Dr Larissa Fabritz

Senior Clinical Lecturer in Acute Medicine

Cardiovascular and Respiratory Sciences

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About

Dr Larissa Fabritz studies novel mechanisms of heart disease and performs translational research towards mechanism-based therapies of cardiovascular diseases. As a clinical consultant, she sees patients in the department of Cardiology at UHB. Dr Larissa Fabritz engages in research on molecular mechanisms of cardiomyopathies and arrhythmias as well as molecular cardiovascular imaging with her working group at the University of Birmingham, collaborations at the University of Muenster, Germany and throughout Europe and the United States.

Qualifications

- 2012 Fellow of the European Society of Cardiology
- 2012 Habilitation Internal Medicine *"Towards molecular mechanism-based therapy of cardiomyopathies and arrhythmias"*
- 2011 GMC accreditation
- 2010 Board Certification in Medicine
- 1998 Thesis summa cum laude
- 1997 Graduation from Medical School

Research

- Molecular mechanisms of arrhythmias and cardiomyopathies
- Molecular mechanisms of atrial fibrillation and atrial thrombosis
- Sodium channel dysfunction
- Desmosomal proteins

Publications

- Fabritz L, Franz MR, Carmeliet E and Kirchhof P (2014) **To the Editor-Propranolol, aβ-adrenoreceptor blocker, prevents arrhythmias also by its sodium channel blocking effect (http://www.ncbi.nlm.nih.gov/pubmed/?term=10.1016%2Fj.hrthm.2013.12.027)** . *Heart Rhythm*11(3):e1
- Yu TY, Syeda F, Holmes AP, Osborne B, Dehghani H, Brain KL, Kirchhof P and Fabritz L (2014) **An automated system using spatial oversampling for optical mapping in murine atria. Development and validation with monophasic and transmembrane action potentials (http://www.ncbi.nlm.nih.gov/pubmed/?term=10.1016%2Fj.pbiomolbio.2014.07.012)** . *Prog Biophys Mol Biol*[Epub ahead of print]
- Fabritz L and Kirchhof P (2013) **Selective atrial profibrotic signalling in mice and man (http://www.ncbi.nlm.nih.gov/pubmed/?term=10.1093%2Fcvr%2Fcvt188)** . *Cardiovasc Res* 99(4):592-4
- Laakmann S, Fortmüller L, Piccini I, Grote-Wessels S, Schmitz W, Breves G, Kirchhof P and Fabritz L (2013) **Minimally invasive closed-chest ultrasound-guided substance delivery into the pericardial space in mice (http://www.ncbi.nlm.nih.gov/pubmed/?term=Minimally+invasive+closed-chest+ultrasound-guided+substance+delivery+into+the+pericardial+space+in+mice)** .*Naunyn Schmiedebergs Arch Pharmacol* 386(3):227-38
- Fabritz L, Fortmüller L, Yu TY, Paul M and Kirchhof P (2012) **Can preload-reducing therapy prevent disease progression in arrhythmogenic right ventricular cardiomyopathy? Experimental evidence and concept for a clinical trial (http://www.ncbi.nlm.nih.gov/pubmed/?term=10.1016%2Fj.pbiomolbio.2012.08.010)** . *Prog Biophys Mol Biol* 110(2-3):340-6
- Riley G, Syeda F, Kirchhof P and Fabritz L (2012) **An introduction to murine models of atrial fibrillation (http://www.ncbi.nlm.nih.gov/pubmed/22934047)** . *Front Physiol* 3:296
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- Fabritz L*, Hoogendijk M*, Scicluna BP, Van Amersfoorth SC, Fortmueller L, Wolf S, Laakmann S, Kreienkamp N, Piccini I, Breithardt G, Ruiz P, Witt H, Ebnet K, Wichter T, Levkau B, Franke WW, Pieperhoff S, de Bakker J, Coronel R and Kirchhof P (2011) **Load-reducing therapy prevents development of arrhythmogenic right ventricular cardiomyopathy in plakoglobin-deficient mice (http://www.ncbi.nlm.nih.gov/pubmed/?term=Preload-Reducing+therapy+prevents+expression+of+arrhythmogenic+right+ventricular+cardiomyopathy+in+plakoglobin-deficient+mice)** . *J Am Coll Cardiol* 57(6):740-50

- Blana A, Kaese S, Fortmüller L, Laakmann S, Damke D, van Bragt K, Eckstein J, Piccini I, Kirchhefer U, Nattel S, Breithardt G, Carmeliet P, Carmeliet E, Schotten U, Verheule S, Kirchhof P and Fabritz L (2010) **Knock-in gain-of-function sodium channel mutation prolongs atrial action potentials and alters atrial vulnerability (http://www.ncbi.nlm.nih.gov/pubmed/?term=A+knock-in+gain-of-function+sodium+channel+mutation+prolongs+atrial+action+potentials+and+alters+atrial+vulnerability)** . *Heart Rhythm* 7(12):1862-9
- Fabritz L, Damke D, Emmerich M, Kaufmann SG, Theis K, Blana A, Fortmüller L, Laakmann S, Hermann S, Aleynichenko E, Steinfurt J, Volkery D, Riemann B, Kirchhefer U, Franz MR, Breithardt G, Carmeliet E, Schäfers M, Maier SKG, Carmeliet P and Kirchhof P (2010) **Autonomic modulation and antiarrhythmic therapy in a model of long QT syndrome type 3 (http://www.ncbi.nlm.nih.gov/pubmed/?term=Autonomic+modulation+and+antiarrhythmic+therapy+in+a+model+of+long+QT+syndrome+type+3)** . *Cardiovascular Research* 87(1):60-72
- Wittköpper K, Fabritz L, Neef S, Ort KR, Grefe C, Unsöld B, Kirchhof P, Maier LS, Hasenfuss G, Dobrev D, Eschenhagen T and El-Armouche (2010) **A Constitutively active phosphatase inhibitor-1 improves cardiac contractility in young mice but is deleterious after catecholaminergic stress and with aging (http://www.ncbi.nlm.nih.gov/pubmed/?term=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(2):617-26

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