Westernbrink D.B., Edwards A, McCulloch A.D, **Brown J.H**., The Promise of CaMKII inhibition for heart disease: preventing heart failure, Expert Opinion on Therapeutic Targets, Vol. 17, No. 8 , P889-903, 2013.

Xiang S.Y., Ouyang K., Miyamoto S., Smrcka A.V., Chen J., **Brown J.H**., Phospholipase C epsilon, PKD1 and SSH1L transduce RhoA signaling to protect mitochondria from oxidative stress in the heart. Science Signaling, 17;6(306):ra108, 2013.

Zhang D.M., Chai Y., Erickson J., **Brown J.H.,** Bers D., Lin Y.F. Modulation of Sarcolemmal ATP-Sensitive Potassium Channels by Nitric Oxide via sGC/PKG/ROS/ERK1/2/CaMKII Signaling in Ventricular Cardiomyocytes. J Physiol, 1;592(Pt 5):971-90. 2014.

Benincá C., Planagumà J., Shuck A. F., Acín-Perez R., Muñoz J. P., Almeida M. M., **Brown, J.H.,** Murphy A. N., Zorzano A., Enríquez J. A., Aragay A. M., A new non-canonical pathway for Gq protein in regulating mitochondrial dynamics and bioenergetics, ­. (5):1135-46, 2014.

Gray C, **Brown J.H**., CaMKII delta subtypes: Localization and Function, Frontiers in Pharmacology, 11;5:15, 2014.

Sayyah J, Bartakova A, Nogal N, Quilliam LA, Stupack DG, **Brown J.H.,** Rap1A mediates thrombin stimulated, integrin-dependent glioblastoma cell proliferation and tumor growth. J Biol Chem. 20;289(25):17689-98 2014

Di Carlo M, Said M., Ling H., Valverde C, DeGiusti V., Sommese L., Palomeque J., Aiello A.,. Skapura D, Rinaldi G., Respress J., **Brown J.H**., Wehrens X.H.T., Salas M, Mattiazzi, A., CaMKII-dependent phosphorylation of cardiac ryanodine receptors regulates cell death in cardiac ischemia/reperfusion injury. J Mol Cell Cardiol, 74:274-83. 2014.

Zhao X., Ding E.Y., Yu O.M., Xiang S.Y., Tan-Sah V.P., Yung B.S., Hedgpeth J., Neubig R.R., Lau L.F., **Brown J.H.**, Miyamoto S. Induction of the matricellular protein CCN1 through RhoA and MRTF-A contributes to ischemic cardioprotection. J Mol Cell Cardiol.;75:152-61, 2014.

Suarez J, Wang H, Scott BT, Ling H, Makino A, Swanson E, **Brown JH**, Suarez JA, Feinstein S, Diaz-Juarez J, Dillmann WH. In vivo selective expression of thyroid hormone receptor a1 in endothelial cells attenuates myocardial injury in experimental myocardial infarction in mice. Am J Physiol Regul Integr Comp Physiol; 307(3):R340-6, 2014.

Edwards A.G., Hake J. E., Patel S., Grandi E., Li P., Miyamoto S., Omens J. H., **Brown J.H**., Bers D. M., McCulloch A.D, Nonequilibrium reactivation of Na+ current drives early after depolarizations in Mouse Ventricle., Circ Arrhythm Electrophysiol.;7(6):1205-13, 2014.

Dusaban S.S., **Brown J.H.**, PLCε mediated sustained signaling pathways, Advances in Biological Regulation, Jan;57C:17-23, 2015.

Westenbrink D.B., Ling H., Miyamoto S., Divakaruni A., Gray C.B.B., Zambon A., Dalton N., Peterson K., Gu Y., Matkovich S., Murphy A., Dorn G.W., **Brown J.H**., Mitochondrial reprogramming induced by CaMKIIδ mediates hypertrophy decompensation. Circ Res.; 116(5):e28-39, 2015.

Yu O.M and **Brown, J.H.,** GPCR and RhoA-stimulated transcriptional responses: links to inflammation, differentiation and cell proliferation, Mol Pharmacol.; 88(1):171-80, 2015.

**Brown J.H**, Catterrall W., Conn P.J., Cull-Candy S.G., Dingledine R., Kendall T., Insel P.A., Milligan G., Traynelis S., The First 50 Years of Molecular Pharmacology, Molecular Pharmacology, 115.099564, 2015.

Grimm M., Ling H., Pereira L., Erickson J.R., Gray C.B.B., cull-cand A., Sarma S., Respress J. L., Wehrens X.T.,Bers D.M, **Brown J.H**. CaMKIIδ mediates β-adrenergic effects on RyR2 phosphorylation and SR Ca2+ leak and the pathophysiological response to chronic β-adrenergic stimulation, J Mol Cell Cardiol.;85:282-291, 2015.

Dusaban, S, Kunkel, M.T., Smrcka, A.V., **Brown J.H**., Thrombin Promotes Sustained Signaling and Inflammatory Gene Expression through the CDC25 and Ras Associating Domains of Phospholipase C-epsilon, J Biol Chem.; 290(44):26776-83, 2015.

Yu, OM., Miyamoto, S., **Brown, J.H**., MRTF-A and YAP exert dual control in GPCR and RhoA-mediated transcriptional regulation and cell proliferation, Mol Cell Biol.; 36(1):39-49, 2016 (highlighted in F1000).

Sanna M.G., Vincent K.P., Repetto E., Nguyen N., Brown S.J, Abgaryan L., Riley S.W, Leaf N.B, Cahalan S.M, Kiosses W.B, Kohno K., **Brown J.H**., McCulloch A, Rosen H., and Gonzalez-Cabrera P., Bitopic S1P3 Antagonist Rescue from Complete Heart Block: Pharmacological and Genetic Evidence for Direct S1P3 Regulation of Mouse Cardiac Conduction, Mol Pharmacol.;89(1):176-86, 2016.

Panama, B.K., Korogyi A., Aschar-Sobbi, R., Oh, Y., Gray, C.B.B., Gang, H., **Brown, J.H**., Kirshenbaum, L.A., Backx, H., Reductions in the cardiac transient outward K+ current Ito caused by chronic β-adrenergic receptor stimulation are partly rescued by inhibition of nuclear factor kappaB, J. Biol. Chem. 291(8):4156-65, 2016.

Miyamoto S., **Brown J.H.**, Drp1 and Mitochondrial Autophagy Lend a Helping Hand in Adaptation to Pressure Overload. Circulation, 133(13):1225-7, 2016.

Hoydal, M, Stolen, T.O., Kettlewell, S., Maiers, L.S., **Brown, J.H.**, Sowa, T., Catalucci, D., Condorelli, G., Kemi, O.J., Smith, G.L., Wisloff, U., Exercise Training reverses myocardial dysfunction induced by CaMKIIδc overexpression by restoring Ca2+-homeostasis. Journal of Applied Physiology; 121: 212-220, 2016.

Castaldi A., Chesini. G., Taylor, A., Purcell, N., **Brown J.H.**, Sphingosine 1-Phosphate elicits RhoA-dependent CPC proliferation and MRTF-A mediated gene induction. Cell Signal, 28:871-879, 2016.

Gray, C.B.B., Suetomi, T., Xiang, S., Mishra, S., Blackwood, E.A., Glembotski, C., Miyamoto, S., Westenbrink, B.D., **Brown, J.H.** CaMKII subtypes differently regulate infarct formation following *ex vivo* myocardial ischemia/reperfusion through NF-B and TNF-J Mol Cell Cardiol. 2017 Feb; 103: 48-55.

Yung, B., Brand, C., Xiang, Y., Purcell, N.H., Gray, C.B.B., Rosen, H., Chun, J., Miyamoto, S., **Brown J.H**., Selective coupling of the S1P3 receptor subtype to S1P-mediated RhoA activation and cardioprotection, J Mol Cell Cardiol, 103:1-10. 2017.

Dewenter M., Neef S., Vettel C., Lammle S., Beushausen C., Zelarayan L.C., Katz S., von der Lieth A., Meyer-Roxlau S., Weber S., Wieland T., Sossalla S., Backs J., **Brown J.H**., Maier L.S., El-Armouche A. Calcium/Calmodulin-Dependent Protein Kinase II Activity Persists During Chronic β-Adrenoceptor Blockade in Experimental and Human Heart Failure. Circ Heart Fail, 2017 May; 10(5):e003840. Doi: 10.1161/CIRCHEARTFAILURE.117.003840. PMID2848732.

Dusaban, S.S., Rosen, H., Chun, J., Purcell, N.H., **Brown, J.H.** Sphingosine 1-phosphate receptor 3 and RhoA signaling mediate inflammatory gene expression in astrocytes. J. Neuroinflammation. 2017 Jun 2; 14(1):111.

Castalidi A., Dodia R.M., Orogo A.M., Zambrano C.M., Najor R.H., Gustafsson A.B., **Brown J.H.**, Purcell N.H. Decline in cellular function of aged mouse c-kit+cardiac progenitor cells. J Physiol. 2017 Oct 1;595(19):6249-6262. Doi: 10.1113/JP274774. Epub 2017/Aug 18.

Burel, S., Coyan, F.C., Lorenzini, M., Meyer, M.R., Lichti, C.F., **Brown, J.H.,** Loussouam G, Charpentier, F., Nerbonne, J.M., Townsend, R., Maier, L.S., Marionneau,. C. C-Terminal Phosphorylation of Nav1.5 Impairs FGF13-Dependent Regulation of Channel Inactivation. J Biol Chem. 2017 Oct 20; 292(42):17431-17448.

Crotty Alexander L.E., Drummond C.A., Hepokoski M., Mathew D.P., Moshensky A., Willeford A., Das S., Singh P., Yong Z., Lee J.H., Vega K., Du A., Shin J., Javier C., Tian J., **Brown J. H.**, Breen E.C. Chronic Inhalation of E-Cigarette Vapor Containing Nicotine Disrupts Airway Barrier Function and Induces Systemic Inflammation and Multi-Organ Fibrosis in Mice. Am J Physiol Regul Integr Comp Physiol. 2018 Jun 1;314(6):R834-R847.

Yu O.M., Benitez J.A., Plouffe S. W., Ryback D., Klein A., Smith J., Greenbaum J., Delatte B., Rao A., Guan K.L., Furnari F.B., Chaim O.M., Miyamoto S., **Brown, J.H.** YAP and MRTF-A transcriptional co-activators of RhoA-mediated gene expression are critical for glioblastoma tumorigenicity. Oncogene. 2018. Jun 11. doi: 10.1038/s41388-018-0301-5. [Epub ahead of print]

Willeford A., Suetomi T., Nickle A., Hoffman HM, Miyamoto S., **Brown J. H.** Cardiomyocyte CaMKII initiates inflammatory gene expression and inflammasome activation to drive cardiac inflammation and fibrosis. J. Clin. Invest. 2018. Jun 21;3 (12) pii: 97054. doi: 10.1172/jci.insight.97054. [Epub ahead of print]

Brand C. S., Tan V. P., **Brown J. H.,** Miyamoto S. RhoA regulates Drp1 mediated mitochondrial fission through ROCK to protect cardiomyocytes. Cell Signal. 2018 Jun 25; 50:48-57. Doi: 10.10.16/jcellsig.2018.06.012. [Epub ahead of print]