfuss G, Schillinger W, Lehnart SE, Preuss M, Pieske B, **Maier LS**, Prestle J, Minami K, Just H. Relationship between Na^+-Ca^{2+} -exchanger protein levels and diastolic function of failing human myocardium. *Circulation.* 99:641-648.1999. (9,903/224)
7. Pieske B, Beyermann B, Breu V, Löffler BM, Schlotthauer K, **Maier LS**, Schmidt-Schweda S, Just H, Hasenfuss G. Functional effects of endothelin and regulation of endothelin receptors in isolated human nonfailing and failing myocardium. *Circulation.* 99:1802-1809.1999. (9,903/89)
8. Pieske B, **Maier LS**, Bers DM, Hasenfuss G. Ca^{2+} handling and sarcoplasmic reticulum Ca^{2+} content in isolated failing and nonfailing human myocardium. *Circ Res.* 85:38-46.1999. (8,281/205)
9. **Maier LS**, Schwan C, Schillinger W, Minami K, Schütt U, Pieske B, Gingerol, isoproterenol, and ouabain normalize impaired post-rest behavior but not force-frequency relation in failing human myocardium. *Cardiovasc Res.* 45:913-924.2000. (3,783/13)
10. Janssen PML, Zeitz O, Keweloh B, Siegel U, **Maier LS**, Barckhausen P, Pieske B, Prestle J, Lehnart SE, Hasenfuss G. Influence of cyclosporine A on contractile function, calcium handling, and energetics in isolated human and rabbit myocardium. *Cardiovasc Res.* 47:99-107.2000. (3,783/13)
11. **Maier LS**, Barckhausen P, Weisser J, Aleksic I, Baryalei M, Pieske B. Ca^{2+} handling in isolated human atrial myocardium. *Am J Physiol Heart Circ Physiol.* 279:H952-H958.2000. (3,243/19)
12. **Maier LS**, Bers DM, Pieske B. Differences in Ca^{2+} -handling and sarcoplasmic reticulum Ca^{2+} -content in isolated rat and rabbit myocardium. *J Mol Cell Cardiol.* 32:2249-2258.2000. (3,383/55)
13. Weisser J, Martin J, Bisping E, **Maier LS**, Beyersdorf F, Hasenfuss G, Pieske B. Influence of mild hypothermia on myocardial contractility and circulatory function. *Basic Res Cardiol.* 96:198-205.2001. (1,729/22)
14. Hasenfuss G, **Maier LS**, Hermann HP, Lüers C, Hünlich M, Zeitz O, Janssen PML, Pieske B. Influence of pyruvate on contractile performance and Ca^{2+} -cycling in isolated failing human myocardium. *Circulation.* 105:194-199.2002. (10,255/43) mit Editorial von Lopaschuk GD, Rebeyka IM, Allard MF. *Metabolic modulation: a means to mend a broken heart.* *Circulation.* 105:140-142.2002.
15. **Maier LS**, Braunhalter J, Horn W, Weichert S, Pieske B. The role of SR Ca^{2+} -content in blunted inotropic responsiveness of failing human myocardium. *J Mol Cell Cardiol.* 34:455-467.2002. (4,091/12)
16. Pieske B, **Maier LS**, Piacentino V 3rd, Weisser J, Hasenfuss G, Houser S. Rate dependence of $[Na^+]_i$ and contractility in nonfailing and failing human myocardium. *Circulation.* 106:447-453.2002. (10,255/88)
17. DeSantiago J, **Maier LS**, Bers DM. Frequency-dependent acceleration of relaxation in the heart depends on CaMKII, but not phospholamban. *J Mol Cell Cardiol.* 34:975-984.2002. (4,091/87)

18. Lewinski D, Stumme B, **Maier LS**, Luers C, Bers DM, Pieske B. Stretch-dependent slow force response in isolated rabbit myocardium is Na⁺ dependent. *Cardiovasc Res.* 57:1052-1061.2003. (5,164/24)
19. **Maier LS**, Zhang T, Chen L, DeSantiago J, Brown JH, Bers DM. Transgenic CaMKII δ_C overexpression uniquely alters cardiac myocyte Ca²⁺ handling: Reduced SR Ca²⁺ load and activated SR Ca²⁺ release. *Circ Res.* 92:904-911.2003. (10,117/158)
20. Zhang T, **Maier LS**, Dalton ND, Miyamoto S, Ross J Jr, Bers DM, Brown JH. The δ_C isoform of CaMKII is activated in cardiac hypertrophy and induces dilated cardiomyopathy and heart failure. *Circ Res.* 92:912-919.2003. (10,117/145)
21. Wagner S, Seidler T, Picht E, **Maier LS**, Kazanski V, Teucher N, Schillinger W, Pieske B, Isenberg G, Hasenfuss G, Kögler H. Na⁺/Ca²⁺ exchanger overexpression predisposes to reactive oxygen species-induced injury. *Cardiovasc Res.* 60:404-412.2003. (5,164/17)
22. DeSantiago J, **Maier LS**, Bers DM. Phospholamban is required for CaMKII-dependent recovery of Ca transients and SR Ca reuptake during acidosis in cardiac myocytes. *J Mol Cell Cardiol.* 36:67-74.2004. (4,198/23)
23. Ziolo MT, **Maier LS**, Piacentino V 3rd, Bossuyt J, Houser SR, Bers DM. Myocyte NOS2 contributes to blunted β -adrenergic response in failing human hearts by decreasing Ca²⁺ transients. *Circulation.* 109:1886-1891.2004. (12,563/25)
24. Weisser-Thomas J, Dieterich E, Janssen PML, Schmidt-Schweda S, **Maier LS**, Sumbilla C, Pieske B. Method-related effects of adenovirus-mediated LacZ and SERCA1 gene transfer on contractile behavior of cultured failing human cardiomyocytes. *J Pharmacol Toxicol Methods.* 51:91-103.2005. (~1,8/4)
25. **Maier LS**, Wahl-Schott C, Horn W, Weichert S, Pagel C, Wagner S, Dybkova N, Müller OJ, Näbauer M, Franz WM, Pieske B. Increased SR Ca²⁺ cycling contributes to improved contractile performance in SERCA2a-overexpressing transgenic rats. *Cardiovasc Res.* 67:636-646.2005. (5,283/12) *mit Editorial von Bassani JWM, Bassani RA. SERCA upregulation: Breaking the positive feedback in heart failure? Cardiovasc Res.* 67:581-582.2005.
26. Kohlhaas M, Zhang T, Seidler T, Zibrova D, Dybkova N, Steen A, Wagner S, Chen L, Heller Brown J, Bers DM, **Maier LS**. Increased sarcoplasmic reticulum calcium leak but unaltered contractility by acute CaMKII overexpression in isolated rabbit cardiac myocytes. *Circ Res.* 98:235-244.2006. (9,854/65) *mit Editorial von Litwin SE. "Ryanogate: Who Leaked the Calcium?" Circ Res 98:165-168.2006.*
27. Schillinger W, Teucher N, Christians C, Kohlhaas M, Sossalla S, Van Nguyen P, Schmidt AG, Schunck O, Nebendahl K, **Maier LS**, Zeitz O, Hasenfuss G. High intracellular Na⁺ preserves myocardial function at low heart rates in isolated myocardium from failing hearts. *Eur J Heart Fail.* 8:673-680.2006. (3,242/2)
28. Guan K, Nayernia K, **Maier LS**, Wagner S, Dressel R, Lee JH, Nolte J, Wolf F, Li M, Engel W, Hasenfuss G. Pluripotency of spermatogonial stem cells from adult mouse testis. *Nature.* 440:1199-1203.2006. (26,681/291)
29. Song Y, Shryock JC, Wagner S, **Maier LS***, Belardinelli L*. Blocking late sodium current reduces hydrogen peroxide-induced arrhythmogenic activity and contractile dysfunction. *J Pharmacol Exp Ther.* 318:214-222.2006. *geteilte Letztautorschaft. (3,956/44)
30. Kögler H, Schott P, Toischer K, Milting H, Nguyen Van P, Kohlhaas M, Grebe C, Kassner A, Domeier E, Teucher N, Seidler T, Knöll R, **Maier LS**, El-Banayosy A, Körfer R, Hasenfuss G. Relevance of brain natriuretic peptide in preload-dependent regulation of cardiac sarcoplasmic reticulum Ca²⁺ ATPase expression. *Circulation.* 113:2724-2732.2006. (10,940/26)
31. **Maier LS**, Ziolo MT, Bossuyt J, Persechini A, Mestri R, Bers DM. Dynamic changes in free Ca-calmodulin levels in adult cardiac myocytes. *J Mol Cell Cardiol.* 41:451-458.2006. (4,859/13) *mit Editorial von Smith G, MacQuaide N. Swallowing a spider to catch a fly: Ca-calmodulin dynamics in adult cardiomyocytes J Mol Cell Cardiol.* 41:416-417.2006.
32. Wagner S, Dybkova N, Rasenack ECL, Jacobshagen C, Fabritz L, Kirchhof P, Maier SKG, Zhang T, Hasenfuss G, Heller Brown J, Bers DM, **Maier LS**. Ca/calmodulin-dependent protein kinase II regulates cardiac Na channels. *J Clin Invest.* 116:3127-3138.2006. (15,754/79) *mit Cover Figure der JCI Dezemberausgabe 2006.*
33. Yurukova S, Kilić A, Leineweber K, Dybkova N, **Maier LS**, Brodde O-E, Kuhn M. Ca²⁺/calmodulin kinase II-mediated increased cardiac relaxation responses to β -adrenergic receptor stimulation in ANP receptor deficient mice. *Cardiovasc Res.* 73:678-688.2007. (6,127/5)
34. Burkard N, Rokita AG, Kaufmann SG, Hallhuber M, Wu R, Hu K, Hofmann U, Bonz A, Frantz S, Cartwright EI, Neyses L, **Maier LS**, Maier SKG, Schuh K, Ritter O. Conditional neuronal nitric oxide synthase overexpression impairs myocardial contractility. *Circ Res.* 100:e32-e44.2007. (9,721/30)
35. Guan K, Wagner S, Unsöld B, **Maier LS**, Kaiser D, Hemmerlein B, Nayernia K, Engel W, Hasenfuss G. Generation of functional cardiomyocytes from adult mouse spermatogonial stem cells. *Circ Res.* 100:1615-25.2007. (9,721/40) *laut der American Heart Association (AHA) eine der 10 wichtigsten Veröffentlichungen 2007.*
36. Schillinger W, Teucher N, Sossalla S, Kettlewell S, Werner C, Elgner A, Tenderich G, Pieske B, Schöndube FA, Kocksämper J, Schöndube FA, **Maier LS**, Schwörer H, Smith GL, Hasenfuss G. Negative inotropy of

- the gastric proton pump inhibitor pantoprazole in myocardium from human and rabbits. Evaluation of mechanisms. *Circulation*. 116:57-66.2007. (12,755/10)
37. Grandi E, Puglisi JL, Wagner S, **Maier LS**, Severi S, Bers DM. Simulation of Ca/Calmodulin-dependent protein kinase II on rabbit ventricular myocyte ion currents and action potentials. *Biophys J*. 93:3835-3847.2007. (4,627/16)
 38. Sag CM, Dybkova N, Neef S, **Maier LS**. Effects on recovery during acidosis in cardiac myocytes overexpressing CaMKII. *J Mol Cell Cardiol*. 43:696-709.2007. (5,246/4)
 39. Zhang T, Kohlhaas M, Backs J, Phillips W, Mishra S, Dybkova N, Chang S, Bers DM, **Maier LS**, Olson EN, Heller Brown J. Cytoplasmic and nuclear isoforms of CaMKII differentially affect calcium handling but similarly regulate HDAC/MEF2 transcriptional response. *J Biol Chem*. 282:35078-35087.2007. (5,581/25)
 40. Kockskämper J, Seidlmayer L, Walther S, Hellenkamp K, **Maier LS**, Pieske B. Endothelin-1 enhances nuclear $[Ca^{2+}]$ transients in atrial myocytes through $Ins(1,4,5)P_3$ -dependent Ca^{2+} release from perinuclear Ca^{2+} stores. *J Cell Science*. 121:186-195.2008. (6,247/14)
 41. Jacobshagen C, Grüber M, Teucher N, Schmidt AG, Unsöld BW, Toischer K, Nguyen Van P, **Maier LS**, Kögler H, Hasenfuss G. Celecoxib modulates hypertrophic signaling and prevents load-induced cardiac dysfunction. *Eur J Heart Fail*. 10:334-342.2008. (3,398/4)
 42. Jacobshagen C, Kortlepel S, Unsöld BW, Sowa T, Kögler H, Hasenfuss G, **Maier LS**. Inhibition of PI3K improves contractility in α_1 -adrenergically stimulated myocardium. *Front Biosci*. 13:6841-6849.2008. (3,308/1)
 43. Sossalla S, Wagner S, Rasenack ECL, Ruff H, Weber SL, Schöndube FA, Tirilomis T, Tenderich G, Hasenfuss G, Belardinelli L, **Maier LS**. Ranolazine improves diastolic dysfunction in isolated myocardium from failing human hearts - Role of late sodium current and intracellular ion accumulation. *J Mol Cell Cardiol*. 45:32-43.2008 (5,054/31) *mit Editorial von Kass RS, Lindegger N, Hagen B, Lederer WJ. Another calcium paradox in heart failure. J Mol Cell Cardiol*. 45:28-31.2008. 2008 laut JMCC unter den Top-10 am besten zitierten Veröffentlichungen 2008.
 44. Lewinski D, Zhu D, Khafaga M, Kockskämper J, **Maier LS**, Hasenfuss G, Pieske B. Frequency-dependence of the slow force response. *Front Biosci*. 13:7202-7209.2008. (3,308/1)
 45. Mauritz C, Schwanke K, Reppel M, Neef S, Katsirntaki K, **Maier LS**, Nguemo F, Menke S, Haustein M, Hescheler J, Hasenfuss G, Martin U. Generation of Functional Murine Cardiac Myocytes from Induced Pluripotent Stem Cells. *Circulation*. 118:507-517.2008. (14,595/93) *mit Editorial von Tulloch NL, Pabon L, Murry CE. Get with the (re)program: cardiovascular potential of skin-derived induced pluripotent stem cells. Circulation*. 118:472-475.2008.
 46. Backs J, Backs T, Neef S, Kreusser MM, Lehmann LH, Patrick DM, Grueter CE, Qi X, Richardson JA, Hill JA, Katus HA, Bassel-Duby R, **Maier LS**, Olson EN. The δ isoform of CaM kinase II is required for pathological cardiac hypertrophy and remodeling after pressure overload. *Proc Natl Acad Sci U S A*. 106:2342-2347.2009. (9,432/30)
 47. Wagner S, Hacker E, Grandi E, Weber SL, Dybkova N, Sossalla S, Sowa T, Bers DM, **Maier LS**. Ca/calmodulin kinase II differentially modulates potassium currents. *Circ Arrhythmia Electrophysiol*. 2:285-294.2009. (3,400/3)
 48. Jacobshagen C, Pax A, Unsöld BW, Seidler T, Schmidt-Schweda S, Hasenfuss G, **Maier LS**. Impact of large volume, ice-cold intravenous fluid on the respiratory function in patients after cardiac arrest. *Resuscitation*. 80:1223-1228.2009. (2,712/8) *mit Editorial von Soar J, Foster J, Breitkreutz R. Fluid infusion during CPR and after ROSC-Is it safe? Resuscitation*. 80:1221-1222.2009.
 49. Haase A, Olmer R, Schwanke K, Wunderlich S, Merkert S, Hess C, Zweigerdt R, Gruh I, Meyer J, Wagner S, **Maier LS**, Han DW, Glage S, Miller K, Fischer P, Schöler HR, Martin U. Generation of induced pluripotent stem (iPS) cells from human cord blood. *Cell Stem Cell*. 5:434-441.2009. (23,563/38)
 50. Sag CM, Wadsack DP, Khabbazzadeh S, Abesser M, Grefe C, Neef S, Maier SKG, **Maier LS**. CaMKII contributes to cardiac arrhythmogenesis in transgenic CaMKII δ_C mice having heart failure. *Circ Heart Fail*. 2:664-675.2009. (3,433/11)
 51. Silter M, Kögler H, Wilting J, Schäfer K, Toischer K, Rokita AG, Breves G, **Maier LS**, Katschinski DM. Impaired Ca^{2+} -handling in HIF-1 α $^{+/-}$ mice as a consequence of pressure overload. *Pflugers Arch*. 459:569-77.2010. (3,842/-)
 52. Knöll R, Kostin S, Klede S, Savvatis K, Klinge L, Stehle I, Gunkel S, Kötter S, Babicz K, Sohns M, Miocic S, Didié M, Knöll G, Zimmermann WH, Thelen P, Bickeböller H, **Maier L**, Schaper W, Schaper J, Kraft T, Tschöpe C, Linke WA, Chien KR. A common MLP (Muscle LIM Protein) variant is associated with cardiomyopathy. *Circ Res*. 106:695-704.2010. (9,214/1) *mit Cover Figure der Circ Res Ausgabe vom 5. März 2010.*
 53. Neef S, Dybkova N, Sossalla S, Ort KR, Seipelt R, Schöndube FA, Hasenfuss G, **Maier LS**. CaMKII dependent diastolic SR Ca^{2+} leak and elevated diastolic Ca^{2+} levels in right atrial myocardium of patients with atrial fibrillation. *Circ Res*. 106:1134-1144.2010. (9,214/6)

54. Wittköpper K, Fabritz L, Neef S, Ort KR, Grefe C, Unsöld B, Kirchhof P, **Maier LS**, Hasenfuss G, Dobrev D, Eschenhagen T, El-Armouche A. Constitutively active phosphatase inhibitor-1 improves cardiac contractility in young mice but is deleterious after catecholaminergic stress and with aging. *J Clin Invest*. 120:617-26.2010. (15,387/5)
55. Sedej S, Heinzel FR, Walther S, Dybkova N, Wakula P, Groborz J, Gronau P, **Maier LS**, Vos MA, Lai FA, Napolitano C, Priori S, Kocks-kämper J, Pieske BM. Na⁺-dependent SR Ca²⁺ overload induces arrhythmogenic events in mouse cardiomyocytes with a human CPVT mutation. *Cardiovasc Res*. 87:50-9.2010. (5,801/2) *mit Editorial von Brette F. Calcium polymorphic ventricular tachycardia: a new name for CPVT? Cardiovasc Res*. 87:10-1.2010.
56. Schott P, Jacobshagen C, Köhler J, Seidler T, Asif AR, Dihazi H, Hasenfuss G, **Maier LS**. Proteome changes in CaMKII δ_C -overexpressing cardiac myocytes. *Cardiovasc Pathol*. 19:e241-50.2010. (1,626/-)
57. Jacobshagen C, Pelster T, Pax A, Horn W, Schmidt-Schweda S, Unsöld BW, Seidler T, Hasenfuss G, **Maier LS**. Effects of mild hypothermia on hemodynamics in cardiac arrest survivors and isolated failing human myocardium. *Clin Res Cardiol*. 99:267-76.2010. (2,958/-)
58. Sossalla S, Mazur M, Kallmeyer B, Wagner S, Toischer K, Schmitto JD, Schöndube F, Hasenfuss G, Belardinelli L, **Maier LS**. Altered Na⁺ Currents in Atrial Fibrillation: Effects of Ranolazine on Arrhythmias and Contractility in Human Atrial Myocardium. *J Am Coll Cardiol*. 55:2330-42.2010. (12,535/3) *mit Editorial von Schotten U, Verheule S, Kerfant BG, Greiser M. Enhanced Late Na⁺-Currents in Atrial Fibrillation: New Drug Target or just an Epiphenomenon? J Am Coll Cardiol*. 55:2343-45.2010.
59. Sohns C, Sossalla S, Schmitto JD, Jacobshagen C, Raab BW, Obenauer S, **Maier LS**. Visualisation of transcatheter ablation of septal hypertrophy (TASH) in patients with hypertrophic obstructive cardiomyopathy (HOCM): A comparison between cardiac MRI (CMR), invasive measurements and echocardiography. *Clin Res Cardiol*. 99:359-68.2010. (2,958/-)
60. Toischer K, Rokita AG, Unsöld B, Zhu W, Kararigas G, Sossalla S, Reuter SP, Becker A, Teucher N, Seidler T, Grebe C, Preuß L, Gupta SN, Schmidt K, Lehnart SE, Krüger M, Linke WA, Backs J, Regitz-Zagrosek V, Schäfer K, Field LJ, **Maier LS***, Hasenfuss G*. Differential cardiac remodeling in preload versus afterload. *Circulation*. 122:993-1003.2010. *geteilte Letztautorschaft. (14,816/-)
61. Sossalla S, Fluschnik N, Schotola H, Ort K, Neef S, Schulte T, Wittköpper K, Renner A, Schmitto JD, Gummert J, El-Armouche A, Hasenfuss G, **Maier LS**. Inhibition of elevated Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) improves contractility in human failing myocardium. *Circ Res*. 107:1150-61.2010. (9,214/1) *mit Editorial von Bers DM. CaMKII inhibition in heart failure makes jump to human. Circ Res*. 107:1044-6.2010. *Mit über 900 downloads unter den Top-25 der am häufigsten gelesenen Veröffentlichungen im November 2010.*
62. Seidler T, Teucher N, Hellenkamp K, Unsöld B, Grebe C, Kramps P, Schotola H, Wagner S, Schöndube FA, Hasenfuss G, **Maier LS**. Limitations of FKBP12.6-Directed Treatment Strategies for Maladaptive Cardiac Remodeling and Heart Failure. *J Mol Cell Cardiol*. 2010 Aug 24. [Epub ahead of print]. (4,965/-)
63. Sossalla S, Schotola H, Toischer K, Sohns C, Tenderich G, Schwörer H, Hasenfuss G, **Maier LS**, Schillinger W. Effects of different proton pump inhibitors on cardiac contractility in isolated human failing myocardium. *J Cardiovasc Surg*. (im Druck). (1,160/-)
64. Dybkova N, Sedej S, Napolitano C, Neef S, Rokita AG, Hünlich M, Heller Brown J, Kocks-kämper J, Priori SG, Pieske B, **Maier LS**. Overexpression of CaMKII δ_C in RyR2^{R4496C} knock-in mice leads to spontaneous sudden cardiac death and altered intracellular Ca²⁺ handling. *J Am Coll Cardiol*. (im Druck). (12,535/-)
65. Sossalla S, Maurer U, Schotola H, Hartmann N, Didié M, Wagner S, **Maier LS**. Diastolic dysfunction and arrhythmias caused by chronic overexpression of CaMKII can be reversed by inhibition of late Na⁺ current. *Basic Res Cardiol*. 2010 Dec 21. [Epub ahead of print] (5,973/-)

Übersichtsarbeiten mit (* bzw. ohne) komplettem Reviewprozess

1. *Schillinger W, Lehnart SE, Prestle J, Preuss M, Pieske B, **Maier LS**, Meyer M, Just H, Hasenfuss G. Influence of SR Ca²⁺-ATPase and Na⁺-Ca²⁺-exchanger on the force-frequency relation. *Basic Res Cardiol*. 93 (Suppl.1):38-45.1998. (1,573/26)
2. Pieske B, **Maier LS**, Schmidt-Schweda S. Sarcoplasmic reticulum Ca²⁺ load in human heart failure. *Basic Res Cardiol*. 97 (Suppl.1):63-71.2002. (1,994/-)
3. **Maier LS**, Bers DM. Calcium, calmodulin, and calcium/calmodulin kinase II - Heartbeat to heartbeat and beyond. *J Mol Cell Cardiol*. 34:919-939.2002. (4,091/119)
4. ***Maier LS**. CaMKII δ overexpression in hypertrophy and heart failure: cellular consequences for excitation-contraction coupling. *Brazil J Med Biol Res*. 38:1293-1302.2005. (0,859/6)
5. ***Maier LS**, Hasenfuss G. Role of [Na⁺]_i and the emerging involvement of the late Na current (I_{Na,late}) in the pathophysiology of cardiovascular disease. *Eur Heart J*. 8 (Suppl A):A6-A9.2006. (1,506/4)
6. **Maier LS**. Molecular pathogenesis of heart failure. *Molekulare Pathogenese der Herzinsuffizienz – Inhibition*

- der CaMKII als neuartiger therapeutischer Ansatz. Dtsch Med Wochenschr. 131:503-505.2006. (0,584/-)
7. Wagner S, **Maier LS**. Modulation of cardiac Na and Ca currents by CaM and CaMKII. J Cardiovasc Electrophysiol. 17 Suppl 1:S26-33.2006. (3,265/-)
 8. *Jacobshagen C, **Maier LS**. Strategisches Vorgehen bei akuter Lungenembolie. Med Welt. 57:377-384.2006. (~0,5/-)
 9. **Maier LS**, Bers DM. Role of Ca/calmodulin-dependent protein kinase (CaMK) in excitation-contraction coupling in the heart. Cardiovasc Res. 73:631-640.2007. (6,127/54)
 10. Neef S, **Maier LS**. Remodeling of excitation-contraction coupling in the heart: Inhibition of sarcoplasmic reticulum Ca²⁺ leak as a novel therapeutic approach. Curr Heart Fail Rep. 4:11-17.2007. (~1,0/-)
 11. *Rosenkranz S, **Maier LS**, Maack C, Böhm M. Hotline Update of Clinical Trials and Registries presented at the German Cardiac Society Meeting 2007: 2L-Registry, Kardio-Pro, EVER, AFFECT, VTACH, ARTS II, OP-TAMI, PEPCAD I, PEPCAD II, GERSHWIN, SPICE, FIX-CHF and CREDIT. Clin Res Cardiol. 96:457-68.2007. (1,442/6)
 12. Seidler T, Hasenfuss G, **Maier LS**. Targeting altered calcium physiology in the heart: Translational approaches to excitation, contraction, and transcription. Physiology. 22:328-334.2007. (6,954/5)
 13. Hasenfuss G, **Maier LS**. Mechanism of action of the new anti-ischemia drug ranolazine. Clin Res Cardiol. 97:222-226.2008. (2,418/8)
 14. Sossalla S, Hasenfuss G, **Maier LS**. Die Inhibition des späten Natriumeinstroms als neuartige kardioprotektive Therapieoption. Kardiologe. 2:142-148.2008. (~0,5/-)
 15. ***Maier LS**, Maack C, Ritter O, Böhm M. Hotline Update of Clinical Trials and Registries presented at the German Cardiac Society Meeting 2008: PEPCAD, LokalTax, INH, German Ablation Registry, German Device Registry, DES.DE Registry, DHR, Reality, SWEETHEART Registry, ADMA, GERSHWIN. Clin Res Cardiol. 97:356-363.2008. (2,418/6)
 16. ***Maier LS**, Hasenfuss G. Inhibition of the late sodium current (I_{Na,late}) with ranolazine: A new cardioprotective mechanism. European Cardiology. Volume 4 Issue 2:46-48.2008. (-/-)
 17. **Maier LS**. Role of CaMKII for signaling and regulation in the heart. Front Biosci. 14:486-496.2009. (3,736/8)
 18. ***Maier LS**, Baumhäkel M, Böhm M. Hotline sessions presented at the American College of Cardiology Congress 2009. Clin Res Cardiol. 98:345-52.2009. (2,958/1)
 19. ***Maier LS**, Schirmer S, Walenta K, Jacobshagen C, Böhm M. Hotline Update of Clinical Trials and Registries presented at the German Cardiac Society Meeting 2009. Clin Res Cardiol. 98:413-9.2009. (2,958/1)
 20. **Maier LS**. A novel mechanism for the treatment of angina, arrhythmias, and diastolic dysfunction: Inhibition of late I_{Na} using ranolazine. J Cardiovasc Pharmacol. 54:279-286.2009. (2,826/2)
 21. Lehnart SE, **Maier LS**, Hasenfuss G. Abnormalities of calcium metabolism and myocardial contractility depression in the failing heart. Heart Fail Rev. 14:213-224.2009. (5,865/4)
 22. Jacobshagen C, Hasenfuss G, **Maier LS**. Kurzbewertung: Ranolazin (Ranexa). Internist Praxis. 50:603-7.2010.
 23. Jacobshagen C, Hasenfuss G, **Maier LS**. Kurzbewertung: Ranolazin (Ranexa). Arzneimittel-, Therapie-Kritik. 42:205-9.2010.
 24. **Maier LS**. CaMKII regulation of voltage-gated Na⁺ channels and cell excitability. Heart Rhythm. 2010 Sep 28. [Epub ahead of print]. (4,559/-)
 25. Rokita AG, Sag CM, **Maier LS**. Elektromechanische Kopplung bei Herzinsuffizienz und neue Therapieoptionen. Herz (im Druck).

Editorials

1. **Maier LS**, Bers DM, Heller Brown J. Calmodulin and Ca²⁺/calmodulin kinases in the heart – Physiology and pathophysiology. Cardiovasc Res. 73:629-630.2007. (6,127/3)
2. **Maier LS**. Vitamin A for the heart – Progress for cardiac hypertrophy regression? Am J Physiol Heart Circ Physiol. 294:H588-589.2008. (3,643/-)
3. Sossalla S, **Maier LS**. Young ambitious cardiologists and scientific research – reasons to get involved. Kardiolog Pol. 67:1310-1312.2009. (0,568/-)

Fallbeschreibungen

1. **Maier LS**, Hermann HP, Scholz KH. Massive pulmonary embolism with large floating thrombus in the truncus of the pulmonary artery. Intensive Care Med. 27:1674-1676.2001. (2,314/5)
2. **Maier LS**, Buchwald AB, Ehlers B, Rühmkorf, K, Scholz KH. Closure of an iatrogenic aortocoronary arteriovenous fistula: Transcatheter balloon embolization following failed coil embolization and salvage of coils that migrated into the coronary venous system. Catheter Cardiovasc Interv. 55:109-112.2002. (1,074/2)
3. **Maier LS**, Teucher N, Dörge H, Konstantinides S. Large emboli on their way through the heart - First live demonstration of large paradoxical embolisms through a patent foramen ovale. Eur J Echocardiogr. 8:158-

Buchbeiträge

1. **Maier LS.** Medizinische Psychologie und Soziologie. In: *Fit fürs Physikum - Das GK1-Repetitorium für die schriftliche und die mündliche Prüfung*, herausgegeben von Beilmann A, Buchta M, Horn-Teka E-M, Kubitzka B. Wiesbaden: Ullstein Mosby, 761-838,1997.
2. Pieske B, Schillinger W, Dieterich S, **Maier LS**, Hasenfuss G, Prestle J. Distinct phenotype patterns of Ca²⁺ handling proteins in end-stage failing human hearts. In: *From Molecule to Men*, herausgegeben von Zehender M, Breithardt G, Just H. Darmstadt: Steinkopff Verlag, 19-32.2000.
3. **Maier LS**, Buchta M, Autenrieth C. Psychologie. In: *Das Physikum - GK1-Repetitorium*, herausgegeben von Buchta M, Sönnichsen A, 1. Auflage. München: Urban & Fischer, 1021-1121.2003.
4. **Maier LS.** Calcium/calmodulin kinase as a novel anti-arrhythmic target. In: *Novel Therapeutic Targets for Antiarrhythmic Drugs*, herausgegeben von George E. Billman. Wiley Publishers, 339-366.2010.

Bücher

1. **Maier LS.** *Die Bedeutung von Natrium und Calcium für die elektromechanische Kopplung des Myokards. Neue Methoden zur Messung der intrazellulären Natriumkonzentration, der intrazellulären Calciumtransienten und des Calciumgehalts des sarkoplasmatischen Retikulums im menschlichen Myokard und Tiermyokard*, herausgegeben von Pieske B, **Maier LS.** Marburg: Tectum-Verlag,1999.
2. **Maier LS.** *Die Bedeutung der Ca²⁺-Calmodulin abhängigen Proteinkinase II (CaMKII) für das sarkoplasmatische Retikulum (SR) bei kardialer Hypertrophie und Herzinsuffizienz*, herausgegeben von Pieske B, **Maier LS.** Marburg: Tectum-Verlag,2004.

Editortätigkeit

- Guest Editor für die „Review Focus Series“: „*Calmodulin and Ca/calmodulin kinases in the heart – Physiology and pathophysiology*“ in der Zeitschrift Cardiovascular Research (erschienen März 2007)
- Associate Editor für Cardiology Research and Practice seit 2009
- Editorial Board für Journal of Molecular and Cellular Cardiology ab 2010
- Associate Editor für Frontiers in Cardiac Muscle Physiology ab 2010
- Editorial Board für Current Heart Failure Reports ab 2011

Buchreihe

Mitherausgeber der Reihe „*Pathophysiologie der Herz-Kreislaufkrankungen*“ im Tectum-Verlag.

1. **Maier LS.** Die Bedeutung von Natrium und Calcium für die elektromechanische Kopplung des Myokards, 1999.
2. Schwan C. Pharmakologische Beeinflussung der Kraft-Frequenz-Beziehung und Post-Pausen-Beziehung am insuffizienten menschlichen Myokard, 2000.
3. von Lewinski D. Wirkungen und Wirkmechanismen von Strophantidin am menschlichen Myokard. Untersuchungen am insuffizienten und nicht-insuffizienten menschlichen Myokard unter gleichzeitiger Bestimmung der intrazellulären Kalziumtransienten, 2000.
4. Zirnig M. Einfluß von Endothelin-1 auf Kontraktionskraftentwicklung und intrazelluläre Calcium-Transienten des Myokards. Simultane Messung von isometrischer Kontraktionskraft und intrazellulären Calcium-Transienten mit Hilfe der Fura-2/AM-Methode am isolierten insuffizienten menschlichen Myokard und nicht-insuffizienten Kaninchenmyokard, 2000.
5. **Maier LS.** Die Bedeutung der Ca²⁺-Calmodulin abhängigen Proteinkinase II (CaMKII) für das sarkoplasmatische Retikulum (SR) bei kardialer Hypertrophie und Herzinsuffizienz, 2004.

Abstracts

Seit 1997 wurden über 200 Abstracts auf Kongressen im In- und Ausland vorgestellt.